



Northern Natural Gas Company
P.O. Box 3330
Omaha, NE 68103-0330
402 398-7200

April 29, 2024

Ms. Debbie-Anne Reese, Acting Secretary
Federal Energy Regulatory Commission
888 First Street, N.E.
Washington, D.C. 20426

Re: Northern Natural Gas Company
Docket No. RP20-1042-_____
2023 Operational Purchases and Sales of Gas Report

Dear Ms. Reese:

Northern Natural Gas Company ("Northern"), pursuant to Section 154.502 of the Federal Energy Regulatory Commission's ("FERC" or "Commission") regulations,¹ and Section 50.B of the General Terms and Conditions of Northern's FERC Gas Tariff ("Tariff"),² hereby submits for filing its annual report of its Operational Purchases and Sales of Gas for the twelve-month period ended December 31, 2023.

Reason for Filing

Section 50.B of Northern's Tariff provides that Northern will file an annual report on or before May 1 of each year reflecting the operational purchases and sales of gas for the preceding calendar year. Accordingly, Northern is submitting herewith its Operational Purchases and Sales of Gas Report for the twelve-month period ended December 31, 2023.

Posting

Northern has served an electronic copy of this filing upon its customers and interested state regulatory commissions.

¹ 18 C.F.R. 154.502 (2020).

² Section 50.B – GT&C, Annual Report for Operational Purchases and Sales (Section 50.B).

Ms. Debbie-Anne Reese, Acting Secretary

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Communication

It is respectfully requested that all Commission orders and correspondence, as well as pleadings and correspondence from other persons concerning this filing, be served upon each of the following:

Luis Valdivia
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Respectfully submitted,

/s/ Luis Valdivia

Luis Valdivia
Manager, Rates and Tariffs

Northern Natural Gas Company
2023 Operational Purchases and Sales Report
Source and Disposition Summary

Source Transactions (By Tariff Category)	Gas Received Dth Debit 1/		Amount Paid Purchases (\$)	Gas Delivered Dth Credit 1/		Amount Received Sales (\$)	Schedule No.
1-Maintain System Pressure and Line Pack	8,738,971	2/	25,891,044.53	-	3/	-	2, 4, and 4a
2-Balance Fuel and UAF Quantities	-		-	-	4/	-	2
3-Implement the Imbalance Procedures in Northern's Tariff	4,105,478	5/	8,021,773.72	(3,786,655)	5/	(12,786,964.01)	3
4-Perform Other Operational Functions	-		-	(5,334)	6/	(72,752.06)	3
Total Sources	12,844,449		\$33,912,818.25	(3,791,989)		(\$12,859,716.07)	
Disposition Transactions							
Disposition Operational Purchases	1,823,048	2/	2,891,354.35	-		-	4
Disposition Operational Sales	-		-	(7,133,278)	3/	(35,731,976.70)	4a
Total Dispositions	14,667,497		\$36,804,172.60	(10,925,267)		(\$48,591,692.77)	

1/ Debit and credit quantities do not net to zero due to operational quantities being carried over from the previous year and to the following year.

2/ Debit - FERC Account No. 803, includes only physical transactions

3/ Credit - FERC Account No. 495, includes only physical transactions

4/ Credit - FERC Account No. 481

5/ Debit and Credit - FERC Account No. 806, excluding volumetric OBAs

6/ Credit - FERC Account No. 492

Northern Natural Gas Company
 2023 Operational Purchases and Sales Report
 Monthly Source Transactions by Tariff Categories 1 and 2

Gas Received Debits

Tariff Category 1-Maintain System Pressure and Line Pack			
Month	Dth	Price (\$)	Amount Paid (\$)
Jan-23	-	-	-
Feb-23	25,000	2.3000	57,500.00
Mar-23	160,671	1.2581	202,144.53
Apr-23	63,300	2.0529	129,950.00
May-23	-	-	-
Jun-23	-	-	-
Jul-23	-	-	-
Aug-23	-	-	-
Sep-23	-	-	-
Oct-23	-	-	-
Nov-23	8,490,000	3.0037	25,501,450.00
Dec-23	-	-	-
	8,738,971	\$2.9627	\$25,891,044.53

Tariff Category 2-Balance Fuel and UAF Quantities			
Month	Dth	Price (\$)	Amount Paid (\$)
Jan-23	-	-	-
Feb-23	-	-	-
Mar-23	-	-	-
Apr-23	-	-	-
May-23	-	-	-
Jun-23	-	-	-
Jul-23	-	-	-
Aug-23	-	-	-
Sep-23	-	-	-
Oct-23	-	-	-
Nov-23	-	-	-
Dec-23	-	-	-
	-	-	-

