



UTILITIES CO.

*A Subsidiary of MDU Resources Group, Inc.*

400 North Fourth Street  
Bismarck, ND 58501  
(701) 222-7900

# ORIGINAL

September 6, 2019

Executive Secretary  
North Dakota Public Service Commission  
State Capitol Building  
Bismarck, ND 58505

Re: Cost of Gas Adjustment (COG)  
Rate 88 and Rate 99  
Case No. PU-19-008

In accordance with North Dakota Century Code Section 49-05-05, Montana-Dakota Utilities Co. (Montana-Dakota) respectfully submits an original and two (2) copies of a Cost of Gas (COG) change pursuant to the terms of Rates 88 and 99.

The Rate Summary Sheet (178<sup>th</sup> Revised Sheet No. 3) showing the proposed natural gas rates reflecting the COG effective October 1, 2019 along with currently effective distribution rates is provided in Exhibit 1. The net effect of this filing, calculated pursuant to the terms of Rate 88, is a decrease of \$0.110 per dk for residential customers and firm general customers, an increase of \$0.145 per dk for small and large interruptible customers, and a decrease of \$0.030 per dk for Air Force interruptible customers.

Montana-Dakota purchases gas supplies under a number of contracts and secures transportation service over a number of pipelines for delivery of the natural gas purchased to Montana-Dakota's distribution system to meet the demands of its customers. The commodity cost of natural gas has decreased \$0.162 per dk since the cost established in the July 2019 PGA filing due to a decrease in the overall commodity price of gas. Changes in pipeline rates increased the cost of gas by \$0.001 per dk. In addition, this filing reflects the annual change in the surcharge adjustment, shown in Exhibit 6, and the grain drying margin credit, shown in Exhibit 8.

Montana-Dakota purchases propane supplies from various wholesale suppliers. The market price of propane has not changed since a change July 1, 2019. However, the net cost of propane has decreased since the last filing due to the grain drying margin sharing credit of \$0.016 applied to propane customers to be effective October 1, 2019.

The following Exhibits are provided in support of the COG rates to be effective October 1, 2019:

- Exhibit 2 summarizes the cost of gas adjustment, the surcharge adjustment, and the grain drying margin sharing adjustment calculated pursuant to the terms of Rate 88 that will apply during the month of October 2019.

ORIGINAL

- Exhibit 3, shows the calculation of the current gas cost adjustment that will be applicable to Montana-Dakota's customers for the month of October 2019 along with an explanation of the reasons for the decrease in the market price of gas. The average cost of gas for firm customers, adjusted for losses, is \$3.747 per dk.
- Exhibit 3a is marked as "Confidential" and contains confidential information regarding gas commodity pricing and is designated as Trade Secret in accordance with the Commission's May 1, 2019, Order in Case No. PU-18-008. Exhibit 3a – Public Copy, is also enclosed. Montana-Dakota has submitted a renewal of the Application for Trade Secret Protection to the Commission in Case No. PU-19-008 to renew the request of confidential treatment of portion of the cost of gas calculation for 2019.
- Exhibit 4 includes a list of FERC proceedings since the October 1, 2018 filing with a brief description of each filing and a summary of the change in pipeline rates occurring since the last COG filing and a copy of applicable effective pipeline rates along with supporting workpapers is also included.
- Exhibit 5 shows the calculation of the return on storage inventory balances and prepaid demand and commodity balances using the calculation procedure set forth in Rate 88. The overall rate of return of 7.236% applied to the balances was authorized by the Commission in Case No. PU-17-295.
- Exhibit 6 shows the calculation of the surcharge adjustment that will apply during the period October 1, 2019 through September 30, 2020. The total surcharge is (\$0.160) per dk residential and general service customers, \$0.285 per dk for small and large interruptible customers and \$0.098 per dk for the Air Force, or an increase of \$0.054 per dk for residential and general service customers, an increase of \$0.306 per dk for small and large interruptible customers and an increase of \$0.130 per dk for the Air Force from the adjustment effective October 1, 2018.
- Exhibit 7 summarizes the cost of gas – propane calculated pursuant to the terms of Rate 99, which apply during the month of October 2019. The average cost of propane for all customers, adjusted for losses, is \$4.940 per dk, no change from the charge effective July 1, 2019.
- Exhibit 8 shows the grain drying margin sharing provision pursuant to the terms of Rate 88. Ninety percent of the margin revenues collected from grain drying customers served under interruptible service rates will be credited to residential and firm general service customers through the COG. A credit of \$0.016 per dk will be applicable to all residential and general service customers due to the grain drying margin sharing provision for the period October 1, 2019 through September 30,

2020. The final interim revenue collected in Case No. PU-17-295 has been applied to the margin sharing provision.

The COG changes, calculated in accordance with Rate 88 and Rate 99, will amount to a decrease of approximately \$118,700 for natural gas customers during the month of October 2019. All Montana-Dakota's retail gas customers in North Dakota may be affected by this proposal. There were 109,233 natural gas customers and 337 propane customers in North Dakota as of July 31, 2019.

Please refer all inquiries regarding this filing to:

Ms. Tamie A. Aberle  
Director of Regulatory Affairs  
Montana-Dakota Utilities Co.  
400 North Fourth Street  
Bismarck, ND 58501

Also, please send copies of all written inquiries, correspondence and pleadings to:

Mr. Karl A. Liepitz  
Assistant General Counsel  
MDU Resources Group, Inc.  
P. O. Box 5650  
Bismarck, ND 58506-5650

Montana-Dakota submitted a check on March 8, 2019 to the North Dakota Public Service Commission for \$600 pursuant to the requirements of North Dakota Century Code Section 49-05-05. This payment will cover the filing fee associated with the monthly COG filings.

Montana-Dakota respectfully requests that this filing be accepted as being in full compliance with the filing requirements of this Commission.

Please acknowledge receipt by stamping or initialing the duplicate copy of this letter attached hereto and returning the same in the enclosed self-addressed stamped envelope.

If you have any questions regarding this filing, please contact me at (701) 222-7856 or [tamie.aberle@mdu.com](mailto:tamie.aberle@mdu.com)

Sincerely,



Tamie A. Aberle  
Director of Regulatory Affairs

Attachment

**RATE SUMMARY SHEET  
(PROPOSED)**



# Montana-Dakota Utilities Co.

A Subsidiary of MDU Resources Group, Inc.

400 N 4th Street  
Bismarck, ND 58501

## State of North Dakota Gas Rate Schedule

NDPSC Volume 7

178<sup>th</sup> Revised Sheet No. 3

Canceling 177<sup>th</sup> Revised Sheet No. 3

### RATE SUMMARY SHEET

Page 1 of 2

Rate Schedule	Sheet No.	Basic Service Charge	Distribution Delivery Charge	COG Items	Total Rate/ Dk
Residential Rate 60	4	\$0.6860 per day	\$0.000	\$3.571	\$3.571
Air Force Rate 64	7				
Minot Air Force Base		\$2,000.00 per month			
PAR Site		\$175.00 per month			
Firm Service			\$0.329	\$3.571	\$3.900
Interruptible Service - PAR			\$0.177	\$2.595	\$2.772
Interruptible Service - MAFB			\$0.177	\$2.398	\$2.575
Firm General Service Rate 70	13				
Meters rated < 500 cubic feet		\$0.70 per day			
Meters rated > 500 cubic feet		\$2.05 per day	\$0.811	\$3.571	\$4.382
Small Interruptible Gas Rate 71	14	\$190.00 per month	(Maximum) \$1.063	\$2.595	(Maximum) \$3.658
Optional Seasonal Gas Service Rate 72	15				
Meters rated < 500 cubic feet		\$0.70 per day			
Meters rated > 500 cubic feet		\$2.05 per day	\$0.811	\$3.702	\$4.513
Contracted Demand Service Rate 74	16		(Demand Charge)	(Capacity Charge)	\$10.990
Meters rated < 500 cubic feet		\$0.70 per day			
Meters rated > 500 cubic feet		\$2.05 per day	\$6.510	(COG/Dk)	\$2.162
Transportation Service	24				
Small Interruptible Rate 81		\$190.00 per month			
Maximum			\$0.668		\$0.668
Minimum			\$0.102		\$0.102
Large Interruptible Rate 82		\$1,500.00 per month			
Maximum			\$0.231		\$0.231
Minimum			\$0.061		\$0.061
Large Interruptible Gas Rate 85	27	\$1,500.00 per month	(Maximum) \$0.718	\$2.595	(Maximum) \$3.313
Residential Propane Rate 90	32	\$0.6860 per day	\$0.000	\$4.414	\$4.414
Firm General Propane Rate 92	34				
Meters rated < 500 cubic feet		\$0.70 per day			
Meters rated > 500 cubic feet		\$2.05 per day	\$0.811	\$4.414	\$5.225

Date Filed: September 6, 2019

Effective Date: October 1, 2019

Issued By: Tamie A. Aberle  
Director - Regulatory Affairs

Case No.: PU-19-008

MONTANA-DAKOTA UTILITIES CO.  
COST OF GAS TARIFF SHEET  
NORTH DAKOTA GAS  
EFFECTIVE OCTOBER 2019

	Firm			Small & Large Interruptible	Air Force Interruptible
	Residential & General Service	Optional Seasonal	Contracted Demand		
<b><u>Gas Cost Adjustment:</u></b>					
Gas Cost Level (Exhibit 3)	\$3.747	\$3.878	\$2.178	\$2.310	\$2.300
Prior Filed Gas Cost (Effective 7/1/2019)	<u>3.908</u>	<u>2.331</u>	<u>2.331</u>	<u>2.471</u>	<u>2.460</u>
Current Gas Cost Adjustment	(\$0.161)	\$1.547	(\$0.153)	(\$0.161)	(\$0.160)
<b><u>Surcharge Adjustment:</u></b>					
Current Adjustment (Exhibit 6)	(\$0.160)	(\$0.160)	\$0.000	\$0.285	\$0.098
Prior Filed Adjustment	<u>(0.214)</u>	<u>(0.214)</u>	<u>(0.214)</u>	<u>(0.021)</u>	<u>(0.032)</u>
Change in Surcharge Adjustment	\$0.054	\$0.054	\$0.214	\$0.306	\$0.130
Gas Cost Level	\$3.747	\$3.878	\$2.178	\$2.310	\$2.300
Plus: Surcharge	<u>(0.160)</u>	<u>(0.160)</u>	<u>0.000</u>	<u>0.285</u>	<u>0.098</u>
Total Gas Cost Level in Tariff Rates	<u><b>\$3.587</b></u>	<u><b>\$3.718</b></u>	<u><b>\$2.178</b></u>	<u><b>\$2.595</b></u>	<u><b>\$2.398</b></u>
<b><u>Grain Drying Margin Sharing</u></b>					
Current Adjustment (Exhibit 8)	(\$0.016)	(\$0.016)	(\$0.016)	\$0.000	\$0.000
Prior Filed Gas Cost	<u>(0.013)</u>	<u>(0.013)</u>	<u>(0.013)</u>	<u>0.000</u>	<u>0.000</u>
Change in Grain Drying Sharing Margin	(\$0.003)	(\$0.003)	(\$0.003)	\$0.000	\$0.000
Total Cost of Gas Billed	<u><b>\$3.571</b></u>	<u><b>\$3.702</b></u>	<u><b>\$2.162</b></u>	<u><b>\$2.595</b></u>	<u><b>\$2.398</b></u>
Net Increase (Decrease) in Gas Costs	<u><b>(\$0.110)</b></u>	<u><b>\$1.598</b></u>	<u><b>\$0.058</b></u>	<u><b>\$0.145</b></u>	<u><b>(\$0.030)</b></u>

**MONTANA-DAKOTA UTILITIES CO.  
CURRENT GAS COST ADJUSTMENT - NORTH DAKOTA  
RESIDENTIAL AND GENERAL SERVICE  
EFFECTIVE OCTOBER 2019**

	<u>Amount</u>
<i>Total Gas Costs 1/</i>	\$59,638,799
<i>Dk Requirements - Firm 2/</i>	15,989,612
Average Cost of Gas per dk	\$3.730
Average Cost of Gas as Adjusted for Losses @ 99.55%	3.747
Less: Gas Cost Level in Rates 3/	3.908
<b>Current Gas Cost Adjustment</b>	<b>(\$0.161)</b>

- 1/ Includes all pipeline demand and commodity charges, see Exhibit 3a, page 1. See Exhibit 4 for currently effective pipeline rates. Also includes a return on prepaid demand, commodity and cycle storage balances as shown on Exhibit 5.
- 2/ Normalized dk sales for the twelve months ended June 30, 2019, adjusted for losses at .45%.
- 3/ Gas Cost Level in Current Tariff Rates Case No. PU-19-008 effective July 1, 2019:

Cost of Purchased Gas	\$3.890
Adjustment for Distribution Losses	99.55%
Gas Cost Level in Base Tariff Rates	\$3.908

**MONTANA-DAKOTA UTILITIES CO.  
CURRENT GAS COST ADJUSTMENT - NORTH DAKOTA  
NORTH DAKOTA - OPTIONAL SEASONAL - RATE 72  
EFFECTIVE OCTOBER 2019**

	<u>Amount</u>
<b>Total Gas Costs 1/</b>	\$59,638,799
Less: Annual MDDQ Costs (Excludes Storage Capacity Reservation)	<u>24,976,793</u>
Total Gas Costs excluding MDDQ	\$34,662,006
Firm Service Requirements 1/	15,989,612
Other Gas Costs per Dk (excluding MDDQ)	\$2.168
 <u>Winter - October - May</u>	
Annual MDDQ Costs	24,976,793
Winter Firm Service Requirements	14,756,624
MDDQ Costs per Winter Dk	\$1.693
Add: Other Gas Costs per Dk	<u>2.168</u>
Winter Seasonal Rate	\$3.861
Winter Seasonal Rate, adjusted for losses 2/	\$3.878
Less: Gas Cost Level in Rates 3/	<u>2.331</u>
 <b>Current Gas Cost Adjustment</b>	 <b><u><u>\$1.547</u></u></b>

1/ Exhibit 3, page 1.

