

#### 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

Tuesday, December 5, 2023 WELL WORK PERMIT Horizontal / New Drill

COLUMBIA GAS TRANSMISSION, LLC 1700 MACCORKLE AVENUE SE

CHARLESTON, WV 25314

Re:

Permit approval for COCO B / 12643

47-039-06401-00-00

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

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

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

James A. Martin

Operator's Well Number: COCO B / 12643

Farm Name: JAMES A. & FREDA MARIE

U.S. WELL NUMBER: 47-039-06401-00-00

Date Issued: 12/05/2023

Horizontal New Drill

Promoting a healthy environment.

### 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.

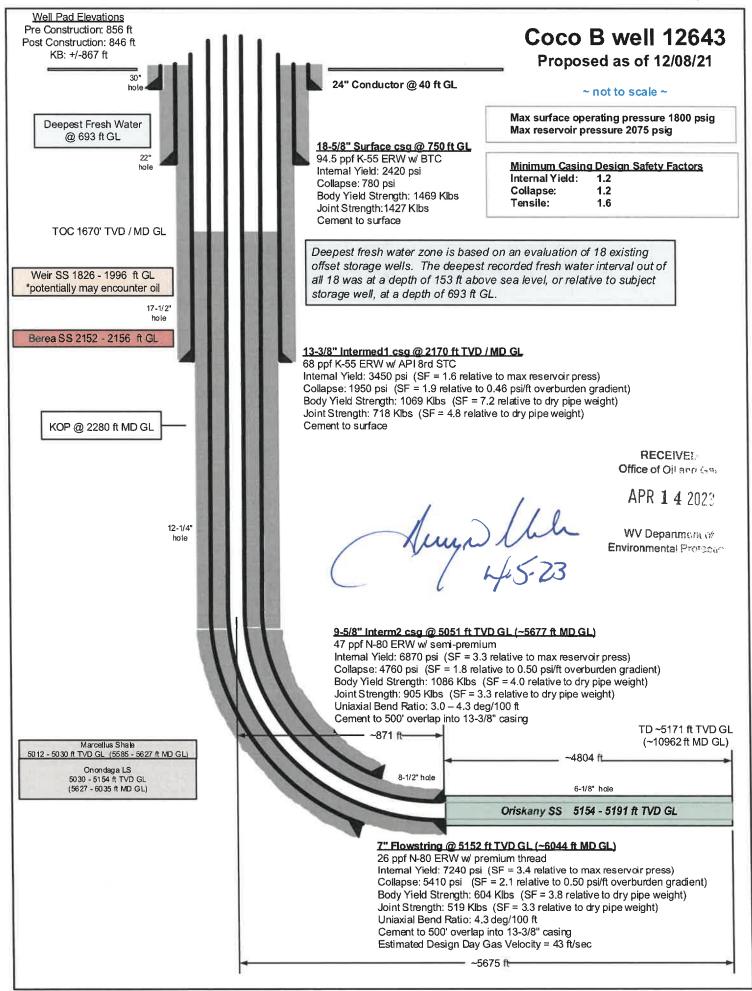
#### **CONDITIONS**

- 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.
- 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.

WW - 2B (Rev. 8/10) 47039064011713062

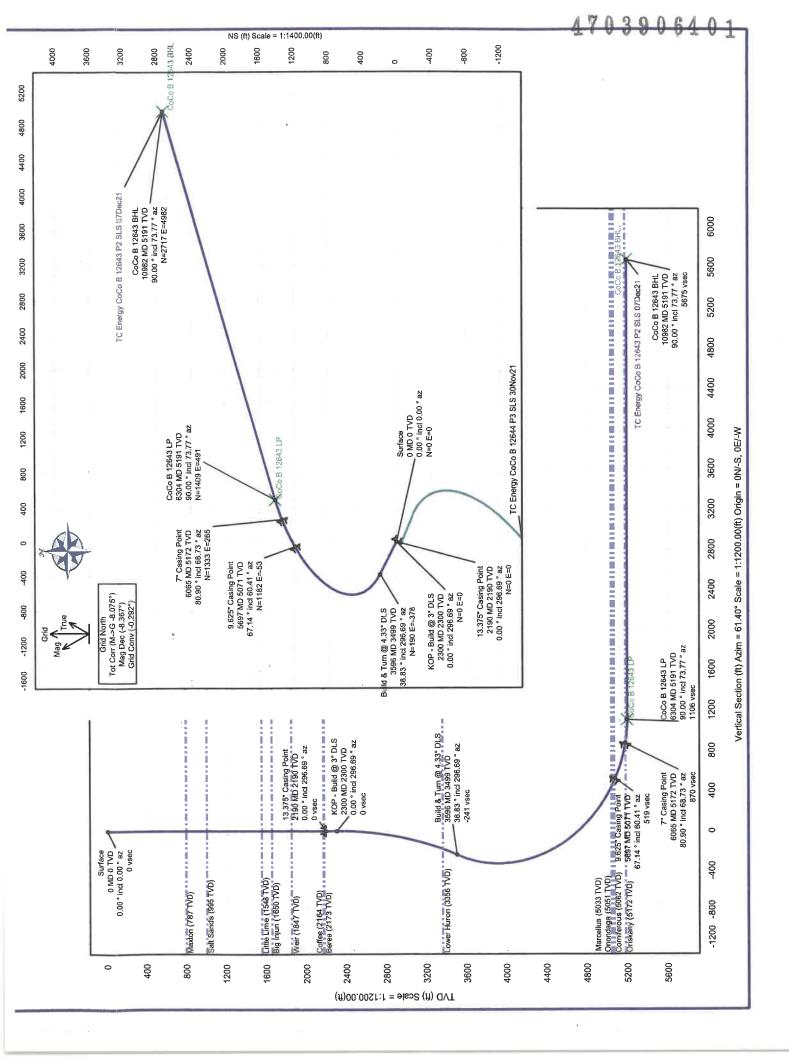
## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

|   | Coluitii   | oia Gas i                             | ransmission, LLC            | 307032  | Kanawha   | Coco                                | Elk                                      |
|---|--|---------------------------------------|-----------------------------|---|---|-------------------------------------|--|
|   | 3  |                                       |                             | Operator ID   | County  | District                            | Quadrangle                               |
| ) Operator's Wel  | II Numbe   | er: Coco E                            | 3 12643                     |   | 3) Elevation:   | 856 ft [                            | PAD 846 ft                               |
| ) Well Type: (a) (  | Oil  | _ or Gas                              | s <u>X</u>                  |   |   |                                     |  |
| (b) I   | If Gas:  | Produc                                | ction/ Unde                 | erground Stor   | age X   |                                     |  |
|   |  | Deep                                  | <u>×</u> / Sh               | allow   |   | 51                                  | 54 ft TVD GL                             |
| <ul><li>5) Proposed Targ</li><li>6) Proposed Total</li><li>7) Approximate fre</li><li>8) Approximate sa</li></ul> | l Depth:<br>esh wat                                | 10962 MD 517<br>er strata             | depths: estimated d         | ormation at F<br>leepest 693 ft (base                             | Proposed Targ<br>Proposed Tota<br>ed on evaluation of 1 | l Depth: Oriska                     | any                                      |
| 3) Approximate co   | oal sean   | n depths                              | none anticipated            |   |   | RECEIVI                             | ED<br>and Gas                            |
|   |  |                                       |                             |   | 4   | APR 1 4                             |  |
| 10) Approximate   | voia aep   | otns,(coa                             | ıı, Karst, otner): <u>'</u> | Torie articipate  | <u> </u>  |                                     |  |
| 11) Does land co  | ntain co   | al seams                              | s tributary to activ        | ve mine? <u>no</u>  | )   | WV Depar<br>Environmenta            | iment of<br>at Protection                |
| 12) Describe propo  | osed well  | l work an                             | d fracturing metho          | ods in detail (a  | ttach additiona   |                                     |  |
|   | III di   |                                       |                             |   |   |                                     |  |
| tefer to attached wel   | iipore diag  | gram.                                 |                             |   |   |                                     |  |
| tefer to attached well<br>prectionally drill well   |  |                                       | one, open hole com          | plete, acid stim  | ulate reservoir,  | install pipeline.                   | 111                                      |
|   |  |                                       | one, open hole com          | nplete, acid stim   | ulate reservoir,  | 1                                   | flile                                    |
| irectionally drill well   |  | ny sandst                             | cone, open hole com         |   |   | install pipeline.                   | fbh<br>45.23                             |
| irectionally drill well   |  | ny sandst                             | ·                           |   |   | Arrya                               | flh<br>45.23<br>NT                       |
| irectionally drill well  13)  TYPE SP   | to Oriska  | ny sandst                             | ·                           | ING PROGR   | AM  | Arrya                               | _  |
| irectionally drill well  13)  TYPE SP   | to Oriska  | ny sandst                             | SING AND TUB                | ING PROGR<br>FOOTAGE  | AM<br>INTERVALS   | Ary N<br>CEMEN                      | Ft.)                                     |
| 13) TYPE SP Conductor   | to Oriska PECIFICA                                 | CA<br>ATIONS<br>Grade                 | SING AND TUB                | ING PROGR<br>FOOTAGE<br>For Drilling                              | AM<br>INTERVALS<br>Left in Well                         | CEMEN<br>Fill -up (Cu.              | Ft.)                                     |
| 13) TYPE SP Conductor Fresh Water 1   | to Oriska PECIFICA Size 24                         | CA<br>ATIONS<br>Grade                 | SING AND TUB Weight per ft  | ING PROGR<br>FOOTAGE<br>For Drilling<br>60                        | INTERVALS  Left in Well  40                             | CEMEN<br>Fill -up (Cu.              | Ft.)                                     |
| 13) TYPE SP  Conductor Fresh Water 1 Intermediate 1   | ECIFICA<br>Size<br>24<br>18-5/8                    | CA<br>ATIONS<br>Grade<br>K-55         | Weight per ft 94.5          | ING PROGR<br>FOOTAGE<br>For Drilling<br>60<br>770                 | AM INTERVALS Left in Well 40 750                        | CEMEN<br>Fill -up (Cu.<br>71<br>574 | Ft.)                                     |
| 13) TYPE SP  Conductor Fresh Water 1 Intermediate 1   | ECIFICA<br>Size<br>24<br>18-5/8                    | CA<br>ATIONS<br>Grade<br>K-55         | Weight per ft 94.5 68       | ING PROGR<br>FOOTAGE<br>For Drilling<br>60<br>770<br>2190         | AM INTERVALS Left in Well 40 750 2170                   | CEMEN 71 574 1535                   | Ft.)  G 5 X 4  G 5 X 5  G 5 X 5  G 5 X 5 |
| TYPE SP  Conductor  Fresh Water 1 Intermediate 1  | ECIFICA<br>Size<br>24<br>18-5/8<br>13-3/8<br>9-5/8 | CA<br>ATIONS<br>Grade<br>K-55<br>K-55 | Weight per ft  94.5 68 47   | ING PROGR<br>FOOTAGE<br>For Drilling<br>60<br>770<br>2190<br>5697 | AM INTERVALS  Left in Well  40  750  2170  5677         | Fill -up (Cu. 71 574 1535           | Ft.)  G 5 X 4  G 5 X 5  G 5 X 5  G 5 X 5 |



