



west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Monday, November 17, 2025
WELL WORK PERMIT
Vertical / Fracture

COLUMBIA GAS TRANSMISSION, LLC
1700 MACCORKLE AVENUE SE

CHARLESTON, WV 25314

Re: Permit approval for 7288
47-035-00531-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

H. Jason Harmon
Acting Chief

A handwritten signature in black ink that reads 'Jason Harmon'.

Operator's Well Number:
Farm Name: PACE, EMILY
U.S. WELL NUMBER: 47-035-00531-00-00
Vertical Fracture
Date Issued: 11/17/2025

Promoting a healthy environment.

11/21/2025

PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code §22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
2. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
5. 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.
6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours
7. Well work activities shall not constitute a hazard to the safety of persons.
8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.
9. 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.

11/21/2025

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator: Columbia Gas Transmission, LLC 307032 Jackson Ripley Ripley, WV
Operator ID County District Quadrangle

2) Operator's Well Number: Ripley 7288 3) Elevation: 736.4

4) Well Type: (a) Oil _____ or Gas X _____
(b) If Gas: Production _____ / Underground Storage X _____
Deep X _____ / Shallow _____

5) Proposed Target Formation(s): Oriskany Proposed Target Depth: 4950

6) Proposed Total Depth: 4950 Feet Formation at Proposed Total Depth: Oriskany

7) Approximate fresh water strata depths: 350' reported by driller

8) Approximate salt water depths: 1675' reported by driller

9) Approximate coal seam depths: None reported by driller

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10) Approximate void depths, (coal, Karst, other): None reported by driller

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11) Does land contain coal seams tributary to active mine? No

WV Department of
Environmental Protection

12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed)

Run cased hole logs and open hole log, perforate as per geologist, perform coil tubing cleanout and acid stimulation.

Pending results from CTCO, assess need for, and if needed, perform frac job.

* casing and equipment listed below are existing

13) CASING AND TUBING PROGRAM * existing

| TYPE | SPECIFICATIONS | | | FOOTAGE | INTERVALS | CEMENT |
|--------------|----------------|-------|---------------|--------------|--------------|------------------------------|
| | Size | Grade | Weight per ft | For Drilling | Left in Well | Fill -up (Cu. Ft.) |
| Conductor | | | | | | |
| Fresh Water | 8-5/8 | | 28 | | 2076 | see job plan summary |
| Coal | | | | | | for additional cmt details |
| Intermediate | 7 | | 22 | | 4838 | for the 8-5/8", 7" and 4-12" |
| Production | 4-1/2 | J-55 | 12.6 | | 4950 | casings. Most likely cmt'd |
| Tubing | | | | | | |
| Liners | | | | | | |

Packers: Kind: _____

Sizes: _____

Depths Set _____


11/21/2025

| WELL JOB PLAN | | | | STS Well Engineering & Technology | | | | PAGE 1 | | DATE JOB PREPARED: 4/10/2024 | |
|--|--|--|--------------|---|--------|------------|---------------|--|--|---------------------------------|--|
| Objective: Restore Deliverability | | | | | | | | LAST PROFILE UPDATE: | | | |
| TITLE: log, CTCO, perf, pending log results possible frac | | | | | | | | WORK TYPE: | | | |
| FIELD: Ripley | | | | WELL ID: 7288 | | | | LEASE #: 41777 | | | |
| STATE: WV | | | | SHL (Lat/ Long): 38.853646 | | -81.694489 | | API: 47-035-00531 | | | |
| DIST/TWP: Ripley | | | | BHL (Lat/Long): 38.853646 | | -81.694489 | | CNTY: Jackson | | | |
| EXISTING TUBULAR CONFIGURATION | | OD (inches) | WEIGHT (PPF) | GRADE | THREAD | DEPTH (ft) | | WELLLINE #: X59W7288 | | | |
| | | | | | | TOP | BOTTOM | FORMATION: refer to MISC INFORMATION section | | | |
| Surface | | 13 3/8 | Pulled 1946 | | | | | PAY: | | ELEVATIONS | |
| Intermediate | | 10 3/4 | Pulled 1946 | | | | | TD: 4950 | | TMG: | |
| Intermediate | | 8 5/8 | 28.0 | | | 0 | 2076 | PBTD: | | KB-RF: | |
| Intermediate | | 7 | 22.0 | | | 0 | 4838 | KB-GL: | | GL: | |
| Production | | 4.5 Csg | 12.6 | J-55 | hydril | 0 | 4915 | CSG | | DEPTH | |
| Intermediate | | 6.40 | Packer * | | | 4915 | 4920 | | | WELLBORE SCHEMATIC | |
| Production | | 4.5 Slotted | 12.6 | J-55 | hydril | 4920 | 4950 | | | Refer to "Wellbore Diagram" tab | |
| * wall and anchor packer - depth questionable | | | | | | | | | | | |
| Perforations | | None reported | | | | | | | | | |
| Wellhead | | API 5k, 4-1/2" flowstring x 7" support, 4-1/2" 8rd wellhead connection | | | | | | | | | |
| D.H. EQUIPMENT | | | | TYPE | | | | DEPTH (ft) | | | |
| PACKER INFO: | | | | Upper | | | | | | | |
| | | | | Lower | | | | | | | |
| NIPPLE PROFILE INFO: | | | | Upper | | | | | | | |
| | | | | Lower | | | | | | | |
| SSSV INFO: | | | | | | | | | | | |
| CEMENT INFO | | | | | | | Calc TOC (ft) | | | | |
| 8 5/8 | | No record of cement, but 1954 work order indicates scope to include "cement between all strings of casing and 4-1/2" to surface". | | | | | | | | | |
| 7 | | | | | | | | | | | |
| 4 1/2 | | Most likely cemented even though is no record of cement - note that a 1954 work order indicates scope to include "cement between all strings of casing and 4-1/2" to surface". | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| MISC INFORMATION | | | | | | | | | | | |
| REFER TO WELL SUMMARY RPT, WELLBORE DIAGRAM, ELOG, ETC. (see spreadsheet tabs below) | | | | | | | | | | (see) | |
| <div style="display: flex; justify-content: space-between;"> <div> <p>Kill Fluid Calculation</p> <p>Maximum calculated bottom-hole pressure (for reference only): 1922 psig * input</p> <p>Maximum storage field surface pressure (MAOP): 1675 psig * input</p> <p>Well TD: 4950 ft TVD * input</p> <p>Top of storage zone: 4934 ft TVD * input</p> <p>Calculated maximum BH pressure at top of zone: 1902 psig * output Kill Fluid (TOZ)</p> <p>Kill fluid density at top of zone @: 150 psi OB 8.00 ppg * output Kill Fluid (TOZ)</p> <p>Proposed depth of BP (n/a): 4934 ft TVD * input</p> <p>Calculated maximum BH pressure at depth of BP: 1902 psig * output Kill Fluid (BP)</p> <p>Kill fluid density at depth of BP @: 150 psi OB 8.00 ppg * output Kill Fluid (BP)</p> <p>Required minimum kill fluid density: 8.0 ppg * greater of the two</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>Current AOF: 21,682 MCF/D</p> <p>Top historical AOF: 47,081 MCF/D</p> <p>Last MVRT: Baker 05/10/2001 HRVRT shows no corrosion greater than 20% detected in this survey.</p> <p>SBT: Baker 05/10/2001 shows partial quality from 4926 to top logged 3600.</p> </div> </div> | | | | | | | | | | | |
| PROPOSED YEAR: 2026 | | | | ERCB PERMIT REQD: YES _____ NO <u>X</u> _____ | | | | (Internal) PDS Required: YES _____ NO _____ | | | |
| PREPARED BY: Maria Medvedeva | | | | REVIEWED BY: James Amos | | | | APPROVED: Brent Criser | | | |
| PREP DATE: 4/10/2024 | | | | | | | | | | | |