2/ Loss factor of 0.45%.

3/ Gas Cost Level in Current Tariff Rates Case No. PU-19-008 effective July 1, 2019:

	<u>Summer</u>
Cost of Purchased Gas	\$2.321
Adjustment for Distribution Losses	99.55%
Gas Cost Level in Base Tariff Rates	\$2.331

**MONTANA-DAKOTA UTILITIES CO.  
CURRENT GAS COST ADJUSTMENT - NORTH DAKOTA  
FIRM GENERAL CONTRACTED DEMAND  
EFFECTIVE OCTOBER 2019**

<u>Cost of Gas</u>	<u>Amount</u>
Total Gas Costs, Excluding Capacity 1/	\$34,662,006
Residential and General Service dk Requirements 2/	15,989,612
Average Cost of Gas per dk	\$2.168
Average Cost of Gas as Adjusted for Losses @ 99.55%	2.178
Less: Gas Cost Level in Rates 3/	<u>2.331</u>
<b>Current Gas Cost Adjustment</b>	<b><u><u>(\$0.153)</u></u></b>
<u>Capacity Charge</u>	
Current Monthly Capacity Charge 4/	\$10.99
Prior Filed Capacity Charge 3/	<u>10.98</u>
<b>Current Capacity Charge Adjustment</b>	<b><u><u>\$0.01</u></u></b>

- 1/ Includes all pipeline demand and commodity charges, see Exhibit 3a, page 1. See Exhibit 4 for currently effective pipeline rates. Also includes a return on prepaid demand, commodity and cycle storage balances as shown on Exhibit 5.
- 2/ Normalized dk sales for the twelve months ended June 30, 2019, adjusted for losses at .45%.
- 3/ Gas Cost Level in Current Tariff Rates Case No. PU-19-008 effective July 1, 2019:

Cost of Purchased Gas	\$2.321
Adjustment for Distribution Losses	0.9955
Gas Cost Level in Base Tariff Rates	\$2.331
Monthly Capacity Charge	\$10.98

- 4/ Annual MDDQ Costs divided by contracted capacity.

**MONTANA-DAKOTA UTILITIES CO.  
CURRENT GAS COST ADJUSTMENT - NORTH DAKOTA  
INTERRUPTIBLE  
EFFECTIVE OCTOBER 2019**

	<u>Amount</u>
<b>Total Gas Costs 1/</b>	\$13,800,231
<b>Dk Requirements - Interruptible</b>	5,999,328
Average Cost of Gas per dk	\$2.300
Average Cost of Gas as Adjusted for Losses @ 99.55%	2.310
Less: Gas Cost Level in Rates 2/	2.471
<b>Current Gas Cost Adjustment</b>	<b>(\$0.161)</b>

1/ Includes all pipeline demand and commodity charges, see Exhibit 3a, page 1. See Exhibit 4 for currently effective pipeline rates. Also includes a return on prepaid demand, commodity and cycle storage balances as shown on Exhibit 5.

2/ Gas Cost Level in Current Tariff Rates Case No. PU-19-008 effective July 1, 2019:

Cost of Purchased Gas	\$2.460
Adjustment for Distribution Losses	99.55%
Gas Cost Level in Base Tariff Rates	\$2.471

**MONTANA-DAKOTA UTILITIES CO.  
CURRENT GAS COST ADJUSTMENT - NORTH DAKOTA  
AIR FORCE INTERRUPTIBLE  
EFFECTIVE OCTOBER 2019**

	<u>Amount</u>
<b>Total Gas Costs 1/</b>	\$1,052,614
<b>Dk Requirements - Air Force Interruptible</b>	457,577
Average Cost of Gas per dk	\$2.300
Less: Gas Cost Level in Rates 2/	<u>2.460</u>
<b>Current Gas Cost Adjustment</b>	<u><u><b>(\$0.160)</b></u></u>

1/ Includes all pipeline demand and commodity charges, see Exhibit 3a, page 1. See Exhibit 4 for currently effective pipeline rates. Also includes a return on prepaid demand, commodity and cycle storage balances as shown on Exhibit 5.

2/ Gas Cost Level in Current Tariff Rates Case No. PU-19-008 effective July 1, 2019:

Cost of Purchased Gas	\$2.460
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**MONTANA-DAKOTA UTILITIES CO.  
SUMMARY OF FIRM DK DELIVERIES, CAPACITY AND  
CALCULATION OF INTERRUPTIBLE DEMAND  
EFFECTIVE OCTOBER 2019**

	Normalized Firm Dk Deliveries 1/	Percent Firm
Montana	9,776,280	27.852876%
North Dakota	15,989,612	45.554820%
South Dakota	6,807,891	19.395858%
Wyoming	2,525,932	7.196446%
Total	<u>35,099,715</u>	<u>100.000000%</u>

	Total Capacity 2/	%
Montana	115,270	27.750427%
North Dakota	189,351	45.584896%
South Dakota	84,061	20.237084%
Wyoming	26,699	6.427593%
Total	<u>415,381</u>	<u>100.000000%</u>

**INTERRUPTIBLE**

	Dk volumes	100% Load Factor MDDQ
Montana	3,726,315 3/	10,209
North Dakota	5,999,328 4/	16,437
ND AFB	457,577 5/	1,254
South Dakota	1,731,859 6/	4,745
Wyoming	2,199,481 7/	6,026
Total	<u>14,114,560</u>	<u>38,671</u>

1/ Normalized firm sales volumes for the twelve months ended June 30, 2019, adjusted for losses.

2/ Required capacity reservation.

3/ Reflects level of interruptible dk volumes included in Docket No. D2017.9.79.

4/ Reflects level of interruptible dk volumes included in Case No. PU-17-295, excluding the Air Force.

5/ Reflects level of interruptible dk for Minot Air Force Base in Case No. PU-17-295.

6/ Reflects level of interruptible dk volumes included in Docket No. NG15-005.

7/ Reflects level of interruptible dk volumes included in Docket No. 30013-297-GR-14.

	Loss Factors	Inverse
Montana	0.72%	99.28%
North Dakota	0.45%	99.55%
South Dakota	1.00%	99.00%
Wyoming	0.68%	99.32%

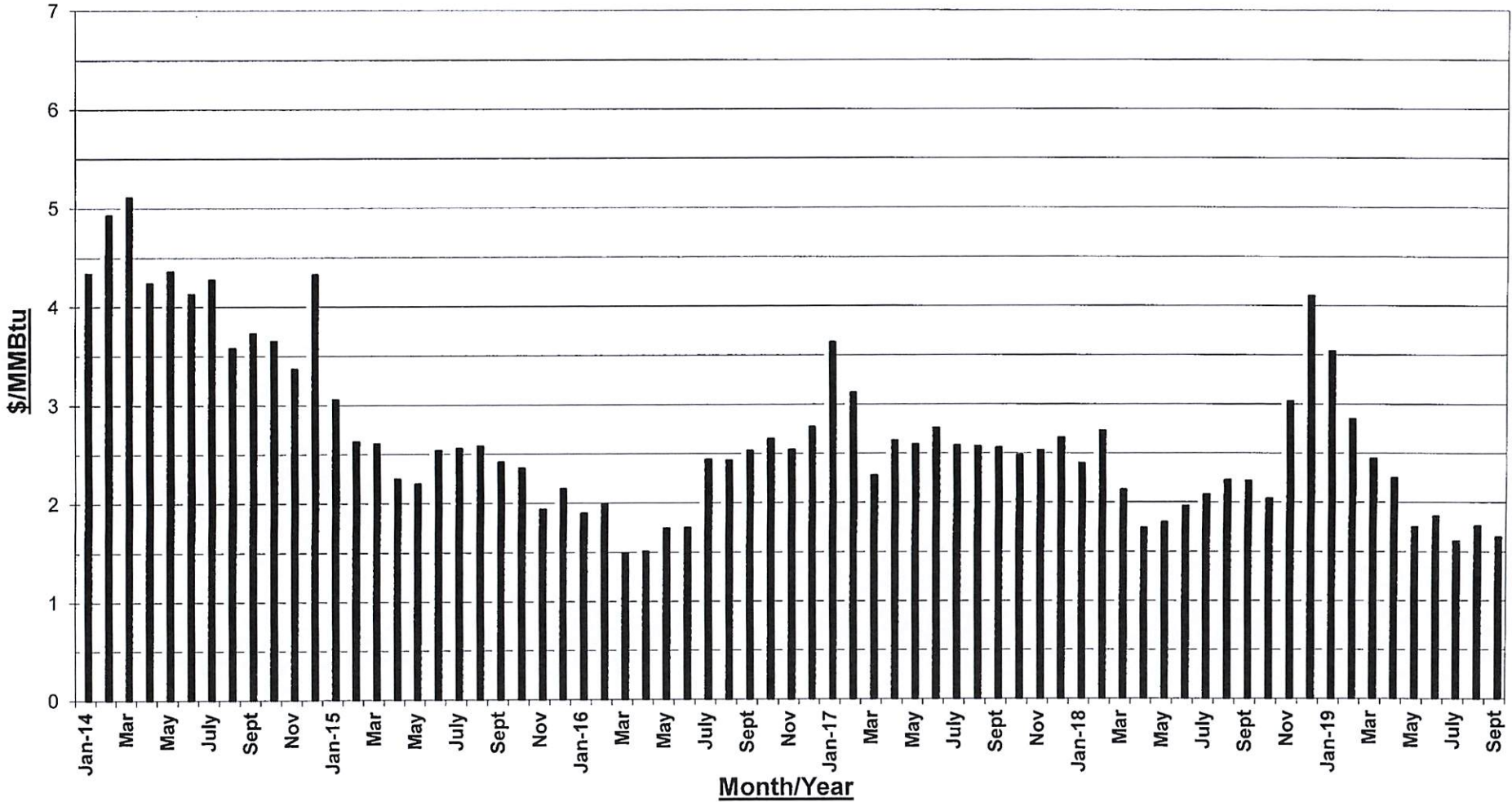
**Montana-Dakota Utilities Co.  
Market Conditions for Regional Natural Gas  
October 2019**

The established monthly price for the October 2019 Rocky Mountain CIG Index is expected to increase by \$0.01/MMBTU to \$1.72/MMBTU from an expected \$1.71/MMBTU in September 2019. The CIG Rocky Mountain Index is based on a price discovery survey by several natural gas periodicals, including "Inside FERC Gas Market" report and "Gas Daily" by McGraw-Hill Companies, of prices paid by willing sellers and buyers of quantities of gas in that region. That price is reflective of natural gas prices in the Rocky Mountain region and indicative of the supplies Montana-Dakota purchases for its requirements.

The EIA reported nationwide storage levels as of August, 2019 at 3.6 percent below the five-year average and 15.2 percent above last year's balance.

The Department of Energy's (DOE) Energy Information Administration (EIA) provides various publications on energy issues. The information is available on the DOE website: <http://www.eia.doe.gov>.

## CIG Rocky Mountains Index Monthly Gas Prices 2014-2019YTD



From Inside F.E.R.C.'s Gas Market Report  
Annual Averages: - 2017-\$2.70, 2018-\$2.37, 2019YTD - \$2.19

MONTANA-DAKOTA UTILITIES CO.  
CURRENT GAS COST ADJUSTMENT - NORTH DAKOTA  
NORTH DAKOTA GAS UTILITY  
EFFECTIVE OCTOBER 2019

	<u>Requirements</u>	<u>Per Unit Cost</u>	<u>Amount</u>
<b><u>RESIDENTIAL AND GENERAL SERVICE</u></b>			
<i>Demand Costs - MDDQ</i>	189,351		
<i>Transportation &amp; Storage Costs - Dk</i>	15,989,612		
<i>Commodity Costs - Dk</i>	15,989,612		
<b><i>Return on Rate Base</i></b>			
Demand Charges			\$119,473
Prepaid Commodity Balances			18,535
Cycle Storage Balances			484,092
<b><i>Total Return</i></b>			<u>\$622,100</u>
<b><i>Total Gas Costs - North Dakota only</i></b>			<u><u>\$59,638,799</u></u>
<b><u>INTERRUPTIBLE</u></b>			
<i>Demand Costs - MDDQ</i>	16,437		
<i>Transportation &amp; Storage Costs - Dk</i>	5,999,328		
<i>Commodity Costs - Dk</i>	5,999,328		
<b><i>Return on Rate Base</i></b>			
Demand Charges			\$10,371
Prepaid Commodity Balances			1,609
Cycle Storage Balances			42,023
<b><i>Total Return</i></b>			<u>\$54,003</u>
<b><i>Total Gas Costs - North Dakota only</i></b>			<u><u>\$13,800,231</u></u>
<b><u>AIR FORCE INTERRUPTIBLE</u></b>			
<i>Demand Costs - MDDQ</i>	1,254		
<i>Transportation &amp; Storage Costs - Dk</i>	457,577		
<i>Commodity Costs - Dk</i>	457,577		
<b><i>Return on Rate Base</i></b>			
Demand Charges			\$791
Prepaid Commodity Balances			123
Cycle Storage Balances			3,206
<b><i>Total Return</i></b>			<u>\$4,120</u>
<b><i>Total Gas Costs - North Dakota only</i></b>			<u><u>\$1,052,614</u></u>