|              | rcture:<br>TC Energy CoCo B Pad |  |                                       | _                  |             |                                | 1     | Comments/   | Contingency       |            |                   |           |               |          |                               |                      |                  |                              |          |                     |                     |               |                 |                  |                               | 5200  |                  |
|--------------|---------------------------------|--|---------------------------------------|--------------------|-------------|--------------------------------|-------|-------------|-------------------|------------|-------------------|-----------|---------------|----------|-------------------------------|----------------------|------------------|------------------------------|----------|---------------------|---------------------|---------------|-----------------|------------------|-------------------------------|-------|------------------|
|              | ပ္ပ                             |  |                                       |                    |             |                                |       | O           |                   | ŀ          |                   |           |               |          |                               |                      |                  |                              |          |                     |                     |               |                 |                  |                               | 4800  |                  |
|              | ပိ                              | e MSL)   |                                       | oord               | E(+)/W(-)   | 4982.44                        |       | EOU Size    | (Semi             | MILION III | 0.917             |           | 4.372         |          | 8.672                         |                      |                  | 19,403                       |          | 24.248              |                     | 34 349        | ì               |                  |                               | 4400  |                  |
|              | lerg)                           | KB(867.5ft above MSL)<br>: SLS 07Dec21   | 61.40                                 | Local Coord        |             |                                |       | EOU Size    |                   |            | 0.917             |           | 4.372         |          | 8,672                         |                      |                  | 30.548                       |          | 37.208              |                     | 214 539       | 200             |                  |                               | 4000  |                  |
|              | ure:                            | llaneous<br>CoCo B TVD Ref: KB(867,5ft abo<br>12643<br>TC Energy CoCo B 12643 P2 SLS 07Dec21 | 19                                    |                    | N(+)/S(-)   | 2716.80<br>1409.22             |       | Survey      | Frequency         |            | 1/100             |           | 1/100         |          | 1/100                         |                      |                  | 1/100                        |          | 1/100               |                     | 1/300         |                 |                  |                               | 3600  |                  |
|              | Structure:                      | TVD Ref:   |                                       | Г                  | Z           | 21 -                           |       | MD To       | £                 | 1          | 21                |           | 750           |          | 2190                          |                      |                  | 2020                         |          | 9230                |                     | 10982.        |                 |                  |                               | 3200  |                  |
|              |                                 | T T  | VSec Azimuth:                         |                    | ×           | 5675.01                        |       | T Sect      | Maxinci (ft)      |            | ٥                 |           | 21            |          | 750                           |                      |                  | 2190                         |          | 5050                |                     | 5790          | 5               |                  |                               | 2800  |                  |
|              | S                               | Miscellaneous<br>CoCo B<br>Slot: 12643<br>Plan: TC Ener                                      |                                       |                    | VSec        | 567                            |       | 20          | Size ed           |            | 18.625            |           | 18,625        |          | 13,375                        |                      |                  | 9.625                        |          | 7                   |                     | 195           | 6.163           |                  | 00(ft)                        | 2400  |                  |
|              | unty                            |  | 19 79                                 |                    |             | 8 8                            |       |             | 97 (s)            | 1          | 55                |           |               |          | 17,5                          |                      |                  | 12.25                        |          | 8.5                 |                     | 405           |                 |                  | = 1:1400.(                    | 2000  |                  |
|              | ပိ                              | ne, US Feet<br>-0.2919°<br>0.99993359  | W 8128 1979                           |                    | ΔŽ          | 5191.00                        |       | Vandor      | 8                 |            |                   |           |               |          |                               |                      |                  |                              |          |                     |                     | ī             |                 |                  | EW (ft) Scale = 1:1400.00(ft) | 1600  |                  |
|              | Wy Kanawha County (NAD 27)      | 15   |                                       |                    |             | 33.56<br>32.28                 |       | Survey Tool | Survey Tool Code  | SGCI-C/VIN | -Depth Only       |           | B006Mb_MWD+KG |          | B006Mb_MWD+IG                 |                      | MWD+KG           | RF                           | !        | B006Mb_MWD+IG<br>RF |                     | BOOGMS_MWD+IG | ı               |                  | Ä                             | 1200  |                  |
| 6            | Kan                             | ne, Southern Z<br>S Grid Conv:<br>U Scale Fact:  | Conditude                             | Grid Coord         | Easting     | 1869693.56<br>1865202.28       |       | 1           |                   | POOR       | Depth O           |           | 2 BODGMI      | !        | 3 BOOGM                       |                      | ROOFM            | 4<br>R                       |          | 5 B006M3            |                     |               | F.              |                  |                               | 800   |                  |
| er           | \$ ₹                            | nia State Plane, Southern Zo<br>514763.54ftUS Grid Conv:<br>1864711.46ftU Scale Fact:        |                                       | ື້                 |             | 15                             |       | PA Seq      | E                 | L          | -                 |           | -             |          | <u>_</u>                      |                      |                  | _                            |          | -                   |                     |               | _               | ]                |                               | 400   |                  |
| TC Energy    |                                 | Virginia 3<br>19: 514<br>186   | Surface Location                      |                    | Northing    | 517480.15                      |       |             | DLS               | 0.00       | 0.00              | 0.00      | 0.00          | 0.00     | 0.00                          | 8 8                  | 0.00             | 33                           | 4.33     | 4.33                | 3 2                 | 33            | 4.33            | g                |                               | 0     | 1                |
| O            |                                 | D27 West Vir<br>Northing:<br>Easting:  | Surface Locat                         |                    |             | 81 27 17.37                    |       | П           |                   | 0.9        | öö                | 0.0       | 0.0           | 5 6      | ö                             |                      |                  |                              |          |                     |                     |               |                 |                  |                               | 400   | S. K             |
| <b>—</b>     | 643                             | 5. 5   | 1114<br>151                           |                    | Longitude   | W 8127                         |       |             | E(+)/W(-)<br>0.00 | 0.00       | 0.00              | 00'0      | 0,00          | 00.00    | 00.00                         | 0.00                 | -284,55          | -124.83                      | -92.54   | -71,44              | 264.84              | 264.84        | 490.85          | 4982.44          |                               | 800   | 0                |
|              | Co B 12643                      | 1 8  | -                                     |                    |             | 2.95                           |       |             | N(+)/S(·)<br>0:00 | 0.00       | 00.0              | 00.       | 0.00          | 0.00     | 0.00                          | 0.00                 | 143.08<br>190.03 | 1139.77                      | 1159.44  | 1171.87             | 1332.57             | 1332.57       | 1409.22         | 2716.80          |                               | -1200 | Grid<br>Mag True |
| ,            | ပို                             |  | 6077748                               |                    | Latitude    | N 38 25 12.95<br>N 38 24 59 81 |       |             |                   |            | <b>,</b>          | 0         | 0 (           | <b>,</b> |                               |                      |                  |                              |          |                     |                     |               |                 |                  |                               | -1600 | 2                |
|              | ပိ                              | 17-Nov-2021<br>999.245mgn (9.80665 Based)  | 967744 4607748                        |                    | Ī           |                                |       |             | VSEC<br>0:00      | 0.00       | 0.00              | 0.00      | 0.00          | 90.0     | 00'0                          | 0.00                 | -181.33          | 436.05                       | 473.82   | 498.29              | 870.47              | 870.47        | 1105,59         | 5675.01          |                               | ٦     |                  |
|              | Well:                           | 21<br>gn (9.8066   |                                       | ģ                  | Dimension   | <b>4</b> 4                     |       | oints       | <b>0.</b> 00      | 787.00     | 995.00<br>1548.00 | 1650.00   | 1847.00       | 2164.00  | 2190.00                       | 2300.00              | 3356.00          | 5033.00                      | 5051.00  | 5062.00             | 5172.00             | 5172.00       | 5191.00         | 5191.00          |                               |       |                  |
|              | _                               | 17-Nov-2021<br>999.245mgn  | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |                    | ā           | A/N                            |       | Critical    |                   |            |                   | 2 02      |               |          |                               |                      |                  |                              |          |                     |                     |               | _               |                  |                               |       |                  |
| 5            | <sub>0</sub>                    |  | 10000                                 | ption              | 98          | . = 7                          |       |             | AZIM<br>0.00      | 296.69     | 296.69            | 296.69    | 296.69        | 296.69   | 296.69                        | 296.69               | 296.69           | 58.10                        | 59.17    | 59.85               | 68.73               | 68.73         | 73.77           | 73.77            |                               |       |                  |
|              | ehol                            | Date:  | APOTOCEOU COEN AU                     | Target Description | Shape       | Point                          | -     |             | INCL              | 00.00      | 0.00              | 0.00      | 00.0          | 00.0     | 00.0                          | 0.00                 | 33.57            | 63.78                        | 65.31    | 66.30               | 67.14<br>80.90      | 80.90         | 90.00           | 90:00            |                               |       |                  |
|              | Bor                             | ers<br>65,494° Date:<br>50819,427nT Gravity FS:  |                                       | F                  |             |                                |       |             |                   | 8          | 995.00            | 1650.00   | 1847.00       | 2164.00  | 900                           | 2300.00              | 3.92             | 5.92                         | 7.81     | 5674.65             | 5697.42             | 6064.66       | 8304.40         | 10982.44         |                               |       |                  |
| Schlumberger | e:<br>Original Borehole         | Magnetic Parameters<br>HDGM 2021 Dip: 65,494°<br>-8.367° FS: 50819.4                         |                                       | NOCUMB.            |             | 률 ~                            |       |             | OW                | 787.00     | 995.00            | 1650      | 184           | 216      | 2190.00                       | 230                  | 3418.92          |                              | 5647.81  | 299                 | 5697.42             | 906           | 630             | 109              |                               |       |                  |
| <b>4</b> 5   | e:<br>Oriç                      | lagnetic I<br>IDGM 20;<br>3.367°   |                                       |                    | Parget Name | CoCo B 12643 BHL               | 12045 |             |                   |            |                   |           |               |          | g Point                       | 3° DLS               | 000              | (4.5)<br>(1.7)               |          | :                   | Point               | Ĕ             | 3.LP            | 3 BHL            |                               |       |                  |
|              | Borehole                        | Gravity & Magnetic Parameters<br>Model: HDGM 2021 Dip: 65,<br>MagDec: -8.367° FS: 50         |                                       |                    | Target      | 000                            | 3     |             | Critical Point    | Maxton     | Salt Sands        | Big Injun | Weir          | Coffee   | berea<br>13,375" Casing Point | KOP - Build @ 3° DLS | Lower Huron      | Duito o Turri e<br>Marcellus | Onondaga | Corniferous         | 9.625" Casing Point | Oriskany      | CoCo B 12643 LP | CoCo B 12643 BHL |                               |       |                  |
|              | <u> </u>                        | [0 ≥ ≥   | J                                     |                    |             |                                |       | L           | ō v               | Z          | es =              | i iš      | 3             | 0 0      | 9 E                           | ¥                    | 9 6              | ď ¥                          | ŏ        | <u>്</u>            | ō; ř                | <u>. ö</u>    | <u> </u>        | ত্র              |                               |       |                  |

Surface



| WW-   | 2A    |
|-------|-------|
| (Rev. | 6-14) |

| 1). Date: <u>03/</u> 0 | 01/2023   |        | _       |
|------------------------|-----------|--------|---------|
| 2.) Operator's We      | ll Number | Coco E | 3 12643 |
|                        | State     | County | Permit  |
| 3.) API Well No.:      | 47-       | 039    | -       |

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

|                     | Owner(s) to be served:  | 5) (a) Coal Operator<br>Name         | Not operated                          |                          |
|---------------------|---|--------------------------------------|---------------------------------------|--------------------------|
| (a) Name<br>Address | Patricia Joe Ranson 906 Teaque Cir  | Name<br>Address                      |                                       | RECEIVED Gas             |
| Address             | Sugarland, TX 77478   |                                      |                                       | Office of Oil and Gas    |
| (b) Name            |   | (b) Coal Owner                       | (s) with Declaration                  | Office of 1 2073         |
| Address             |   |                                      | t operated                            | APR 1 4 2023             |
|                     |   | Address                              |                                       | t of                     |
|                     |   |                                      |                                       | Environmental Protection |
| (c) Name            | e   | Name                                 |                                       | EUALOUL                  |
| Address             |   | Address                              |                                       |                          |
|                     |   | <u> </u>                             |                                       |                          |
| 6) Inspector        | Terry Urban   | V                                    | with Declaration                      |                          |
| Address             | P.O. Box 1207   |                                      | t operated                            |                          |
|                     | Clendenin, WV 25045   | Address                              |                                       |                          |
| Telephon            |   | LAMED ABOVE TAKE                     | NOTICE THAT:                          |                          |
| lpoludod i          | is the lease or leases or other continui  | NAMED ABOVE TAKE                     |                                       | to extract oil and gas   |
| OR                  | is the lease of leases of other continui  | ing contract or contracts t          | y willon i noid the right             | to extract oil and gas   |
|                     | is the information required by Chapter  | 22, Article 6, Section 8(d           | of the Code of West V                 | irginia (see page 2)     |
| I cert              | ify that as required under Chapter 22   | 2-6 of the West Virginia C           | Code I have served cor                | pies of this notice and  |
| application, a      | location plat, and accompanying docu  | uments pages 1 through _             | on the above named                    | d parties by:            |
|                     | Personal Service (Affidavit a   |                                      |                                       |                          |
|                     | X Certified Mail (Postmarked p Publication (Notice of Publication)                |                                      |                                       |                          |
| l have              | e read and understand Chapter 22-6  |                                      | ee to the terms and co                | onditions of any permit  |
| issued under        | this application.   |                                      |                                       |                          |
| I cert              | ify under penalty of law that I have p  | ersonally examined and               | am familiar with the info             | ormation submitted on    |
| this application    | on form and all attachments, and that information, I believe that the information | t based on my inquiry of             | those individuals imme                | diately responsible for  |
| obtaining the       | aware that there are significant penal  | ties for submitting false in         | complete.<br>formation, including the | possibility of fine and  |
| imprisonment        | t.  |                                      |                                       | 1                        |
| -                   | Wall Opera  | tor <u>Columbia Gas Tr</u>           |                                       | 18/2 9                   |
| OF WEST DY          |   | By: Brent Criser (ATT                |                                       |                          |
| T                   | Rebecca Kennedy Warnick C/ENERGY / COLUMBIA GAS TRANSMISSION                      | Its: Team Leader We                  |                                       | chnology                 |
|                     | 1700 MACCORKLE AVE., SE LAND DEPT Charleston WV 25325                             | ss: 1700 MacCorkle<br>Charleston, WV |                                       |                          |
|                     |   | ne: 304-410-4313                     | 20014-1270                            |                          |
|                     |   | ail: maria medvedev                  | a@tcenergy.com                        |                          |
| Subscribed a        |   | y of April                           | , 2025                                |                          |
| K                   | the ht  |                                      | Notary Public                         |                          |
| My Commiss          | ion Expires(/30/26  |                                      |                                       |                          |
| Oil and Can Bris    | vacy 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 <a href="mailto:depprivacyofficer@wv.gov">depprivacyofficer@wv.gov</a>

APR 1 4 2023

WV Department of

- mironmental Protection

#### SURFACE OWNER WAIVER

|        |         |                      | Columbia Gas Transmission LLC |
|--------|---------|----------------------|-------------------------------|
| County | 039     | Operator             |                               |
|        | Kanawha | Operator well number | Coco B 12643                  |

#### 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. Offense of Oil and GRE

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

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:

- The proposed well work will constitute a hazard to the safety of persons.
- The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources:
- The proposed well work fails to protect fresh water sources or supplies;
- 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 FO |        | FOR                          | R EXECUTION BY A CORPORATION, ETC. |      |  |  |  |
|--------------------------------------|--------|------------------------------|------------------------------------|------|--|--|--|
| Signature                            | Date _ | Company<br>Name<br>By<br>Its | -                                  | Date |  |  |  |
| Print Name                           |        |                              | Signature                          | Date |  |  |  |

#### Columbia Gas Transmission, LLC

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



April 3, 2023

Patricia Joe Ranson 906 Teague Cir Sugarland, TX 77478 RECEIVED
Office of Oil and Gas

APR 1 4 2023

WV Department of Environmental Protection

Columbia Gas Transmission, LLC is applying for a permit to the WV Department of Environmental Protection – Office of Oil and Gas, to drill and complete new underground natural gas storage wells located on property owned by you. As reference, the field and well ID is Coco B 12643 and Coco B 12644.