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[Signature]
10-10-25

11/21/2025

| | | | | | |
|---|-----------------|--|------------|------------------------|------------------------------|
| WELL JOB PLAN | | STS Well Engineering & Technology | | PAGE 2 | DATE JOB PREPARED: 4/10/2024 |
| Objective: Restore Deliverability | | | | LAST PROFILE UPDATE: | |
| TITLE: log, CTO, perf, pending log results possible frac | | | | WORK TYPE: 0 | |
| FIELD: Ripley | WELL: 7288 | | | | |
| STAT: WV | SHL (Lat/Long): | 38.853646 | -81.694489 | API: 47-035-00531 | |
| TWP: Ripley | BHL (Lat/Long): | 38.853646 | -81.694489 | CNTY: Jackson | |
| PROCEDURE | | | | | |
| <p>NOTE: Well is performing at about half of what it was in 2002 - 2016, small reduction in the 2020's. 2001 frac was successful to improve well deliverability (500 gallons 28% acid, sand - 267.3 sks, water - 433 bbls, nitrogen - 145,364 scf).</p> | | | | | |
| <ol style="list-style-type: none"> 1 Obtain State well work permit, 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 Reservoir Engineering & Geosciences (REG) of intent to take well out of service. 5 Notify environmental inspector prior to beginning work. If required, notify State/Federal regulatory agencies prior to beginning work. 6 Disconnect well line. 7 Prepare access road and well site. Install ECD's per EM&CP. 8 Service all wellhead valves. 9 Document and report to WE&T the initial casing and annular pressures. 10 MIRU Baker Atlas Logging. Run guage ring, open-hole logs (GR-N-DENSITY and RESISTIVITY), HRVRT casing and Intex CBL logs. RD loggers. <i>Request 1-day turnaround on HRVRT analysis. Condition of 4-1/2" casing will determine next steps. Consult with WE&T engineer before proceeding.</i> 11 Spot 1.75" CTU equipment (don't RU the injector). 12 Pump 500 gals 15% HCl acid and 40 bbls TFW down 4-1/2" csg. 13 RIH with perf gun (90 degree phasing, 4 spf) and re-perforate 4-1/2" across Oriskany based on REG recommendations. 14 RDMO loggers. 15 RU CTU. Obtain stabilized pre-cleanout rate through 3/4" choke. 16 RI with jetting tool. At 4950' begin flowing well and jet to TD with foamed 15% HCl acid with mutual solvent (must be compatible with HCl acid to avoid emulsions or damaging by-products) and jet across storage perms / interval until 1000 gals acid gone. Pull up into casing and flow well until relatively dry. RBIH to TD and spot 500 gals 15% HCl acid with mutual solvent. Pull up to 4500' and load wellbore above acid with TFW. Allow to soak for 60 minutes. Displace acid into formation with 1000 gals TFW. Unload wellbore with nitrogen to re-establish gas flow. 17 Flow well to dry and POOH. 18 RDMO CTU. 19 Optional: fracture stimulate based on REG recommendations and confirmed 4-1/2" casing condition from new HRVRT and CBL logs. <i>Hydraulic isolation between bottom of 7" csg and 4-1/2" packer is suspect based on existing Bond Attenuation Log.</i> 20 Reconnect well line. 21 Notify WET Project Support that well is back in-service. 22 Reclaim R&L. 23 Commission well by completing, processing, and retain for records the Wellsite Review and Turnover Form. 24 Notify REG that well is ready for storage service. | | | | | |
| <p>All freshwater based fluids to be treated with biocide and clay stabilizer. All acids to be treated with corrosion inhibitor and iron control.</p> | | | | | |
| <div style="text-align: center;">  10-10-25 </div> <div style="text-align: center; margin-top: 10px;"> RECEIVED Office of Oil and Gas NOV 05 2025 WV Department of Environmental Protection </div> | | | | | |
| PREPARED BY: Maria Medvedeva | | REVIEWED BY: James Amos | | APPROVED: Brent Criser | |
| PREP DATE: 4/10/2024 | | | | | |

11/21/2025

Last Updated: 2/13/2024 12:02 PM



| | | | | |
|------------------------|-------------|----------------|----------------|--------------------|
| Field Name | | Lease Name | | Well No. |
| Ripley | | Ripley - 07288 | | 07288 |
| County | | State | | API No. |
| Jackson | | WV | | 47035005310000 |
| Version | Version Tag | | | |
| 0 Current Completion | | | | |
| G.L. (ft) | K.B. (ft) | Sec. | Township/Block | Range/Survey |
| 4,950.0 | | 58-93 | Ripley | 031207288 |
| Operator | | Well Status | Latitude | Longitude |
| TransCanada | | ACTIVE | 38.8536 | -81.6945 |
| Dist. N/S (ft) | N/S Line | Dist. E/W (ft) | E/W Line | Footage From |
| | | | | |
| PropNum | | | Spud Date | Comp. Date |
| Robert S. Starcher | | | 12/1/1946 | |
| Additional Information | | | | |
| | | | | |
| Other1 | Other2 | | Other3 | Other4 |
| Ripley | 0312 | | 031207288 | |
| Prepared By | | Updated By | | Last Updated |
| | | | | 2/13/2024 12:02 PM |

Hole Summary

| Date | O.D. (in) | Top (MD ft) | Bottom (MD ft) | Comments |
|------------|-----------|-------------|----------------|----------|
| 12/9/1946 | 10.625 | 0 | 2,076 | |
| 12/11/1946 | 8.750 | 0 | 4,838 | |
| 5/3/1954 | 6.250 | 0 | 4,915 | |