MONTANA-DAKOTA UTILITIES CO.  
COMPUTATION OF CURRENT GAS COST ADJUSTMENT  
TOTAL SYSTEM COSTS  
EFFECTIVE OCTOBER 2019

	<u>Quantity</u>		<u>Tariff Rate</u>	<u>Amount</u>
<b>System Demand Charges</b>				
<b>Transportation Capacity Reservation (MDDQ)</b>				
WBI FT-1	348,498	dk/Month	\$9.84165	\$41,157,544
WBI FT-1 (Valley Exp)		dk/Month	18.90563	
WBI FT-1 (Black Hills Exp)		dk/Month	12.10920	
WBI (Capacity Release)			1/	
NW T-FTG-1		dk/Month	10.15205	
Black Hills Gas		dk/Month	8.69500	
South Dakota Interstate Pipeline		dk/Month	10.23485	
<b>Supplemental Transportation Capacity</b>				
Northern Border et. al.		dk/Month	11.73480	
Viking Gas Transmission		dk/Month	4.37060	
Viking Gas Transmission (Release) 2/		dk/Month	3.69670	
Viking Gas Transmission (Release) 3/		dk/Month	0.91000	
<b>Storage Capacity Reservation (MDDQ)</b>				
WBI FTN-1		dk/Month	0.27069	
WBI FS-1 Capacity Reservation		dk/Month	0.02347	
WBI FS-1 Deliverability Reservation		dk/Month	\$2.06592	
<b>Total System Contracted Capacity</b>		<b>MDDQ</b>		<b>\$63,872,333</b>
<b>System Commodity Charges</b>				
<b>Transportation Charges</b>				
WBI FT-1 Commodity		dk	\$0.02607	
WBI FT-1 Commodity (Black Hills Exp)		dk	0.00130	
NW T-FTG-1 Commodity		dk	0.07146	
Black Hills Gas Commodity		dk	0.05000	
Viking Gas Transmission		dk	0.01290	
<b>Fuel Charges</b>				
WBI - Fuel - Transportation		dk		
NW - Fuel - Transportation		dk		
NB - Fuel - Transportation		dk		
WBI - Electric Power		dk	0.00788	
<b>Storage Charges</b>				
WBI FS-1 Injection		dk	0.01000	
WBI FS-1 Withdrawal		dk	0.01000	
WBI - Fuel - Storage		dk		
WBI - Electric Power		dk	0.00077	
<b>Subtotal - Transportation Costs</b>		<b>dk</b>		
<b>Gas Commodity Charges</b>				
Gas Commodity		<b>dk</b>		
<b>Total System Commodity Cost of Gas</b>	<b>35,099,715</b>	<b>dk</b>		<b>\$65,634,187</b>

1/ Capacity release estimated based on actual releases for the 12 months ending April 2019.  
2/ Seasonal capacity release for November 2018 - March 2019 at an average price of \$3.6967 per dk/month.  
3/ Seasonal capacity release for April 2019 - October 2019 at a price of \$0.91 per dk/month.

**MONTANA-DAKOTA UTILITIES CO.  
SUMMARY OF PIPELINE RATES  
EFFECTIVE OCTOBER 2019**

**Pipeline Rate Changes Since The October 2018 Purchased Gas Adjustment**

NOVA Gas Transmission Ltd.

MDU has renewed its NOVA Transportation Agreement that expired December 31, 2018. The new contract is a 3 year term agreement expiring December 31, 2021, with a discount on the NOVA transport of 95% of the full rate.

Approximate impact on Montana-Dakota's cost of gas: 0.1 cents per dk for North Dakota.

WBI Energy Transmission Inc. Docket No. RP19-165-003

On May 28, 2019, WBI Energy Transmission filed for expeditious approval to place interim settlement rates into effect as of May 1, 2019, pending the filing and approval of a stipulation & agreement resolving all issues in Docket No. RP19-165-000. The interim rates were accepted and authorized to be implemented pending The Commission's consideration of the Settlement by order issued May 30, 2019.

Approximate impact on Montana-Dakota's cost of gas: (24.5) cents per dk for North Dakota.

NorthWestern Energy Docket No. D2018.4.24

On December 20, 2018, NorthWestern Energy filed its Federal Tax Reform Compliance Filing reflecting rate reductions in Docket No. D2018.4.24 to be effective January 1, 2019.

Approximate impact on Montana-Dakota's cost of gas: (0.1) cents per dk for North Dakota.

WBI Energy Transmission Inc. Docket No. RP19-165-000 & 001

On April 30, 2019, WBI Energy Transmission filed a motion to place suspended tariff records in Docket No. RP19-165-000 & 001 into effect as of May 1, 2019, subject to refund.

Approximate impact on Montana-Dakota's cost of gas: 33.4 cents per dk for North Dakota.

NOVA Gas Transmission Ltd.

On April 3, 2019, TransCanada filed final 2019 rates for the Alberta System with the National Energy Board (NEB) to be effective May 1, 2019.

Approximate impact on Montana-Dakota's cost of gas: (0.1) cents per dk for North Dakota.

Black Hills Gas Distribution, LLC

Firm Transportation Service Agreement #6000621 rates have been updated and are effective April 1, 2019 through October 31, 2020.

Approximate impact on Montana-Dakota's cost of gas: 0.1 cents per dk for North Dakota.

WBI Energy Transmission Inc. Docket No. RP19-767-000

On March 1, 2019, WBI Energy Transmission filed its Annual Fuel and Electric Power Reimbursement Adjustment in Docket No. RP19-767-000 to be effective April 1, 2019.

Approximate impact on Montana-Dakota's cost of gas: (3.1) cents per dk for North Dakota.

Northern Border Pipeline Docket No. RP19-414-000

On December 6, 2018, Northern Border Pipeline Co. filed a rate reduction in its reservation rates in Docket No. RP19-414-000 to be effective February 1, 2019. Montana-Dakota's position is that the charges presented by Northern Border Pipeline should reflect the cost that Northern Border Pipeline incurs.

Approximate impact on Montana-Dakota's cost of gas: 0.0 cents per dk for North Dakota.

NorthWestern Energy Docket No. D2018.11.80

On December 7, 2018, NorthWestern Energy filed its 2018 Electric and Natural Gas Tax Tracker filing in Docket No. D2018.11.80 to be effective January 1, 2019.

Approximate impact on Montana-Dakota's cost of gas: 0.0 cents per dk for North Dakota.

NOVA Gas Transmission Ltd.

On October 30, 2018, TransCanada filed new interim rates for the Alberta System with the National Energy Board (NEB) to be effective January 1, 2019.

Approximate impact on Montana-Dakota's cost of gas: 0.1 cents per dk for North Dakota.

Foothills Pipe Lines Ltd.

On October 30, 2018, TransCanada filed new rates for the Foothills Pipe Lines Ltd. System with the National Energy Board (NEB) to be effective January 1, 2019.

Approximate impact on Montana-Dakota's cost of gas: 0.7 cents per dk for North Dakota.

### **Pipeline Rate Calculations**

Calculation of Northern Border Et Al Rate - Exhibit 4, page 4

Calculation of Northwestern Energy Demand and Commodity Charges - Exhibit 4, page 5

Calculation of South Dakota Intrastate Pipeline Transportation Charges - Exhibit 4, page 6

Calculation of Black Hills Gas Transportation Charges - Exhibit 4, page 7

### **Schedule Of Applicable Effective Pipeline Rates**

WBI Energy Transmission, Inc. - Exhibit 4, pages 8 - 13 for Schedules FT-1, FT-1 (Valley Expansion), FTN-1, and FS-1.

Northern Border Pipeline Company - Exhibit 4, page 14 for Schedule T-1.

Foothills Pipe Lines, Ltd. - Billed on a cost of service basis so there are no tariff sheets.

NOVA Gas Transmission - Exhibit 4, pages 15-16 for Schedule FT-D.

NorthWestern Energy - Exhibit 4, page 17 for Schedule T-FTG-1.

South Dakota Intrastate Pipeline - Exhibit 4, page 18 for Rate 1.

Black Hills Gas Distribution, LLC - Exhibit 4, Page 19 for Schedule TC.

Viking Gas Transmission Company - Exhibit 4, Page 20-21 for Category 3 FT-A.

**MONTANA-DAKOTA UTILITIES CO.  
CALCULATION OF NORTHERN BORDER ET AL RATE  
EFFECTIVE OCTOBER 2019**

<b>Northern Border 1/</b>	
Monchy to Mina Mileage	506.0943
Maximum Rate (Daily)	\$0.0251
Maximum Rate Per 100 Miles	<u>\$0.1270</u>
<b>Foothills (FT) Zone 9</b>	
Rate (Canadian GJ/d) 2/	\$0.1450
GJ/d conversion to MMBtu	1.0551
Currency Exchange Rate 3/	0.7537
	<u>0.1153</u>
<b>NOVA - FT-D</b>	
Demand Rate (Canadian GJ/d) 4/	\$0.1805
GJ/d conversion to MMBtu	1.0551
Currency Exchange Rate 3/	0.7537
	<u>0.1435</u>
<b>Northern Border Et Al Rate (dk/Day)</b>	<u><u>\$0.3858</u></u>
<b>Northern Border Et Al Rate (dk/Month)</b>	<u><u>\$11.7348</u></u>

- 1/ T-1 & T-1B Daily Reservation Rate, Port of Morgan, MT to Ventura, IA effective February 1, 2019. See Exhibit 4, page 12.
- 2/ Rate Schedule FT, Firm Service Zone 9, rates effective January 1, 2019.
- 3/ Exchange rate per August 28, 2019 Gas Daily.
- 4/ FT-D Demand Rate per Month, Empress/McNeill Border, rates effective May 1, 2019 (expressed as a daily rate). Includes a 5% discount rate based on 3-4 year term contract expiring 12/31/2021. See Exhibit 4, page 13-14.

**MONTANA-DAKOTA UTILITIES CO.  
NORTHWESTERN ENERGY DEMAND AND COMMODITY CHARGES  
EFFECTIVE OCTOBER 2019**

<u>Demand:</u>	<u>Billing Determinants</u>	<u>Rate</u>	<u>Annual Charge</u>
Monthly Meter Charges 1/	12	\$393.75	\$4,725
MDDQ 2/	10,700	10.115246	1,298,798
			<u>1,303,523</u>
Demand charge per dk			<u><u>\$10.15205</u></u>
<u>Commodity: 3/</u>			
Transportation (max)			\$0.059113
GTAC			0.012345
Total T-FTG-1 Rate (max)			<u><u>\$0.071458</u></u>

1/ One meter rated at >30,000 cubic feet per hour.

2/ Firm Transportation Reservation Rate (T-FTG-1), see Exhibit 4, page 15.  
50th Revised Sheet No. 80.1, effective July 1, 2019.

3/ Firm Transmission Commodity Rate (T-FTG-1)  
50th Revised Sheet No. 80.1, effective July 1, 2019.

MONTANA-DAKOTA UTILITIES CO.  
SOUTH DAKOTA INTRASTATE PIPELINE TRANSPORTATION CHARGES  
EFFECTIVE OCTOBER 2019

<u>Demand:</u>	<u>Monthly Rate 1/</u>	<u>Daily Capacity 2/</u>	<u>Total</u>
MDDQ	159,540.83	15,588	\$10.23485

1/ SD Intrastate Pipeline 1st Revised Sheet No. 1 effective September 1, 2018 through August 31, 2023, see Exhibit 4, page 16.

2/ Dk daily capacity per agreement for Montana-Dakota Utilities Co. on Firm Transportation Service.

NOTE:

Revenue credits received from South Dakota Intrastate Pipeline will be reflected in the above per unit charge if the amount becomes reasonably estimable.

Any actual revenues received will be flowed through to the deferred account.

**MONTANA-DAKOTA UTILITIES CO.  
BLACK HILLS GAS TRANSPORTATION CHARGES  
EFFECTIVE OCTOBER 2019**

<u>Demand:</u>	<u>Billing Determinants</u>	<u>Rate</u>	<u>Total</u>
Administrative Fee 1/	12	\$650	\$7,800
MDDQ 2/	2,000	8.37000	200,880
Total			\$208,680
Demand charge per dk			\$8.69500
<u>Commodity: 2/</u>			
Transportation			\$0.05

1/ Two meters @ \$325/meter. Black Hills Gas WY Rate Schedule TC, First Revised Sheet No. 9, see Exhibit 4, page 17.

2/ Discount Agreement for Montana-Dakota Utilities Co. on Firm Transportation Service Agreement #6000621 effective April 1, 2019 through October 31, 2020.

NOTICE OF CURRENTLY EFFECTIVE RATES

(ALL RATES ARE STATED IN CENTS PER DEKATHERM OR EQUIVALENT DEKATHERM AS INDICATED)

RATE SCHEDULE	UNIT	BASE TARIFF RATE	TOP THROUGHPUT SURCHARGE	GAS SUPPLY REALIGNMENT SURCHARGE	BASE TARIFF RATE PLUS SURCHARGES
-----					
RATE SCHEDULE FT-1					
-----					
RESERVATION CHARGE					
MAXIMUM DAILY DELIVERY QUANTITY (MDDQ)					
MAXIMUM	RATE PER EQV. DKT PER MO.	984.165	N.A.	N.A.	984.165
MINIMUM	RATE PER EQV. DKT PER MO	0.000	N.A.	N.A.	0.000
COMMODITY CHARGE					
MAXIMUM A/B/C/	RATE PER DKT	2.477	N.A.	N.A.	2.477
MINIMUM A/B/C/	RATE PER DKT	2.477	N.A.	N.A.	2.477
SCHEDULED OVERRUN CHARGE					
MAXIMUM A/B/C/	RATE PER DKT	34.367	N.A.	N.A.	34.367
MINIMUM A/B/C/	RATE PER DKT	2.477	N.A.	N.A.	2.477
VOLUMETRIC CAPACITY RELEASE CHARGE					
MAXIMUM	RATE PER DKT	32.356	N.A.	N.A.	32.356
MINIMUM	RATE PER DKT	0.000	N.A.	N.A.	0.000

- 
- A/ SHIPPER MUST REIMBURSE TRANSPORTER IN-KIND FOR TRANSPORTATION FUEL USE AND LOST AND UNACCOUNTED FOR GAS. THE APPLICABLE PERCENTAGES ARE REFLECTED ON SHEET NO. 21A. THESE PERCENTAGES SHALL BE APPLIED TO THE APPLICABLE QUANTITIES OF GAS TENDERED TO TRANSPORTER FOR SHIPPER'S ACCOUNT AT THE RECEIPT POINT(S) INTO TRANSPORTER'S TRANSMISSION FACILITIES.
  - B/ SHIPPER MUST REIMBURSE TRANSPORTER FOR ELECTRIC POWER USED FOR TRANSPORTATION. THE APPLICABLE RATE IS REFLECTED ON SHEET NO. 21B. THIS RATE SHALL BE APPLIED TO THE APPLICABLE QUANTITIES OF GAS TENDERED TO TRANSPORTER FOR SHIPPER'S ACCOUNT AT THE RECEIPT POINT(S) INTO TRANSPORTER'S TRANSMISSION FACILITIES.
  - C/ SHIPPER MUST REIMBURSE TRANSPORTER FOR THE ACA SURCHARGE. SUCH SURCHARGE SHALL BE THE ACA UNIT CHARGE SPECIFIED IN THE ANNUAL NOTICE ISSUED BY THE FERC ENTITLED "FY [YEAR] GAS ANNUAL CHARGES CORRECTION FOR ANNUAL CHARGES UNIT CHARGE."