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, U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only For delivery information Sugar Land I TX 77478 639 \$4.15 9726 Maria Medvedeva xtra Services & Fees (check box SULUU Senior Wells Engineer \$0.00 Certified Mail Restricted Delivery \$0.00 Well Engineering & Technology Adult Signature Required
Adult Signature Restricted D Columbia Gas Transmission, LLC 2470 \$9.65 04/03/2023 1d Fees \$17.15 7022 radricia SENDER: COMPLETE THIS SEC CB 12643/12644 Complete items 1, 2, and 3. Print your name and address on the reverse ☐ Addre so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 1. Article Addressed to: If YES, enter delivery address below: No Patricia De Rayson 904 Teague cir Sugarland, TX 3. Service Type

Adult Signature
Adult Signature Restricted Delivery
Certified Mail®
Certified Mail Restricted Delivery
Collect on Delivery
Mail Restricted Delivery
Mail Restricted Delivery ☐ Priority Mail Express®☐ Registered Mail™☐ Registered Mail Restrict Delivery☐ Signature Confirmation 9590 9402 7630 2122 5691 08 www.tcenergy.com 2. Article Number (Transfer from service label) Mall Restricted Delivery 2945 7022 2410 0002 6396 Domestic Return Receip PS Form 3811, July 2020 PSN 7530-02-000-9053

#### **COAL OPERATOR, OWNER, OR LESSEE WAIVER**

\* coal not operated

| COAL OPE   | RATOR, OWNER  | K, UK LESS                                  | EE WAIVER  | coal not operated                               |
|--|---|---|--|---|
| County Kanawha   |   |   | 0 5  | 40040   |
| Operator Columbia Gas Transmission, LLC  | Operator'   | s Well Numl                                 | per Coco B   | 12643   |
|  |   |   |  | **  |
| INSTRUCTIONS   | TO COAL OPER  | ATOR, OW                                    | NER, OR LESS   | SEE   |
| To the coal operator, owner, any objection you wish to make or a with the Chief of the Office of Oil a by the Office. Mail objections to:                                  | are required to ma  | ake by WV (                                 | Code 22-6-15,  | 16 or 17, must be filed                         |
| Chief, Office of Oil and Gas<br>Department of Environmental Prote<br>601 57 <sup>th</sup> St. SE<br>Charleston, WV 25304<br>(304) 926-0499 extension 1654                  | ction   |   |  |   |
|  | WAIV  | ER  |  |   |
| The undersigned coal opera location has examined this propose location, the well location has been work proposed to be done at this lo requirements of the West Virginia C | ed well location. I<br>added to the mirecation, provided, | f a mine man<br>ne map. The<br>the well ope | p exists which or complete undersigned leading to the complete complete the complete | covers the area of well has no objection to the |
| FOR EXECUTION BY A NATURAL PERS  | SON   | FOR   | EXECUTION BY A   | A CORPORATION, ETC.                             |
|  | Date  | Company<br>Name                             |  |   |
| Signature  |   | By _<br>Its                                 |  | Date  |
|  |   | 11.5  |  | Date  |
|  |   | -   | Signature  | Date  |
|  |   |   |  |   |
|  |   |   |  | RECEIVED Office of Oil and Gas                  |
|  |   |   |  | APR 1 4 2023                                    |
|  |   |   |  | WV Danarina                                     |

WV Department of Environmental Protection Operator's Well Number Coco B 12643

#### 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  |
|---------|---------------------------------------|-------------------------------|----------------|------------|
|         |                                       |                               | Storage Lease  |            |
| surface | Matt Amos, et al                      | Columbia Gas Transmission LLC | #1049098-0000  | 975 / 101  |
|         |                                       |                               | Storage Leases |            |
| bottom  | Matt Amos, et al                      | Columbia Gas Transmission LLC | #1049098-0000  | 975 / 101  |
| hole    | Charles Pete Bryant, et ux.           | Columbia Gas Transmission LLC | #1047327-000   | 127 / 169  |
|         | Mary C Porter, et al.                 | Columbia Gas Transmission LLC | #1047327-002   | 1039 / 369 |
|         | Mildred Pearson Lake, Trustee, et al. | Columbia Gas Transmission LLC | #1049470-000   | 128 / 397  |
|         | Mildred Pearson Lake, Trustee, et al. | Columbia Gas Transmission LLC | #1004771-000   | 126 / 211  |
|         | T. C. Matthews, Trustee, et al.       | Columbia Gas Transmission LLC | #1000807-000   | 128 / 93   |
|         | Elbert Woody, et ux, et al.           | Columbia Gas Transmission LLC | #1004772-000   | 126 / 173  |

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

The permit app licant for the proposed well work addressed in this application he reby a cknowledges 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

RECEIVED
Office of Oil and Gas

APR 1 4 2023

WV Department of Environmental Protection

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 ac quired from the appropriate aut hority before the affected activity is initiated.

Well Operator:

By:Its:

Columbia Gas Transmission, LL

Brent Criser

Senior Wells Engineer - Well Engineering & Technology

| WW-2B  |  |
|--------|--|
| (5-12) |  |

| الم/۸ | No   | Coco | R | 12643 |
|-------|------|------|---|-------|
| vveii | INO. | C000 | U | 12043 |

## 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

AGES, Applied Geology and Environmental Science, Inc.

Sampling Contractor

AGES, Applied Geology and Environmental Science, Inc.

Well Operator

Columbia Gas Transmission, LLC

Address

1700 MacCorkle Ave. SE

Charleston, WV 25314-1273

Telephone

304-410-4313

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.

Office of Oil and Gas

APR 1 4 2023

WV Department of Environmental Protection WW-9 (5/16)

API Number 47 - 039 Operator's Well No. Coco B 12643

## 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) Coopers Creek-Elk River Quadrangle Blue Creek  |
| Do you anticipate using more than 5,000 byts of water to complete the proposed well work? Yes No  |
| Will a pit be used? Yes No V  |
| 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. air, fresh water, polymer drilling fluid  |
| -If oil based, what type? Synthetic, petroleum, etc. N/A  |
| Additives to be used in drilling medium? NaCl, KCl, biocide, soda ash, polymer, bentonite, attapulgite, starch, surfactant, CaCO3   |
| Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill  |
| -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 personal Gas Company Official Signature  APR 1 4 2023 |
| Company Official (Typed Name) Brent Criser  |
| Company Official Title Team Leader – Well Engineering & Technology Storage Technical Services  WV Department of Environmental Protection  |
| Subscribed and sworn before me this 3rd day of April , 2026   |
| My commission expires  OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA Rebacca Kennedy Warnick TC/ENERGY / COLUMBIA GAS TRANSMISSION 1700 MACCORRLE AVE., SE LAND DEPT CAPACITY COmmission Expires June 30, 2026   |

Operator's Well No. Coco B 12643

| Birdsfoot Trefoil (Empire)   | Lime 2   | Tons/acre or to correct  | t to pH _ 7-8   |               |
|--|--|--|---|---------------|
| Seed Mixtures  Temporary  Seed Type  Ibs/acre  Annual Rye  40  Orchard Grass and/or Tall Fescue  Birdsfoot Trefoil (Empire)  Annual Rye  1  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 di (L, W), and area in acres, of the land application area.  Photocopied section of involved 7.5' topographic sheet.  Plan Approved by:  APR 1 4 2023  WV Department of  | Fertilizer type 10-  | -10-10   |   |               |
| Seed Type   Ibs/acre   Seed Type   Ibs/acre   Seed Type   Ibs/acre    Annual Rye   40   Orchard Grass and/or Tall Fescue   2  Birdsfoot Trefoil (Empire)  Annual Rye   1  Annual Rye   1 | Fertilizer amount  | 300  | lbs/acre  |               |
| Seed Type   Ibs/acre   Seed Type   Ibs/acre   Seed Type   Ibs/acre    Annual Rye   40   Orchard Grass and/or Tall Fescue   2  Birdsfoot Trefoil (Empire)  Annual Rye   1  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 application area.  Photocopied section of involved 7.5' topographic sheet.  Plan Approved by: Annual Rye   Office of Oil and Gas    APR 1 4 2023   | <sub>Mulch_</sub> hay or st  | raw @ 2  | _Tons/acre  |               |
| Seed Type   Ibs/acre   Seed Type   Ibs/acre   Annual Rye   40   Orchard Grass and/or Tall Fescue   2   |  |  | Seed Mixtures   |               |
| Annual Rye  40  Orchard Grass and/or Tall Fescue  Birdsfoot Trefoil (Empire)  Annual Rye  1  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 di (L, W), and area in acres, of the land application area.  Photocopied section of involved 7.5' topographic sheet.  Plan Approved by:  Orffice of Oil and Gas  APR 1 4 2023  Wy Department of  | T  | emporary   | Permanent   |               |
| 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 did (L, W), and area in acres, of the land application area.  Photocopied section of involved 7.5' topographic sheet.  Plan Approved by:  Office of Oil and Gas  APR 1 4 2023  | Seed Type  | lbs/acre   | Seed Type lbs/acre  |               |
| 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 did L, W), and area in acres, of the land application area.  Photocopied section of involved 7.5' topographic sheet.  Plan Approved by:  Plan Approved by:  Plan Approved by:  RECEIVED  Office of Oil and Gas  APR 1 4 2023  WV Department of   | Annual Rye   | 40   | Orchard Grass and/or Tall Fescue                                | 29            |
| 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 di L, W), and area in acres, of the land application area.  Photocopied section of involved 7.5' topographic sheet.  Plan Approved by:  Office of Oil and Gas  APR 1 4 2023  WV Department of  |  |  | Birdsfoot Trefoil (Empire)                                      | ξ             |
| 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 di (L, W), and area in acres, of the land application area.  Photocopied section of involved 7.5' topographic sheet.  Plan Approved by:  Office of Oil and Gas  APR 1 4 2023  WV Department of   |  |  | Annual Rye  | 12            |
| RECEIVED Office of Oil and Gas APR 1 4 2023  WV Department of  | Maps(s) of road, location, provided). If water from the (L, W), and area in acres, o   | e pit will be land applied, pro<br>f the land application area.                            | ovide water volume, include dimensions (L, W, D) of the pit, an | een<br>d din  |
| APR 1 4 2023  WV Department of   | Maps(s) of road, location, provided). If water from the (L, W), and area in acres, o   | e pit will be land applied, profithe land application area.  olved 7.5' topographic sheet. | ovide water volume, include dimensions (L, W, D) of the pit, an | oeen<br>d dim |
| APR 1 4 2023   | Maps(s) of road, location, provided). If water from the (L, W), and area in acres, or Photocopied section of involved Approved by: | e pit will be land applied, profithe land application area.  olved 7.5' topographic sheet. | ovide water volume, include dimensions (L, W, D) of the pit, an | d din         |
| WV Department of   | Maps(s) of road, location, provided). If water from the (L, W), and area in acres, or Photocopied section of involved Approved by: | e pit will be land applied, profithe land application area.  olved 7.5' topographic sheet. | evide water volume, include dimensions (L, W, D) of the pit, an | d din         |
| Environmental Protection   | Maps(s) of road, location, provided). If water from the (L, W), and area in acres, or Photocopied section of involved Approved by: | e pit will be land applied, profithe land application area.  olved 7.5' topographic sheet. | RECEIVED Office of Oil and Gas                                  | d din         |
|  | Maps(s) of road, location, provided). If water from the (L, W), and area in acres, or Photocopied section of involved Approved by: | e pit will be land applied, profithe land application area.  olved 7.5' topographic sheet. | RECEIVED Office of Oil and Gas APR 1 4 2023                     | d din         |
|  | Maps(s) of road, location, provided). If water from the (L, W), and area in acres, or Photocopied section of involved Approved by: | e pit will be land applied, profithe land application area.  olved 7.5' topographic sheet. | RECEIVED Office of Oil and Gas  APR 1 4 2023                    | d dim         |

WW-9- GPP Rev. 5/16

|              | Page         | of      | 2 |
|--------------|--------------|---------|---|
| API Number   | 47 - 039     |         |   |
| Operator's W | ell No. Coco | B 12643 |   |

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

| bia Gas Transmission, LLC   |
|---|
| Coopers Creek-Elk River Quad: Blue Creek  |
| d Freda Marie Morton  |
| s used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the   |
| d to be discharged.   |
| be stored on site. Fuel, oil, and lubricants will be stored on site, but located within inment. Spills from construction equipment, well treatment fluids, and produced e only possible source of contamination to groundwater. Drilling and flowback d in tanks. |
| res and equipment used to protect groundwater quality from the list of potential contaminant sources above.   |
| be constructed around perimeter of well pad with storm water sumps to control ured precipitation.   |
| nd well servicing equipment will be monitored and inspected daily for leaks. initored daily for leaks. Spill kits will be on site.  |
| vater body, distance to closest water body, and distance from closest Well Head Protection Area to th   |
| at a distance of 0.24 miles N.  |
| en WV9908037 is the closest Well Head Protection Area at a distance of 11.4 scharge area.   |
| tivities at your facility that are already regulated for groundwater protection.  |
| RECEIVED Office of Oil and Gas  |
| APR 1 4 2023  |
| WV Department of  |
| Environmental Protection  |
| tivities at your facility that are already regulated for groundwater protection.  RECEIVED Office of Oil and Ga APR 1 4 2023  |

WW-9- GPP Rev. 5/16

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Page 2 of 2

| Operate   | or's Well No. Coco B 12643         |
|---|------------------------------------|
|   |                                    |
| N/A   |                                    |
|   |                                    |
|   |                                    |
|   |                                    |
|   |                                    |
| . Provide a statement that no waste material will be used for deicing or fill material or   | n the property.                    |
| No waste material will be used for deicing or fill material on the pr   | operty.                            |
|   |                                    |
|   |                                    |
|   |                                    |
| <ol> <li>Describe the groundwater protection instruction and training to be provided to the<br/>provide direction on how to prevent groundwater contamination.</li> </ol> | ne employees. Job procedures shall |
| Provide an above to provide groundwater containmation.  |                                    |
| During routine tailgate and JSA meetings groundwater protection   | will be a topic of discussion.     |
|   |                                    |
|   |                                    |
|   |                                    |
|   |                                    |
|   | RECEIVED                           |
|   | Office of Oil and Gas              |
|   | APR 1 4 2023                       |
|   | WV Department of                   |
|   | Environmental Protection           |
|   |                                    |
| Provide provisions and frequency for inspections of all GPP elements and equipmen   |                                    |
| Provide provisions and frequency for inspections of all GPP elements and equipment  | nt.                                |
| No fertilizer will be stored on site. Fuel, oil, and lubricants will be   | stored on site, but located        |
| within secondary containment. Spills from construction equipmen   | it, well treatment fluids, and     |
| produced well fluids are the only possible source of contamination  | n to groundwater.                  |
| Inspections to be performed daily.  |                                    |
| and the second three daily.   |                                    |
| 71-0  |                                    |

4703906401T

-81.47047700 -81.45482400

81.47126441

6.37

| <b>Geodetic Report</b> |
|------------------------|
| Proposal               |
| \$ 07Dec21             |
| P2 SLS                 |
| B 12643                |
| gy CoCo                |
| C Ener                 |