Tubular Summary

| Date | Description | O.D. (in) | Wt (lb/ft) | Grade | Top (MD ft) | Bottom (MD ft) |
|------------|--------------|-----------|------------|-------|-------------|----------------|
| 12/9/1946 | Surface Pipe | 8.625 | 28.00 | | 0 | 2,076 |
| 12/11/1946 | Casing | 7.000 | 22.00 | | 0 | 4,838 |
| 5/3/1954 | Casing | 4.500 | 12.60 | J-55 | 0 | 4,915 |

Casing Cement Summary

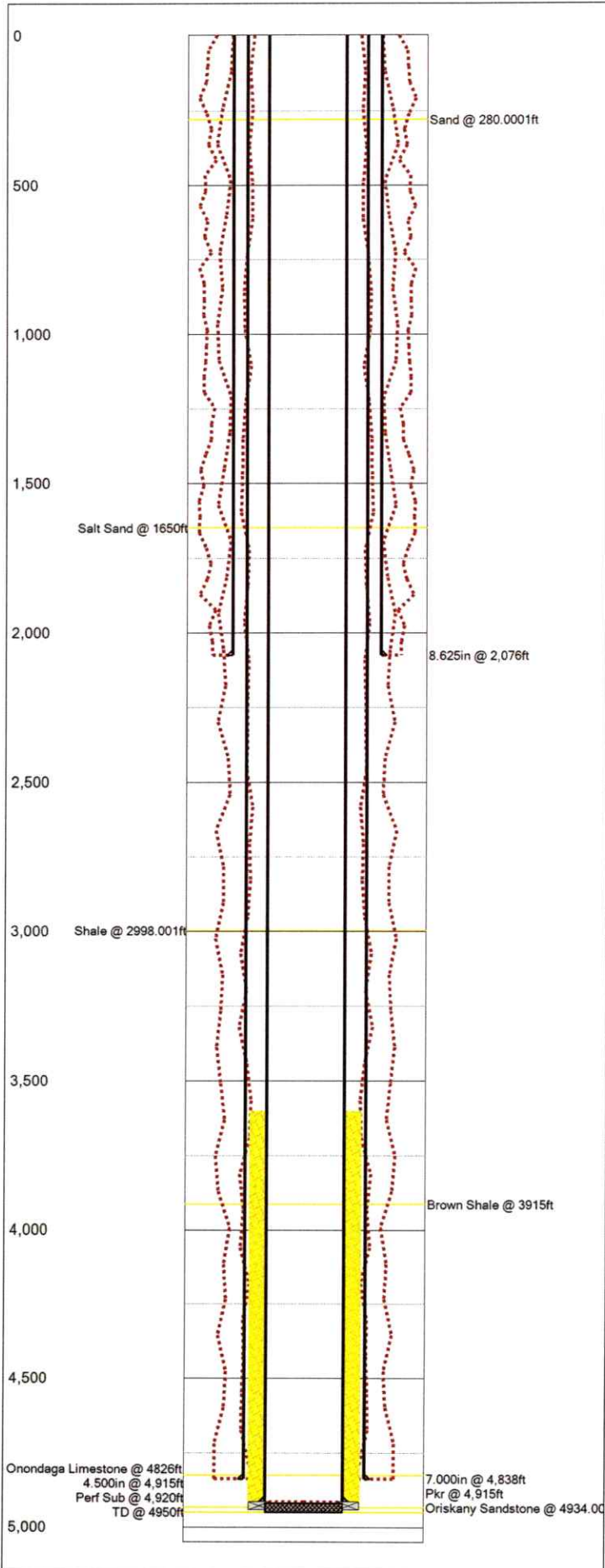
| C | Date | No. Sx | Csg. O.D. (in) | Top (MD ft) | Bottom (MD ft) | Comments |
|---|-----------|--------|----------------|-------------|----------------|-----------------|
| | 5/10/2001 | 0 | 4.500 | 3,600 | 4,926 | Partial Quality |

Tools/Problems Summary

| Date | Tool Type | O.D. (in) | I.D. (in) | Top (MD ft) | Bottom (MD ft) |
|----------|-----------|-----------|-----------|-------------|----------------|
| 5/3/1954 | Pkr | 6.400 | 4.000 | 4,915 | 4,920 |
| 5/3/1954 | Perf Sub | 4.500 | 3.500 | 4,920 | 4,950 |

Formation Tops Summary

| Formation | Top (TVD ft) | Comments |
|--------------------|--------------|--------------------------------------|
| Sand | 280 | Comments: hole full of water 330 |
| Salt Sand | 1,650 | Comments: hole full of water at 1675 |
| Shale | 2,998 | Comments: gas show |
| Brown Shale | 3,915 | Comments: gas show at 3915-3520 |
| Onondaga Limestone | 4,826 | |
| Oriskany Sandstone | 4,934 | |
| TD | 4,950 | |



United Fuel Gas Co.
COMPANY

7288

SERIAL WELL NO. 5782

LEASE NO. 41776 & 41777

MAP SQUARE 58-93

| | | | | | | | |
|--|--|---------------------------------------|---------------|------------------|-----------------|-----------------------------------|--|
| RECORD OF WELL NO. <u>5782</u> on the | | CASING AND TUBING | | | | TEST BEFORE SHOT | |
| F. F. Starcher et al farm of <u>223</u> Acres | | SIZE | WEIGHT | USED IN DRILLING | LEFT IN WELL | 34/10 of Water in <u>22#-7</u> in | |
| in <u>Ripley</u> District | | <u>13-3/8"</u> | <u>54.5#</u> | <u>661'4"</u> | <u>None</u> | 20/10 of Merc. in <u>22#-7</u> in | |
| <u>Jackson</u> County | | <u>10-3/4"</u> | <u>32.75#</u> | <u>1041'1"</u> | <u>None</u> | Volume <u>7,117,000</u> Cu. | |
| State of: <u>West Virginia</u> | | <u>8-5/8"</u> | <u>28#</u> | <u>2084'8"</u> | <u>2084'8"</u> | TEST AFTER SHOT | |
| Field: <u>Glend-Sissonville</u> | | <u>7"</u> | <u>22#</u> | <u>4869'1"</u> | <u>4869'1"</u> | /10 of Water in _____ in | |
| Rig Commenced <u>194</u> | | <u>2"</u> | <u>4#</u> | | <u>4964'10"</u> | /10 of Merc. in _____ in | |
| Rig Completed <u>194</u> | | | | | | Volume _____ Cu. | |
| Drilling Commenced <u>August 2</u> <u>1946</u> | | | | | | _____ Hours After Sh | |
| Drilling Completed <u>December 3</u> <u>1946</u> | | | | | | Rock Pressure <u>1050</u> | |
| Drilling to cost _____ per foot | | | | | | Date Shot _____ | |
| Contractor is: <u>Mays Drilling Co.</u> | | | | | | Size of Torpedo _____ | |
| Address: <u>Kenna, W.Va.</u> | | SHUT IN | | | | Oil Flowed _____ bbls. 1st 24 hr | |
| | | Date <u>Dec. 3, 1946</u> | | | | Oil Pumped _____ bbls. 1st 24 hr | |
| Driller's Name <u>Carl Nichols</u> | | Tubing or _____ | | | | | |
| <u>Don Sycoo</u> | | Size of Packer <u>None</u> | | | | Well abandoned and | |
| | | Kind of Packer _____ | | | | Plugged _____ 194 | |
| | | 1st. Perf. Set <u>4937</u> from _____ | | | | | |
| Elevation: <u>738.02 Gr.</u> | | 2nd Perf. Set _____ from _____ | | | | | |

