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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

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

Monday, March 29, 2021  
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 7326  
47-039-01603-00-00

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: 7326  
Farm Name: CHESTNUT, GLEN D. & NANIE  
U.S. WELL NUMBER: 47-039-01603-00-00  
Vertical Plugging  
Date Issued: 3/29/2021

Promoting a healthy environment.

04/02/2021

## 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.

1) Date 12/24, 2020  
2) Operator's Well No. Coco C 7326  
3) API Well No. 47-039 - 01003

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 X ) Deep X \_\_\_/ Shallow \_\_\_

5) Location: Elevation 1052 ft Watershed Rich Fork of the Elk River  
District Big Sandy County Kanawha Quadrangle Blue Creek

6) Well Operator Columbia Gas Transmission LLC 7) Designated Agent James Amos  
Address 1700 MacCorkle SE Address 48 Columbia Gas Road  
Charleston, WV 25325 Sandyville, WV 25275

8) Oil and Gas Inspector to be notified Name Terry Urban  
Address PO Box 1207 Clendenin, WV 25045  
9) Plugging Contractor Name Contractor Services Inc.  
Address 929 Charleston Road Spencer, WV 25276

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

Refer to enclosed:

- 1) Well job plan.
- 2) Prior to P&A wellbore schematic.
- 3) Proposed P&A wellbore schematic.

★ OFFICE OF OIL & GAS  
HAS NO RECORD OF A  
SQUEEZE CEMENT JOB  
OF 5 1/2" CASING W/ 900 SX  
OF CEMENT.

THE LAST W.R. - 35 WE HAVE  
DATED 5/2/2013 SHOWS  
5 1/2" CASING CEMENTED W/ 35 SX.  
CEMENT

NOTICE INSPECTOR & OO&G  
WITH RESULTS OF 5 1/2" BOND  
LOG.

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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

*Terry Urban*

Date 122920

47039-01603 P  
4703901603A



Columbia Gas Transmission, LLC  
1700 MacCorkle Ave., SE, Charleston, WV, USA 25314

January 12, 2021

WV DEP – Office of Oil & Gas  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304-2345

Enclosed are well plugging permit applications for the following Columbia Gas Transmission existing storage wells:

- Coco B 7075 (039-01258)
- Coco B 7078 (039-01306)
- Coco B 7101 (039-01341)
- Coco B 7228 (039-01623)
- Coco B 7230 (039-01585)
- Coco C 7326 (039-01603)

Please email to address below, and return hardcopies of permits to:

Columbia Gas Transmission  
48 Columbia Gas Rd  
Sandyville, WV 25275  
Attn: Jim Amos

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If you have questions, feel free to call.

Regards,

Jim Amos  
Team Leader  
Well Engineering & Technology  
Columbia Gas Transmission, LLC  
Off: 304-373-2412  
Mob: 304-483-0073  
james\_amos@tcenergy.com

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4703901603P

Objective: Plug and Abandon LAST PROFILE UPDATE:

TITLE: Plug and Abandon WORK TYPE: WR

FIELD: Coco C WELL: 7326

STATE: WV SHL (Lat/ Long) API:

DIST: BHL (Lat/Long) CNTY:

| EXISTING TUBULAR CONFIGURATION | OD (inches) | WEIGHT (PPF) | GRADE | THREAD | DEPTH (ft) |        | FORMATION:                          |
|--------------------------------|-------------|--------------|-------|--------|------------|--------|-------------------------------------|
|                                |             |              |       |        | TOP        | BOTTOM |                                     |
| Conductor                      |             |              |       |        |            |        | Oriskany<br>See below.              |
| Surface                        |             |              |       |        |            |        | ELEVATIONS<br>TMG:<br>KB-RF:<br>GL: |
| Intermediate1                  |             |              |       |        |            |        |                                     |
| Intermediate2                  |             |              |       |        |            |        |                                     |
| Production                     |             |              |       |        |            |        |                                     |
| Tubing                         |             |              |       |        |            |        | WELLBORE SCHEMATIC                  |
| Perforations                   |             |              |       |        |            |        |                                     |
| Perforations                   |             |              |       |        |            |        |                                     |
| Perforations                   |             |              |       |        |            |        |                                     |
| Wellhead                       |             |              |       |        |            |        |                                     |

| D.H. EQUIPMENT             | TYPE | DEPTH (ft) |
|----------------------------|------|------------|
| PACKER INFO: Upper         |      |            |
| Lower                      |      |            |
| NIPPLE PROFILE INFO: Upper |      |            |
| Lower                      |      |            |
| SSSV INFO:                 |      |            |

| CEMENT INFO | TOC (ft) |
|-------------|----------|
|             |          |
|             |          |
|             |          |
|             |          |
|             |          |
|             |          |
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|             |          |
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|             |          |

MISC INFORMATION

**REFER TO WELL SUMMARY REPORT and WELLBORE DIAGRAM**

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PROPOSED YEAR: 2020 ERCB PERMIT REQD: YES \_\_\_ NO X (Internal) PDS Required: YES \_\_\_ NO \_\_\_  
DT. APPLIED: ISSUED:

PREPARED BY: Jim Amos REVIEWED BY: APPROVED: 

PREP DATE: 12/21/2020  
James Amos  
Principal Engineer  
Signed by: 83aa62d7-b683-404d-8328-f042f2e33502



|                             |          |  |        |                      |                               |
|-----------------------------|----------|--|--------|----------------------|-------------------------------|
| <b>WELL JOB PLAN</b>        |          | <b>Well Engineering &amp; Technology</b> |        | PAGE 3               | DATE JOB PREPARED: 12/21/2020 |
| Objective: Plug and Abandon |          |  |        | LAST PROFILE UPDATE: |                               |
| TITLE: Plug and Abandon     |          | WELL: 7326                               |        | WORK TYPE: WR        |                               |
| FIELD: Coco C               | STAT: WV | SHL (Lat/Long): 0 0                      | TWP: 0 | API: 0               | CNTY: 0                       |
| BHL (Lat/Long): 0 0         |          | PROCEDURE                                |        |                      |                               |

**\*\*Note: All cement used will be Class A, slurry weight 15.6ppg, slurry yield 1.18 cuft/sk. All spacers will be 6% Bentonite gel\*\***