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| Report Date:                  | December 07, 2021 - 02:25 PM                            | Survey / DLS Computation:      | Minimum Curvature / Lubinski |
|-------------------------------|---|--------------------------------|------------------------------|
| Client:                       | TC Energy   | Vertical Section Azimuth:      | 61.397 ° (Grid North)        |
| Field:                        | WV Kanawha County (NAD 27)                              | Vertical Section Origin:       | 0.000 ft. 0.000 ft           |
| Structure / Slot:             | TC Energy CoCo B Pad / CoCo B 12643                     | TVD Reference Datum:           | KB Y                         |
| Well:                         | CoCo B 12643  | TVD Reference Elevation:       | 867.500 ft above MSL         |
| Borehole:                     | Original Borehole                                       | Seabed / Ground Elevation:     | 846.500 ft above MSL         |
| UWI / API#:                   | Unknown / Unknown                                       | Magnetic Declination:          | -8.367 °                     |
| Survey Name:                  | TC Energy CoCo B 12643 P2 SLS 07Dec21                   | Total Gravity Field Strength:  | 999.2454mgn (9.80665 Based)  |
| Survey Date:                  | November 17, 2021                                       | Gravity Model:                 | GARM                         |
| Tort / AHD / DDI / ERD Ratio: | 156.166 ° / 7023.614 ft / 6.366 / 1.353                 | Total Magnetic Field Strength: | 50819,427 nT                 |
| Coordinate Reference System:  | NAD27 West Virginia State Plane, Southern Zone, US Feet | Magnetic Dip Angle:            | 65.494 °                     |
| Location Lat / Long:          | N 38° 24' 45.85188", W 81° 28' 19.79401"                | Declination Date:              | November 17, 2021            |
| Location Grid N/E Y/X:        | N 514763.537 ftUS, E 1864711.461 ftUS                   | Magnetic Declination Model:    | HDGM 2021                    |
| CRS Grid Convergence Angle:   | -0.2919 °   | North Reference:               | Grid North                   |
| Grid Scale Factor:            | 0.99993359  | Grid Convergence Used:         | -0.2919 °                    |
| Version / Patch:              | 2.10.826.8  | Total Corr Mag North->Grid     | -8.0750 °                    |

| , | odel: GARM     | Total Magnetic Field Strength: 50819.427 nT | Magnetic Dip Angle: 65.494 ° | n Date: November 17, 2021 | Magnetic Declination Model: HDGM 2021 | rence: Grid North | Grid Convergence Used: -0.2919 ° | Total Corr Mag North->Grid -8.0750 °<br>North: | Local Coord Referenced To: Well Head |
|---|----------------|---|------------------------------|---------------------------|---------------------------------------|-------------------|----------------------------------|--|--------------------------------------|
|   | Gravity Model: | Total Magr                                  | Magnetic [                   | Declination Date:         | Magnetic [                            | North Reference:  | Grid Conve                       | Total Corr<br>North:                           | Local Coor                           |

|       |       |           |         | Loca    | Local Coord Referenced To: | d To: Well Head | lead  |           |         |           |           |           |            |             |              |            |
|-------|-------|-----------|---------|---------|----------------------------|-----------------|-------|-----------|---------|-----------|-----------|-----------|------------|-------------|--------------|------------|
| MD    | luci  | Azim Grid | ΩΛΤ     | TVDSS   | VSEC                       | SN              | EW    | DLS       | Ľ       | BR        | ¥         | Northing  | T<br>cotto | atitudo     | - Continue   | C          |
| (£)   | 0     | (6)       | (Lt)    | (#)     | (#)                        | (¥)             | (£)   | (°/100ft) | ε       | (°/100ft) | (*/100ff) | (HIIS)    | (4115)     | 6)          | annifilma    | Difficulty |
| 0.00  | 0.00  | 0.00      | 0.00    | -867.50 | 00:0                       | 0.00            | 0.00  | N/A       | 296.69M | N/A       | A/A       | 514763.54 | 1864711 46 | 38 41273683 | 84 47248500  | CHIICUITY  |
| 87.00 | 00.00 | 296.69    | 787.00  | -80.50  | 00.00                      | 0.00            | 00.00 | 0.00      | 296.69M | 0.00      | 000       | 514763 54 | 1864711 46 | 38 41273663 | -81.47216500 |            |
| 95.00 | 00.00 | 296.69    | 995.00  | 127.50  | 00.00                      | 0.00            | 00.00 | 0.00      | 296.69M | 0.00      | 0.00      | 514763 54 | 1864711 46 | 38 41273663 | -81.47216500 |            |
| 48.00 | 00.00 | 296.69    | 1548.00 | 680.50  | 00.00                      | 0.00            | 0.00  | 0.00      | 296.69M | 0.00      | 000       | 514763 54 | 1864711 46 | 38 41273663 | 81 47216500  |            |
| 50.00 | 00.00 | 296.69    | 1650.00 | 782.50  | 00.00                      | 0.00            | 0.00  | 00.0      | N69 962 | 000       | 000       | 514763 54 | 1864711 46 | 30.41273663 | 91 47346500  |            |
| 47.00 | 00.00 | 296.69    | 1847.00 | 979.50  | 0.00                       | 0.00            | 0.00  | 0.00      | 296.69M | 000       | 000       | 514763 54 | 1864711.46 | 38.41273663 | 94 47346500  |            |
| 54.00 | 00.00 | 296.69    | 2164.00 | 1296.50 | 0.00                       | 0.00            | 0.00  | 00.00     | 296 69M | 000       | 000       | 514763 54 | 1864711.46 | 38 41773553 | 000012141000 |            |
| 73.00 | 00.00 | 296.69    | 2173.00 | 1305.50 | 00.00                      | 0.00            | 0.00  | 00.0      | 296.69M | 0.00      | 0.00      | 514763.54 | 1864711.46 | 38.41273663 | -81.47216500 |            |
| 90.00 | 0.00  | 296.69    | 2190.00 | 1322.50 | 0.00                       | 0.00            | 00.00 | 0.00      | 296.69M | 0.00      | 00'0      | 514763.54 | 1864711.46 | 38.41273663 | -81.47216500 |            |
|       |       |           |         |         |                            |                 |       |           |         |           |           |           |            |             |              |            |

| Latitude           | 38 41273683 | 38.41273663 | 38.41273663 | 38.41273663 | 38.41273663 | 38.41273663 | 38 41273663 | 38 41273663 | 38.41273663             | 38.41273663             | 38 41319551 | 38 41325204 | 38.41325314                | 38 41586452 | 38 41591001 | 38 41595342 | 38.41598228            | 38.41639939                 | 38.41661300        | 38.42026500         |    |              |    |
|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------------|-------------------------|-------------|-------------|----------------------------|-------------|-------------|-------------|------------------------|-----------------------------|--------------------|---------------------|----|--------------|----|
| Easting            | 1864711 46  | 1864711.46  | 1864711.46  | 1864711.46  | 1864711.46  | 1864711.46  | 1864711 46  | 1864711 46  | 1864711.46              | 1864711.46              | 1864426 03  | 1864334.35  | 1864333.54                 | 1864586 64  | 1864618 03  | 1864640 03  | 1864658.17             | 1864976.29                  | 1865202.28         | 1869693.56          |    |              |    |
| Northing<br>(#IIS) | 514763.54   | 514763.54   | 514763.54   | 514763.54   | 514763.54   | 514763.54   | 514763.54   | 514763.54   | 514763.54               | 514763.54               | 514906 60   | 514953.15   | 514953.56                  | 515903 23   | 515922.90   | 515935.32   | 515945.74              | 516096.02                   | 516172.66          | 517480.15           |    |              |    |
| TR (*/100ff)       | N/A         | 0.00        | 0.00        | 0.00        | 00.00       | 0.00        | 00.0        | 000         | 00.00                   | 0.00                    | 00 0        | 00.0        | 0.00                       | 6.04        | 2.55        | 2.50        | 2.47                   | 2.27                        | 2.10               | 0.00                |    |              |    |
| BR (*/100ff)       | N/A         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 00.00       | 00.0        | 0.00                    | 0.00                    | 3.00        | 3.00        | 0.00                       | 1.24        | 3.67        | 3.68        | 3.69                   | 3.75                        | 3.79               | 0.00                |    |              |    |
| ₽ €                | 296.69M                 | 296.69M                 | HS          | 오           | 129.95R                    | 32.4R       | 31.94R      | 31.67R      | 31.45R                 | 29.13R                      | £                  |                     |    |              |    |
| DLS                | N/A         | 00.0        | 00.00       | 00.00       | 00.00       | 00.00       | 0.00        | 0.00        | 0.00                    | 00:00                   | 3.00        | 3.00        | 0.00                       | 4.33        | 4.33        | 4.33        | 4.33                   | 4.33                        | 4.33               | 0.00                |    |              |    |
| EW<br>(#3)         | 0.00        | 00.00       | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 00.00                   | 0.00                    | -284.55     | -377.14     | -377.95                    | -124.83     | -92.54      | -71.44      | -53.30                 | 264.84                      | 490.85             | 4982.44             |    |              |    |
| SN €               | 0.00        | 0.00        | 00.00       | 0.00        | 00.00       | 0.00        | 0.00        | 0.00        | 0.00                    | 0.00                    | 143.08      | 189.63      | 190.03                     | 1139.77     | 1159.44     | 1171.87     | 1182.29                | 1332.57                     | 1409.22            | 2716.80             |    |              |    |
| VSEC<br>(#)        | 0.00        | 0.00        | 00:00       | 00.00       | 00.00       | 00.00       | 00.00       | 00.00       | 00.00                   | 00:00                   | -181.33     | -240.33     | -240.85                    | 436.05      | 473.82      | 498.29      | 519.20                 | 870.47                      | 1105.59            | 5675.01             |    |              |    |
| TVDSS<br>(ft)      | -867.50     | -80.50      | 127.50      | 680.50      | 782.50      | 979.50      | 1296.50     | 1305.50     | 1322.50                 | 1432.50                 | 2488.50     | 2630.09     | 2631.21                    | 4165.50     | 4183.50     | 4194.50     | 4203.50                | 4304.50                     | 4323.50            | 4323.50             |    |              |    |
| ΔVT<br>(f)         | 00.0        | 787.00      | 995.00      | 1548.00     | 1650.00     | 1847.00     | 2164.00     | 2173.00     | 2190.00                 | 2300.00                 | 3356.00     | 3497.59     | 3498.71                    | 5033.00     | 5051.00     | 5062.00     | 5071.00                | 5172.00                     | 5191.00            | 5191.00             |    |              |    |
| Azim Grid          | 0.00        | 296.69      | 296.69      | 296.69      | 296.69      | 296.69      | 296.69      | 296.69      | 296.69                  | 296.69                  | 296.69      | 296.69      | 296.69                     | 58.10       | 59.17       | 59.85       | 60.41                  | 68.73                       | 73.77              | 73.77               |    |              |    |
| Incl<br>(°)        | 00.00       | 00.0        | 0.00        | 0.00        | 00.00       | 0.00        | 0.00        | 0.00        | 0.00                    | 0.00                    | 33.57       | 38.83       | 38.83                      | 63.78       | 65.31       | 66.30       | 67.14                  | 80.90                       | 90.00              | 90.00               |    |              |    |
| MD<br>(ft)         | 0.00        | 787.00      | 995.00      | 1548.00     | 1650.00     | 1847.00     | 2164.00     | 2173.00     | 2190.00                 | 2300.00                 | 3418.92     | 3594.44     | 3595.88                    | 5605.92     | 5647.81     | 5674.65     | 5697.42                | 6064.66                     | 6304.40            | 2/0                 | 8/ | 2 <b>@</b>   | 23 |
| Comments           | Surface     | Maxton      | Salt Sands  | Little Lime | Big Injun   | Weir        | Coffee      | Berea       | 13.375" Casing<br>Point | KOP - Build @<br>3° DLS | Lower Huron |             | Build & Tum @<br>4.33° DLS | Marcellus   | Onondaga    | Corniferous | 9.625" Casing<br>Point | Oriskany<br>7" Casing Point | CoCo B 12643<br>LP | CoCo B 12643<br>BHL |    | Survey Type: |    |

-81.47216500 -81.47316058 -81.47348451 -81.47348733

-81.47262090 -81.47250856 -81.47243515 -81.47237203

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| Longitude Directional | Yanu Awai III  |  |  |  |  |  |                               |  |
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| Latitude              |  |  |  |  |  |  |                               |  |
| Easting               |  |  |  |  |  |  |                               |  |
| Northing<br>(#15)     |  |  |  |  |  |  |                               |  |
| BR TR (*/100ft)       |  | Borehole / Survey                      | Original Borehole / TC Energy<br>CoCo B 12643 P2 SLS 07Dec21 | Original Borehole / TC Energy<br>SoCo B 12643 P2 SLS 07Dec21 | Original Borehole / TC Energy<br>SoCo B 12643 P2 SLS 07Dec21 | Original Borehole / TC Energy<br>CoCo B 12643 P2 SLS 07Dec21 | Original Borehole / TC Energy | Original Borehole / TC Energy<br>CoCo B 12643 P2 SLS 07Dec21 |
| DLS TF (°)            |  | Survey Tool Type                       | B006Mb_MWD+IGRF-Depth Only Co                                | B006Mb_MWD+IGRF Co   | B006Mb_MWD+IGRF Co   | B006Mb_MWD+IGRF Co   | B006Mb_MWD+IGRF Co            | BOOGMb_MWD+IGRF Co   |
| EW<br>(ft)            |  | Expected Max<br>Inclination<br>(deg)   | B00  |  |  |  |                               |  |
| NS<br>(#)             |  |  | 18.625   | 18.625   | 13.375   | 9.625  | 7.000                         | 6.125  |
| VSEC<br>(ft)          |  | Hole Size Casing Diameter<br>(in) (in) | 22.000   | 22.000   | 17.500   | 12.250   | 8.500                         | 6.125  |
| TVDSS<br>(ft)         |  | EOU Freq<br>(ft)                       | 1/100.000  | 1/100.000  | 1/100.000  | 1/100.000  | 1/100.000                     | 1/100.000  |
| Δ.Υ.<br>(∰)           | ence 2.7955 sigma                                    | MD To<br>(ft)                          | 21.000   | 750.000  | 2190.000   | 5050.000   | 5790.000                      | 10982.442  |
| Azim Grid             | 95.000% Confide                                      | MD From<br>(ft)                        | 0.000  | 21.000   | 750.000  | 2190.000   | 5050.000                      | 5790.000   |
| Incl<br>(°)           | ISCWSA Rev 3 *** 3-D 95.000% Confidence 2.7955 sigma | Part                                   | -  | -  | -  | -  | _                             | -  |
| MD (#)                | SI   |  |  |  |  |  |                               |  |
|                       | Model:   | scription                              |  |  |  |  |                               |  |

12/08/2023

## WV DEP OFFICE OF OIL & GAS DEEP WELL SAFETY PLAN

### COLUMBIA GAS TRANSMISSION, LLC / TC ENERGY

WV Operator ID 307032

Coco B Storage Well 12643 API Permit No. 47 – 039 – XXXXX – 00 – 00 Surface: James A. & Freda Marie Morton Elk District – Kanawha County, WV