DRILLER'S RECORD

| FORMATION | TOP | BOTTOM | THICKNESS | REMARKS |
|------------|-----|--------|-----------|---------------------|
| Soil | 0 | 10 | 10 | |
| Clay | 10 | 30 | 20 | |
| Red Rock | 30 | 50 | 20 | |
| Blue Mud | 50 | 70 | 20 | |
| Red Rock | 70 | 95 | 25 | |
| Blue Mud | 95 | 120 | 25 | |
| White Sand | 120 | 145 | 25 | |
| Red Rock | 145 | 180 | 35 | |
| Blue Mud | 180 | 280 | 100 | |
| Sand | 280 | 335 | 55 | Hole full water 330 |
| Slate | 335 | 340 | 5 | |
| Red Rock | 340 | 370 | 30 | |
| Slate | 370 | 438 | 68 | |
| Red Rock | 438 | 460 | 22 | |
| Slate | 460 | 490 | 30 | |
| Red Rock | 490 | 525 | 35 | |
| Blue Slate | 525 | 570 | 45 | |

11/21/2025

SERIAL WELL NO. 7288
582

LEASE NO. 41776 & 41777

7288
MAP SQUARE 58-93

DRILLER'S RECORD

| FORMATION | TOP | BOTTOM | THICKNESS | REMARKS |
|----------------|------|--------|-----------|----------------------|
| Pittsburg Sand | 570 | 610 | 40 | |
| Black Slate | 610 | 650 | 40 | |
| Black Lime | 650 | 658 | 8 | |
| Slate | 658 | 740 | 82 | |
| Pink Rock | 740 | 760 | 20 | |
| Slate & Shells | 760 | 785 | 25 | |
| Red Rock | 785 | 790 | 5 | |
| Gray Lime | 790 | 820 | 30 | |
| Slate | 820 | 830 | 10 | |
| Red Rock | 830 | 865 | 35 | |
| Slate | 865 | 930 | 65 | |
| Red Rock | 930 | 985 | 55 | |
| Slate | 985 | 1025 | 40 | |
| Gray Lime | 1025 | 1034 | 9 | |
| White Slate | 1034 | 1080 | 46 | |
| White Sand | 1080 | 1095 | 15 | |
| Blue Lime | 1095 | 1105 | 10 | |
| White Slate | 1105 | 1115 | 10 | |
| Pink Rock | 1115 | 1125 | 10 | |
| Sand | 1125 | 1160 | 35 | |
| Slate & Shells | 1160 | 1215 | 55 | |
| Sand | 1215 | 1225 | 10 | |
| Slate | 1225 | 1280 | 55 | |
| Sand | 1280 | 1295 | 15 | |
| Black Slate | 1295 | 1330 | 35 | |
| White Sand | 1330 | 1375 | 45 | |
| Black Slate | 1375 | 1390 | 15 | |
| Gray Lime | 1390 | 1405 | 15 | |
| Black Slate | 1405 | 1440 | 35 | |
| Gray Lime | 1440 | 1450 | 10 | |
| Slate & Shells | 1450 | 1650 | 200 | |
| Salt Sand | 1650 | 1770 | 120 | Hole full water 1675 |
| Slate | 1770 | 1772 | 2 | |
| Little Lime | 1772 | 1790 | 18 | |
| Slate | 1790 | 1800 | 10 | |
| Pencil Cave | 1800 | 1802 | 2 | |
| Big Lime | 1802 | 1875 | 73 | |

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Office of Oil and Gas

NOV 05 2005

WV Department of
Environmental Protection

Handwritten signature/initials

11/21/2025

7288

SERIAL WELL NO. ~~5782~~ 7288

LEASE NO. 41776 & 41777

MAP SQUARE 58-93

DRILLER'S RECORD

[illegible]

Completion or
Recundition

O.F.-Mcf

(a)PSIG

Field RIPLEY

Well No. 7288

~~See/Lot/M.S. 58-93~~

Twp/Dist. RIPLEY

County JACKSON

State WA

Farm Name F.F. STARCHER ET AL

Lease No. 41777 Acreage 223 Elev. 738.02

Sketch Horizontal (1 Block = 1 inch)

Casing & Tubing:

| <u>Year</u> | <u>Size</u> | <u>Wt.</u> | <u>Ft.</u> | <u>Cement & Remarks</u> |
|-------------|------------------------------------|--------------|-------------|-----------------------------|
| <u>46</u> | <u>13³/₈</u> | <u>54.57</u> | <u>654</u> | |
| <u>46</u> | <u>10³/₄</u> | <u>32-75</u> | <u>1032</u> | |
| <u>46</u> | <u>8</u> | <u>28</u> | <u>2076</u> | |
| <u>46</u> | <u>7</u> | <u>22</u> | <u>4830</u> | |
| <u>54</u> | <u>4¹/₂</u> | <u>12.6</u> | <u>4978</u> | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | <u>4950</u> | <u>T.D (Sum)</u> |

Perforations & Remarks:

Completion:

| <u>Natural</u> | ✓ Shot. | Acidized |
|----------------|---------|----------|
|----------------|---------|----------|

Fractured

Date & Detail

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Office of Oil and Gas

NOV 05 2025

WV Department of
Environmental Protection

Plug Back & D. D.