- 1 Obtain State plugging permit, FERC authorization, EM&CP, pipeline crossing evaluation, call before you dig, etc. Prepare site specific SPCC.
  - 2 Notify landowner
  - 3 Obtain General Work Permit and Wellsite Review & Turnover Form from Operations.
  - 4 Notify environmental inspector prior to beginning work.
  - 5 Notify State O&G inspector prior to beginning work.
  - 6 Disconnect well line.
  - 7 Install ECD's per EM&CP.
  - 8 Prepare access road and well site.
  - 9 Document casing and annular pressures.
  - 10 Blow down all annuli, replace fittings as needed, and leave annuli open to atmosphere for monitoring.
  - 11 Kill well with viscosified fluid. Spearhead 10 bbl LCM pill ahead.
  - 12 Load 3x5 and 5x8 annuli with kill fluid, Fill all remaining annuli with bentonite gel. Document volumes.
  - 13 Dig around base of wellhead to uncover casing tops and remove cement if present.
  - 14 MIRU service rig.
  - 15 Stack a second 3-1/8" 5K gate valve on top of the flow cross and NU 3-1/8" manual BOPE (pipe + pipe).
  - 16 Function and pressure test BOPE to low (250 psig) and high (2500 psig).
  - 17 TIH w/ 1-3/4" workstring with cut-lip shoe and wash to TD.
  - 18 Pump balanced cement plug from TD to 4800 ft.
  - 19 POOH to above cement, reverse circulate to clean tubulars, pull 10 joints, close pipe rams, and WOC.
  - 20 WOC minimum 8 hours. RIH and tag cement. If cement top is deeper than 5100' then spot a second balanced cmt plug.
  - 21 Install 3-1/2" CIBP above cement plug..
  - 22 Top off 3-1/2" with kill fluid and perform 500 psig pressure test to verify integrity of BP.
  - 23 Release all annular pressure.
  - 24 ND BOPE and wellhead components down to A-section. Weld pulling nipple on 3-1/2" tbg stub.
  - 25 Pull seals and slips.
  - 26 Strip 7-1/16" Cameron BOPE (blind/shears + 3-1/2" pipe rams + annular) over stub and NU on top of A-section. Will need kill/choke outlets below blind/shear rams.
  - 27 Function test and pressure test pipe rams low (250 psig) and high (2500 psig).
  - 28 Wireline freepoint and cut/pull all free 3-1/2" tubing.
  - 29 Obtain CBL inside 5-1/2" casing. Consult with WET engineer on next step - this may change plans forward.
  - 30 Change pipe rams to 1-3/4" and function test.
  - 31 RIH with work string and install balanced cement plug from CIBP to 300' above top of 3-1/2" tbg stub.
  - 32 POOH to above cement, reverse circulate to clean tubulars, spot gel to 2500', pull 10 joints, close pipe rams, and WOC.
  - 33 WOC minimum 4 hours. RIH and tag cement. If cement top is less than 100' from top of 3-1/2" tbg stub then install second cement plug.
  - 34 Install 5-1/2" CIBP above cement plug..
  - 35 Top off 5-1/2" with kill fluid and perform 500 psig pressure test to verify integrity of BP.
  - 36 RIH with work string and spot balanced cement plug from BP to 2200', pick up above cement top, reverse circulate to clean tubulars, close pipe rams, and WOC.
  - 37 WOC minimum 4 hours. RIH and tag cement. If cement top is less than 100' from top of 8-5/8" csg shoe then install second cement plug.
  - 38 ND BOPE and remove A-section.
  - 39 Weld pulling nipple on 5-1/2" casing and dress top of 8-5/8" to accommodate BOPE.
  - 40 Drive 10 to 20 feet of 16".
  - 41 Strip and NU 11" BOPE (blind + pipe + annular) to 8-5/8" csg. Need kill/choke outlets below blind rams.
  - 42 Function test and attempt to pressure test low (200 psig) and high (2000 psig).
  - 43 Wireline freepoint and cut/pull all 5-1/2" casing that is free.
  - 44 TIH with work string and install balanced cement plug from 2500' to 300' above top of 5-1/2" csg stub.
  - 45 POOH to above cement, reverse circulate to clean tubulars, pull 5 joints, close pipe rams, and WOC.
  - 46 WOC minimum 6 hours. RIH to tag cement. If top of plug is less than 100' from top of 5-1/2" csg then install second cement plug.
- Both bullhead squeeze and suicide squeeze attempts to be performed, depending on CBL data obtained.
- 47 Perforate thru both 5-1/2" and 8-5/8" casings at 2200-02' with 4 SPF phased 90 degree. Consult with perf company on charge needed.
  - 48 Perform injection/circulation test.

*CONSULT W/ OFFICE OF OIL & GAS  
CALL INSPECTOR WITH RESULTS  
OF CBL ON 5 1/2" CASING*

*Jim Amos  
12 29 20*

|                       |              |           |
|-----------------------|--------------|-----------|
| PREPARED BY: Jim Amos | REVIEWED BY: | APPROVED: |
| PREP DATE: 12/21/2020 |              |           |

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04/02/2021

WELL JOB PLAN

Well Engineering & Technology

Objective: Plug and Abandon

LAST PROFILE UPDATE:

|                         |                     |               |  |
|-------------------------|---------------------|---------------|--|
| TITLE: Plug and Abandon |                     | WORK TYPE: WR |  |
| FIELD: Coco C           | WELL: 7326          |               |  |
| STAT: WV                | SHL (Lat/Long): 0 0 | API: 0        |  |
| TWP: 0                  | BHL (Lat/Long): 0 0 | CNTY: 0       |  |

PROCEDURE CONTINUED

- 49A If circulation established; circulate 6% gel to surface to condition hole. Consult with WET engineer on cementing procedure.
  - > RIH with sliding-sleeve cement retainer and set above perms.
  - > Confirm circulation.
  - > Disengage/engage to function test retainer.
  - > Cement to surface.
  - > Consult with WET engineer to determine if CBL to be obtained.
- 49B If injection established; consult with WET engineer on squeeze procedure.
  - > RIH with sliding-sleeve cement retainer and set above perms.
  - > Confirm injection.
  - > Disengage from retainer.
  - > Spot cement to bottom of work string.
  - > Engage retainer and squeeze cement. Max injection pressure 1500 psig.
  - > Consult with WET engineer to determine if CBL to be obtained.
- 49C If circulation/injection not established; Perforate at 1600-02'. Repeat process above.
- 50 Repeat process above as needed, perforating at following intervals;
  - 1100 - 02'
  - 450-02'.

\* Note that during steps above cement plugs must be installed across all perf zones, casing shoes, and O/G/W zones.

- 51 ND BOPE.
- 52 Wireline freepoint and cut/pull all 8-5/8" csg that is free.
- 53 Complete setting cement plugs, if needed.
- 54 Grout all annuli as deep as possible (using a small diameter grout string).
- 55 Top off all annuli with cement.
- 56 RDMO service rig.
- 57 Erect monument per state regulations. Reclaim location and lease road.
- 58 P&A complete.