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WV Department of Environmental Protection

Deep Well Safety Plan (rev 03.01.23) prepared by:

By:

Brent Criser

Date:

Signature:

Title: Team Leader - Well Engineering & Technology - Columbia Gas Transmission, LLC

### 4703906401T

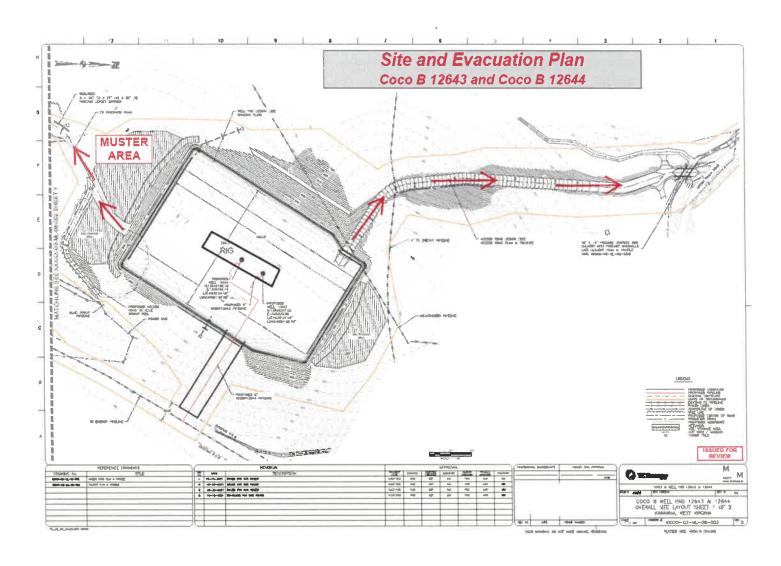
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|  | Kill weight fluids  | 14       |
| Hydrogen Sulfide Operations  | Mixing and fluid pumping equipment                                    | 14       |
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### PRE-SPUD MEETING

| Meeting | Date |  |  |
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|         |      |  |  |

| <u>Name</u> | Company              | <u>Title</u>  |
|-------------|----------------------|---|
|             | Columbia / TC Energy | Director – STS                                      |
|             | Columbia / TC Energy | Manager – WET                                       |
|             | Columbia / TC Energy | Engineer – WET                                      |
|             | Columbia / TC Energy | $\overline{	ext{Well Tech}} - \overline{	ext{WET}}$ |
|             | Columbia / TC Energy | Well Tech – WET                                     |
|             | Columbia / TC Energy | Manager – REG                                       |
|             | Columbia / TC Energy | Engineer – REG                                      |
|             | Columbia / TC Energy | Geologist – REG                                     |
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### ACCESS CONTROL REPORT

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### SAFETY MEETING SCHEDULE

| <u>Date</u> | Head Count     | Safety Topics Discussed |
|-------------|----------------|-------------------------|
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#### **CONTACTS and TELEPHONE NUMBERS**

#### **Emergency**

County/State<br/>Kanawha Co, WVFire<br/>911EMS<br/>911Police<br/>911

#### Non-emergency

Pinch Volunteer Fire Dept 304-965-1657

CAMC Memorial Hospital 304-388-5432 3200 MacCorkle Ave SE Charleston, WV 25304

Left on I-79S to Charleston

Merge onto I-77S

Exit 98 for 35th St. Bridge Right on MacCorkle Ave SE

Right on 31st St SE

**Incident Reporting** 

Columbia Operations Monitoring Center 800-835-7191

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Spill Reporting

Columbia Operations Monitoring Center

800-835-7191

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WV DEP – Office of Oil & Gas

800-642-3074

WV Department of Environmental Protection

Material Safety Data Sheets (MSDS)

3E Hotline (24 hour service) 800-451-8346

#### TC Energy / Columbia Personnel

| Name            | <b>Office</b> | Cell         | <b>Home</b>  |
|-----------------|---------------|--------------|--------------|
| Brent Criser    | 740-746-2251  | 740-503-8231 |              |
| Maria Medvedeva | 304-410-4313  | 304-410-4313 | 907-978-2684 |
| Steve Simmons   | 304-373-2413  | 304-590-5528 | 304-373-9997 |
| Nathan Salyers  | 681-230-3026  | 304-932-5831 |              |

#### Rig and Crew

#### WV DEP O&G State Inspector

Kanawha County Terry Urban cell: 304-549-5915

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#### WELL CONSTRUCTION PROGRAM

#### **General Well Information**

Storage Well:

Coco B 12643

API Permit:

47 - 037 - xxxxx - 00 - 00

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Surface Owner:

James and Freda Marie Morton

WV Department of Environmental Protection

Lease:

Matt Amos, et al (surface)

Matt Amos, et al (bottom-hole)

Surface Location:

Coco B, Blue Creek Quad, Elk District, Kanawha County, WV

Elevation:

Pre Site Prep: 856 ft GL Post Site Prep: 846 ft GL

Rig KB:

867 ft (21 ft above GL)

Directions to well (current access):

From Charleston, take I-79N

Exit 5 for Big Chimney. Turn Right off exit.

Follow Rt.114 to intersection. At the stop sign go straight.

Turn Left on Indian Creek Rd at light Follow Indian Creek Rd for 3.3 miles

Turn Left on S Pinch Rd

Turn Right on Pinewood Rd. Follow Pinewood Rd to cattle guard.

Wellsite is at the top of the hill.

Proposed new access road:

From Charleston, take I-79N

Exit 5 for Big Chimney. Turn Right off exit.

Follow Rt.114 to intersection. At the stop sign go left on Pennsylvania.

Follow Pennsylvania Ave to N Pinch Rd. Turn Right.

From N Pinch Rd, turn left on New Hope Rd.

Take first Right to Upper Pinch Rd.

New wellpad access road will be on the right off Stella Dr.

#### **Concise Procedure**

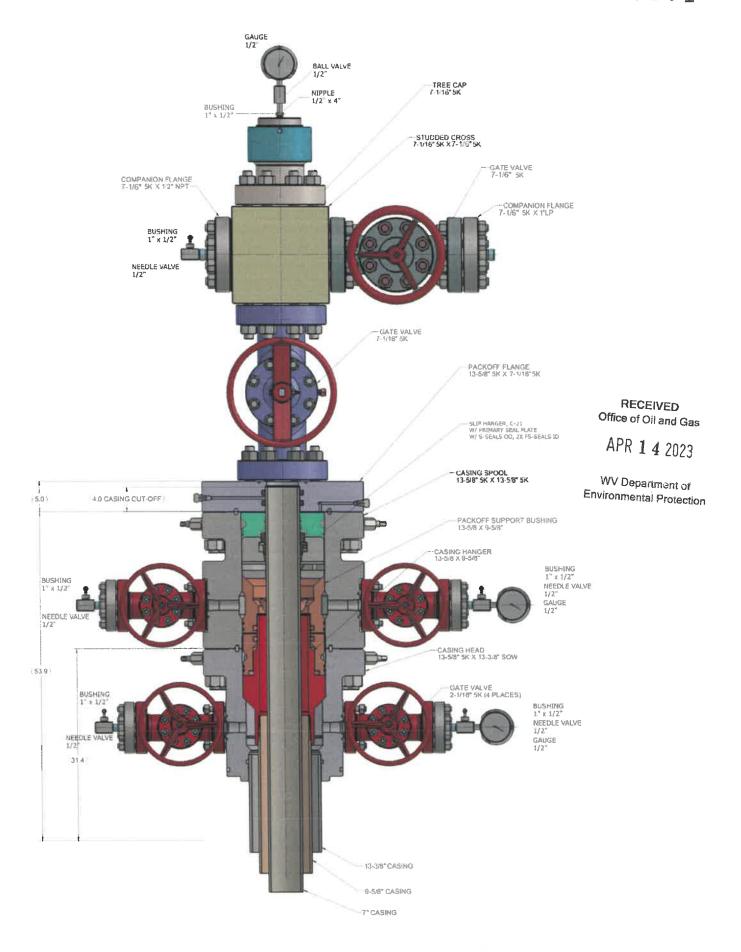
Spud and seat 40 ft GL of 24" conductor pipe. Drill 22" hole to +/-750 ft GL. Run 18-5/8" casing to minimum depth of 750 ft GL (60 ft below deepest fresh water) and cement to surface. Drill 17-1/2" hole to +/-2170 ft GL. Run 13-3/8" casing to a minimum depth of 2170 ft GL and cement to surface. Drill 12-1/4" hole to kick-off point at ~2280' MD GL. Directionally drill to a depth of ~50 ft into the Onondaga at +/-5677' ft MD GL (5051' TVD GL). Run 9-5/8" casing and cement to a 500' overlap into the 13-3/8" casing.

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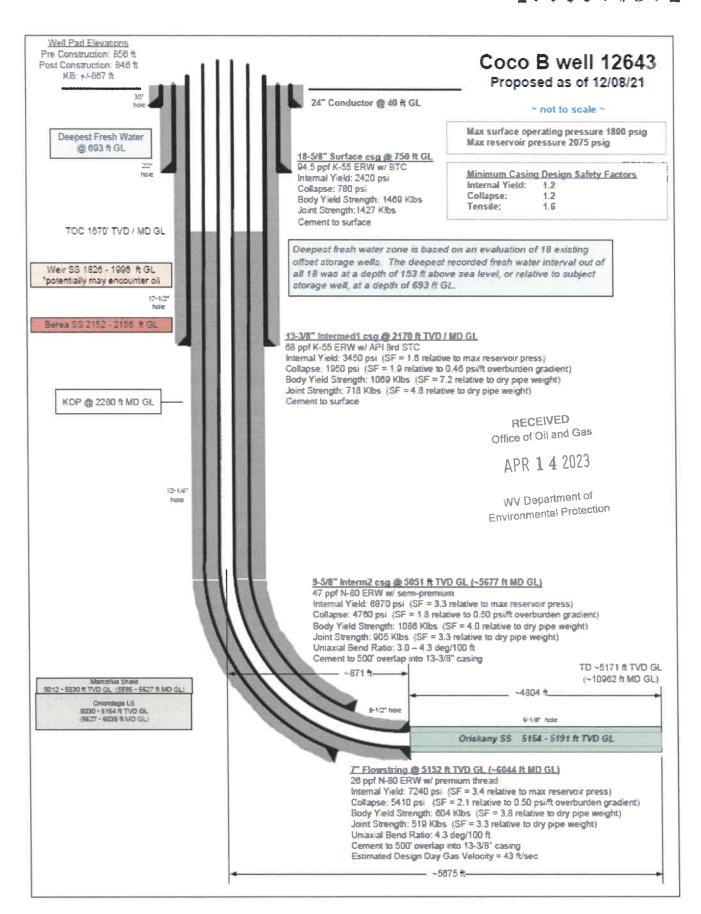
Run cement bond log. Directionally drill 8-1/2" hole into the top of the Oriskany +/- 6044' MD GL (5152' TVD GL). Run 7" casing and also cement to a 500' overlap into the 13-3/8" casing. Run cement bond log. Drill 6-1/8" horizontally through the Oriskany reservoir section to well TD of +/- 10962' MD GL (5171' TVD GL). Install wellhead equipment. Acid stimulate openhole reservoir section using 10,000 gallons HCl acid.

| Casing Program  |         |                             |                       |          |          |            |
|-----------------|---------|-----------------------------|-----------------------|----------|----------|------------|
| Туре            | Size    | Planned<br>Setting<br>Depth | Depth Relation        | Weight   | Grade    | Cement Top |
| Conductor       | 24"     | 40 ft GL                    |                       |          |          | surface    |
| Surface         | 18-5/8" | 750 ft GL                   | 60' below fresh water | 94.5 ppf | K-55 ERW | surface    |
| Intermediate #1 | 13-3/8" | 2170 ft GL                  | 30' below Berea       | 68 ppf   | K-55 ERW | surface    |
| Intermediate #2 | 9-5/8"  | 5677 ft GL                  | 50' below Marcellus   | 47 ppf   | N-80 ERW | 1670' MD/  |
|                 |         |                             |                       |          |          | TVD        |
| Flow String     | 7"      | 6044 ft GL                  | Oriskany top          | 26 ppf   | N-80 ERW | 1670' MD / |
|                 |         |                             |                       |          |          | TVD        |

| Formation               | Tops (TVD)  | Base  | Comments                   | RECEIVED   |
|-------------------------|-------------|-------|----------------------------|--|
| <u>roimation</u>        | 10ps (1 vD) | (TVD) | Off                        | ice of Oil and Gas   |
|                         |             |       | Į.                         | PR 1 4 2023  |
| Salt Sand               | 974         | 1387  | Sandstone                  |  |
| Maxton                  | 766         | 1496  |                            | /V Department of<br>ronmental Protection   |
| Little Lime             | 1527        | 1561  | Limestone                  | Name of the last o |
| Big Lime                | 1581        | 1621  | Limestone                  |  |
| Big Injun               | 1629        | 1739  | Sandstone                  |  |
| Weir                    | 1826        | 1996  | Sandstone - potentially ma | y encounter  |
|                         |             |       | oil                        |  |
| Coffee                  | 2143        | 2152  | Shale                      |  |
| Berea                   | 2152        | 2156  | Sandstone                  |  |
| Lower Huron             | 3335        | 4147  | Shale                      |  |
| Marcellus               | 5012        | 5030  | Shale                      |  |
| Onondaga                | 5030        | 5041  | Limestone                  |  |
| Corniferous (portion of | 5041        | 5154  | Limestone                  |  |
| Onon)                   |             |       |                            |  |
| Oriskany                | 5154        | 5191  | Sandstone                  |  |



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#### **BOP EQUIPMENT**

#### Description of BOP's to be Installed on each Casing String

Casing – 24"

Diverter

Casing - 18-5/8"

BOP Type: Double Ram and Annular

Size: 18"

Pressure Rating: 5000 psi

Casing - 13-3/8"

BOP Type: Double Ram and Annular

Size: 13"

Pressure Rating: 5000 psi

Casing - 9-5/8"

BOP Type: Double Ram and Annular

Size: 7-1/16"

Pressure Rating: 5000 psi

Casing - 7"

BOP Type: Double Ram and Annular

Size: 7-1/16"

Pressure Rating: 5000 psi

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WV December of Environments: Projection

#### **BOP Installation and Pressure Testing**

1. The 18" BOP will be installed when nippling up on the 18-5/8" casing. BOPs to be pressure tested low/high per API recommended practices.