Logs: (Type, Date & Detail)

NONE

MAY 1978
11/21/2025

WW-2A
(Rev. 6-14)

1). Date: 10/28/25
2.) Operator's Well Number Ripley 7288
State County Permit
47- 035 - 00531
3.) API Well No.:

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:
(a) Name Linford and Janice
Address Swartzentruber
3 Blankenship Drive
(b) Name Ripley, WV 25271
Address _____
(c) Name _____
Address _____
6) Inspector Joe Taylor
Address 122 Bath Rd
Charleston WV 25312
Telephone 304-380-7469
5) (a) Coal Operator
Name Not operated
Address _____
(b) Coal Owner(s) with Declaration
Name Not operated
Address _____
(c) Coal Lessee with Declaration
Name Not operated
Address _____

TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:

Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas

OR

☒ Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through _____ on the above named parties by:

_____ Personal Service (Affidavit attached)

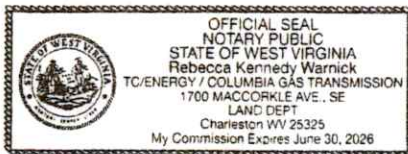
☒ _____ Certified Mail (Postmarked postal receipt attached)

_____ Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application.

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, 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 and imprisonment.



Well Operator Columbia Gas Transmission, LLC
By: Maria Medvedeva
Its: Senior Wells Engineer Storage Technical Services
Address: 1700 MacCorkle Ave SE
Charleston WV 25314-1273
Telephone: 304-410-4313
Email: maria_medvedeva@tcenergy.com

Subscribed and sworn before me this 28th day of October, 2025

My Commission Expires 6/30/26

Oil and Gas Privacy Notice

Notary Public

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

11/21/2025

SURFACE OWNER WAIVER

County Jackson

Operator _____

Columbia Gas Transmission LLC

Operator well number _____

Ripley 7288

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A

The well operator named on page WW2A is applying for a permit from the State to do oil or gas well work. (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:

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

RECEIVED
Office of Oil and Gas

NOV 05 2025

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 **FIFTEEN (15) 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.

List of Water Testing Laboratories. The Office maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Chief to obtain a copy.

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 Well Work Permit on Form WW2-A, and attachments consisting of pages 1 through ____ including a work order on Form WW2-B, a survey plat, WW-9, and a soil and erosion plan, all for proposed well work on my surface land as described therein.

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

FOR EXECUTION BY A CORPORATION, ETC.

Signature

Date _____

Company

Name _____

By _____

Its _____

Date _____

Print Name

Signature

Date

11/21/2025

Columbia Gas Transmission, LLC

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



2025, October 29

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WV Department of
Environmental Protection

Linford and Janice Swartzentruber
3 Blakenship Drive
Ripley, WV 25271

Columbia Gas Transmission, LLC is applying for a permit to the WV Department of Environmental Protection – Office of Oil and Gas, to workover an existing underground natural gas storage well located on property owned by you. As reference, the field and well ID is Ripley 7288 (API 47-035-00531).

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,

Maria Medvedeva
Senior Wells Engineer
Well Engineering & Technology
Columbia Gas Transmission, LLC

7022 2410 0002 6396 3263

| U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only | |
|--|------------------|
| For delivery information, visit our website at www.usps.com ®. | |
| RIPLEY WV 25271 OFFICIAL USE | |
| Certified Mail Fee | \$5.30 |
| Extra Services & Fees (check box, add fee as appropriate) | |
| <input type="checkbox"/> Return Receipt (hardcopy) | \$0.00 |
| <input type="checkbox"/> Return Receipt (electronic) | \$0.00 |
| <input type="checkbox"/> Certified Mail Restricted Delivery | \$0.00 |
| <input type="checkbox"/> Adult Signature Required | \$0.00 |
| <input type="checkbox"/> Adult Signature Restricted Delivery | \$0.00 |
| Postage | \$11.90 |
| Total Postage and Fees | \$21.60 |
| Sent To | Linford & Janice |
| Street and Apt. No., or PO Box No. | |
| City, State, ZIP+4® | R4 7288 |
| PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions | |

0726
KANAHA CITY STATION
Postmark Here
OCT 29 2025
CHARLESTON, WV 25304

SURFACE OWNER WAIVER

County Jackson

Operator

Columbia Gas Transmission LLC

Operator well number

Ripley 7288

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NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION

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

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Office of Oil and Gas

NOV 05 2025

WV Department of
Environmental Protection

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 **FIFTEEN (15) 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:

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- 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.

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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

FOR EXECUTION BY A CORPORATION, ETC.

Linford Swartzentruber Date Nov 4, 2025

Company
Name
By
Its

Linford Swartzentruber

Print Name

Date

11/21/2025

WW-2A Coal Waiver

COAL OPERATOR, OWNER, OR LESSEE WAIVER

* coal not operated

County Jackson

Operator Columbia Gas Transmission LLC

Operator's Well Number Ripley 7288

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

To the coal operator, owner, or lessee named on page WW2-A. You are hereby notified that any objection you wish to make or are required to make by WV Code 22-6-15, 16 or 17, must be filed with the Chief of the Office of Oil and Gas within fifteen (15) days after the receipt of this application by the Office. Mail objections to:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0499 extension 1654

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Office of Oil and Gas

NOV 05 2025

WV Department of
Environmental Protection

WAIVER

The undersigned coal operator _____ / owner _____ / lessee _____ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of well location, the well location has been added to the mine map. 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.

FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

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

11/21/2025

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6, Section 8(d)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

| Grantor, Lessor, etc. | Grantee, Lessee, etc. | Royalty | Book/Page |
|-------------------------------------|-------------------------|--------------|-----------|
| Robert S. Starcher & Agnes Starcher | United Fuel Gas Company | LEASE #41777 | 83 - 98 |

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WV Department of
Environmental Protection

**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources
- WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator:
By: Its:

Columbia Gas Transmission, LLC
Maria Medvedeva
Senior Wells Engineer Storage Technical Services

11/21/2025

WV-2B1
(5-12)

Well No. Ripley 7288

West Virginia Department of Environmental Protection
Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

Certified Laboratory Name _____
Sampling Contractor _____

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NOV 05 2015

Well Operator _____
Address _____

Not applicable - existing underground natural gas storage well

WV Department of
Environmental Protection

Telephone _____

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

11/21/2025

WW-9
(5/16)

API Number 47 - 035 - 00531
Operator's Well No. Ripley 7288

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

Operator Name Columbia Gas Transmission, LLC OP Code 307032

Watershed (HUC 10) Left Fork of Sycamore Creek Quadrangle Ripley WV

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: N/A

Will a synthetic liner be used in the pit? Yes ☐ No ☒ If so, what ml.? N/A

Proposed Disposal Method For Treated Pit Wastes:

- ☐ Land Application (if selected provide a completed form WW-9-GPP)
- ☒ Underground Injection (UIC Permit Number 34-167-23862)
- ☐ Reuse (at API Number _____)
- ☐ Off Site Disposal (Supply form WW-9 for disposal location)
- ☒ Other (Explain Mud Master 64054; Reserve Environmental Services (WMGR 123SW008)
Appalachian Water Services (WMGR 123SW001))