Issued On: May 28, 2019  
 Docket Number: RP19-165-003  
 FERC Order Date: May 30, 2019

Effective On: May 1, 2019

NOTICE OF CURRENTLY EFFECTIVE RATES

(ALL RATES ARE STATED IN CENTS PER DEKATHERM OR EQUIVALENT DEKATHERM AS INDICATED)

RATE SCHEDULE	UNIT	BASE TARIFF RATE	TOP THROUGHPUT SURCHARGE	GAS SUPPLY REALIGNMENT SURCHARGE	BASE TARIFF RATE PLUS SURCHARGES
RATE SCHEDULE FT-1 (VALLEY EXPANSION) A/B					
RESERVATION CHARGE					
MAXIMUM DAILY DELIVERY QUANTITY (MDDQ)					
MAXIMUM	RATE PER EQV. DKT PER MO.	1890.563	N.A.	N.A.	1890.563
MINIMUM	RATE PER EQV. DKT PER MO.	0.000	N.A.	N.A.	0.000
COMMODITY CHARGE					
MAXIMUM C/D/E/	RATE PER DKT	2.477	N.A.	N.A.	2.477
MINIMUM C/D/E/	RATE PER DKT	2.477	N.A.	N.A.	2.477
SCHEDULED OVERRUN CHARGE					
MAXIMUM C/D/E/	RATE PER DKT	34.367	N.A.	N.A.	34.367
MINIMUM C/D/E/	RATE PER DKT	2.477	N.A.	N.A.	2.477
VOLUMETRIC CAPACITY RELEASE CHARGE					
MAXIMUM	RATE PER DKT	62.155	N.A.	N.A.	62.155
MINIMUM	RATE PER DKT	0.000	N.A.	N.A.	0.000

- A/ APPLICABLE ONLY FOR INCREMENTAL CAPACITY CERTIFICATED IN DOCKET NO. CP17-257-000.
- B/ REFER TO RATE SCHEDULE FT-1 FIRM TRANSPORTATION SERVICE FOR ALL TERMS AND CONDITIONS OF SERVICE.
- C/ SHIPPER MUST REIMBURSE TRANSPORTER IN-KIND FOR TRANSPORTATION FUEL USE AND LOST AND UNACCOUNTED FOR GAS. THE APPLICABLE PERCENTAGES ARE REFLECTED ON SHEET NO. 21A. THESE PERCENTAGES SHALL BE APPLIED TO THE APPLICABLE QUANTITIES OF GAS TENDERED TO TRANSPORTER FOR SHIPPER'S ACCOUNT AT THE RECEIPT POINT(S) INTO TRANSPORTER'S TRANSMISSION FACILITIES.
- D/ SHIPPER MUST REIMBURSE TRANSPORTER FOR ELECTRIC POWER USED FOR TRANSPORTATION. THE APPLICABLE RATE IS REFLECTED ON SHEET NO. 21B. THIS RATE SHALL BE APPLIED TO THE APPLICABLE QUANTITIES OF GAS TENDERED TO TRANSPORTER FOR SHIPPER'S ACCOUNT AT THE RECEIPT POINT(S) INTO TRANSPORTER'S TRANSMISSION FACILITIES.
- E/ SHIPPER MUST REIMBURSE TRANSPORTER FOR THE ACA SURCHARGE. SUCH SURCHARGE SHALL BE THE ACA UNIT CHARGE SPECIFIED IN THE ANNUAL NOTICE ISSUED BY THE FERC ENTITLED "FY [YEAR] GAS ANNUAL CHARGES CORRECTION FOR ANNUAL CHARGES UNIT CHARGE."

Issued On: May 28, 2019  
 Docket Number: RP19-165-003  
 FERC Order Date: May 30, 2019

Effective On: May 1, 2019

NOTICE OF CURRENTLY EFFECTIVE RATES

(ALL RATES ARE STATED IN CENTS PER DEKATHERM OR EQUIVALENT DEKATHERM AS INDICATED)

RATE SCHEDULE	UNIT	BASE TARIFF RATE	TOP THROUGHPUT SURCHARGE	GAS SUPPLY REALIGNMENT SURCHARGE	BASE TARIFF RATE PLUS SURCHARGES
RATE SCHEDULE FTN-1					
RESERVATION CHARGE					
MAXIMUM DAILY DELIVERY QUANTITY (MDDQ)					
MAXIMUM	RATE PER EQV. DKT PER MO.	27.069	N.A.	N.A.	27.069
MINIMUM	RATE PER EQV. DKT PER MO.	1.203	N.A.	N.A.	1.203
VOLUMETRIC CAPACITY RELEASE CHARGE					
MAXIMUM	RATE PER DKT	0.890	N.A.	N.A.	0.890
MINIMUM	RATE PER DKT	0.040	N.A.	N.A.	0.040

Issued On: May 28, 2019  
 Docket Number: RP19-165-003  
 FERC Order Date: May 30, 2019

Effective On: May 1, 2019

NOTICE OF CURRENTLY EFFECTIVE RATES

(ALL RATES ARE STATED IN CENTS PER DEKATHERM OR EQUIVALENT DEKATHERM AS INDICATED)

RATE SCHEDULE	UNIT	BASE TARIFF RATE	TOP THROUGHPUT SURCHARGE	GAS SUPPLY REALIGNMENT SURCHARGE	BASE TARIFF RATE PLUS SURCHARGES
-----					
RATE SCHEDULE FS-1					
-----					
CAPACITY RESERVATION CHARGE					
MAXIMUM	RATE PER EQV. DKT PER MO.	2.347	N.A.	N.A.	2.347
MINIMUM	RATE PER EQV. DKT PER MO.	0.000	N.A.	N.A.	0.000
CAPACITY DELIVERABILITY CHARGE					
MAXIMUM	RATE PER EQV. DKT PER MO.	206.592	N.A.	N.A.	206.592
MINIMUM	RATE PER EQV. DKT PER MO.	0.000	N.A.	N.A.	0.000
INJECTION CHARGE					
MAXIMUM A/B/	RATE PER DKT	1.000	N.A.	N.A.	1.000
MINIMUM A/B/	RATE PER DKT	1.000	N.A.	N.A.	1.000
WITHDRAWAL CHARGE					
MAXIMUM A/B/	RATE PER DKT	1.000	N.A.	N.A.	1.000
MINIMUM A/B/	RATE PER DKT	1.000	N.A.	N.A.	1.000
SCHEDULED OVERRUN CHARGE					
INJECTION					
MAXIMUM A/B/	RATE PER DKT	25.644	N.A.	N.A.	25.644
MINIMUM A/B/	RATE PER DKT	1.000	N.A.	N.A.	1.000
WITHDRAWAL					
MAXIMUM A/B/	RATE PER DKT	25.644	N.A.	N.A.	25.644
MINIMUM A/B/	RATE PER DKT	1.000	N.A.	N.A.	1.000

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- A/ SHIPPER MUST REIMBURSE TRANSPORTER IN-KIND FOR STORAGE FUEL USE AND LOST AND UNACCOUNTED FOR GAS. THE APPLICABLE PERCENTAGES ARE REFLECTED ON SHEET NO. 21A. THESE PERCENTAGES SHALL BE APPLIED TO THE APPLICABLE QUANTITIES OF GAS INJECTED AND/OR WITHDRAWN BY TRANSPORTER FOR SHIPPER'S ACCOUNT AT TRANSPORTER'S STORAGE FACILITIES.
- B/ SHIPPER MUST REIMBURSE TRANSPORTER FOR ELECTRIC POWER USED FOR STORAGE. THE APPLICABLE RATE IS REFLECTED ON SHEET NO. 21B. THIS RATE SHALL BE APPLIED TO THE APPLICABLE QUANTITIES OF GAS INJECTED AND/OR WITHDRAWN BY TRANSPORTER FOR SHIPPER'S ACCOUNT AT TRANSPORTER'S STORAGE FACILITIES.

NOTICE OF CURRENTLY EFFECTIVE RATES

-----  
 FUEL USE AND LOST AND UNACCOUNTED FOR GAS ("L&U") REIMBURSEMENT PERCENTAGES

TRANSPORTATION - RATE SCHEDULES FT-1 AND IT-1

	<u>CURRENT PERCENTAGE</u>	<u>DEFERRAL PERCENTAGE</u>	<u>TOTAL PERCENTAGE</u>
FUEL USE REIMBURSEMENT	1.397%	(0.275)%	1.122%
L&U REIMBURSEMENT	0.100%	(0.313)%	(0.213)%

GATHERING - FIRM AND INTERRUPTIBLE

	<u>CURRENT PERCENTAGE</u>	<u>DEFERRAL PERCENTAGE</u>	<u>TOTAL PERCENTAGE</u>
FUEL USE REIMBURSEMENT	4.849%	(0.072)%	4.777%
L&U REIMBURSEMENT	(0.081)%	(0.138)%	(0.219)%

STORAGE - RATE SCHEDULES FS-1 AND IS-1

	<u>CURRENT PERCENTAGE</u>	<u>DEFERRAL PERCENTAGE</u>	<u>TOTAL PERCENTAGE</u>
FUEL USE REIMBURSEMENT	0.192%	(0.341)%	(0.149)%
L&U REIMBURSEMENT	0.034%	0.160%	0.194%

Issued On: March 1, 2019  
 Docket Number: RP19-767-000  
 FERC Order Date: March 25, 2019

Effective On: April 1, 2019

NOTICE OF CURRENTLY EFFECTIVE RATES  
-----  
ELECTRIC POWER REIMBURSEMENT RATES (CENTS/DKT)

TRANSPORTATION - RATE SCHEDULES FT-1 AND IT-1

	<u>CURRENT RATE</u>	<u>DEFERRAL RATE</u>	<u>TOTAL RATE</u>
ELECTRIC POWER REIMBURSEMENT	0.881	(0.093)	0.788

GATHERING - FIRM AND INTERRUPTIBLE

	<u>CURRENT RATE</u>	<u>DEFERRAL RATE</u>	<u>TOTAL RATE</u>
ELECTRIC POWER REIMBURSEMENT	0.000	0.000	0.000

STORAGE - RATE SCHEDULES FS-1 AND IS-1

	<u>CURRENT RATE</u>	<u>DEFERRAL RATE</u>	<u>TOTAL RATE</u>
ELECTRIC POWER REIMBURSEMENT	0.000	0.077	0.077

STATEMENT OF RATES

Rate Schedule -----	Long-Term Base Tariff Rate (per 100 Dth-Miles) 1/ -----
T-1 and T-1B	
Daily Reservation Rate - Port of Morgan, MT to Ventura, IA	
Maximum	\$0.0251
Minimum	\$0.0000
Daily Reservation Rate - Ventura, IA to North Hayden, IN	
Maximum	\$0.0270
Minimum	\$0.0000
Commodity Rate - Port of Morgan, MT to North Hayden, IN	
Maximum	\$0.0004
Minimum	\$0.0004

1/ Applicable to any Rate Schedule T-1 U.S. Shippers Service Agreement or any Rate Schedule T-1B Service Agreement with a primary term of at least twelve consecutive months.