*James W. Miller*  
12-29-20

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|              |            |              |           |
|--------------|------------|--------------|-----------|
| PREPARED BY: | Jim Amos   | REVIEWED BY: | APPROVED: |
| PREP DATE:   | 12/21/2020 |              |           |

~ not to scale ~

4703901603

COCO C 7326

Proposed P&A

(as of 12/9/2020)

\* No fresh water shows reported by the Driller.

TOC could be at/near surface based on volumetric calculations

Sea Level @ 1052 ft.

16" hole to 487'

TOC could be @ ~1600' based on volumetric calculations

Salt Sand 1178'-1581'  
(show water @ 1200')

12-1/4" hole to 1627'

Little Lime 1728'-1760'

Big Lime 1774'-1809'

Loyalhanna 1814'-1926'  
(show gas @ 1894')

Big Injun 1929'-1951'

Weir 2013'-2165'

8-5/8" 24# csg @ 2357'  
Cemented with 85 sx.  
Squeeze cement during P&A.

Dark grey indicates cement installed during P&A.

Light grey cement indicates existing cement prior to P&A.

*Handwritten signature and date: Terry W. [unclear] 12/29/20*

Bridge plug

TOC @ 4720' per CBL

Bridge plug

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5-1/2" 15.5# J-55 csg @ 5403'  
Cemented with 900 sx.  
Squeeze cement.

Marcellus 5307'-5340'

Onondaga 5340'-5477'

Oriskany 5477'-5508'  
(gas storage)

3-1/2" 9.2# J-55 tubing @ 5422' set on a Halliburton Full Flow Packer Shoe.  
Cemented with 50 sx.  
Pull all tubing that is free.

TD 5513'

04/02/2021

~ not to scale ~

4703901603<sup>p</sup> COCO C 7326

Prior to P&A  
(as of 10/21/2020)

\* No fresh water shows reported by the Driller.

Sea Level @ 1052 ft.

Salt Sand 1178'-1581'  
(show water @ 1200')

Little Lime 1728'-1760'

Big Lime 1774'-1809'

Loyalhanna 1814'-1926'  
(show gas @ 1894')

Big Injun 1929'-1951'

Weir 2013'-2165'

Berea 2339'-2343'

TOC could be at/near surface based on volumetric calculations

16" hole to 487'

TOC could be @ ~1600' based on volumetric calculations

12-1/4" hole to 1627'

8-5/8" 24# csg @ 2357'  
Cemented with 85 sx.

*Approved by*  
12-29-20

TOC @ 4720' per CBL but top logged interval only 4490'

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Marcellus 5307'-5340'

Onondaga 5340'-5477'

Oriskany 5477'-5508'  
(gas storage)

5-1/2" 15.5# J-55 csg @ 5403'  
Cemented with 900 sx.

*NO RECORD OF THIS WITH OO&G*

3-1/2" 9.2# J-55 tubing @ 5422' set on a Halliburton Full Flow Packer Shoe.  
Cemented with 50 sx.

TD 5513'

04/02/2021

WR-35  
Rev (9-11)

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

DATE: 5/2/13  
API #: 47-3901603 F

Farm name: Chestnut, Glen D. & Nancy Operator Well No.: 7326

LOCATION: Elevation: 1056 ft Quadrangle: Blue Creek

District: Big Sandy County: Kanawha  
Latitude: 2.175 Feet South of 38 Deg. 27 Min. 30 Sec.  
Longitude 206 Feet West of 81 Deg. 25 Min. 00 Sec.

Company: Columbia Gas Transmission, LLC

| Address:   | Casing & Tubing | Used in drilling | Left in well | Cement fill up Cu. Ft. |
|--|-----------------|------------------|--------------|------------------------|
| 1700 MacCorkle Ave SE<br>Charleston, WV 25325-1273   | 13-3/8"         | 457              | 0            | NA                     |
| Agent: Paul Amick  | 10-3/4"         | 1627             | 0            | NA                     |
| Inspector: Terry Urban   | 8-5/8"          | 2357             | 2357         | 85 sx                  |
| Date Permit Issued: 5/2/12   | 5-1/2"          | 5403             | 5403         | 35 sx                  |
| Date Well Work Commenced: 9/18/12  | 3-1/2"          | 5422             | 5422         | 50 sx                  |
| Date Well Work Completed: 2/1/13   |                 |                  |              |                        |
| Verbal Plugging: NA  |                 |                  |              |                        |
| Date Permission granted on:  |                 |                  |              |                        |
| Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig <input checked="" type="checkbox"/> |                 |                  |              |                        |
| Total Vertical Depth (ft):   |                 |                  |              |                        |
| Total Measured Depth (ft): 5513 (when drilled in 1953)   |                 |                  |              |                        |
| Fresh Water Depth (ft.): none rpt'd by driller in 1953   |                 |                  |              |                        |
| Salt Water Depth (ft.): 1200' (as rpt'd by driller in 1953)  |                 |                  |              |                        |
| Is coal being mined in area (N/Y)? N   |                 |                  |              |                        |
| Coal Depths (ft.): NA  |                 |                  |              |                        |
| Void(s) encountered (N/Y) Depth(s) none rpt'd  |                 |                  |              |                        |

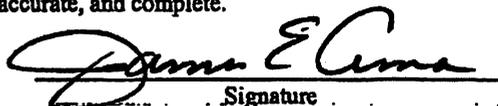
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MAY 02 2013  
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OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Oriskany (natural gas storage) Pay zone depth (ft) 5477 - 5508  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments 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.