Will closed loop system be used? If so, describe: yes - steel flow line to tanks

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Fresh water

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

Additives to be used in drilling medium? NaCl, biocide, soda ash, polymer, starch, CaCO₃, HCl acid

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) N/A

-Landfill or offsite name/permit number? To be managed by Waste Management and US Ecology for disposal at permitted landfill

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 *Maria Medvedeva*

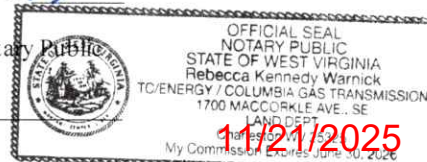
Company Official (Typed Name) Maria Medvedeva

Company Official Title Senior Wells Engineer Storage Technical Services

Subscribed and sworn before me this 14th day of October, 2025

My commission expires 6/30/24

Notary Public



Proposed Revegetation Treatment: Acres Disturbed < 1.0 Prevegetation pH 6-7Lime 2 Tons/acre or to correct to pH 7-8Fertilizer type 10-10-10Fertilizer amount 600 lbs/acreMulch hay or straw @ 2 Tons/acreSeed Mixtures

| Temporary | | Permanent | |
|------------|----------|----------------------------------|----------|
| Seed Type | lbs/acre | Seed Type | lbs/acre |
| Annual rye | 40 | Orchard Grass and/or Tall Fescue | 29 |
| | | Birdsfoot Trefoil (Empire) | 9 |
| | | Annual Rye | 12 |

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: _____

Comments: _____

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NOV 05 2025

WV Department of
Environmental ProtectionTitle: OOG Inspector Date: 10-10-25Field Reviewed? () Yes (☒) No

11/21/2025

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): Left Fork of Sycamore Creek Quad: Ripley, WV
Farm Name: Robert S. Starcher

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

No fluids planned to be discharged. No fertilizer will be stored on site. Fuel, oil, and lubricants will be stored on site, but located within secondary containment. Accidental spills from construction equipment, well treatment fluids, and produced well fluids are the only possible source of contamination to groundwater. Drilling and flowback fluids to be stored in tanks. 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 and well servicing equipment will be monitored and inspected daily for leaks. Tanks to be monitored daily for leaks. Spill kits will be on site.

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Environmental Protection

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

Left Fork of Sycamore Creek is at a distance of 0.68 miles SW.

The ROANE-JACKSON TECHNICAL CENTER WV9918002 is the closest Well Head Protection Area at a distance of 7.12 miles SE from discharge area.

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

N/A

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

11/21/2025

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 and JSA meetings groundwater protection will be a topic of discussion.

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NOV 05 2025
WV Department of
Environmental Protection

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

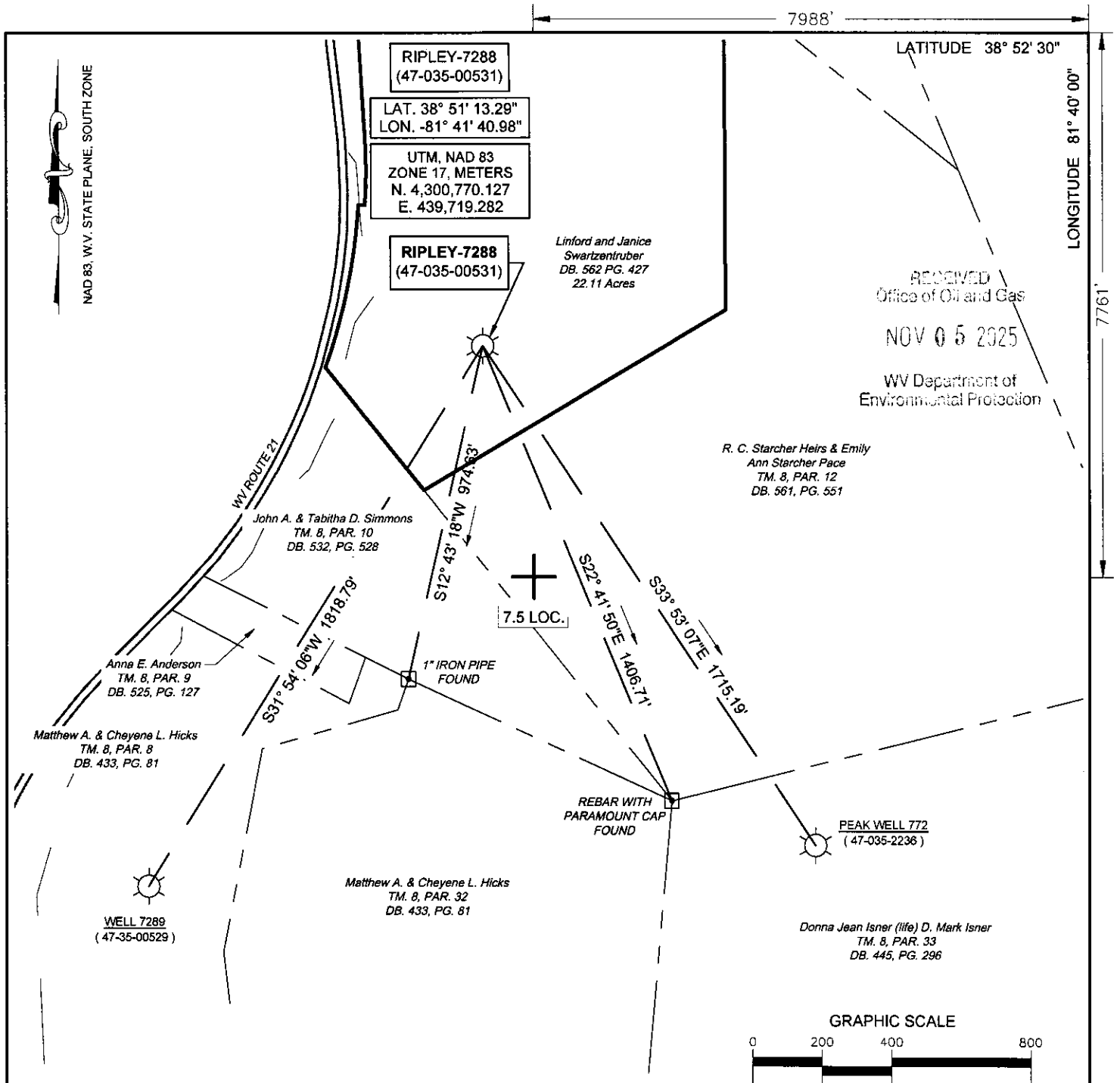
No fertilizer will be stored on site. Fuel, oil, and lubricants will be stored on site, but located within secondary containment. Spills from construction equipment, well treatment fluids, and produced well fluids are the only possible source of contamination to groundwater.