Service	Rates, Tolls and Charges	
1. Rate Schedule FT-R	Refer to Attachment "1" for applicable FT-R Demand Rate per month based on a three-year term (Price Point "B") & Surcharge for each Receipt Point Average Firm Service Receipt Price (AFSRP) \$210.74 / 10 <sup>3</sup> m <sup>3</sup> / month	
2. Rate Schedule FT-RN	Refer to Attachment "1" for applicable FT-RN Demand Rate per month & Surcharge for each Receipt Point	
3. Rate Schedule FT-D <sup>1</sup>	Refer to Attachment "2" for applicable FT-D Demand Rate per month based on a one year term (Price Point "Z") & Surcharge for each Group 1 or Group 2 Delivery Point Average FT-D Demand Rate for Group 1 Delivery Points \$5.67 / GJ / month FT-D Demand Rate for Group 2 Delivery Points \$5.48 / GJ / month FT-D Demand Rate for Group 3 Delivery Points \$6.58 / GJ / month	
4. Rate Schedule STFT	STFT Bid Price = Minimum of 100% of the applicable FT-D Demand Rate based on a one year term (Price Point "Z") for each Group 1 Delivery Point	
5. Rate Schedule FT-DW	FT-DW Bid Price = Minimum of 125% of the applicable FT-D Demand Rate based on a three year term (Price Point "Y") for each Group 1 Delivery Point	
6. Rate Schedule FT-P <sup>1</sup>	Refer to Attachment "3" for applicable FT-P Demand Rate per month	
9. Rate Schedule IT-R	Refer to Attachment "1" for applicable IT-R Rate for each Receipt Point	
10. Rate Schedule IT-D <sup>1</sup>	Refer to Attachment "2" for applicable IT-D Rate for each Delivery Point	
11. Rate Schedule FCS	The FCS Charge is determined in accordance with Attachment "1" to the applicable Schedule of Service	
12. Rate Schedule PT	The PT Charge is determined in accordance with the applicable Schedule of Service	
13. Rate Schedule OS	<u>Schedule No.</u>	<u>Charge</u>
	2018140501	\$124.84 / 10 <sup>3</sup> m <sup>3</sup> / month
	2018140508	\$124.84 / 10 <sup>3</sup> m <sup>3</sup> / month
	2018140509	\$124.84 / 10 <sup>3</sup> m <sup>3</sup> / month
	2011475772	\$9,250.00 / month
	2018151741	\$791.00 / month
	2003004522	Applicable IT-R and IT-D Rate
	2011476052 /	\$0.1802 / GJ subject to
	2011476054	\$717,000.00 Minimum Annual Charge
	2017887638 / 2011476092	\$0.095 / GJ and
	2016721799 / 2016759254	\$1,000.00 / month
14. Rate Schedule CO <sub>2</sub>	<u>Tier</u>	<u>CO<sub>2</sub> Rate (\$/10<sup>3</sup>m<sup>3</sup>)</u>
	1	554.23
	2	438.53
	3	284.72
15. Monthly Abandonment Surcharge <sup>2</sup>	\$7.77 / 10 <sup>3</sup> m <sup>3</sup> / month	\$0.21 / GJ / month
16. Daily Abandonment Surcharge <sup>3</sup>	\$0.26 / 10 <sup>3</sup> m <sup>3</sup> / day	\$0.0068 / GJ / day

1. Service under rate Schedules FT-D, FT-P and IT-D for delivery stations identified in Attachment 2, and rate Schedules OS No. 2011476092, are subject to the ATCO Pipelines Franchise Fees pursuant to paragraph 15.13 of the General Terms and Conditions.

2. Monthly Abandonment Surcharge applicable to Rate Schedules FT-R, FT-D, FT-P, FT-RN, FT-DW, and STFT, and the following Rate Schedules OS: 2018140501, 2018140508, 2018140509.

3. Daily Abandonment Surcharge applicable to Rate Schedules IT-R, IT-D, the following Rate Schedules OS: 2011476052, 2011476054, 2017887638, 2011476092, 2016721799, 2016759254, 2003004522, and if applicable Over-Run Gas.

## Final 2019 Delivery Point Rates

Page 1 of 11

Group 1 Delivery Point Number	Group 1 Delivery Point Name	FT-D Demand Rate Price Point "Z" (\$/GJ/mo)	IT-D Rate (\$/GJ/d)
2000	ALBERTA-B.C. BORDER	5.48	0.1982
31111	ALLIANCE CLAIRMONT INTERCONNECT APN	5.48	0.1982
31110	ALLIANCE EDSON INTERCONNECT APN	5.48	0.1982
31112	ALLIANCE SHELL CREEK INTERCONNECT APGC	5.48	0.1982
3002	BOUNDARY LAKE BORDER	5.48	0.1982
1958	EMPRESS BORDER	5.79	0.2094
3886	GORDONDALE BORDER	5.48	0.1982
6404	MCNEILL BORDER	5.79	0.2094

Group 2 Delivery Point Number	Group 2 Delivery Point Name	FT-D Demand Rate Price Point "Z" (\$/GJ/mo)	IT-D Rate (\$/GJ/d)	Subject to ATCO Pipelines Franchise Fees <sup>1</sup>
31000	A.T. PLASTICS SALES APN	5.48	0.1982	Yes
31001	ADM AGRI INDUSTRIES SALES APN	5.48	0.1982	Yes
3880	AECO INTERCONNECTION	5.48	0.1982	
31003	AGRIUM CARSELAND SALES APS	5.48	0.1982	
31002	AGRIUM FT. SASK SALES APN	5.48	0.1982	Yes
31004	AGRIUM REDWATER SALES APN	5.48	0.1982	
31005	AINSWORTH SALES APGP	5.48	0.1982	
31006	AIR LIQUIDE SALES APN	5.48	0.1982	
3214	AKUINU RIVER WEST SALES	5.48	0.1982	
31007	ALBERTA ENVIROFUELS SALES APN	5.48	0.1982	Yes <sup>2</sup>
31008	ALBERTA HOSPITAL SALES APN	5.48	0.1982	Yes
3868	ALBERTA-MONTANA BORDER	5.48	0.1982	
3297	ALDER FLATS SOUTH NO 2 SALES	5.48	0.1982	
3059	ALLISON CREEK SALES	5.48	0.1982	
31009	ALTASTEEL SALES APN	5.48	0.1982	Yes <sup>2</sup>
3562	AMOCO SALES (BP SALES TAP)	5.48	0.1982	
31012	APL JASPER SALES APN	5.48	0.1982	Yes
3488	ARDLEY SALES	5.48	0.1982	
3237	ASPEN SALES	5.48	0.1982	
3662	ATUSIS CREEK EAST SALES	5.48	0.1982	
3216	AURORA NO 2 SALES	5.48	0.1982	
3135	AURORA SALES	5.48	0.1982	
3288	BANTRY SALES	5.48	0.1982	
3423	BASHAW WEST SALES	5.48	0.1982	
31013	BAYMAG SALES APS	5.48	0.1982	
6112	BAY TREE SALES	5.48	0.1982	
31014	BEAR CREEK COGEN SALES APGP	5.48	0.1982	
3299	BEAR RIVER WEST SALES	5.48	0.1982	

# NorthWestern Energy

## NATURAL GAS TARIFF

Canceling  $\frac{50^{th}}{49^{th}}$  Revised  
Revised

Sheet No. 80.1  
Sheet No. 80.1

Schedule No. T-FTG-1

### TRANSPORTATION BUSINESS UNIT FIRM TRANSPORTATION NATURAL GAS SERVICE

**APPLICABILITY:** Applicable to Shippers for firm transportation service on the Utility Transmission System under the terms of a Firm Gas Transportation Service Agreement (Agreement) between the Utility Transportation Business Unit (Utility) and Shipper and as subject to Rate Schedule General Terms and Operating Conditions (Rate Schedule GTC-1).

	<u>Total Rate</u>	<u>Tax Portion of Rate</u>	<u>Rate Without Tax</u>
<b>RATES: Net Monthly Bill:</b>			
Monthly Service Charge per Meter:			
Meters Rated @ Cu. Ft. per hour			
5,000 to 10,000	\$ 123.50		\$ 123.50
10,001 to 30,000	\$ 177.45		\$ 177.45
>30,000	\$ 393.75		\$ 393.75
<b>PLUS:</b>			
Transmission Reservation Rate (MDDQ):			
Maximum Monthly Reservation Rate for Maximum Daily Delivery Quantity (MDDQ)	\$ 1.0115246	\$ 0.2992478	\$ 0.7122768
Transmission Commodity Rate (Therm):			
Maximum	\$ 0.0059113	\$ 0.0022698	\$ 0.0036415
Minimum	\$ 0.0017935		\$ 0.0017935
GTAC Amortization	\$ 0.0012345		\$ 0.0012345
Balancing Penalty Rate	Higher of \$25.00/ Dekatherm Or 150% of Market Price		

**TAX PORTION OF RATE:** This rate represents the amount charged to customers for state and local taxes and fees and is separately disclosed on customer's bill.

**PLUS:**

**OTHER APPLICABLE CHARGES:** All charges contained on other applicable rate schedules approved by the Public Service Commission of Montana.

**GAS TRANSPORTATION ADJUSTMENT CLAUSE:** Pursuant to MPSC Order the above GTAC Amortization shall be in effect until the balance is extinguished.

**MINIMUM BILL:** Per respective contracts.

(continued)

Docket No.: D2018.7.46, Interim Order No. 7678  
Commission Approved: June 27, 2018  
Tariff Letter No.: 322-G  
Agenda No.: 19-06-27

Effective for services rendered on or  
after July 1, 2018  
*Sandra Kessel*  
Administrative Assistant



STATE OF SOUTH DAKOTA  
GAS RATE SCHEDULE

South Dakota Intrastate Pipeline Company  
1415 N. Airport Road  
Pierre, SD 57501

SD P.U.C. Section 3  
1<sup>st</sup> Revised Sheet No. 1  
Cancelling Original Sheet No. 1

FIRM TRANSPORTATION SERVICE Rate 1

Transportation rate is \$159,540.83 monthly for Firm Service effective September 1, 2018 through August 31, 2023. R

The Transportation rate is \$149,663.42 monthly for Firm Service effective September 1, 2023, if South Dakota Intrastate Pipeline Company has not submitted a new application for rates, with an effective date prior to August 31, 2023. N  
N  
N

Revenue credits shall be applicable as set forth in the Contract for Firm Transportation Service. N

All general terms and conditions of Service shall be set forth in a Firm Transportation Service Agreement executed by the customer and South Dakota Intrastate Pipeline Company N  
N

Date Filed: June 20, 2018

Effective Date: September 1, 2018

Issued by: Lisa A. Murphy, Vice President-Chief Financial Officer

Docket No.: NG17-009



Statement of Firm and Interruptible Transportation Service Rates  
Applicable to Shippers Not Receiving  
Choice Gas Service  
Rate Schedule TC 1/  
Casper Division

<u>Division</u>	<u>Receipt Point</u>	<u>Delivery Point</u>	<u>Monthly Customer Charge</u>	<u>Maximum Demand Charge 6/</u>	<u>Minimum Demand Charge 6/</u>	<u>Maximum Transportation Charge 2/</u>	<u>Minimum Transportation Charge 2/</u>	<u>Fuel Reimbursement Quantity Percentage 3/</u>
TC (Casper)								
Firm								
Transportation	MLI	MLI	\$0.00	\$9.50	\$0.00	\$0.1040	\$0.0010	0.351%
	MLI	MLE	\$145.00	\$0.00	\$0.00	\$0.1040	\$0.0010	0.351%
	MLI	DSE	\$225.00	\$0.00	\$0.00	\$0.1703	\$0.0020	1.743%
Interruptible								
Transportation 4/	MLI	MLI	\$0.00	\$0.00	\$0.00	\$0.0844	\$0.0010	0.351%
	MLI	MLE	\$145.00	\$0.00	\$0.00	\$0.0844	\$0.0010	0.351%
Administrative Fee								
5/			\$325.00					

- 1/ Casper Division service area is defined on Sheet Nos. 2 and 3 of this Tariff.
- 2/ All charges are per therm.
- 3/ For fuel, lost and unaccounted for gas, the Company shall be entitled to retain the stated percentage of all therms received for transportation, unless otherwise agreed in writing. Further details are given on Sheet No. 56 section 14A.
- 4/ Interruptible Transportation Service is not available to Distribution System End-user Customers. The Customer Charge will be charged only for those months gas actually flows.
- 5/ In addition to the transportation charges stated above, Shippers are responsible for the monthly administrative fee as stated, applicable to each meter located at the Customer location. For Interruptible Transportation Shippers, the Administrative Fee will be charged only for those months gas actually flows. Firm Transportation Shippers will be charged each month, regardless of gas flow.
- 6/ Per Dth of MDTQ per month.

Abbreviations (as defined in the General Terms and Conditions of this Tariff):  
 MLI Mainline System Interconnect  
 MLE Mainline System End-user  
 DSE Distribution System End-user  
 MDTQ Maximum Daily Transportation Quantity

STATEMENT OF RATES  
(Rates Per Dekatherm)

Currently Effective Term-Differentiated Rates

Rate Schedule	Base Tariff Rate
<u>Category 1 (Contract Term of Less than 3 Years)</u>	
Monthly Reservation Rates	
FT-A	
Zone 1-1 Maximum Rate	\$4.7507
Zone 1-1 Minimum Rate	\$0.0000
Zone 1-2 Maximum Rate 1/	\$5.7394
Zone 1-2 Minimum Rate	\$0.0000
Zone 2-2 Maximum Rate	\$3.3143
Zone 2-2 Minimum Rate	\$0.0000
<u>Category 2 (Contract Term of 3 Years to less than 5 Years)</u>	
Monthly Reservation Rates	
FT-A	
Zone 1-1 Maximum Rate	\$4.5607
Zone 1-1 Minimum Rate	\$0.0000
Zone 1-2 Maximum Rate	\$5.5494
Zone 1-2 Minimum Rate	\$0.0000
Zone 2-2 Maximum Rate	\$3.1243
Zone 2-2 Minimum Rate	\$0.0000
<u>Category 3 (Contract Term of 5 or more Years)</u>	
Monthly Reservation Rates	
FT-A	
Zone 1-1 Maximum Rate	\$4.3706
Zone 1-1 Minimum Rate	\$0.0000
Zone 1-2 Maximum Rate	\$5.3593
Zone 1-2 Minimum Rate	\$0.0000
Zone 2-2 Maximum Rate	\$2.9343
Zone 2-2 Minimum Rate	\$0.0000

1/ Throughout Viking's Statement of Rates and Tariff, "Zone 1-2" shall mean Transportation Service for quantities received in Zone 1 and delivered in Zone 2 or received in Zone 2 and delivered in Zone 1 whether by transport, exchange, or Displacement.