- 2. The 13" BOP will be installed when nippling up on the 13-3/8" casing. BOPs to be pressure tested low/high per API recommended practices.
- 3. The 13" BOP stack will be installed when nippling up on the 9-5/8" casing. BOPs to be pressure tested low/high per API recommended practices.
- 4. The 13" BOP stack will be installed when nippling up on the 7" casing. BOPs to be pressure tested low/high per API recommended practices.

#### Personnel with IADC Well Control Certifications

| Maria Medvedeva (IADC Wild Well Control) Tool Pusher Consultant Consultant | Brent Criser Steve Simmons Nathan Salyers Maria Medvedeva | Consultant |
|--|---|------------|
|--|---|------------|

#### Recording of Significant Drilling Events

A detailed record of significant drilling events will be recorded in Columbia Gas' well log book or in their digital morning reporting system. The State inspector will be notified upon any significant events, including but not limited to: encountering hydrogen sulfide gas and well control events.

#### WELL FLARING OPERATIONS

#### Flare Line Installation

1. Flaring operations are not planned. In the event of a well control situation that warrants flaring, a minimally rated 5000 psi double choke manifold with 4-1/2" panic line and 3-1/2" choke lines will be installed. The lines will be a minimum of 175 ft in length. They will be securely anchored with chains to fixed objects and/or buried.

#### Ignition Methods and Notification

- 1. Primary Electronic.
- 2. Backup Marine flare pistol.

\* Local fire department will be notified prior to flaring operations.

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#### Minimum Distance of Clearing of Flammable Material

All flammable material will be kept a minimum distance of 150 ft from flare.

#### **WELL KILLING OPERATIONS**

In the event well killing operations are required, industry accepted best practices will be utilized. There will be at minimum one person on site at all times that holds an IADC Well Control Certification.

#### Inventory of Materials to be used to Mix Kill Weight Fluid

Maximum reservoir pore pressure is 2075 psig for Coco B Storage field. A column of fresh water (8.33 ppg) at reservoir depth will exert 2229 psi in hydrostatic pressure. This creates an overbalance of >150 psi.

There will be approximately 300 bbls of pre-mixed viscosified drilling fluid on site, and a minimum of 300 bbls of fresh water. Additives and chemicals sufficient to mix 300 bbls drilling fluid will be stored on site, and extra material available at Paragon Drilling Fluids in Newcomerstown, OH.

#### Mixing and Fluid Pumping

Either rig mud pumps or dispatched service company will be utilized for mud mixing and pumping in the event of a well control event.

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#### **HYDROGEN SULFIDE OPERATIONS**

Wind socks to be present on site to detect direction of prevailing winds.

#### Monitoring

Mobile monitors will be utilized to detect the presence of H<sub>2</sub>S. A detector will be kept in the dog house for use by rig personnel to monitor rig floor and cellar area. Columbia Gas personnel will wear personal monitors at all times.

#### Training

Personnel involved in drilling operations will be trained in H2S in drilling operations to a minimum awareness level, to be completed prior to spudding the well.

#### Notification and Control

If H<sub>2</sub>S is detected, all work will cease and personnel on site will be immediately evacuated to a pre-determined muster point until a more comprehensive assessment of source, concentration, and atmospheric conditions are completed.

The WV DEP Office of Oil and Gas, including the local inspector, will be notified of incident.

In the event the existence of H<sub>2</sub>S cannot be alleviated from the work site, Columbia will implement an emergency response plan to secure the site, contract a 3<sup>rd</sup> party H<sub>2</sub>S monitoring service to administer a safety program, and provide formal training to all personnel involved in future activities.

#### Public Notification

The implementation of the emergency response plan will assess the need to notify and evacuate local residence and the general public as deemed appropriate. Atmospheric conditions will be continuously monitored to adjust safe zone perimeters.

#### Emergency Responders

Emergency responders will be briefed prior to entering site to ensure they are aware and properly trained to respond to an  $H_2S$  release event.

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#### Oil&Gas

Wells, Horizontal Only

#### WellStatus





- Permit Application
- Plugged

#### Wells, Active Status Only

#### WellUse

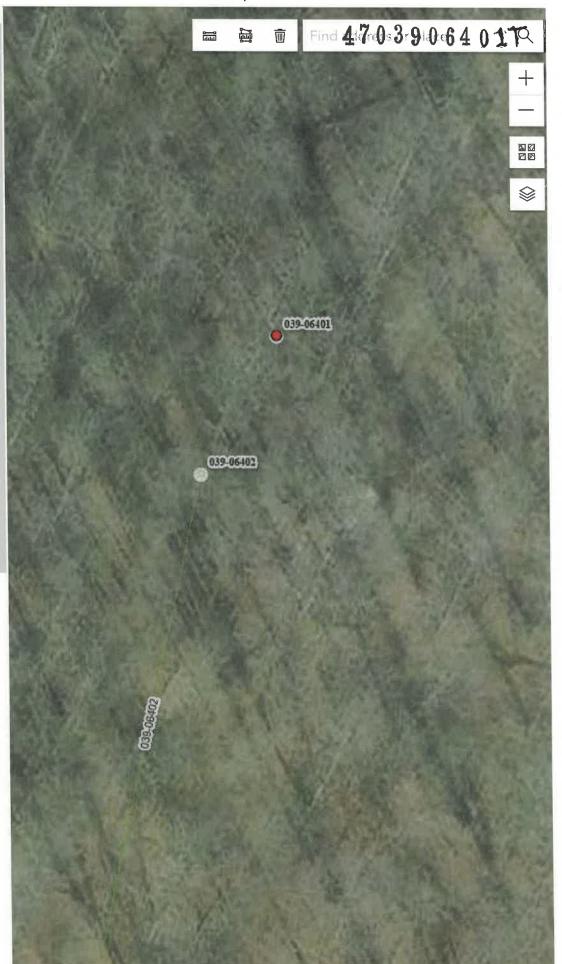
- A Brine Disposal
- Fluid Injection
- Gas Production
  - House Gas
- Observation
- Oil Production
- Production
- Solution Mining
- Storage
- Vent
- <all other values>

#### Wells, Other than Active Status

#### WellUse

- Brine Disposal
- 🖄 Fluid Injection
- Gas Production
- House Gas
- Observation
- Oil Production
- Production
- Solution Mining
- Storage
- Vent
- <all other values>

Wells, Not in DEP Database



12/08/2023

Wells, Plugged



12/5/23, 10:17 AM

#### Oil&Gas

Wells, Horizontal Only

#### WellStatus

- Active Well
- Permit Issued
- Permit **Application**
- Plugged

#### Wells, Active Status Only

#### WellUse

- Brine Disposal
- Fluid Injection
- Gas Production
- House Gas
- Observation
- Oil Production
- Production
- Solution Mining
- Storage
- Vent
- <all other values>

#### Wells, Other than **Active Status**

#### WellUse

- Brine Disposal
- Fluid Injection
- Gas Production
- House Gas
- Observation
- Oil Production
- Production
- Solution Mining
- Storage
- Vent 0
- <all other values>

4703906401T John Still Mile Find address or place BM 516 Potato Fork Woody Oil Gas Well 6401 Well Gas Well Gas. Oil Well Pinch Gas Gas Qir Wells Well