  
Signature

5/2/13  
Date

Were core samples taken? Yes \_\_\_\_\_ No X

Were cuttings caught during drilling? Yes \_\_\_\_\_ No NA

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list MicroVertilog (pipe inspection)  
and Cement Bond Log

NOTE: IN THE AREA BELOW 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 THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Installed new wellhead. Not stimulated.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Plug Back Details Including Plug Type and Depth(s):

\_\_\_\_\_  
\_\_\_\_\_

Formations Encountered: \_\_\_\_\_ Top Depth \_\_\_\_\_ / \_\_\_\_\_ Bottom Depth \_\_\_\_\_  
Surface: \_\_\_\_\_

NA - existing well permitted as "Fracture" but was not stimulated

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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MAY 02 2013

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4703901603P

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

*Glendwin*

WELL RECORD

Permit No. KAN-1603 Oil or Gas Well Gas  
(SING)

Company UNITED FUEL GAS COMPANY  
Address P.O. Box 1273, Charleston 25, W.Va.  
Farm Harrison B. Smith #1 Acres 129.26  
Location (waters) Rich Creek  
Well No. 8050 Elev. 1052.21  
District Big Sandy County Kanawha  
The surface of tract is owned in fee by \_\_\_\_\_  
Address \_\_\_\_\_  
Mineral rights are owned by Three Mile Fork Land Co. Trust Co.  
% Kanawha Parking & Address Charleston, W.Va.  
Drilling commenced 3-3-53  
Drilling completed 7-16-53  
Date Shot 7-20-53 From 5491 To 5502  
With 66-2/3# 80% Gelatin  
Open Flow 78 /10ths Water In \_\_\_\_\_ 3 \_\_\_\_\_ Inch  
/10ths Merc. In \_\_\_\_\_ \_\_\_\_\_  
Volume 838,000 Cu. Ft.  
Rock Pressure \_\_\_\_\_ lbs. 575 hrs.  
Oil \_\_\_\_\_ bbls. 1st 24 hrs.  
Fresh water \_\_\_\_\_ feet \_\_\_\_\_ feet  
Salt water 1200 feet \_\_\_\_\_ feet

| Casing and Tubing | Used in Drilling | Left in Well | Packers        |
|-------------------|------------------|--------------|----------------|
| Size              |                  |              | Kind of Packer |
| 16                |                  |              |                |
| 13 -3/8"          |                  | 457'         |                |
| 10 -3/4"          | 1627'            |              | Size of        |
| 8 1/2 -5/8"       |                  | 2356'        | Depth set      |
| 8 1/2 -5/8"       |                  | 5375'        |                |
| 5 3/16            |                  |              | Perf. top      |
| 8                 |                  |              | Perf. bottom   |
| 2 -3/8"           |                  | 5513'        | Perf. top      |
| Liners Used       |                  |              | Perf. bottom   |

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Date \_\_\_\_\_

COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

| Formation      | Color | Hard or Soft | Top   | Bottom | Oil, Gas or Water                       | Depth Found      | Remarks |
|----------------|-------|--------------|-------|--------|---|------------------|---------|
| Surface        |       |              | 0     | 12     | Hole full water (salt)                  | 1200'            |         |
| Sand           |       |              | 12    | 70     |   |                  |         |
| Slate          |       |              | 70    | 125    | Gas 1894'                               |                  |         |
| Sand           |       |              | 125   | 470    |   |                  |         |
| Slate & Shells |       |              | 470   | 690    | Gas 5491-5494'                          | 21/10 W 3" 435 M |         |
| Sand           |       |              | 690   | 720    |   |                  |         |
| Slate & Shells |       |              | 720   | 1122   |   |                  |         |
| Salt Sand      |       |              | 1122  | 1598   | Test before shot 20/10 W 3" 424 M       |                  |         |
| Red Rock       |       |              | 1598  | 1600   | Shot 7-20-53 with 66-2/3# 80% Gelatin   |                  |         |
| Slate & Shells |       |              | 1600  | 1647   | from 5491-5502'                         |                  |         |
| Red Rock       |       |              | 1647  | 1652   | Test 1 hour after shot 82/10 W 3" 859M  |                  |         |
| Slate          |       |              | 1652  | 1680   | Test after cleaning out 78/10 W 3" 838M |                  |         |
| Sand           |       |              | 1680  | 1710   |   |                  |         |
| Slate          |       |              | 1710  | 1725   |   |                  |         |
| Lime           |       |              | 1725  | 1775   |   |                  |         |
| Pencil Cave    |       |              | 1775  | 1780   | FINAL OPEN FLOW - 838 Oriskany          |                  |         |
| Big Lime       |       |              | 1780  | 1930   |   |                  |         |
| Gray Sand      |       |              | 1930  | 1965   |   |                  |         |
| Injun Sand     |       |              | 1965  | 1980   | Shut in 7-31-53 in 2-3/8" Casing        |                  |         |
| Slate & Shells |       |              | 1980  | 2128   |   |                  |         |
| Weir Sand      |       |              | 2128  | 2168'  |   |                  |         |
| Slate & Shells |       |              | 2168  | 2332   |   |                  |         |
| Brown Shale    |       |              | 2332  | 2342   |   |                  |         |
| Berea Grit     |       |              | 2342  | 2349   |   |                  |         |
| Slate          |       |              | 2349  | 2353   |   |                  |         |
| Lime           |       |              | 2353  | 2380   |   |                  |         |
| Slate & Shells |       |              | 2380  | 3570   |   |                  |         |
| Brown Shale    |       |              | 3570  | 3610   |   |                  |         |
| Slate & Shells |       |              | 3610  | 4110   |   |                  |         |
| Brown Shale    |       |              | 4110  | 4210   |   |                  |         |
| Slate & Shells |       |              | 4210  | 4835   |   |                  |         |
| Brown Shale    |       |              | 4835  | 4895   |   |                  |         |
| Slate          |       |              | 4895  | 4970   |   |                  |         |
| Brown Shale    |       |              | 4970  | 5210   |   |                  |         |
| Slate          |       |              | 5210  | 5260   |   |                  |         |
| Brown Shale    |       |              | 5260  | 5339   |   |                  |         |
| Corniferous    |       |              | 5339  | 5477   |   |                  |         |
| Oriskany Sand  |       |              | 5477  | 5508   |   |                  |         |
| Gitty Lime     |       |              | 5508  |        |   |                  |         |
| TOTAL depth    |       |              | 5513' |        |   |                  | (Over)  |