Rate Schedule	Base Tariff Rate	Fuel and Loss Retention Percentages 2/
Commodity Rates 1/		
FT-A – Maximum Rates		
Zone 1-1	\$0.0116	0.80%
Zone 1-2	\$0.0116	1.04%
Zone 2-2	\$0.0116	0.24%
Minimum Rate	\$0.0116	
IT and AOT		
Zone 1-1	\$0.1678	0.80%
Zone 1-2	\$0.2003	1.04%
Zone 2-2	\$0.1206	0.24%
Minimum Rate	\$0.0116	

1/ Pursuant to Section 19 of the General Terms and Conditions, the maximum and minimum commodity rates shall be increased to include the Commission-authorized Annual Charge Adjustment unit rate as published on the Commission's Web Site located at <http://www.ferc.gov>.

2/ The Fuel and Loss Retention Percentages shall be applicable to all transportation rate schedules and includes the following Gas Lost and Unaccounted For Percentages: 0.00% for Zone 1-1, 0.00% for Zone 1-2, and 0.00% for Zone 2-2. Transportation entirely by Displacement will incur only the Gas Lost and Unaccounted For Percentages.

Rate Schedule	Base Tariff Rate	Adjustment Under Section 27 1/	Rate After Current Adjustment
LMS – Monthly Demand Rate	\$1.00		\$1.00
LMS – Daily Overrun Rate	\$0.2003		\$0.2003
LMS – Load Management Cost Reconciliation Adjustment		\$0.0347	

1/ Pursuant to Section 27 of the General Terms and Conditions of this Tariff, a mechanism is established to reconcile through surcharges or credits to the Rate Schedule LMS rate, as appropriate, differences between the cost to maintain Company's line pack gas and the amounts Company receives or pays for such gas arising out of the purchase and sale of such gas.

Rate Schedule	Maximum Rate Per Dekatherm	Minimum Rate Per Dekatherm
PAL		
NPL, OPL, and APL Service:		
Daily Commodity Rate	\$0.2003	\$0.0000
RPL Service:		
Daily Reservation Rate	\$0.2003	\$0.0000

**MONTANA-DAKOTA UTILITIES CO.  
RETURN ON CYCLE STORAGE BALANCES  
AND PREPAID DEMAND AND COMMODITY BALANCES  
NORTH DAKOTA GAS  
EFFECTIVE OCTOBER 2019**

	General Service		
	Storage Balance 1/	Prepaid Commodity Balance 2/	Prepaid Demand 1/
October 2019	\$10,204,254	\$339,294	\$5,844,163
November	8,616,097	297,388	4,770,595
December	5,341,176	210,975	2,308,679
January 2020	3,859,448	164,492	(518,520)
February	1,430,925	88,306	(2,583,621)
March	245,724	51,125	(3,782,540)
April	451,739	57,588	(3,489,015)
May	2,677,094	127,400	(2,020,587)
June	4,436,376	182,591	(51,156)
July	6,264,295	239,935	1,900,823
August	8,168,074	293,958	3,851,032
September	9,888,713	342,626	5,564,059
October	10,059,916	347,478	5,887,623
13 month average	<u>\$5,511,064</u>	<u>\$211,012</u>	<u>\$1,360,118</u>
Rate of Return	7.236%	7.236%	7.236%
Return	\$398,781	\$15,269	\$98,418
Return Requirement	<u>\$484,092</u>	<u>\$18,535</u>	<u>\$119,473</u>

1/ Allocated on percent of Contracted Capacity.

2/ Allocated on Total Normalized Firm Dk Deliveries.

**MONTANA-DAKOTA UTILITIES CO.  
COMPUTATION OF (OVER) / UNDER RECOVERED GAS COST ADJUSTMENT  
APPLICABLE TO NORTH DAKOTA  
FIRM  
TO BE EFFECTIVE OCTOBER 1, 2019 THROUGH SEPTEMBER 30, 2020**

(Over)/under recovered gas costs @ July 31, 2019 (\$2,780,176)

Less: Projected recovery from rates already established

	Volume	Rate	Amount
August	264,000	(\$0.214)	(56,496)
September	395,000	(0.214)	(84,530)
	659,000		(141,026)

Additional recovery required (\$2,639,150)

Projected sales volumes (dk)

October 2019		1,168,000	
November		1,989,000	
December		2,778,000	
January 2020		2,978,000	
February		2,546,000	
March		2,055,000	
April		1,209,000	
May		543,000	
June		259,000	
July		268,000	
August		269,000	
September		403,000	
Total			16,465,000

Total (over)/under recovered gas cost adjustment  
to be effective October 1, 2019 through September 30, 2020 (\$0.160)

**MONTANA-DAKOTA UTILITIES CO.  
COMPUTATION OF (OVER) / UNDER RECOVERED GAS COST ADJUSTMENT  
APPLICABLE TO NORTH DAKOTA  
INTERRUPTIBLE  
TO BE EFFECTIVE OCTOBER 1, 2019 THROUGH SEPTEMBER 30, 2020**

(Over)/under recovered gas costs @ July 31, 2019 \$169,464

Less: Projected recovery from rates already established

	Volume	Rate	Amount
August	22,000	(\$0.021)	(462)
September	20,000	(0.021)	(420)
	42,000		(882)

Additional recovery required \$170,346

Projected sales volumes (dk)

October 2019		77,000	
November		86,000	
December		78,000	
January 2020		83,000	
February		73,000	
March		61,000	
April		40,000	
May		23,000	
June		15,000	
July		20,000	
August		22,000	
September		20,000	
Total			<u>598,000</u>

Total (over)/under recovered gas cost adjustment  
to be effective October 1, 2019 through September 30, 2020 \$0.285

**MONTANA-DAKOTA UTILITIES CO.  
COMPUTATION OF (OVER) / UNDER RECOVERED GAS COST ADJUSTMENT  
APPLICABLE TO NORTH DAKOTA  
AIR FORCE INTERRUPTIBLE  
TO BE EFFECTIVE OCTOBER 1, 2019 THROUGH SEPTEMBER 30, 2020**

(Over)/under recovered gas costs @ July 31, 2019 \$47,615

Less: Projected recovery from rates already established

	Volume	Rate	Amount
August	20,000	(\$0.032)	(640)
September	26,000	(0.032)	(832)
	46,000		(1,472)

Additional recovery required \$49,087

Projected sales volumes (dk)

October 2019	42,000		
November	53,000		
December	73,000		
January 2020	77,000		
February	68,000		
March	55,000		
April	35,000		
May	26,000		
June	12,000		
July	13,000		
August	20,000		
September	26,000		
Total			500,000

Total (over)/under recovered gas cost adjustment  
to be effective October 1, 2019 through September 30, 2020 \$0.098

**MONTANA-DAKOTA UTILITIES CO.  
COMPUTATION OF (OVER) / UNDER RECOVERED GAS COST ACCOUNT BALANCE  
APPLICABLE TO NORTH DAKOTA  
FIRM**

	(Over) Under Recovery	Refunds & Other	Interest 1/	Total Net Additions	Actual Dk Sales	Adjustment Per Dk	Total Adjustment Amount	Net Change- Additions less Adjustment	Cumulative Balance
<b>Balance @ July 31, 2018</b>									<b><u>(\$3,442,975)</u></b>
August	(\$391,755)	\$0	(\$5,804)	(\$397,559)	307,795	\$0.025	\$7,695	(\$405,254)	(3,848,229)
September	(133,072)	0	(6,799)	(139,871)	295,043	0.025	7,376	(147,247)	(3,995,476)
October	(353,621)	0	(7,446)	(361,067)	858,381	(0.214)	(63,597) 2/	(297,470)	(4,292,946)
November	(304,596)	0	(8,274)	(312,870)	1,391,043	(0.214)	(297,683)	(15,187)	(4,308,133)
December	669,703	0	(8,433)	661,270	2,198,123	(0.214)	(470,398)	1,131,668	(3,176,465)
January 2019	1,123,285	0	(6,185)	1,117,100	2,564,141	(0.214)	(548,726)	1,665,826	(1,510,639)
February	(752,515)	0	(2,913)	(755,428)	3,105,006	(0.214)	(664,471)	(90,957)	(1,601,596)
March	(1,517,963)	(17,728) 3/	(3,107)	(1,538,798)	3,164,059	(0.214)	(677,109)	(861,689)	(2,463,285)
April	(214,127)	0	(4,790)	(218,917)	1,863,605	(0.214)	(398,811)	179,894	(2,283,391)
May	(215,338)	0	(4,372)	(219,710)	1,123,789	(0.214)	(240,490)	20,780	(2,262,611)
June	(466,543)	0	(3,994)	(470,537)	628,613	(0.214)	(134,524)	(336,013)	(2,598,624)
July	(252,019)	0	(4,447)	(256,466)	350,066	(0.214)	(74,914)	(181,552)	(2,780,176)
	<u>(\$2,808,561)</u>	<u>(\$17,728)</u>	<u>(\$66,564)</u>	<u>(\$2,892,853)</u>	17,849,664		<u>(\$3,555,652)</u>	\$662,799	<b><u>(\$2,780,176)</u></b>

**Balance @ July 31, 2019**

- 1/ Interest calculated at Three Month Treasury Bill rate.  
2/ Reflects 355,887 @ (\$0.214) and 502,494 dk @ \$0.025.  
3/ Unrefunded interim balance credit in Case No. PU-17-295.

**MONTANA-DAKOTA UTILITIES CO.**  
**COMPUTATION OF (OVER) / UNDER RECOVERED GAS COST ACCOUNT BALANCE**  
**APPLICABLE TO NORTH DAKOTA**  
**INTERRUPTIBLE**

	<u>(Over) Under Recovery</u>	<u>Refunds &amp; Other</u>	<u>Interest 1/</u>	<u>Total Net Additions</u>	<u>Actual Dk Sales</u>	<u>Adjustment Per Dk</u>	<u>Total Adjustment Amount</u>	<u>Net Change- Additions less Adjustment</u>	<u>Cumulative Balance</u>
<b>Balance @ July 31, 2018</b>									<b><u>(\$17,036)</u></b>
August	(\$2,256)	\$0	(\$29)	(\$2,285)	21,725	\$0.005	\$110	(\$2,395)	(19,431)
September	3,335	0	(35)	3,300	20,732	0.005	103	3,197	(16,234)
October	(2,617)	0	(31)	(2,648)	37,071	(0.021)	49 2/	(2,697)	(18,931)
November	22,875	0	(37)	22,838	96,852	(0.021)	(2,033)	24,871	5,940
December	94,271	0	11	94,282	130,916	(0.021)	(2,750)	97,032	102,972
January 2019	42,317	0	203	42,520	90,396	(0.021)	(1,899)	44,419	147,391
February	2,513	0	293	2,806	101,561	(0.021)	(2,132)	4,938	152,329
March	6,395	(3) 3/	303	6,695	96,964	(0.021)	(2,036)	8,731	161,060
April	10,561	0	317	10,878	76,825	(0.021)	(1,613)	12,491	173,551
May	1,112	0	337	1,449	49,341	(0.021)	(1,037)	2,486	176,037
June	(3,552)	0	315	(3,237)	30,954	(0.021)	(650)	(2,587)	173,450
July	(4,736)	0	300	(4,436)	21,430	(0.021)	(450)	(3,986)	169,464
	<u>\$170,218</u>	<u>(\$3)</u>	<u>\$1,947</u>	<u>\$172,162</u>	<u>774,767</u>		<u>(\$14,338)</u>	<u>\$186,500</u>	<b><u>\$169,464</u></b>
<b>Balance @ July 31, 2019</b>									

1/ Interest calculated at Three Month Treasury Bill rate.  
2/ Reflects 5,276 dk @ (\$0.021) and 31,795 dk @ \$0.005.  
3/ Unrefunded interim balance credit in Case No. PU-17-295.

**MONTANA-DAKOTA UTILITIES CO.  
COMPUTATION OF (OVER) / UNDER RECOVERED GAS COST ACCOUNT BALANCE  
APPLICABLE TO NORTH DAKOTA  
AIR FORCE**

	(Over) Under Recovery	Refunds & Other	Interest 1/	Total Net Additions	Actual Dk Sales	Adjustment Per Dk	Total Adjustment Amount	Net Change- Additions less Adjustment	Cumulative Balance
<b>Balance @ July 31, 2018</b>									<b><u>(\$14,070)</u></b>
August	(\$21,693)	\$0	(\$24)	(\$21,717)	3,948	(\$0.020)	(\$79)	(\$21,638)	(35,708)
September	(4,143)	0	(63)	(4,206)	4,446	(0.020)	(89)	(4,117)	(39,825)
October	1,196	0	(74)	1,122	12,738	(0.032)	(255) 2/	1,377	(38,448)
November	(7,622)	0	(74)	(7,696)	30,393	(0.032)	(972)	(6,724)	(45,172)
December	24,368	0	(89)	24,279	47,356	(0.032)	(1,516)	25,795	(19,377)
January 2019	33,787	0	(38)	33,749	52,272	(0.032)	(1,673)	35,422	16,045
February	6,745	0	33	6,778	67,085	(0.032)	(2,146)	8,924	24,969
March	196	0	50	246	70,634	(0.032)	(2,260)	2,506	27,475
April	11,618	0	55	11,673	50,837	(0.032)	(1,627)	13,300	40,775
May	4,635	0	80	4,715	27,774	(0.032)	(889)	5,604	46,379
June	(3,450)	0	84	(3,366)	17,000	(0.032)	(543)	(2,823)	43,556
July	3,812	0	76	3,888	5,343	(0.032)	(171)	4,059	47,615
	<u>\$49,449</u>	<u>\$0</u>	<u>\$16</u>	<u>\$49,465</u>	<u>389,826</u>		<u>(\$12,220)</u>	<u>\$61,685</u>	<b><u>\$47,615</u></b>
<b>Balance @ July 31, 2019</b>									

1/ Interest calculated at Three Month Treasury Bill rate.

2/ Reflects 0 dk @ (\$.032) and 12,738 dk @ (\$.020).