All construction and well servicing equipment will be monitored and inspected daily for leaks or spills.

Signature: _____

Date: _____

11/21/2025



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

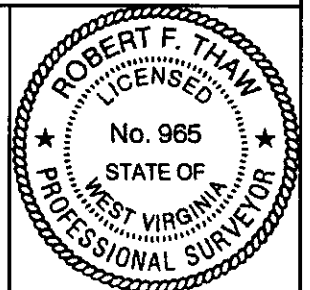
FILE No 2501-3079-001-005
DRAWING No. RIPLEY 7288
SCALE 1" = 400'
MINIMUM DEGREE OF
ACCURACY 1:200
PROVEN SOURCE OF
ELEVATION TRIMBLE R10
GPS UNIT

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 REGU-
LATIONS ISSUED AND PRESCRIBED BY THE
DIVISION OF ENVIRONMENTAL PROTECTION.

(SIGNED)

ROBERT F. THAW

PS #965



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



DATE OCTOBER 28 2025
OPERATOR'S WELL No. 7288
API WELL No.

47 035 — 00531

STATE COUNTY PERMIT

WELL TYPE: OIL ☐ GAS ☒ LIQUID INJECTION ☐ WASTE DISPOSAL ☐
(IF "GAS") PRODUCTION ☐ STORAGE ☒ DEEP ☒ SHALLOW ☐

LOCATION: ELEVATION 736.4' WATER SHED LEFT FORK OF SYCAMORE CREEK
DISTRICT RIPLEY COUNTY JACKSON
QUADRANGLE RIPLEY, WV

SURFACE OWNER LINFORD AND JANICE SWARTZENTRUBER ACREAGE 22.11

OIL & GAS ROYALTY OWNER ROBERT S. & AGNES STARCHER

LEASE ACREAGE 223 LEASE NO. ROBERT S. STARCHER LEASE

PROPOSED WORK: DRILL ☐ CONVERT ☐ DRILL DEEPER ☐ REDRILL ☐ FRACTURE ☐ 11/21/2025
STIMULATE ☒ PLUG OFF OLD FORMATION ☐ PERFORATE NEW FORMATION ☐
OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG ☐

TARGET FORMATION ORISKANY ESTIMATED DEPTH 4950

WELL OPERATOR COLUMBIA GAS TRANSMISSION, LLC

DESIGNATED AGENT MARIA MEDVEDEVA

ADDRESS PO BOX 1273, CHARLESTON, WV
25325-1273

ADDRESS 1700 MACCORKLE AVE., S.E.
CHARLESTON, WV 25314

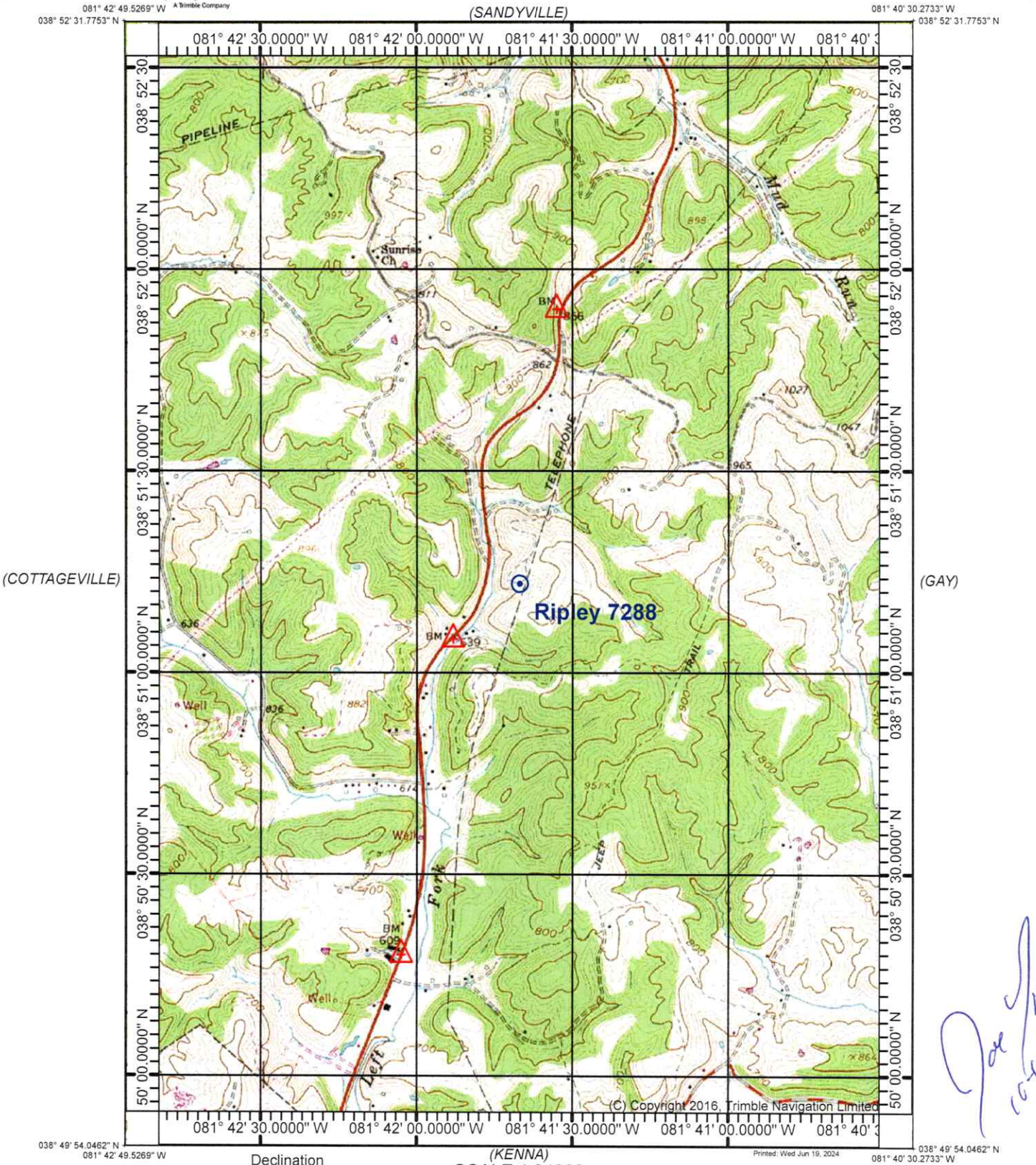
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Office of Oil and Gas

NOV 05 2025

WV Department of
Environmental Protection

(RAVENSWOOD) mytopo
081° 42' 49.5269" W A Trimble Company
038° 52' 31.7753" N

RIPLEY QUADRANGLE
WEST VIRGINIA
TOPOGRAPHIC SERIES (LIVERPOOL)