WVDEP OOG permit locator

Wells, Not in DEP Database

12/08/2023

begin date

end date

rainfall total

update

| TOPOGRAPHIC MAPS ( 7 ½")   | ATES (NAD83)  | Latitude: 38° 25' 00"  | 4  |
|--|---|--|--|
| (NAD83)  |   |  | $\mathbf{I}$   |
|  | ROPOSED LANDING POINT ————————————————————————————————————  | 00<br>2  | 1  |
| (UTM METERS NAD83)   | AD83<br>AT: N 38'25'00"   | θ  | 1-   |
| F: 458.792.2'  | ONG: W 81'28'13"  | -  |  |
| N:   | TM METERS (NAD83) : 4,252,156.2'  | PROPOSED ROTTOM_HOLE LOCATION  |  |
| ( <del>)</del>   | : 458,942.0'<br>OTAL DEPTH: 5,178' TVD 8,748' MD  | (STORAGE WELL 12643) NAD83 LAT: N 38'25'13" LONG: W 81'27'17" UTM METERS (NAD83)   |  |
| Z N JAMES A. AND FREDA MORTON—   | ROGER L. & PAULA D. SHAFER DEED BOOK 2213, PAGE 431   | LAT: N 38'25'13" LONG: W 81'27'17"   |  |
| DEED BOOK 1996, PAGE 448 PID 15 29014600040000   | PID 15 29F0022000000000   | UTM METERS (NAD83) N: 4,252,554,5'   |  |
| JAMES A. AND FREDA MORTON DEED BOOK 1996, PAGE 448 PID 15 29014600040000 GAS WELL 07079 ID 030307079 API 4703901329 MARK STALEY & KRYSTAL ROBERTON DEED BOOK 2933, PAGE 767 PID 15 29009400000000  | GAS WELL 07076<br>ID 030307076<br>API 470390009510000   | E: 460,310.5' TOTAL DEPTH: 5,178' TVD 8,748' MD  |  |
| API 4703901329 MARK STALEY & KRYSTAL ROBERTON DEED BOOK 2933, PAGE 767   |   |  |  |
| PID 15 29009400000000  |   | 4676   |  |
| Grid   | 73  | 45'57" E 4676'   | 1  |
| JOHN L & DONNA L BRANNO<br>DEED BOOK 2887, PAGE 523  |   | 45 5.  | 1  |
| PID 15 29014600050000<br>FREDA MORTON  |   | 61.24.33° E 5613   | 1  |
| FREDA MORTON DEED BOOK 1092, PAGE 271 PID 15 29014500000000  | HE RICH BONES   | 6,   |  |
| GAS WELL 07229<br>ID 030307229<br>API 47039009320000   | UPPER PINCH ROAD  | GAS WELL 07099<br>— ID 030307099   |  |
| PROPERTY CORNER-FOUND 1" IRON PIPE   |   | API 47039012950000   | 1  |
| FOUND I IRON PIPE  |   | PROPOSED SURFACE HOLE LOCATION   | .  |
| JAMES A. & N. BEEF AT MA   | VI3-7   | (STORAGE WELL 12643)<br>NAD83  |  |
| COCOL MADE MODERN  | ***   | LAT: N 38"24"46" LONG: W 81"28"19"   |  |
| a / Tiver W  |   | UTM METERS (NAD83)<br>N: 4,251,762.8'  | ₹  |
|  | 1 1 1   | E: 458,792.2'<br>TOTAL DEPTH: 5,178' TVD 8,748' M  | 9:59   |
| 1 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2  |   | 101AL DEFIN: 3,170 140 0,740 M   | 2023   |
| charter death  | S 12 55 59 E  | GENE SPANGLER & JOSEPHINE SPANGLER<br>ED BOOK 2046, PAGE 641   | 10/20/2023   |
| 9 //6  |   | 0 15 29014900020000<br>IS WELL 07043   |  |
| PROPERTY CORNER FOUND \$" IRON ROD GAS W   | DITTE COOLD   | 030307043<br>01 47039009330000   | ÄË   |
| W/ CAP (WILKINSON PD #52) / D 03   | 0307230 API 47039050E30000<br>7039008220000 JARRETT 17  |  | PLOT   |
| S 36'23'02" W 644'   |   |  | ٦  |
| GAS WELL 07096 ————————————————————————————————————  |   |  | ဋ  |
| API 47039012600000   |   |  | 15   |
| PATRICK A. & DELORES H. TAYLOR   | NOTES:  |  | MILD   |
| PATRICK A. & DELORES H. TAYLOR<br>DEED BOOK 2286, PAGE 453<br>PID 15 38B007300000000   | NOTES: 1. THIS PLAT HAS BEEN PREPARED FROM 2. NO BUILDINGS OR WELLS LOCATED WIT   | DEEDS AND TAX MAPS NOT A BOUNDARY SURVE  | OVERALL.D  |
| DEED BOOK 2286, PAGE 453<br>PID 15 38B007300000000   | THIS PLAT HAS BEEN PREPARED FROM     NO BUILDINGS OR WELLS LOCATED WIT     I, THE UNDERSIGNED, HEREBY CE  | HIN 200'   | PLAT_OVERALL.D   |
| DEED BOOK 2286, PAGE 453<br>PID 15 38B007300000000   | THIS PLAT HAS BEEN PREPARED FROM     NO BUILDINGS OR WELLS LOCATED WIT      I, THE UNDERSIGNED, HEREBY CE     PLAT IS CORRECT TO THE BEST OF M     BELIEF AND SHOWS ALL THE INFORMA   | HIN 200' RTIFY THAT THIS Y KNOWLEDGE AND TION REQUIRED BY  | OS\PLAT_OVERALL.D  |
| DEED BOOK 2286, PAGE 453 PID 15 38B007300000000  FILE #  DRAWING # 12643   | THIS PLAT HAS BEEN PREPARED FROM     NO BUILDINGS OR WELLS LOCATED WIT      I, THE UNDERSIGNED, HEREBY CE     PLAT IS CORRECT TO THE BEST OF M  | HIN 200' RTIFY THAT THIS Y KNOWLEDGE AND TION REQUIRED BY ND PRESCRIBED BY   | 230605\PLAT_OVERALL.D\   |
| DEED BOOK 2286, PAGE 453 PID 15 38B007300000000  FILE #  DRAWING # 12643  SCALE: 1" = 1200'  | 1. THIS PLAT HAS BEEN PREPARED FROM 2. NO BUILDINGS OR WELLS LOCATED WIT  1, THE UNDERSIGNED, HEREBY CE PLAT IS CORRECT TO THE BEST OF M BELIEF AND SHOWS ALL THE INFORMA LAW AND THE REGULATIONS ISSUED A THE DEPARTMENT OF ENVIRONMENTAL  | HIN 200' RTIFY THAT THIS Y KNOWLEDGE AND TION REQUIRED BY ND PRESCRIBED BY   | s_20230605\PLAT_0VERALL.D\   |
| DEED BOOK 2286, PAGE 453 PID 15 38B007300000000  FILE #  DRAWING #12643  SCALE:1" = 1200'  MINIMUM DEGREE OF ACCURACY:1:2,500'   | 1. THIS PLAT HAS BEEN PREPARED FROM 2. NO BUILDINGS OR WELLS LOCATED WIT  1, THE UNDERSIGNED, HEREBY CE PLAT IS CORRECT TO THE BEST OF M BELIEF AND SHOWS ALL THE INFORMA LAW AND THE REGULATIONS ISSUED A THE DEPARTMENT OF ENVIRONMENTAL Signed:  | HIN 200' RTIFY THAT THIS Y KNOWLEDGE AND TION REQUIRED BY ND PRESCRIBED BY PROTECTION.   | PLATS_20230605\PLAT_OVERALL.DV   |
| DEED BOOK 2286, PAGE 453 PID 15 38B007300000000  FILE #  DRAWING # 12643  SCALE: 1" = 1200'  | 1. THIS PLAT HAS BEEN PREPARED FROM 2. NO BUILDINGS OR WELLS LOCATED WIT  1, THE UNDERSIGNED, HEREBY CE PLAT IS CORRECT TO THE BEST OF M BELIEF AND SHOWS ALL THE INFORMA LAW AND THE REGULATIONS ISSUED A THE DEPARTMENT OF ENVIRONMENTAL  | HIN 200' RTIFY THAT THIS Y KNOWLEDGE AND TION REQUIRED BY ND PRESCRIBED BY PROTECTION.   | EW PLATS_20230605\PLAT_OVERALL.DV  |
| DEED BOOK 2286, PAGE 453 PID 15 38B007300000000  FILE #  DRAWING # 12643  SCALE: 1" = 1200'  MINIMUM DEGREE OF ACCURACY: 1:2,500'  PROVEN SOURCE OF ELEVATION: WITH TIES TO NGS DATA  +) DENOTES LOCATION OF WELL ON   | 1. THIS PLAT HAS BEEN PREPARED FROM 2. NO BUILDINGS OR WELLS LOCATED WIT  1, THE UNDERSIGNED, HEREBY CE PLAT IS CORRECT TO THE BEST OF M BELIEF AND SHOWS ALL THE INFORMA LAW AND THE REGULATIONS ISSUED A THE DEPARTMENT OF ENVIRONMENTAL Signed:  R.P.E.:  LL.S.:   | HIN 200' RTIFY THAT THIS Y KNOWLEDGE AND TION REQUIRED BY ND PRESCRIBED BY PROTECTION.  2252  PLACE SEAL HERE  | TS\NEW PLATS_20230605\PLAT_OVERALL.DV  |
| DEED BOOK 2286, PAGE 453 PID 15 38B007300000000  FILE #  DRAWING # 12643  SCALE: 1" = 1200'  MINIMUM DEGREE OF ACCURACY: 1:2,500'  PROVEN SOURCE OF ELEVATION: WITH TIES TO NGS DATA  +) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  | 1. THIS PLAT HAS BEEN PREPARED FROM 2. NO BUILDINGS OR WELLS LOCATED WIT  1, THE UNDERSIGNED, HEREBY CE PLAT IS CORRECT TO THE BEST OF M BELIEF AND SHOWS ALL THE INFORMA LAW AND THE REGULATIONS ISSUED A THE DEPARTMENT OF ENVIRONMENTAL Signed:  R.P.E.:  DATE:  | HIN 200' RTIFY THAT THIS Y KNOWLEDGE AND TION REQUIRED BY ND PRESCRIBED BY PROTECTION.  2252  PLACE SEAL HERE  | DPLATS\NEW PLATS_20230605\PLAT_OVERALL.DV  |
| PILE #   | 1. THIS PLAT HAS BEEN PREPARED FROM 2. NO BUILDINGS OR WELLS LOCATED WIT  1, THE UNDERSIGNED, HEREBY CE PLAT IS CORRECT TO THE BEST OF M BELIEF AND SHOWS ALL THE INFORMA LAW AND THE REGULATIONS ISSUED A THE DEPARTMENT OF ENVIRONMENTAL Signed:  R.P.E.:  DATE:  OPERAT  | HIN 200' RTIFY THAT THIS Y KNOWLEDGE AND TION REQUIRED BY IND PRESCRIBED BY PROTECTION.  2252  PLACE SEAL HERE  12-10-21  OR'S WELL #: 12643   | LANDPLATS\NEW PLATS_20230605\PLAT_OVERALLD   |
| DEED BOOK 2286, PAGE 453 PID 15 38B007300000000  FILE #  DRAWING # 12643  SCALE: 1" = 1200'  MINIMUM DEGREE OF ACCURACY: 1:2,500'  PROVEN SOURCE STATIC GPS SURVEY OF ELEVATION: WITH TIES TO NGS DATA  +) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET  | 1. THIS PLAT HAS BEEN PREPARED FROM 2. NO BUILDINGS OR WELLS LOCATED WIT  1, THE UNDERSIGNED, HEREBY CE PLAT IS CORRECT TO THE BEST OF M BELIEF AND SHOWS ALL THE INFORMA LAW AND THE REGULATIONS ISSUED A THE DEPARTMENT OF ENVIRONMENTAL Signed:  R.P.E.:  DATE:  OPERAT  | HIN 200' RTIFY THAT THIS Y KNOWLEDGE AND TION REQUIRED BY IND PRESCRIBED BY PROTECTION.  2252  PLACE SEAL HERE  12-10-21  TOR'S WELL #: 12643  LL #: 47  039  64417  | TING\LANDPLATS\NEW PLATS_20230605\PLAT_OVERALL.DV  |
| PILE #   | 1. THIS PLAT HAS BEEN PREPARED FROM 2. NO BUILDINGS OR WELLS LOCATED WIT  1, THE UNDERSIGNED, HEREBY CE PLAT IS CORRECT TO THE BEST OF M BELIEF AND SHOWS ALL THE INFORMA LAW AND THE REGULATIONS ISSUED A THE DEPARTMENT OF ENVIRONMENTAL Signed:  R.P.E.:  DATE:  OPERAT  API WEI   | HIN 200' RTIFY THAT THIS Y KNOWLEDGE AND TION REQUIRED BY IND PRESCRIBED BY PROTECTION.  2252  PLACE SEAL HERE  12-10-21  OR'S WELL #: 12643   | DRAFTING\LANDPLATS\NEW PLATS_20230605\PLAT_OVERALLD  |
| DEED BOOK 2286, PAGE 453 PID 15 38B007300000000  FILE #  DRAWING # 12643  SCALE: 1" = 1200' MINIMUM DEGREE OF ACCURACY: 1:2,500' PROVEN SOURCE STATIC GPS SURVEY OF ELEVATION: WITH TIES TO NGS DATA +) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304  Well Type:  | 1. THIS PLAT HAS BEEN PREPARED FROM 2. NO BUILDINGS OR WELLS LOCATED WIT  1, THE UNDERSIGNED, HEREBY CE PLAT IS CORRECT TO THE BEST OF M BELIEF AND SHOWS ALL THE INFORMA LAW AND THE REGULATIONS ISSUED A THE DEPARTMENT OF ENVIRONMENTAL Signed:  R.P.E.:  DATE:  OPERAT  API WEI  Production Deep  | HIN 200' RTIFY THAT THIS Y KNOWLEDGE AND TION REQUIRED BY IND PRESCRIBED BY PROTECTION.  2252  PLACE SEAL HERE  12-10-21  TOR'S WELL #: 12643  LL #: 47  039  64417  | JNE\DRAFTING\LANDPLATS\NEW PLATS_20230605\PLAT_OVERALL.DV  |
| DEED BOOK 2286, PAGE 453 PID 15 38B0073000000000  FILE #  DRAWING # 12643  SCALE: 1" = 1200'  MINIMUM DEGREE OF ACCURACY: 1:2,500'  PROVEN SOURCE STATIC GPS SURVEY OF ELEVATION: WITH TIES TO NGS DATA +) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP  OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304  Well Type: 10il Waste Disposal  | 1. THIS PLAT HAS BEEN PREPARED FROM 2. NO BUILDINGS OR WELLS LOCATED WIT  1, THE UNDERSIGNED, HEREBY CE PLAT IS CORRECT TO THE BEST OF M BELIEF AND SHOWS ALL THE INFORMA LAW AND THE REGULATIONS ISSUED A THE DEPARTMENT OF ENVIRONMENTAL  Signed:  R.P.E.:  DATE:  OPERAT  API WEI  Storage  Storage  | HIN 200' RTIFY THAT THIS Y KNOWLEDGE AND TION REQUIRED BY ND PRESCRIBED BY PROTECTION.  2252  PLACE SEAL HERE  12-10-21  TOR'S WELL #: 12643  LL #: 47 039 06 401 T STATE COUNTY PERMIT  | PIPELINE\DRAFTING\LANDPLATS\NEW PLATS_20230605\PLAT_OVERALL.DV   |
| DEED BOOK 2286, PAGE 453 PID 15 38B007300000000  FILE #  DRAWING # 12643  SCALE: 1" = 1200' MINIMUM DEGREE OF ACCURACY: 1:2,500' PROVEN SOURCE STATIC GPS SURVEY OF ELEVATION: WITH TIES TO NGS DATA +) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304  Well Type:  | 1. THIS PLAT HAS BEEN PREPARED FROM 2. NO BUILDINGS OR WELLS LOCATED WIT  1, THE UNDERSIGNED, HEREBY CE PLAT IS CORRECT TO THE BEST OF M BELIEF AND SHOWS ALL THE INFORMA LAW AND THE REGULATIONS ISSUED A THE DEPARTMENT OF ENVIRONMENTAL  Signed:  R.P.E.:  DATE:  OPERAT  API WEI  Storage  Storage  | HIN 200' RTIFY THAT THIS Y KNOWLEDGE AND TION REQUIRED BY ND PRESCRIBED BY PROTECTION.  2252  PLACE SEAL HERE  12-10-21  TOR'S WELL #: 12643  LL #: 47 039 06 401 T STATE COUNTY PERMIT  | LLS\PIPELINE\DRAFTING\LANDPLATS\NEW PLATS_20230605\PLAT_OVERALL.DY   |
| FILE   PID 15 38B0073000000000  FILE   DRAWING   12643  SCALE: 1" = 1200'  MINIMUM DEGREE OF ACCURACY: 1:2,500'  PROVEN SOURCE STATIC GPS SURVEY OF ELEVATION: WITH TIES TO NGS DATA  +) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304  Well Type: □ Oil □ Waste Disposal  ☑ Gas □ Liquid Injection  WATERSHED: COOPERS CREEK—EL COUNTY/DISTRICT: 039—KANA   | 1. THIS PLAT HAS BEEN PREPARED FROM 2. NO BUILDINGS OR WELLS LOCATED WIT  1, THE UNDERSIGNED, HEREBY CE PLAT IS CORRECT TO THE BEST OF M BELIEF AND SHOWS ALL THE INFORMA LAW AND THE REGULATIONS ISSUED A THE DEPARTMENT OF ENVIRONMENTAL Signed:  R.P.E.:  DATE:  OPERAT  API WEI  Production  Deep Storage  Shallow  K RIVER (050500070908)  EI WHA / 4-ELK OUADRANGIF:  | HIN 200' RTIFY THAT THIS Y KNOWLEDGE AND TION REQUIRED BY IND PRESCRIBED BY PROTECTION.  2252  PLACE SEAL HERE  12-10-21  OR'S WELL #: 12643  LL #: 47 039 06 401 T STATE COUNTY PERMIT  LEVATION: 856' 258-BLUE CREEK   | WELLS\PIPELINE\DRAFTING\LANDPLATS\NEW PLATS_20230605\PLAT_OVERALL.DY   |