Coco C 7326  
4703901603P

United Fuel Gas Company  
COMPANY

SERIAL WELL NO. 8060

LEASE NO. 32594-32593

MAP SQUARE 72-65

| RECORD OF WELL NO. <u>8060</u> on the |                             | CASING AND TUBING   |              |                  |              | TEST BEFORE SHOT                        |
|---------------------------------------|-----------------------------|---------------------|--------------|------------------|--------------|---|
| 1                                     | 2                           | SIZE                | WEIGHT       | USED IN DRILLING | LEFT IN WELL |   |
| <u>1/4</u> <u>Acres</u>               | <u>farm of 129.26</u> Acres |                     |              |                  |              | <u>20</u> /10 of Water in <u>3</u> inch |
| in                                    | <u>Big Sandy</u> District   | <u>13-3/8</u>       | <u>48#</u>   | <u>487'</u>      | <u>0</u>     | /10 of Merc. in _____ inch              |
|                                       | <u>Kanawha</u> County       | <u>10-3/4</u>       | <u>40.5#</u> | <u>1914'</u>     | <u>0</u>     | Volume <u>124</u> Cu. ft.               |
| State of:                             | <u>West Virginia</u>        | <u>8-5/8</u>        | <u>21#</u>   | <u>2124'</u>     | <u>2357'</u> | TEST AFTER SHOT                         |
| Field:                                | <u>Clendenin</u>            | <u>5-1/2</u>        | <u>15.5#</u> | <u>5533'</u>     | <u>5103'</u> | <u>82</u> /10 of Water in <u>3</u> inch |
| Rig Commenced                         | 19                          | <u>2-3/8</u>        | <u>4.6#</u>  | <u>5686'</u>     | <u>5526'</u> | /10 of Merc. in _____ inch              |
| Rig Completed                         | 19                          |                     |              |                  |              | Volume <u>859</u> Cu. ft.               |
| Drilling Commenced                    | <u>March 3, 1953</u>        |                     |              |                  |              | <u>1-Hr.</u> Hours After Shot           |
| Drilling Completed                    | <u>July 16, 1953</u>        |                     |              |                  |              | Rock Pressure <u>5354</u>               |
| Drilling to cost                      | per foot                    |                     |              |                  |              | Date Shot <u>7-20-53</u>                |
| Contractor is:                        | <u>S.G. Laming</u>          |                     |              |                  |              | Size of Torpedo <u>66-2 3/4 8010-1</u>  |
| Address:                              | <u>Clendenin, W. Va.</u>    | SHUT IN             |              |                  |              | Oil Flowed _____ bbls. 1st 24 hrs.      |
|                                       |                             | Date <u>7/31/53</u> |              |                  |              | Oil Pumped _____ bbls. 1st 24 hrs.      |
| Driller's Name                        | <u>F.M. Gill</u>            | <u>2-3/8</u>        |              | Tubing or Casing |              |   |
|                                       | <u>Gordon Webb</u>          | Size of Packer      | <u>None</u>  |                  |              | Well abandoned and                      |
|                                       |                             | Kind of Packer      | <u>None</u>  |                  |              | Plugged _____ 19                        |
|                                       |                             | 1st. Perf. Set      | from         |                  |              |   |
| Elevation:                            | <u>1052.21'</u>             | 2nd Perf. Set       | from         |                  |              |   |

DRILLER'S RECORD

| FORMATION      | TOP  | BOTTOM | THICKNESS | REMARKS                     |
|----------------|------|--------|-----------|-----------------------------|
| Surface        | 0    | 12     |           | Hole full of water at 1200' |
| Sand           | 12   | 70     |           | Gas at 1894                 |
| Slate          | 70   | 125    |           | Steel line run at 5168'     |
| Sand           | 125  | 470    |           | Gas at 5191'                |
| Slate & Shells | 470  | 690    |           | tested 40% water at 5193'   |
| Sand           | 690  | 720    |           |                             |
| Slate & Shells | 720  | 1122   |           |                             |
| Salt Sand      | 1122 | 1598   |           |                             |
| Red Rock       | 1598 | 1600   |           |                             |
| Slate & Shells | 1600 | 1647   |           |                             |
| Red Rock       | 1647 | 1652   |           |                             |
| Slate          | 1652 | 1680   |           |                             |
| Sand           | 1680 | 1710   |           |                             |
| Slate          | 1710 | 1725   |           |                             |
| Lime           | 1725 | 1775   |           |                             |
| Pencil Cave    | 1775 | 1780   |           |                             |
| Big Lime       | 1780 | 1930   |           |                             |
| Gray Sand      | 1930 | 1965   |           |                             |

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4703901603P

WW-4A  
Revised 6-07

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1) Date: 12/24/2020  
2) Operator's Well Number  
Coco C 7326  
3) API Well No.: 47 - 039 - 01603

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: Glen D. and Nancy C. Chestnut ✓  
Address: 312 E. 7th Street  
Belle, WV 25015

(b) Name: \_\_\_\_\_  
Address: \_\_\_\_\_

(c) Name: \_\_\_\_\_  
Address: \_\_\_\_\_

5) (a) Coal Operator  
Name: Not operated.  
Address: \_\_\_\_\_

(b) Coal Owner(s) with Declaration  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

(c) Coal Lessee with Declaration  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

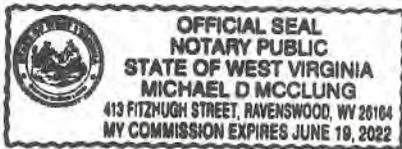
6) Inspector: Terry Urban  
Address: PO Box 1207  
Clendenin, WV 25045  
Telephone: 304.549.5915

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: Columbia Gas Transmission  
By: James Amos  
Its: Team Leader - Well Engineering and Technology  
Address: 48 Columbia Gas Road  
Sandyville, WV 25275  
Telephone: 304.373.2412

Subscribed and sworn before me this 29th day of December 2020  
My Commission Expires June 19, 2022

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).

04/02/2021

4703901603P



Columbia Gas Transmission, LLC

1700 MacCorkle Ave., SE, Charleston, WV, USA 25314

December 24, 2020

Glen and Nancy Chestnut  
312 E. 7<sup>th</sup> Street  
Belle, WV 25015

Columbia Gas Transmission, LLC is applying for a permit to the WV Department of Environmental Protection – Office of Oil and Gas, to plug and abandon an existing underground natural gas storage well located on property owned by you. As reference, the field and well ID is Coco C 7326 (API 47-039-01603).

As part of the well permitting process, Columbia, the well operator, is required to provide a copy of all applicable permit application forms for your review and record retention.

Regards,

A handwritten signature in black ink, appearing to read "Jim Amos".

