

Columbia Gas Transmission, LLC
FERC NGA Gas Tariff
Baseline Tariffs
Proposed Effective Date: May 1, 2018
Service Agreement No. 149759 – Antero Resources Corporation
Option Code A

FTS SERVICE AGREEMENT

THIS AGREEMENT is made and entered into this 17 day of April, 2018, by and between COLUMBIA GAS TRANSMISSION, LLC ("Transporter") and ANTERO RESOURCES CORPORATION ("Shipper").

WITNESSETH: That in consideration of the mutual covenants herein contained, the parties hereto agree as follows:

Section 1. Service to be Rendered. Transporter shall perform and Shipper shall receive service in accordance with the provisions of the effective FTS Rate Schedule and applicable General Terms and Conditions of Transporter's FERC Gas Tariff, Fourth Revised Volume No. 1 ("Tariff"), on file with the Federal Energy Regulatory Commission ("Commission"), as the same may be amended or superseded in accordance with the rules and regulations of the Commission. The maximum obligation of Transporter to deliver gas hereunder to or for Shipper, the designation of the points of delivery at which Transporter shall deliver or cause gas to be delivered to or for Shipper, and the points of receipt at which Shipper shall deliver or cause gas to be delivered, are specified in Appendix A, as the same may be amended from time to time by agreement between Shipper and Transporter, or in accordance with the rules and regulations of the Commission.

Section 2. Term. Service under this Agreement shall commence as of May 1, 2018 and shall continue in full force and effect until October 31, 2024. Pre-granted abandonment shall apply upon termination of this Agreement, subject to any right of first refusal Shipper may have under the Commission's regulations and Transporter's Tariff.

Shipper shall have a one-time right to extend its Service Agreement for the 47,000 Dth/day for an additional five (5) years at the then effective maximum recourse rate applicable to the Columbia Gas Rate Schedule FTS as set forth in Columbia Gas Tariff. Shipper must notify Transporter in writing no later than April 1, 2023 in order to exercise this right.

Section 3. Rates. Shipper, having been apprised of the availability of a maximum recourse reservation rate for service under this Agreement, has elected to pay a fixed negotiated reservation rate, as set forth below:

\$7.7410 per month for quantities, and with the receipt and delivery points, as reflected in Appendix A.

Shipper has also elected to pay a negotiated retainage rate equal to the lower of: (a) Transporter's currently effective retainage rate applicable to Rate Schedule FTS; or (b) 4% minus the then-effective retainage rate applicable to Columbia Gulf Transmission, LLC's Rate Schedule FTS-1 Market Zone – Backhaul retainage rate. This retainage rate shall be applicable through June 30, 2018.

In addition to the negotiated reservation rate and the negotiated retainage rate, Shipper shall also pay: (a) all commodity charges applicable to service under Rate Schedule FTS; and (b) all demand and commodity surcharges applicable to service under Rate Schedule FTS, with the exception of the Capital Cost Recovery Mechanism ("CCRM") surcharge.

Section 4. Notices. Notices to Transporter under this Agreement shall be addressed to it at 700 Louisiana St., Suite 700, Houston, Texas 77002-2700, Attention: Contracts and notices to Shipper shall be addressed to it at Antero Resources Corporation, 1615 Wynkoop, Denver, CO 80202, Attention: Sherry Anderson, until changed by either party by written notice.

Section 5. Superseded Agreements. This Service Agreement supersedes and cancels, as of the effective date hereof, the following Service Agreement(s): FTS Agreement 149759 Revision 4.

Section 6. Credit Annex. The credit requirements appended hereto as Attachment A are incorporated herein by reference with full force and effect and are made a part of this Service Agreement as though restated herein verbatim.

Section 7. Receipt Point Shift Rights. With respect to the capacity identified in Appendix A, at any time and from time to time during the term of this Service Agreement pursuant to which Shipper has subscribed the increment of capacity, Shipper may request to shift some or all of its existing receipt point quantities to allow the flow of its or its affiliate's production, including but not limited to production in the Utica Shale. Within 45 days of receiving such a request from Shipper, Transporter shall determine and communicate to Shipper the incremental cost, terms, and conditions, if any, necessary to meet Shipper's request to shift receipt point capacity to access the additional production. Upon mutual agreement of Shipper and Transporter, Transporter shall, consistent with the Tariff, implement an agreement or similar mechanism in which to effectuate the receipt point amendment.