| FILE   PID 15 38B0073000000000  FILE   DRAWING   12643  SCALE: 1" = 1200'  MINIMUM DEGREE OF ACCURACY: 1:2,500'  PROVEN SOURCE STATIC GPS SURVEY OF ELEVATION: WITH TIES TO NGS DATA  +) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304  Well Type: □ Oil □ Waste Disposal  ☑ Gas □ Liquid Injection  WATERSHED: COOPERS CREEK—EL COUNTY/DISTRICT: 039—KANA   | 1. THIS PLAT HAS BEEN PREPARED FROM 2. NO BUILDINGS OR WELLS LOCATED WIT  1, THE UNDERSIGNED, HEREBY CE PLAT IS CORRECT TO THE BEST OF M BELIEF AND SHOWS ALL THE INFORMA LAW AND THE REGULATIONS ISSUED A THE DEPARTMENT OF ENVIRONMENTAL Signed:  R.P.E.:  DATE:  OPERAT  API WEI  Production  Deep Storage  Shallow  K RIVER (050500070908)  EI WHA / 4-ELK OUADRANGIF:  | HIN 200' RTIFY THAT THIS Y KNOWLEDGE AND TION REQUIRED BY IND PRESCRIBED BY PROTECTION.  2252  PLACE SEAL HERE  12-10-21  OR'S WELL #: 12643  LL #: 47 039 06 401 T STATE COUNTY PERMIT  LEVATION: 856' 258-BLUE CREEK   | NEW_WELLS\PIPELINE\DRAFTING\LANDPLATS\NEW PLATS_20230605\PLAT_OVERALL.DV   |
| FILE   PID 15 38B0073000000000  FILE   DRAWING   12643  SCALE: 1" = 1200'  MINIMUM DEGREE OF ACCURACY: 1:2,500'  PROVEN SOURCE STATIC GPS SURVEY OF ELEVATION: WITH TIES TO NGS DATA  +) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304  Well Type: □ Oil □ Waste Disposal  ☑ Gas □ Liquid Injection  WATERSHED: COOPERS CREEK—EL COUNTY/DISTRICT: 039—KANA   | 1. THIS PLAT HAS BEEN PREPARED FROM 2. NO BUILDINGS OR WELLS LOCATED WIT  1, THE UNDERSIGNED, HEREBY CE PLAT IS CORRECT TO THE BEST OF M BELIEF AND SHOWS ALL THE INFORMA LAW AND THE REGULATIONS ISSUED A THE DEPARTMENT OF ENVIRONMENTAL Signed:  R.P.E.:  DATE:  OPERAT  API WE  Storage Shollow  K RIVER (050500070908)  KWHA / 4-ELK QUADRANGLE: FREDA MARIE MORTON  ALTY OWNER MATT AMOS. ET AL   | HIN 200' RTIFY THAT THIS Y KNOWLEDGE AND TION REQUIRED BY ND PRESCRIBED BY PROTECTION.  2252  PLACE SEAL HERE  12–10–21  TOR'S WELL #: 12643  LL #: 47 039 06 401 T STATE COUNTY PERMIT  LEVATION: 856' 258-BLUE CREEK ACREAGE: 57 \$  | O_B_NEW_WELLS\PIPELINE\ORAFTING\LANDPLATS\NEW PLATS_20230605\PLAT_OVERALL.DY   |
| PILE #   | 1. THIS PLAT HAS BEEN PREPARED FROM 2. NO BUILDINGS OR WELLS LOCATED WIT  1, THE UNDERSIGNED, HEREBY CE PLAT IS CORRECT TO THE BEST OF M BELIEF AND SHOWS ALL THE INFORMA LAW AND THE REGULATIONS ISSUED A THE DEPARTMENT OF ENVIRONMENTAL  Signed:  R.P.E.:  DATE:  OPERAT  API WEI  Production  Deep  Storage  Shallow  KRIVER (050500070908)  KWHA / 4-ELK  QUADRANGLE:  FREDA MARIE MORTON ALTY OWNER MAIT AMOS, ET AL. 1049098-0000 (SURFACE) (BOTTOM HOLE) REFER  | HIN 200' RTIFY THAT THIS Y KNOWLEDGE AND TION REQUIRED BY ND PRESCRIBED BY PROTECTION.  2252  PLACE SEAL HERE  12–10–21  TOR'S WELL #: 12643  LL #: 47 039 06 401 T STATE COUNTY PERMIT  LEVATION: 856' 258-BLUE CREEK ACREAGE: 57 \$  | COCO_B_NEW_WELLS\PIPELINE\DRAFTING\LANDPLATS\NEW PLATS_20230605\PLAT_OVERALL.DY  |
| DEED BOOK 2286, PAGE 453 PID 15 38B0073000000000  FILE #  DRAWING # 12643  SCALE: 1" = 1200'  MINIMUM DEGREE OF ACCURACY: 1:2,500'  PROVEN SOURCE STATIC GPS SURVEY OF ELEVATION: WITH TIES TO NGS DATA  +) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP  OFFICE OF OIL & GAS 601 57TH STREET  CHARLESTON, WV 25304  Well Type: □ Oil □ Waste Disposal  □ Gas □ Liquid Injection  WATERSHED: COOPERS CREEK-EL  COUNTY/DISTRICT: 039-KANA  SURFACE OWNER: JAMES A. & GAS ROYALTY OWNER: LEASE NO.  DRILL □ CO   | 1. THIS PLAT HAS BEEN PREPARED FROM 2. NO BUILDINGS OR WELLS LOCATED WIT  1, THE UNDERSIGNED, HEREBY CE PLAT IS CORRECT TO THE BEST OF M BELIEF AND SHOWS ALL THE INFORMA LAW AND THE REGULATIONS ISSUED A THE DEPARTMENT OF ENVIRONMENTAL  Signed:  R.P.E.:  DATE:  OPERAT  API WE  Storage Shollow  K RIVER (050500070908)  K RIVER (050500070908)  E FREDA MARIE MORTON  ALTY OWNER MATT AMOS, ET AL 1049098—0000 (SURFACE) (BOTTOM HOLE) REFER-  NIVERT DRILL DEEPER REDR   | HIN 200' RTIFY THAT THIS Y KNOWLEDGE AND TION REQUIRED BY IND PRESCRIBED BY PROTECTION.  2252  PLACE SEAL HERE  12-10-21  OR'S WELL #: 12643  LL #: 47 039 06 401 T  STATE COUNTY PERMIT  LEVATION: 856' 258-BLUE CREEK  ACREAGE: 57 3  R TO FORM WW-2A1 ACREAGE: 851.5  | 926_COCO_B_NEW_WELLS\PIPELINE\DRAFTING\LANDPLATS\NEW PLATS_20230605\PLAT_OVERALL.DY  |
| DEED BOOK 2286, PAGE 453 PID 15 38B0073000000000  FILE #  DRAWING # 12643  SCALE: 1" = 1200'  MINIMUM DEGREE OF ACCURACY: 1:2,500' PROVEN SOURCE STATIC GPS SURVEY OF ELEVATION: WITH TIES TO NGS DATA +) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304  Well Type:   Oil   Waste Disposal   | 1. THIS PLAT HAS BEEN PREPARED FROM 2. NO BUILDINGS OR WELLS LOCATED WIT  1, THE UNDERSIGNED, HEREBY CE PLAT IS CORRECT TO THE BEST OF M BELIEF AND SHOWS ALL THE INFORMA LAW AND THE REGULATIONS ISSUED A THE DEPARTMENT OF ENVIRONMENTAL  Signed:  R.P.E.:  DATE:  OPERAT  API WEI  Production Deep  Storage Shallow  KRIVER (050500070908)  KWHA / 4-ELK QUADRANGLE: FREDA MARIE MORTON ALTY OWNER MAIT AMOS, ET AL 1049098-0000 (SURFACE) (BOTTOM HOLE) REFER  NVERT DRILL DEEPER REDR  | HIN 200' RTIFY THAT THIS Y KNOWLEDGE AND TION REQUIRED BY PROTECTION.  2252  PLACE SEAL HERE  12-10-21  OR'S WELL #: 12643  LL #: 47 039 06 401 T  STATE COUNTY PERMIT  LEVATION: 856' 258-BLUE CREEK  ACREAGE: 57 3  R TO FORM WW-2A1 ACREAGE: 851.5  ORMATION PLUG & ABANDON  PLUG & ABANDON   | 7104926_COCO_B_NEW_WELLS\PIPELINE\DRAFTING\LANDPLATS\NEW PLATS_20230605\PLAT_OVERALL.DV  |
| FILE #  DRAWING # 12643  SCALE: 1" = 1200'  MINIMUM DEGREE OF ACCURACY: 1:2,500'  PROVEN SOURCE STATIC GPS SURVEY OF ELEVATION: WITH TIES TO NGS DATA  +) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304  Well Type: □ Oil □ Waste Disposal □ Gas □ Liquid Injection  WATERSHED: COOPERS CREEK-EL COUNTY/DISTRICT: 039-KANA  SURFACE OWNER: JAMES A. & GAS ROYY OIL & GAS ROYALTY OWNER: LEASE NO.  DRILL □ CO PLUG OFF OLD CLEAN OUT &   | 1. THIS PLAT HAS BEEN PREPARED FROM 2. NO BUILDINGS OR WELLS LOCATED WIT  1, THE UNDERSIGNED, HEREBY CE PLAT IS CORRECT TO THE BEST OF M BELIEF AND SHOWS ALL THE INFORMA LAW AND THE REGULATIONS ISSUED A THE DEPARTMENT OF ENVIRONMENTAL Signed:  R.P.E.:  DATE:  OPERAT  API WE  Storage Shollow  K RIVER (050500070908)  K RIVER (050500070908)  FREDA MARIE MORTON ALTY OWNER MATT AMOS, ET AL. 1049098-0000 (SURFACE) (BOTTOM HOLE) REPER  NVERT DRILL DEEPER REDR  FORMATION PERFORATE NEW FOR   | HIN 200' RTIFY THAT THIS Y KNOWLEDGE AND TION REQUIRED BY PROTECTION.  2252  PLACE SEAL HERE  12-10-21  OR'S WELL #: 12643  LL #: 47 039 06 4017  STATE COUNTY PERMIT  LEVATION: 856' 258-BLUE CREEK ACREAGE: 57 \$ R TO FORM WW-2A1 ACREAGE: 851.5  ORMATION PLUG & ABANDON D ECIFY): 12/08/20  | \(\frac{10}{20}\) \(\frac{10}{ |
| PILE #  DRAWING # 12643  SCALE: 1" = 1200'  MINIMUM DEGREE OF ACCURACY: 1:2,500'  PROVEN SOURCE STATIC GPS SURVEY OF ELEVATION: WITH TIES TO NGS DATA  +) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP  OFFICE OF OIL & GAS 601 57TH STREET  CHARLESTON, WV 25304  Well Type: Oil Waste Disposal  Gas Cliquid Injection  WATERSHED: COOPERS CREEK-EL  COUNTY/DISTRICT: 039-KANA  SURFACE OWNER: JAMES A. & GAS ROYALTY OWNER: LEASE NO.  DRILL CO  PLUG OFF OLD  CLEAN OUT &  TARGET FORMATION: ORISKANY SANI  | 1. THIS PLAT HAS BEEN PREPARED FROM 2. NO BUILDINGS OR WELLS LOCATED WIT  1, THE UNDERSIGNED, HEREBY CE PLAT IS CORRECT TO THE BEST OF M BELIEF AND SHOWS ALL THE INFORMA LAW AND THE REGULATIONS ISSUED A THE DEPARTMENT OF ENVIRONMENTAL  Signed:  R.P.E.:  DATE:  OPERAT  API WEI  Storage Shollow  K RIVER (050500070908)  K RIVER (050500070908)  E FREDA MARIE MORTON  ALTY OWNER MATT AMOS, ET AL.  1049098—0000 (SURFACE) (BOTTOM HOLE) REFER  INVERT DRILL DEEPER REDR  FORMATION PERFORATE NEW FOR  REPLUG OTHER CHANGE SPI  DISTONE (STORAGE RESERVOIR)  | HIN 200' RTIFY THAT THIS Y KNOWLEDGE AND TION REQUIRED BY PROTECTION.  2252  PLACE SEAL HERE  12-10-21  OR'S WELL #: 12643  LL #: 47 039 STATE COUNTY PERMIT  LEVATION: 856' 258-BLUE CREEK  ACREAGE: 57 \$ R TO FORM WW-2A1 ACREAGE: 851.5  ORMATION PLUG & ABANDON D ECIFY): 12/08/20 ESTIMATED DEPTH: 5,178 FT. TVD 8,748 FT. TVD 8,748 FT. MD  | NO 100 PLATS_20230605\PLATS_OVERALL.DI   |
| PILE   PILE   PRAWING   PROVEN SOURCE STATIC GPS SURVEY OF ELEVATION: WITH TIES TO NGS DATA  +) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304  Well Type: □ Oil □ Waste Disposal □ Gas □ Liquid Injection WATERSHED: COOPERS CREEK-EL COUNTY/DISTRICT: 039-KANA GAS ROY/OIL & CLEAN OUT & TARGET FORMATION: ORISKANY SANI WELL OPERATOR COLUMBIA GAS TRA | 1. THIS PLAT HAS BEEN PREPARED FROM 2. NO BUILDINGS OR WELLS LOCATED WIT  1, THE UNDERSIGNED, HEREBY CE PLAT IS CORRECT TO THE BEST OF M BELIEF AND SHOWS ALL THE INFORMA LAW AND THE REGULATIONS ISSUED A THE DEPARTMENT OF ENVIRONMENTAL Signed:  R.P.E.:  DATE:  OPERAT  API WE  Storage Shollow  K RIVER (050500070908)  K RIVER (050500070908)  EREDA MARIE MORTON ALTY OWNER MATT AMOS, ET AL. 1049098-0000 (SURFACE) (BOTTOM HOLE) REFER  NVERT DRILL DEEPER REDR  FORMATION PERFORATE NEW FOR REPLUG OTHER CHANGE SPENDSTONE (STORAGE RESERVOIR)  NSMISSION, LLC DESIGNATED ACC.                      | HIN 200' RTIFY THAT THIS Y KNOWLEDGE AND TION REQUIRED BY PROTECTION.  2252  PLACE SEAL HERE  12-10-21  OR'S WELL #: 12643  LL #: 47 039 STATE COUNTY PERMIT  LEVATION: 856' 258-BLUE CREEK ACREAGE: 57 \(\frac{2}{5}\) R TO FORM WW-2A1 ACREAGE: 851.5  RILL \(\text{CREAGE}\) R TO FORM WW-2A1 ACREAGE: 851.5  RECIFY: 12/08/20 ESTIMATED DEPTH: 5,178 FT. TVD 8,748 FT. MD  SENT JAMES AMOS | NSCANADA\507104926_COCO_B_NEW_WELLS\PIPELINE\DRAFTING\LANDPLATS\NEW PLATS_20230605\PLAT_OVERALL.DY   |
| PILE #  DRAWING # 12643  SCALE: 1" = 1200'  MINIMUM DEGREE OF ACCURACY: 1:2,500'  PROVEN SOURCE STATIC GPS SURVEY OF ELEVATION: WITH TIES TO NGS DATA  +) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP  OFFICE OF OIL & GAS 601 57TH STREET  CHARLESTON, WV 25304  Well Type: □ 0il □ Waste Disposal  ☑ Gas □ Liquid Injection  WATERSHED: COOPERS CREEK—EL  COUNTY/DISTRICT: 039—KANA  SURFACE OWNER: JAMES A. & GAS ROYALTY OWNER: LEASE NO.  DRILL ☑ CO  PLUG OFF OLD  CLEAN OUT &  TARGET FORMATION: ORISKANY SANI  WELL OPERATOR COLUMBIA GAS TRA  Address 1700 MACCORKLE AVE. SE PRO   | 1. THIS PLAT HAS BEEN PREPARED FROM 2. NO BUILDINGS OR WELLS LOCATED WIT  1, THE UNDERSIGNED, HEREBY CE PLAT IS CORRECT TO THE BEST OF M BELIEF AND SHOWS ALL THE INFORMA LAW AND THE REGULATIONS ISSUED A THE DEPARTMENT OF ENVIRONMENTAL  Signed:  R.P.E.:  DATE:  OPERAT  API WE  Storage Shallow  K RIVER (050500070908)  ENWHA / 4-ELK QUADRANGLE:  FREDA MARIE MORTON ALTY OWNER MATT AMOS, ET AL.  1049098-0000 (SURFACE) (BOTTOM HOLE) REFER  NVERT DRILL DEEPER REDR  FORMATION PERFORATE NEW FOR  REPLUG OTHER CHANGE SPI  DISTONE (STORAGE RESERVOIR)  NSMISSION, LLC  DESIGNATED AG  Address 1700 | HIN 200' RTIFY THAT THIS Y KNOWLEDGE AND TION REQUIRED BY PROTECTION.  2252  PLACE SEAL HERE  12-10-21  OR'S WELL #: 12643  LL #: 47 039 STATE COUNTY PERMIT  LEVATION: 856' 258-BLUE CREEK ACREAGE: 57 \(\frac{2}{5}\) R TO FORM WW-2A1 ACREAGE: 851.5  RILL \(\text{CREAGE}\) R TO FORM WW-2A1 ACREAGE: 851.5  RECIFY: 12/08/20 ESTIMATED DEPTH: 5,178 FT. TVD 8,748 FT. MD  SENT JAMES AMOS | NOSCANADA\507104928_COCO_B_NEW_WELLS\PIPELINE\DRAFTING\LANDPLATS\NEW_PLATS_20230605\PLAT_O   |