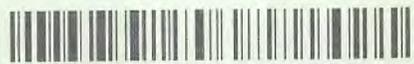
Jim Amos  
Team Leader  
Well Engineering & Technology  
Columbia Gas Transmission, LLC

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WW-4A



| SENDER: COMPLETE THIS SECTION  | COMPLETE THIS SECTION ON DELIVERY   |                                 |  |   |  |   |  |  |   |   |  |  |  |   |                                       |  |  |  |
|--|---|---------------------------------|--|---|--|---|--|--|---|---|--|--|--|---|---------------------------------------|--|--|--|
| <ul style="list-style-type: none"> <li>■ Complete items 1, 2, and 3.</li> <li>■ Print your name and address on the reverse so that we can return the card to you.</li> <li>■ Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul> | A. Signature <span style="float: right;"><input checked="" type="checkbox"/> Agent<br/><input type="checkbox"/> Addressee</span><br><b>X</b> CS1504   |                                 |  |   |  |   |  |  |   |   |  |  |  |   |                                       |  |  |  |
| 1. Article Addressed to:<br>GLEN & NANCY CHESTNUT<br>312 E. 7TH ST<br>BELLE, WV 25015<br><br><br>9590 9402 3688 7335 3537 96  | B. Received by (Printed Name)<br>C19  | C. Date of Delivery<br>1-2-2021 |  |   |  |   |  |  |   |   |  |  |  |   |                                       |  |  |  |
| 2. Article Number (Transfer from...)<br>7017 0660 0001 0359 5644   | D. Is delivery address different from item 1? <input type="checkbox"/> Yes<br>If YES, enter delivery address below: <input type="checkbox"/> No<br><br>3. Service Type <table border="0" style="width: 100%;"> <tr> <td><input type="checkbox"/> Adult Signature</td> <td><input type="checkbox"/> Priority Mail Express®</td> </tr> <tr> <td><input type="checkbox"/> Adult Signature Restricted Delivery</td> <td><input type="checkbox"/> Registered Mail™</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail®</td> <td><input type="checkbox"/> Registered Mail Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail Restricted Delivery</td> <td><input type="checkbox"/> Return Receipt for Merchandise</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery</td> <td><input type="checkbox"/> Signature Confirmation™</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery Restricted Delivery</td> <td><input type="checkbox"/> Signature Confirmation Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Insured Mail</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</td> <td></td> </tr> </table> |                                 | <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® | <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ | <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery | <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise | <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ | <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery | <input type="checkbox"/> Insured Mail |  | <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500) |  |
| <input type="checkbox"/> Adult Signature   | <input type="checkbox"/> Priority Mail Express®   |                                 |  |   |  |   |  |  |   |   |  |  |  |   |                                       |  |  |  |
| <input type="checkbox"/> Adult Signature Restricted Delivery   | <input type="checkbox"/> Registered Mail™   |                                 |  |   |  |   |  |  |   |   |  |  |  |   |                                       |  |  |  |
| <input type="checkbox"/> Certified Mail®   | <input type="checkbox"/> Registered Mail Restricted Delivery  |                                 |  |   |  |   |  |  |   |   |  |  |  |   |                                       |  |  |  |
| <input type="checkbox"/> Certified Mail Restricted Delivery  | <input type="checkbox"/> Return Receipt for Merchandise   |                                 |  |   |  |   |  |  |   |   |  |  |  |   |                                       |  |  |  |
| <input type="checkbox"/> Collect on Delivery   | <input type="checkbox"/> Signature Confirmation™  |                                 |  |   |  |   |  |  |   |   |  |  |  |   |                                       |  |  |  |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery   | <input type="checkbox"/> Signature Confirmation Restricted Delivery   |                                 |  |   |  |   |  |  |   |   |  |  |  |   |                                       |  |  |  |
| <input type="checkbox"/> Insured Mail  |   |                                 |  |   |  |   |  |  |   |   |  |  |  |   |                                       |  |  |  |
| <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)   |   |                                 |  |   |  |   |  |  |   |   |  |  |  |   |                                       |  |  |  |

PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

04/02/2021

**SURFACE OWNER WAIVER**

Operator's Well  
Number

Coco C 7326

**INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A**

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

**NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**

**WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:**

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WV Department of  
Environmental Protection

Chief, Office of Oil and Gas  
Department of Environmental Protection  
601 57<sup>th</sup> St. SE  
Charleston, WV 25304  
(304) 926-0450

**Time Limits and methods for filing comments.** The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

**Comments must be in writing.** Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation..."

**If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.**

**VOLUNTARY STATEMENT OF NO OBJECTION**

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON  
ETC.

FOR EXECUTION BY A CORPORATION,

|           |            |            |
|-----------|------------|------------|
| _____     | Date _____ | Name _____ |
| Signature |            | By _____   |
|           |            | Its _____  |
|           |            | _____      |
|           |            | Date _____ |

Signature

Date  
04/02/2021

WW-4B

4703901603P

API No. 47-039-01603  
Farm Name \_\_\_\_\_  
Well No. Coco C 7326

**INSTRUCTIONS TO COAL OPERATORS  
OWNERS AND LESSEE**

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

**WAIVER**

The undersigned coal operator \_\_\_\_\_ / owner \_\_\_\_\_ / lessee \_\_\_\_\_ / of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: \_\_\_\_\_

By: \_\_\_\_\_

Its \_\_\_\_\_

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Environmental Protection

04/02/2021

4703901603P

WW-9  
(5/16)

API Number 47 - 039 - 01603  
Operator's Well No. \_\_\_\_\_

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

Operator Name Columbia Gas Transmission OP Code 307032

Watershed (HUC 10) Rich Fork of the Elk River Quadrangle Blue Creek

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  *TW*

If so, please describe anticipated pit waste: fresh water, brine, cement returns, bentonite gel

Will a synthetic liner be used in the pit? Yes  No  If so, what ml.? 20

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection ( UIC Permit Number 34-119-28776-, 34-167-23862 )
- Reuse (at API Number \_\_\_\_\_)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Appalachian Water Services, Station W1 Ronco WTP, Masontown, PA - Permit 2608201)

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

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

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

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Additives to be used in drilling medium? \_\_\_\_\_

JAN 13 2021

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) subsoils

WV Department of  
Environmental Protection

-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.

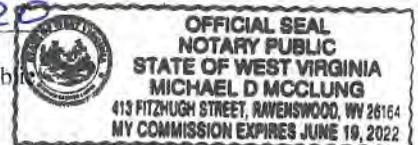
Company Official Signature James E. Amos 12/29/20

Company Official (Typed Name) James E. Amos

Company Official Title Team Leader, Well Engineering & Technology

Subscribed and sworn before me this 29th day of December, 20 20  
Michael D McClung Notary Public

My commission expires June 19, 2022



04/02/2021

Proposed Revegetation Treatment: Acres Disturbed <1.0 Prevegetation pH 6.5

Line 2 Tons/acre or to correct to pH 7

Fertilizer type 10-10-10

Fertilizer amount 600 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

| Temporary         |           | Permanent                               |           |
|-------------------|-----------|---|-----------|
| Seed Type         | lbs/acre  | Seed Type                               | lbs/acre  |
| <u>Annual Rye</u> | <u>40</u> | <u>Orchard Grass and/or Tall Fescue</u> | <u>29</u> |
|                   |           | <u>Birdsfoot trefoil (empire)</u>       | <u>9</u>  |
|                   |           | <u>Annual Rye</u>                       | <u>12</u> |

For wetland areas: Annual Rye (40 lbs/acre) until indigenous plants re-establish cover.