**MONTANA-DAKOTA UTILITIES CO.**  
**CALCULATION OF (OVER) UNDER RECOVERY OF GAS COSTS**  
**APPLICABLE TO NORTH DAKOTA**  
**FIRM**

	Residential and Firm General				Seasonal	Total
	1/	2/	3/	Total		
<u>August 2018</u>						
Cost of Gas - Actual	\$3.05994	\$2.08447	\$3.05994		\$2.64798	
Cost of Gas - Recovered	3.49000	3.49000	3.49000		2.37500	
(Over) Under recovery per dk	(\$0.43006)	(\$1.40553)	(\$0.43006)		\$0.27298	
dk billed	0	4/ 267,620	37,800	305,420	2,375	307,795
(Over) Under recovery	\$0	(\$376,147)	(\$16,256)	(\$392,403)	\$648	(\$391,755)
<u>September 2018</u>						
Cost of Gas - Actual	\$3.31292	\$3.05994	\$3.31292		\$2.52691	
Cost of Gas - Recovered	3.68400	3.49000	3.49000		2.37500	
(Over) Under recovery per dk	(\$0.37108)	(\$0.43006)	(\$0.17708)		\$0.15191	
dk billed	100,444	243,510	(49,712)	294,242	801	295,043
(Over) Under recovery	(\$37,273)	(\$104,724)	\$8,803	(\$133,194)	\$122	(\$133,072)
<u>October 2018</u>						
Cost of Gas - Actual	\$3.23454	\$3.31292	\$3.23454		\$2.42257	
Cost of Gas - Recovered	3.69900	3.68400	3.68400		2.51500	
(Over) Under recovery per dk	(\$0.46446)	(\$0.37108)	(\$0.44946)		(\$0.09243)	
dk billed	355,887	477,023	25,089	857,999	382	858,381
(Over) Under recovery	(\$165,295)	(\$177,014)	(\$11,277)	(\$353,586)	(\$35)	(\$353,621)
<u>November 2018</u>						
Cost of Gas - Actual	\$4.12268	\$3.23454	\$4.12268		\$4.17842	
Cost of Gas - Recovered	3.92200	3.69900	3.69900		3.79400	
(Over) Under recovery per dk	\$0.20068	(\$0.46446)	\$0.42368		\$0.38442	
dk billed	491,049	883,228	16,284	1,390,561	482	1,391,043
(Over) Under recovery	\$98,544	(\$410,224)	\$6,899	(\$304,781)	\$185	(\$304,596)
<u>December 2018</u>						
Cost of Gas - Actual	\$5.16609	\$4.12268	\$5.16609		\$5.25480	
Cost of Gas - Recovered	4.48500	3.92200	3.92200		4.04500	
(Over) Under recovery per dk	\$0.68109	\$0.20068	\$1.24409		\$1.20980	
dk billed	667,917	1,618,632	(89,208)	2,197,341	782	2,198,123
(Over) Under recovery	\$454,912	\$324,827	(\$110,983)	\$668,756	\$947	\$669,703
<u>January 2019</u>						
Cost of Gas - Actual	\$4.35301	\$5.16609	\$4.35301		\$4.69940	
Cost of Gas - Recovered	4.48500	4.48500	4.48500		4.60900	
(Over) Under recovery per dk	(\$0.13199)	\$0.68109	(\$0.13199)		\$0.09040	
dk billed	0	4/ 1,797,534	765,770	2,563,304	837	2,564,141
(Over) Under recovery	\$0	\$1,224,283	(\$101,074)	\$1,123,209	\$76	\$1,123,285

**MONTANA-DAKOTA UTILITIES CO.**  
**CALCULATION OF (OVER) UNDER RECOVERY OF GAS COSTS**  
**APPLICABLE TO NORTH DAKOTA**  
**FIRM**

	Residential and Firm General				Seasonal	Total
	1/	2/	3/	Total		
<u>February 2019</u>						
Cost of Gas - Actual	\$3.61601	\$4.35301	\$3.61601		\$4.32887	
Cost of Gas - Recovered	4.19800	4.48500	4.48500		4.60900	
(Over) Under recovery per dk	(\$0.58199)	(\$0.13199)	(\$0.86899)		(\$0.28013)	
dk billed	1,057,885	2,227,418	(181,119)	3,104,184	822	3,105,006
(Over) Under recovery	(\$615,678)	(\$293,998)	\$157,391	(\$752,285)	(\$230)	(\$752,515)
<u>March 2019</u>						
Cost of Gas - Actual	\$4.03888	\$3.61601	\$4.03888		\$4.53970	
Cost of Gas - Recovered	4.19800	4.19800	4.19800		4.32200	
(Over) Under recovery per dk	(\$0.15912)	(\$0.58199)	(\$0.15912)		\$0.21770	
dk billed	0 4/	2,399,964	763,099	3,163,063	996	3,164,059
(Over) Under recovery	\$0	(\$1,396,755)	(\$121,425)	(\$1,518,180)	\$217	(\$1,517,963)
<u>April 2019</u>						
Cost of Gas - Actual	\$3.78179	\$4.03888	\$3.78179		\$4.15043	
Cost of Gas - Recovered	3.87700	4.19800	4.19800		4.32200	
(Over) Under recovery per dk	(\$0.09521)	(\$0.15912)	(\$0.41621)		(\$0.17157)	
dk billed	488,393	1,573,685	(199,172)	1,862,906	699	1,863,605
(Over) Under recovery	(\$46,500)	(\$250,404)	\$82,897	(\$214,007)	(\$120)	(\$214,127)
<u>May 2019</u>						
Cost of Gas - Actual	\$3.21031	\$3.78179	\$3.21031		\$3.83761	
Cost of Gas - Recovered	3.87700	3.87700	3.87700		4.00000	
(Over) Under recovery per dk	(\$0.66669)	(\$0.09521)	(\$0.66669)		(\$0.16239)	
dk billed	0 4/	933,690	189,513	1,123,203	586	1,123,789
(Over) Under recovery	\$0	(\$88,897)	(\$126,346)	(\$215,243)	(\$95)	(\$215,338)
<u>June 2019</u>						
Cost of Gas - Actual	\$3.42793	\$3.21031	\$3.42793		\$3.91200	
Cost of Gas - Recovered	4.21700	3.87700	3.87700		4.00000	
(Over) Under recovery per dk	(\$0.78907)	(\$0.66669)	(\$0.44907)		(\$0.08800)	
dk billed	152,110	611,979	(137,262)	626,827	1,786	628,613
(Over) Under recovery	(\$120,026)	(\$408,000)	\$61,640	(\$466,386)	(\$157)	(\$466,543)
<u>July 2019</u>						
Cost of Gas - Actual	\$3.13369	\$3.42793	\$3.13369		\$2.32990	
Cost of Gas - Recovered	3.90800	4.21700	4.21700		2.44600	
(Over) Under recovery per dk	(\$0.77431)	(\$0.78907)	(\$1.08331)		(\$0.11610)	
dk billed	109,025	308,898	(70,579)	347,344	2,722	350,066
(Over) Under recovery	(\$84,419)	(\$243,743)	\$76,459	(\$251,703)	(\$316)	(\$252,019)

1/ Consumed in current month.

2/ Consumed in prior month.

3/ True-up of prior month volumes.

4/ No change in the PGA. Current month volumes are included in the true-up.

**MONTANA-DAKOTA UTILITIES CO.  
CALCULATION OF (OVER) UNDER RECOVERY OF GAS COSTS  
APPLICABLE TO NORTH DAKOTA  
INTERRUPTIBLE**

	1/	2/	3/	Total
<u>August 2018</u>				
Cost of Gas - Actual	\$2.59026	\$1.85222	\$2.59026	
Cost of Gas - Recovered	2.42500	2.42500	2.42500	
(Over) Under recovery per dk	\$0.16526	(\$0.57278)	\$0.16526	
dk billed	0 4/	7,921	13,804	21,725
(Over) Under recovery	\$0	(\$4,537)	\$2,281	(\$2,256)
<u>September 2018</u>				
Cost of Gas - Actual	\$2.64691	\$2.59026	\$2.64691	
Cost of Gas - Recovered	2.63300	2.42500	2.42500	
(Over) Under recovery per dk	\$0.01391	\$0.16526	\$0.22191	
dk billed	3,783	8,449	8,500	20,732
(Over) Under recovery	\$53	\$1,396	\$1,886	\$3,335
<u>October 2018</u>				
Cost of Gas - Actual	\$2.52054	\$2.64691	\$2.52054	
Cost of Gas - Recovered	2.64900	2.63300	2.63300	
(Over) Under recovery per dk	(\$0.12846)	\$0.01391	(\$0.11246)	
dk billed	5,276	12,951	18,844	37,071
(Over) Under recovery	(\$678)	\$180	(\$2,119)	(\$2,617)
<u>November 2018</u>				
Cost of Gas - Actual	\$3.06772	\$2.52054	\$3.06772	
Cost of Gas - Recovered	2.55000	2.64900	2.64900	
(Over) Under recovery per dk	\$0.51772	(\$0.12846)	\$0.41872	
dk billed	19,353	35,811	41,688	96,852
(Over) Under recovery	\$10,019	(\$4,600)	\$17,456	\$22,875
<u>December 2018</u>				
Cost of Gas - Actual	\$3.76250	\$3.06772	\$3.76250	
Cost of Gas - Recovered	3.12300	2.55000	2.55000	
(Over) Under recovery per dk	\$0.63950	\$0.51772	\$1.21250	
dk billed	21,563	75,001	34,352	130,916
(Over) Under recovery	\$13,789	\$38,830	\$41,652	\$94,271
<u>January 2019</u>				
Cost of Gas - Actual	\$3.21303	\$3.76250	\$3.21303	
Cost of Gas - Recovered	3.12300	3.12300	3.12300	
(Over) Under recovery per dk	\$0.09003	\$0.63950	\$0.09003	
dk billed	0 4/	62,203	28,193	90,396
(Over) Under recovery	\$0	\$39,779	\$2,538	\$42,317

**MONTANA-DAKOTA UTILITIES CO.  
CALCULATION OF (OVER) UNDER RECOVERY OF GAS COSTS  
APPLICABLE TO NORTH DAKOTA  
INTERRUPTIBLE**

	<u>1/</u>	<u>2/</u>	<u>3/</u>	<u>Total</u>
<u>February 2019</u>				
Cost of Gas - Actual	\$2.82204	\$3.21303	\$2.82204	
Cost of Gas - Recovered	2.81000	3.12300	3.12300	
(Over) Under recovery per dk	\$0.01204	\$0.09003	(\$0.30096)	
dk billed	7,222	78,822	15,517	101,561
(Over) Under recovery	<u>\$87</u>	<u>\$7,096</u>	<u>(\$4,670)</u>	\$2,513
<u>March 2019</u>				
Cost of Gas - Actual	\$3.02692	\$2.82204	\$3.02692	
Cost of Gas - Recovered	2.81000	2.81000	2.81000	
(Over) Under recovery per dk	\$0.21692	\$0.01204	\$0.21692	
dk billed	0 4/	71,451	25,513	96,964
(Over) Under recovery	<u>\$0</u>	<u>\$860</u>	<u>\$5,535</u>	\$6,395
<u>April 2019</u>				
Cost of Gas - Actual	\$2.64394	\$3.02692	\$2.64394	
Cost of Gas - Recovered	2.50600	2.81000	2.81000	
(Over) Under recovery per dk	\$0.13794	\$0.21692	(\$0.16606)	
dk billed	7,984	54,547	14,294	76,825
(Over) Under recovery	<u>\$1,101</u>	<u>\$11,833</u>	<u>(\$2,373)</u>	\$10,561
<u>May 2019</u>				
Cost of Gas - Actual	\$2.33142	\$2.64394	\$2.33142	
Cost of Gas - Recovered	2.50600	2.50600	2.50600	
(Over) Under recovery per dk	(\$0.17458)	\$0.13794	(\$0.17458)	
dk billed	0 4/	31,121	18,220	49,341
(Over) Under recovery	<u>\$0</u>	<u>\$4,293</u>	<u>(\$3,181)</u>	\$1,112
<u>June 2019</u>				
Cost of Gas - Actual	\$2.48024	\$2.33142	\$2.48024	
Cost of Gas - Recovered	2.59600	2.50600	2.50600	
(Over) Under recovery per dk	(\$0.11576)	(\$0.17458)	(\$0.02576)	
dk billed	5,039	15,460	10,455	30,954
(Over) Under recovery	<u>(\$583)</u>	<u>(\$2,699)</u>	<u>(\$270)</u>	(\$3,552)
<u>July 2019</u>				
Cost of Gas - Actual	\$2.26774	\$2.48024	\$2.26774	
Cost of Gas - Recovered	2.47100	2.59600	2.59600	
(Over) Under recovery per dk	(\$0.20326)	(\$0.11576)	(\$0.32826)	
dk billed	4,642	8,090	8,698	21,430
(Over) Under recovery	<u>(\$944)</u>	<u>(\$937)</u>	<u>(\$2,855)</u>	(\$4,736)

1/ Consumed in current month.

2/ Consumed in prior month.

3/ True-up of prior month volumes.

4/ No change in the PGA. Current month volumes are included in the true-up.