Joe Smith
10-10-25

(ELMWOOD)

Produced by Trimble Terrain Navigator Pro
Topography based on USGS 1:24,000
Maps

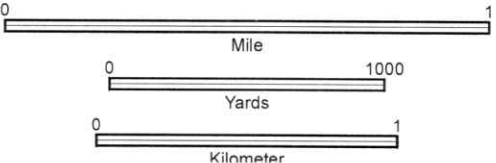
North American 1983 Datum (NAD83)

To place on the predicted North American
1927 move the projection lines 9M N and
13M E

Declination



(KENNA)
SCALE 1:24000



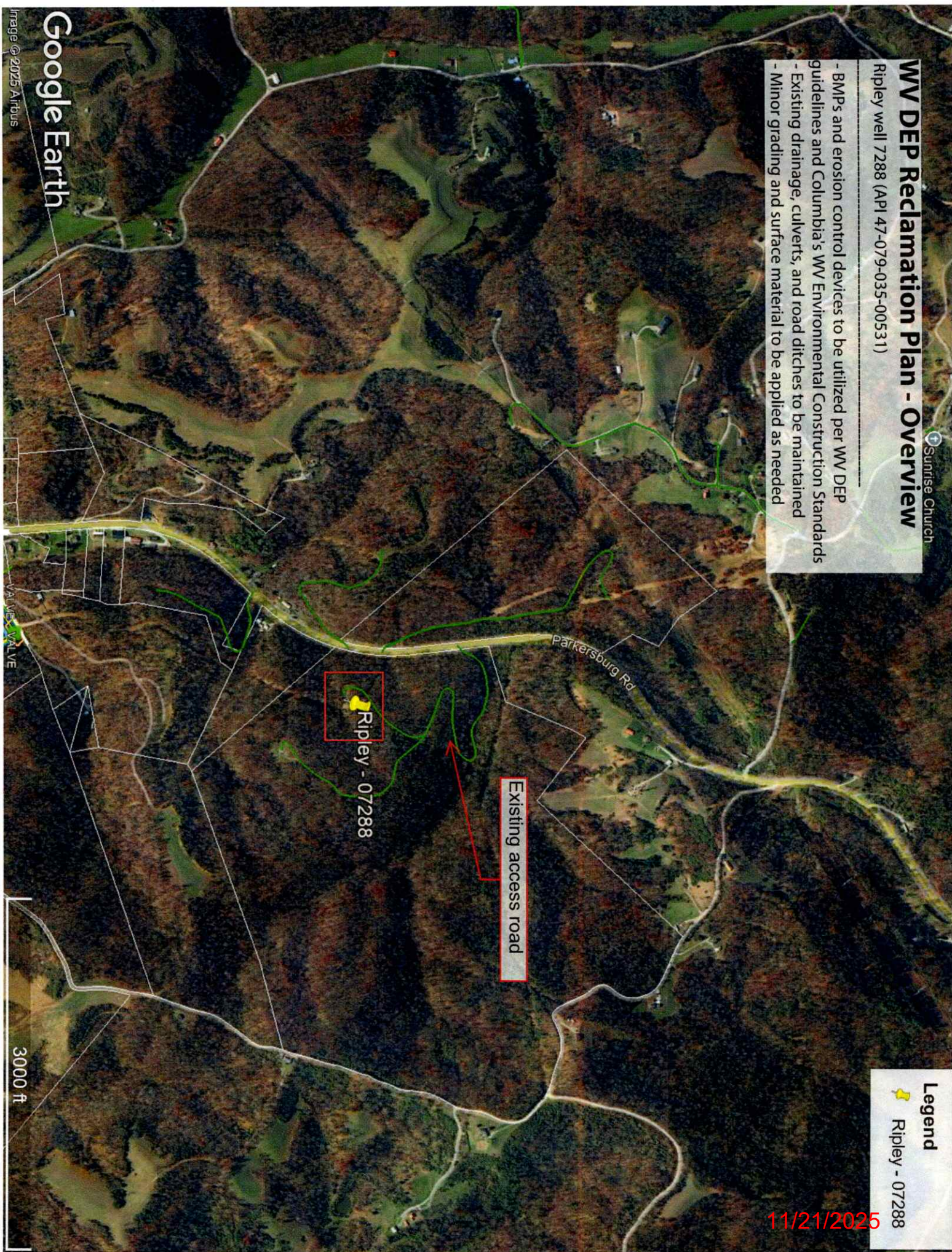
CONTOUR INTERVAL 20 FT

(KENTUCK)

38081-G5-TM-024
RIPLEY, WV
JAN 1, 1975

11/21/2025

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Office of Oil and Gas
NOV 05 2025
WV Department of
Environmental Protection



11/21/2025


Handwritten signature


WV DEP Reclamation Plan - Site Detail

Ripley well 7288 (API 47-079-035-00531)

- 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

Legend

 Ripley - 07288

 RY 7288 CWA

11/21/2025

Existing access road

~0.25 acres

Limit of Proposed
Disturbance on
existing well site

Ripley - 07288

100 ft

Google Earth

Image © 2025 Airbus

507

Columbia Gas Transmission, LLC

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



2025, November 4th

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

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

Ripley 7288 (API 47-035-00531)
Rockport 7262 (API 47-107-00302)

RECEIVED
Office of Oil and Gas

NOV 05 2025

WV Department of
Environmental Protection

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

Columbia Gas Transmission
1700 MacCorkle Ave SE
Charleston, WV 25314
Attn: Maria Medvedeva

If you have questions, feel free to call.

Regards,

A handwritten signature in black ink, appearing to read "Maria Medvedeva", written over a light blue circular stamp.

Maria Medvedeva
Senior Wells Engineer
Well Engineering & Technology
Columbia Gas Transmission, LLC
Mob: 304-410-4313
maria_medvedeva@tcenergy.com

**Kennedy, James P** <james.p.kennedy@wv.gov>

Well work permit issued 4703500531

1 message

Kennedy, James P <james.p.kennedy@wv.gov>

Mon, Nov 17, 2025 at 12:38 PM

To: Joseph D Taylor <joseph.d.taylor@wv.gov>, Maria Medvedeva <maria_medvedeva@tcenergy.com>, Brian Thomas <bkthomas@jacksoncountywv.com>

To whom it may concern, a well work permit has been issued for 4703500531.

--

James Kennedy

Environmental Resource Specialist III / Permitting

WVDEP Office of Oil and Gas

601 57th Street, SE

Charleston, WV 25304

304-926-0499 ext. 45025

james.p.kennedy@wv.gov**4703500531.pdf**

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11/21/2025