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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Environmental Protection

Title: Inspect Oil & Gas

Date: 12-29-20

Field Reviewed?  Yes  No

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

Operator Name: Columbia Gas Transmission LLC  
Watershed (HUC 10): Rich Fork of the Elk River Quad: Blue Creek  
Farm Name: \_\_\_\_\_

1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

No fertilizer will be stored on site. Small quantities of fuel, oil, and lubrications will be stored on site, but located within secondary containment. Accidental release from well fluids and spills from construction equipment are the only sources of contaminate to groundwater.  
All accumulated fluids to be hauled off site to UIC disposal facility.

2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

All construction equipment will be inspected daily for leaks. Spill kits will be on site.

3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

Rich Creek - 0.20 miles. Rippling Waters Campground (WV9918017) - 13.1 miles.

4. Summarize all activities at your facility that are already regulated for groundwater protection.

N/A

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5. Discuss any existing groundwater quality data for your facility or an adjacent property.

N/A

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

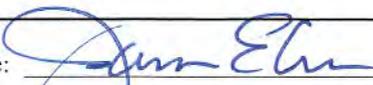
No waste material will be used for deicing or fill material on the property.

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

During routine tailgate meetings, groundwater protection will be a topic of discussion.

8. Provide provisions and frequency for inspections of all GPP elements and equipment.

No fertilizer will be stored on site. Small quantities of fuel, oil, and lubricants will be stored on site, but located within secondary containment. Construction equipment will be inspected daily for leaks or spills.

Signature: 

Date: 12/29/20

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**WV DEP Reclamation Plan - Site Detail**  
**Coco C well 7326 (API 039-01603)**

---

- BMPs and erosion control devices to be utilized per WV DEP guidelines and Columbia's WV Environmental Construction Standards
- Existing drainage, culverts, and road ditches to be maintained
- Minor grading and surface material to be applied as needed

**Limit of Proposed Disturbance on existing well site**

1.5 acres

Coco C - 07326

PIT  
50' x 10' x 4' deep

4703901603

Google Earth

© 2020 Google

200 ft



**WV DEP Reclamation Plan - Site Detail**

**Coco C well 7326 (API 039-01603)**

- BMPs and erosion control devices to be utilized per WV DEP guidelines and Columbia's WV Environmental Construction Standards
- Existing drainage, culverts, and road ditches to be maintained
- Minor grading and surface material to be applied as needed

**Limit of Proposed Disturbance  
on existing well site**

1.5 acres

**Coco C - 07326**

Google Earth

© 2020 Google

200 ft

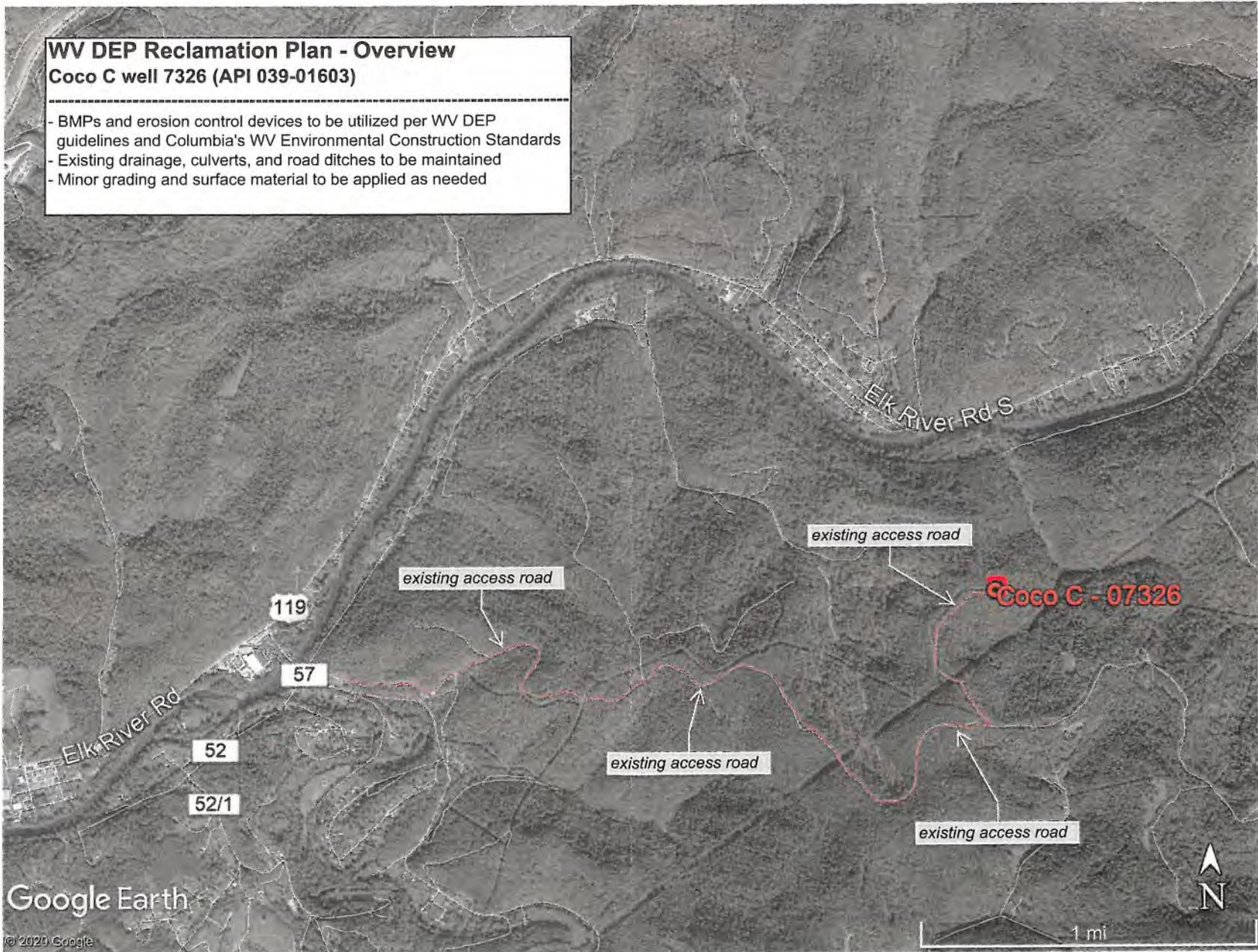


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4703901603P  
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### WV DEP Reclamation Plan - Overview

Coco C well 7326 (API 039-01603)