**MONTANA-DAKOTA UTILITIES CO.  
CALCULATION OF (OVER) UNDER RECOVERY OF GAS COSTS  
APPLICABLE TO NORTH DAKOTA  
AIR FORCE**

	<u>1/</u>	<u>2/</u>	<u>Total</u>
<u>August 2018</u>			
Cost of Gas - Actual	(\$0.78793)	\$1.84139	
Cost of Gas - Recovered	2.41400	2.41400	
(Over) Under recovery per dk	<u>(\$3.20193)</u>	<u>(\$0.57261)</u>	
dk billed	7,390	(3,442)	3,948
(Over) Under recovery	<u>(\$23,664)</u>	<u>\$1,971</u>	(\$21,693)
<u>September 2018</u>			
Cost of Gas - Actual	\$1.84139	\$2.64123	
Cost of Gas - Recovered	2.41400	2.41400	
(Over) Under recovery per dk	<u>(\$0.57261)</u>	<u>\$0.22723</u>	
dk billed	6,443	(1,997)	4,446
(Over) Under recovery	<u>(\$3,689)</u>	<u>(\$454)</u>	(\$4,143)
<u>October 2018</u>			
Cost of Gas - Actual	\$2.64123	\$2.41360	
Cost of Gas - Recovered	2.62100	2.62100	
(Over) Under recovery per dk	<u>\$0.02023</u>	<u>(\$0.20740)</u>	
dk billed	16,859	(4,121)	12,738
(Over) Under recovery	<u>\$341</u>	<u>\$855</u>	\$1,196
<u>November 2018</u>			
Cost of Gas - Actual	\$2.41360	\$3.06703	
Cost of Gas - Recovered	2.63700	2.63700	
(Over) Under recovery per dk	<u>(\$0.22340)</u>	<u>\$0.43003</u>	
dk billed	31,667	(1,274)	30,393
(Over) Under recovery	<u>(\$7,074)</u>	<u>(\$548)</u>	(\$7,622)
<u>December 2018</u>			
Cost of Gas - Actual	\$3.06703	\$3.74475	
Cost of Gas - Recovered	2.53900	2.53900	
(Over) Under recovery per dk	<u>\$0.52803</u>	<u>\$1.20575</u>	
dk billed	48,298	(942)	47,356
(Over) Under recovery	<u>\$25,503</u>	<u>(\$1,135)</u>	\$24,368
<u>January 2019</u>			
Cost of Gas - Actual	\$3.74475	\$3.19805	
Cost of Gas - Recovered	3.10900	3.10900	
(Over) Under recovery per dk	<u>\$0.63575</u>	<u>\$0.08905</u>	
dk billed	53,287	(1,015)	52,272
(Over) Under recovery	<u>\$33,877</u>	<u>(\$90)</u>	\$33,787

**MONTANA-DAKOTA UTILITIES CO.  
CALCULATION OF (OVER) UNDER RECOVERY OF GAS COSTS  
APPLICABLE TO NORTH DAKOTA  
AIR FORCE**

	<u>1/</u>	<u>2/</u>	<u>Total</u>
<u>February 2019</u>			
Cost of Gas - Actual	\$3.19805	\$2.80499	
Cost of Gas - Recovered	3.10900	3.10900	
(Over) Under recovery per dk	<u>\$0.08905</u>	<u>(\$0.30401)</u>	
dk billed	69,049	(1,964)	67,085
(Over) Under recovery	<u>\$6,149</u>	<u>\$596</u>	\$6,745
<u>March 2019</u>			
Cost of Gas - Actual	\$2.80499	\$3.01369	
Cost of Gas - Recovered	2.79700	2.79700	
(Over) Under recovery per dk	<u>\$0.00799</u>	<u>\$0.21669</u>	
dk billed	72,401	(1,767)	70,634
(Over) Under recovery	<u>\$579</u>	<u>(\$383)</u>	\$196
<u>April 2019</u>			
Cost of Gas - Actual	\$3.01369	\$2.63941	
Cost of Gas - Recovered	2.79700	2.79700	
(Over) Under recovery per dk	<u>\$0.21669</u>	<u>(\$0.15759)</u>	
dk billed	52,446	(1,609)	50,837
(Over) Under recovery	<u>\$11,364</u>	<u>\$254</u>	\$11,618
<u>May 2019</u>			
Cost of Gas - Actual	\$2.63941	\$2.31430	
Cost of Gas - Recovered	2.49500	2.49500	
(Over) Under recovery per dk	<u>\$0.14441</u>	<u>(\$0.18070)</u>	
dk billed	29,696	(1,922)	27,774
(Over) Under recovery	<u>\$4,288</u>	<u>\$347</u>	\$4,635
<u>June 2019</u>			
Cost of Gas - Actual	\$2.31430	\$2.54430	
Cost of Gas - Recovered	2.49500	2.49500	
(Over) Under recovery per dk	<u>(\$0.18070)</u>	<u>\$0.04930</u>	
dk billed	18,646	(1,646)	17,000
(Over) Under recovery	<u>(\$3,369)</u>	<u>(\$81)</u>	(\$3,450)
<u>July 2019</u>			
Cost of Gas - Actual	\$2.54430	\$1.48775	
Cost of Gas - Recovered	2.58400	2.58400	
(Over) Under recovery per dk	<u>(\$0.03970)</u>	<u>(\$1.09625)</u>	
dk billed	9,151	(3,808)	5,343
(Over) Under recovery	<u>(\$363)</u>	<u>\$4,175</u>	\$3,812

1/ Consumed in prior month.

2/ True-up of prior month volumes.

MONTANA-DAKOTA UTILITIES CO.  
COST OF GAS - PROPANE  
NORTH DAKOTA  
EFFECTIVE OCTOBER 2019

Cost of Purchased Propane	\$2,459
Gallons Purchased	5,464
Projected dk Sales	500
Propane Cost per Dk	\$4.918
Average Cost of Propane as Adjusted for Losses @ 99.55%	4.940
Less: Propane Cost Level in Rates 1/	<u>4.940</u>
Current Propane Cost Adjustment	<u><u>\$0.000</u></u>

1/ Propane Cost Level in Current Rates - Case No. PU-19-008, effective July 1, 2019.

MONTANA-DAKOTA UTILITIES CO.  
COST OF GAS - PROPANE TARIFF SHEET  
NORTH DAKOTA PROPANE  
EFFECTIVE OCTOBER 2019

**Cost of Gas - Propane**

Current Propane Cost (Exhibit 7, Page 1)	\$4.940
Prior Filed Propane Cost	<u>4.940</u>
Current Propane Cost Adjustment	<u>\$0.000</u>

**Surcharge Adjustment**

Current Adjustment	(\$0.510)
Prior Filed Adjustment	<u>(0.510)</u>
Change in Surcharge Adjustment	\$0.000

**Grain Drying Margin Sharing**

Current Adjustment (Exhibit 8)	(\$0.016)
Prior Adjustment	<u>(0.013)</u>
Change in Grain Drying Margin Sharing	(\$0.003)
<b>Total Cost of Gas Items</b>	<b><u>\$4.414</u></b>
<b>Net Increase (Decrease) in Gas Costs</b>	<b><u>(\$0.003)</u></b>

MONTANA-DAKOTA UTILITIES CO.  
CALCULATION OF (OVER) / UNDER RECOVERED GAS COST ACCOUNT BALANCE  
APPLICABLE TO NORTH DAKOTA  
PROPANE

	<u>(Over) Under Recovery</u>	<u>Refunds &amp; Other</u>	<u>Interest 1/</u>	<u>Total Net Additions</u>	<u>Actual Dk Sales</u>	<u>Adjustment Per Dk</u>	<u>Total Adjustment Amount</u>	<u>Net Change- Additions less Adjustment</u>	<u>Cumulative Balance</u>
<b>Balance @ February 28, 2019</b>									<b><u>(\$24,476)</u></b>
March 2019	(\$6,095)	\$0	(\$48)	(\$6,143)	7,293	(\$0.371)	(\$2,705)	(\$3,438)	(27,914)
April	(12,603)	0	(55)	(12,658)	4,239	(0.371)	(1,574)	(11,084)	(38,998)
May	(9,134)	0	(76)	(9,210)	3,168	(0.510)	(1,497) 2/	(7,713)	(46,711)
June	114	0	(84)	30	1,270	(0.510)	(648)	678	(46,033)
July	7,885	0	(80)	7,805	855	(0.510)	(437)	8,242	(37,791)
<b>Balance @ July 31, 2019</b>									<b><u>(\$37,791)</u></b>

1/ Interest calculated at Three Month Treasury Bill rate.

2/ Reflects 854 Dk @ (\$0.371) and 2,314 Dk @ (\$0.510).

**MONTANA-DAKOTA UTILITIES CO.  
NORTH DAKOTA GAS  
GRAIN DRYING MARGIN SHARING PROVISION  
EFFECTIVE OCTOBER 1, 2019 THROUGH SEPTEMBER 30, 2020**

Rate 71 Grain Drying Credit - Balance @ 7/31/18		(\$216,707)
Additional Credits 1/		(264,143)
Additional Credits-Interim 2/		(24,778)
Less: Reduction to Credit Balance		<u>(231,561)</u>
Balance @ 7/31/19		<u><u>(\$274,067)</u></u>
Less: Projected recovery from current amortization		
	<u>Dk</u>	<u>Rate</u>
August	<u>264,000</u>	<u>(\$0.013)</u>
September	<u>395,000</u>	<u>(0.013)</u>
	<u>659,000</u>	<u>(\$8,567)</u>
Balance @ 9/30/19		<u><u>(\$265,500)</u></u>
Projected Residential & General Service Sales Volumes		16,465,000
Grain Drying Margin Sharing Credit		<u><u>(\$0.016)</u></u>

1/ Represents 90% of margin from Grain Drying sales as shown on Exhibit 8, page 2.

2/ Represents 90% of margin from Grain Drying interim revenues collected as shown on Exhibit 8, page 3.

**MONTANA-DAKOTA UTILITIES CO.  
NORTH DAKOTA GAS  
GRAIN DRYING MARGIN SHARING PROVISION  
EFFECTIVE OCTOBER 1, 2019 THROUGH SEPTEMBER 30, 2020**

<u>Additional Credits</u>	Grain Drying Sales	Distribution Charge 1/	Distribution Delivery Revenue	Basic Service Charge
August 2018	191.0	\$1.112	\$212	\$6,475
September	760.4	1.112	846	6,475
October	13,509.7	1.112	15,023	6,475
November	54,179.7	1.112	60,248	6,650
December	65,268.5	1.063	69,380	7,108
January 2019	20,771.4	1.063	22,080	7,027
February	15,297.2	1.063	16,261	7,030
March	5,729.9	1.063	6,091	6,948
April	10,004.3	1.063	10,635	6,967
May	7,464.4	1.063	7,935	7,030
June	1,318.2	1.063	1,401	7,030
July	1,067.9	1.063	1,135	7,030
Total	<u>195,562.6</u>		<u>\$211,247</u>	<u>\$82,245</u>

<u>Additional Credits</u>	Total Margin	Grain Drying Margin Sharing Credit @ 90%
August 2018	\$6,687	(\$6,018)
September	7,321	(6,589)
October	21,498	(19,348)
November	66,898	(60,208)
December	76,488	(68,839)
January 2019	29,107	(26,196)
February	23,291	(20,962)
March	13,039	(11,735)
April	17,602	(15,842)
May	14,965	(13,469)
June	8,431	(7,588)
July	8,165	(7,349)
Total	<u>\$293,492</u>	<u>(\$264,143)</u>

1/ Excludes interim revenue increase in Case No. PU-17-295. See Exhibit 8, Page 3.

**MONTANA-DAKOTA UTILITIES CO.  
NORTH DAKOTA GAS  
GRAIN DRYING MARGIN SHARING PROVISION  
INTERIM REVENUE WORKPAPER - CASE NO. PU-17-295**

Additional Credits - Interim	Grain Drying Sales	Distribution Charge	Distribution Delivery Revenue	Basic Service Charge	Sales Margin	Interim Percentage	Total Interim Collected From Dryers	Credit Pricing Differential Amount @ 90%
September 19 <sup>th</sup> , 2017	1/ 1,992.0	\$1.112	\$2,215	\$2,730	\$4,945	12.486% 2/	\$617	(\$555)
October	3,517.2	1.112	3,911	6,907	10,818	12.486%	1,351	(1,216)
November	47,200.2	1.112	52,487	6,650	59,137	12.486%	7,384	(6,646)
December	46,784.4	1.112	52,024	7,000	59,024	12.486%	7,370	(6,633)
January 2018	3,744.8	1.112	4,164	6,825	10,989	12.486%	1,372	(1,235)
February	6,868.6	1.112	7,638	6,650	14,288	12.486%	1,784	(1,606)
March	7,934.0	1.112	8,823	7,000	15,823	7.357% 3/	1,164	(1,048)
April	5,788.3	1.112	6,437	6,778	13,215	7.357%	972	(875)
May	5,726.6	1.112	6,368	6,475	12,843	7.357%	945	(851)
June	4,047.2	1.112	4,500	6,300	10,800	7.357%	795	(716)
July	973.1	1.112	1,082	6,475	7,557	7.357%	556	(500)
August	191.0	1.112	212	6,475	6,687	7.357%	492	(443)
September	760.4	1.112	846	6,475	7,321	7.357%	539	(485)
October	13,509.7	1.112	15,023	6,475	21,498	7.357%	1,582	(1,424)
November	54,179.7	1.112	60,248	6,650	66,898	7.357%	4,922	(4,430)
<b>Total</b>	<u>203,217.2</u>		<u>\$225,978</u>	<u>\$95,865</u>	<u>\$321,843</u>		<u>\$31,845</u>	<u>(\$28,663)</u>

Inverse of Interim Refund 4/    86.454%    \$27,531    **(\$24,778)**

1/ Prorated for the 9/19/17 effective date.

0.4    Prorate Factor  
4,980.1    Total Sept Sales  
\$6,825    Total Sept Basic Service Charge

2/ 12.486% interim rate effective with service rendered on and after September 19, 2017.

3/ 7.357% interim rate effective with service rendered on and after March 1, 2018 through November 30, 2018.

4/            13.546%    Refund Factor - Montana-Dakota's Refund Plan filed March 22, 2019.  
              86.454%    Inverse of Refund Factor

NOTE: Final rates implemented in Case No. PU-17-295 effective December 1, 2018.