Shipper shall have the right, in accordance with Section 11 of the General Terms & Conditions of the Tariff, to reallocate Transportation Demand capacity rights at any time and from time to time among existing and future points of receipt located on the Transporter's system between (and including) Transporter's Smithfield, West Virginia compressor station and the interconnection between Transporter's system and the MarkWest Liberty Sherwood Processing Plant, with no impact to the reservation rate and the retainage rate in this Service Agreement.

ANTERO RESOURCES CORPORATION

By Maria D. May

Title Sr. V.P.

Date 4-17-2018

COLUMBIA GAS TRANSMISSION, LLC

By Millie S. Moran

Title Millie S. Moran

Vice President
Date 4-23-18



Appendix A to Service Agreement No. 149759
Under Rate Schedule FTS
between Columbia Gas Transmission, LLC ("Transporter")
and Antero Resources Corporation ("Shipper")

Transportation Demand

<u>Begin Date</u>	<u>End Date</u>	<u>Transportation Demand Dth/day</u>	<u>Recurrence Interval</u>
May 1, 2018	October 31, 2024	47,000	1/1-12/31

Primary Receipt Points

<u>Begin Date</u>	<u>End Date</u>	<u>Scheduling Point No.</u>	<u>Scheduling Point Name</u>	<u>Measuring Point No.</u>	<u>Measuring Point Name</u>	<u>Maximum Daily Quantity (Dth/day)</u>	<u>Minimum Receipt Pressure Obligation (psig) 1/</u>	<u>Recurrence Interval</u>
May 1, 2018	October 31, 2024	642645	Sherwood1			47,000		1/1-12/31

Primary Delivery Points

<u>Begin Date</u>	<u>End Date</u>	<u>Scheduling Point No.</u>	<u>Scheduling Point Name</u>	<u>Measuring Point No.</u>	<u>Measuring Point Name</u>	<u>Maximum Daily Delivery Obligation (Dth/day) 1/</u>	<u>Design Daily Quantity (Dth/day) 1/</u>	<u>Minimum Delivery Pressure Obligation (psig) 1/</u>	<u>Recurrence Interval</u>
May 1, 2018	September 30, 2018	B9	Broad Run-19	831918	Broad Run	47,000			1/1-12/31
October 1, 2018	October 31, 2024	801	TCO-LEACH			47,000			1/1-12/31

1/ Application of MDDOs, DDQs and ADQs, minimum pressure and/or hourly flowrate shall be as follows:

The MDDO at Broad Run-19 shall be applied as follows: the MDDO will end the later of (1) September 30, 2018 or (2) the earlier of (a) the effective date of Shipper's WB XPress service agreement or (b) June 1, 2019.

The MDDO at TCO-LEACH shall be applied as follows: the MDDO will begin the later of (1) October 1, 2018 or (2) the earlier of (a) the effective date of Shipper's WB XPress service agreement or (b) June 1, 2019.

The Master List of Interconnects ("MLI") as defined in Section 1 of the General Terms and Conditions of Transporter's Tariff is incorporated herein by reference for purposes of listing valid secondary interruptible receipt points and delivery points.

Yes X No (Check applicable blank) Transporter and Shipper have mutually agreed to a Regulatory Restructuring Reduction Option pursuant to Section 42 of the General Terms and Conditions of Transporter's FERC Gas Tariff.

X Yes No (Check applicable blank) Shipper has a contractual right of first refusal upon the end of shipper's one-time subsequent extension (if exercised) equivalent to the right of first refusal set forth from time to time in Section 4 of the General Terms and Conditions of Transporter's FERC Gas Tariff.

 Yes X No (Check applicable blank) All gas shall be delivered at existing points of interconnection within the MDDOs, ADQs and/or DDQs, as applicable, set forth in Transporter's currently effective Rate Schedule Service Agreement No. Appendix A with Shipper, which are incorporated herein by reference.

 Yes X No (Check applicable blank) This Service Agreement covers interim capacity sold pursuant to the provisions of General Terms and Conditions Section 4. Right of first refusal rights, if any, applicable to this interim capacity are limited as provided for in General Terms and Conditions Section 4.

 Yes X No (Check applicable blank) This Service Agreement covers offsystem capacity sold pursuant to Section 47 of the General Terms and Conditions. Right of first refusal rights, if any, applicable to this offsystem capacity are limited as provided for in General Terms and Conditions Section 47.

ANTERO RESOURCES CORPORATION

By Maureen M. Moran

Title Sr. V.P.

Date 4-17-2018

COLUMBIA GAS TRANSMISSION, LLC

By Millie S. Moran

Title Millie S. Moran

Vice President

Date 4-23-18