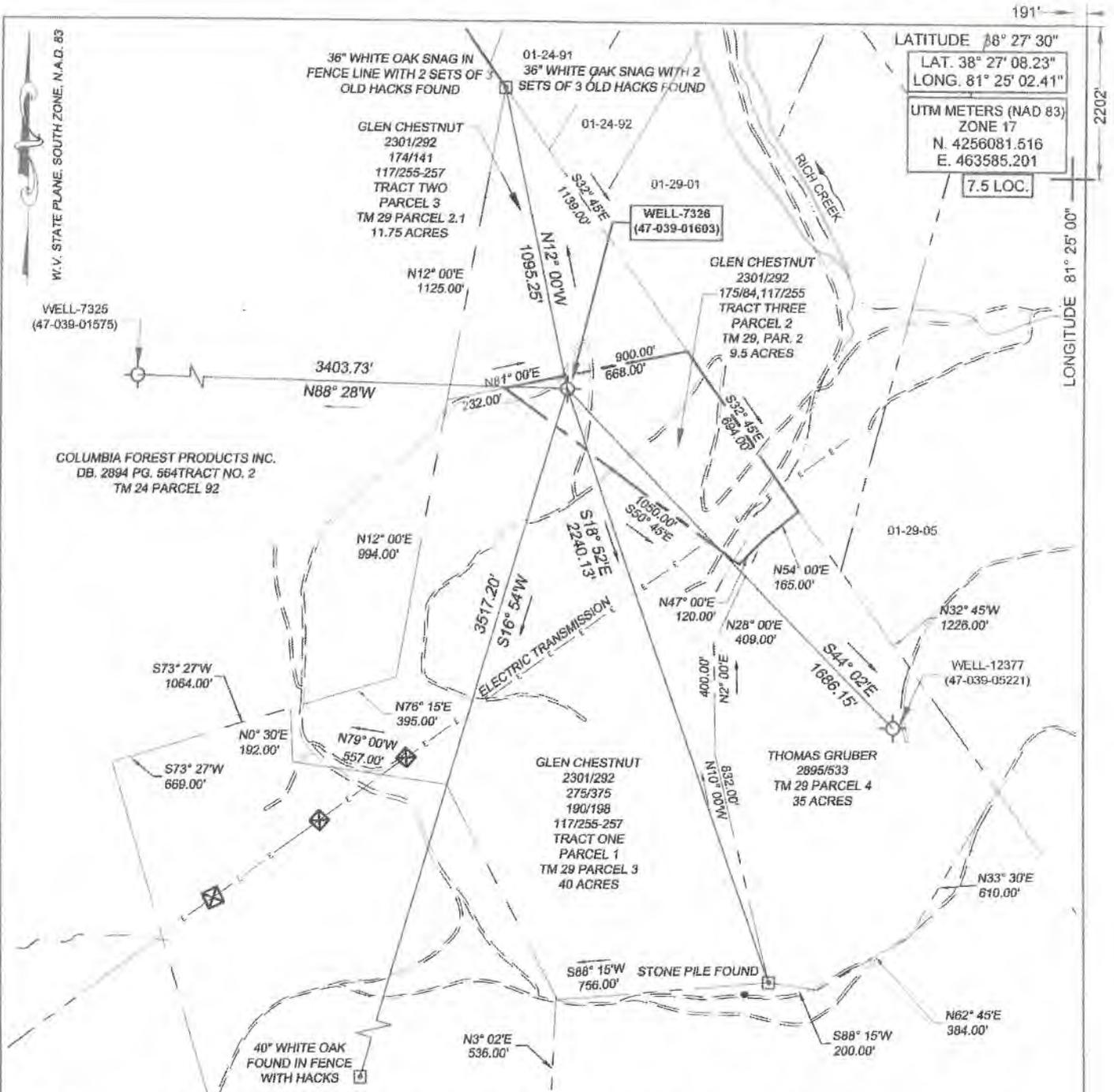
- BMPs and erosion control devices to be utilized per WV DEP guidelines and Columbia's WV Environmental Construction Standards
- Existing drainage, culverts, and road ditches to be maintained
- Minor grading and surface material to be applied as needed



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4703901603P

4703901603P



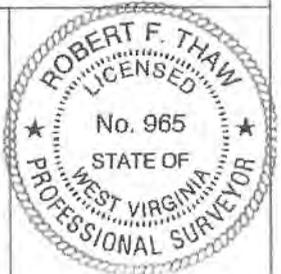
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE No 2001-3079-001-012  
 DRAWING No. 2001-3079-001-012  
 SCALE 1"=500'  
 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) [Signature]  
 ROBERT F. THAW

PS #965



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



DATE NOVEMBER 11 2020  
 OPERATOR'S WELL No. 7326  
 API WELL No. 47 039 - 01603P

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 1052.47' WATER SHED RICH FORK OF THE ELK RIVER  
 DISTRICT BIG SANDY COUNTY KANAWHA  
 QUADRANGLE BLUE CREEK, WV

SURFACE OWNER GLEN D. AND NANCY C. CHESTNUT ACREAGE 9.5  
 OIL & GAS ROYALTY OWNER THREE MILE FORK LAND COMPANY LEASE ACREAGE 64.63  
 LEASE No. 1032593-000

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

04/02/2021

PLUG AND ABANDON  CLEAN OUT AND REPLUG   
 TARGET FORMATION ORISKANY ESTIMATED DEPTH 5513  
 WELL OPERATOR COLUMBIA GAS TRANSMISSION, LLC DESIGNATED AGENT JIM AMOS  
 ADDRESS PO BOX 1273, CHARLESTON, WV 25325-1273 ADDRESS 48 COLUMBIA GAS ROAD SANDYVILLE, WV 25275  
 Office of Oil and Gas

FORM IV-6 (8-78)

JAN 13 2021



(ROMANCE)



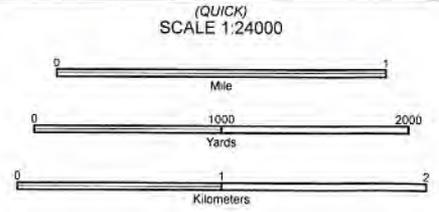
BLUE CREEK QUADRANGLE  
WEST VIRGINIA  
TOPOGRAPHIC SERIES

4703901603 (CLIQ)



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Produced by Trimble Terrain Navigator Pro  
Topography based on USGS 1:24,000 Maps  
North American 1983 Datum (NAD83)  
To place on the predicted North American 1927 move the  
projection lines 11M N and 14M E



CONTOUR INTERVAL 20 FT

38081-D3-TM-024  
BLUE CREEK, WV  
JAN 1, 1977

04/02/2021