Gas Delivered Credits

Tariff Category 1-Maintain System Pressure and Line Pack			
Month	Dth	Price (\$)	Amount Rcvd (\$)
Jan-23	-	-	-
Feb-23	-	-	-
Mar-23	-	-	-
Apr-23	-	-	-
May-23	-	-	-
Jun-23	-	-	-
Jul-23	-	-	-
Aug-23	-	-	-
Sep-23	-	-	-
Oct-23	-	-	-
Nov-23	-	-	-
Dec-23	-	-	-
	-	\$0.0000	\$0.00

Tariff Category 2-Balance Fuel and UAF Quantities			
Month	Dth	Price (\$)	Amount Rcvd (\$)
Jan-23	-	-	-
Feb-23	-	-	-
Mar-23	-	-	-
Apr-23	-	-	-
May-23	-	-	-
Jun-23	-	-	-
Jul-23	-	-	-
Aug-23	-	-	-
Sep-23	-	-	-
Oct-23	-	-	-
Nov-23	-	-	-
Dec-23	-	-	-
	-	-	-

Northern Natural Gas Company
2023 Operational Purchases and Sales Report
Monthly Source Transactions by Tariff Categories 3 and 4

Gas Received Debits

Tariff Category 3-Implement the Imbalance Procedures in Northern's Tariff			
Month	Dth	Price (\$)	Amount Paid (\$)
Jan-23	691,326	2.4592	1,700,099.92
Feb-23	687,438	2.9117	2,001,585.18
Mar-23	385,666	2.4534	946,205.67
Apr-23	2,129	(31.5986)	(67,273.49)
May-23	241,169	1.4933	360,141.09
Jun-23	1,100,354	1.3559	1,491,923.82
Jul-23	151,775	1.2285	186,451.85
Aug-23	5,294	2.0469	10,836.30
Sep-23	83,873	2.0886	175,180.55
Oct-23	227,273	1.6392	372,541.25
Nov-23	55,336	0.1155	6,391.23
Dec-23	473,845	1.7679	837,690.35
	4,105,478	\$1.9539	\$8,021,773.72

Tariff Category 4-Perform Other Operational Functions			
Month	Dth	Price (\$)	Amount Paid (\$)
Jan-23	-	-	-
Feb-23	-	-	-
Mar-23	-	-	-
Apr-23	-	-	-
May-23	-	-	-
Jun-23	-	-	-
Jul-23	-	-	-
Aug-23	-	-	-
Sep-23	-	-	-
Oct-23	-	-	-
Nov-23	-	-	-
Dec-23	-	-	-
	-	-	-

Gas Delivered Credits

Tariff Category 3-Implement the Imbalance Procedures in Northern's Tariff			
Month	Dth	Price (\$)	Amount Rcvd (\$)
Jan-23	(454,018)	7.5429	(3,424,595.14)
Feb-23	(711,544)	2.6451	(1,882,109.72)
Mar-23	(329,345)	2.6101	(859,631.84)
Apr-23	(175,823)	2.8719	(504,938.41)
May-23	(339,229)	2.0620	(699,477.64)
Jun-23	(159,297)	2.5698	(409,365.42)
Jul-23	(340,678)	2.9517	(1,005,580.14)
Aug-23	(220,664)	3.5325	(779,494.26)
Sep-23	(244,404)	3.2929	(804,805.41)
Oct-23	(398,319)	2.6579	(1,058,711.73)
Nov-23	(210,970)	3.5260	(743,888.58)
Dec-23	(202,364)	3.0359	(614,365.72)
	(3,786,655)	\$3.3768	(\$12,786,964.01)

Tariff Category 4-Perform Other Operational Functions 1/			
Month	Dth	Price	Amount Rcvd (\$)
Jan-23	-	-	-
Feb-23	-	-	-
Mar-23	-	-	-
Apr-23	(3,342)	14.4927	(48,434.48)
May-23	-	-	1,061.77
Jun-23	-	-	-
Jul-23	-	-	-
Aug-23	-	-	-
Sep-23	-	-	-
Oct-23	-	-	-
Nov-23	-	-	-
Dec-23	(1,992)	12.7406	(25,379.35)
	(5,334)	\$13.6393	(\$72,752.06)

1/ Condensate sales

Northern Natural Gas Company
2023 Operational Purchases and Sales Report
Operational Purchases

Tariff Category 1

Counterparty	Month	Gas Day Start	Gas Day End	Monthly Volume	Total Price (\$)	Amount Paid (\$)
Tenaska Marketing Ventures	Feb-23	2/21/23	2/21/23	25,000	2.3000	57,500.00
Mieco LLC	Mar-23	3/9/23	3/9/23	10,000	1.7500	17,500.00
Mieco LLC	Mar-23	3/10/23	3/10/23	10,000	1.7500	17,500.00
Mieco LLC	Mar-23	3/11/23	3/13/23	29,944	1.5000	44,916.00
Mieco LLC	Mar-23	3/14/23	3/14/23	10,000	1.5500	15,500.00
Mieco LLC	Mar-23	3/15/23	3/15/23	10,000	1.3500	13,500.00
Mieco LLC	Mar-23	3/18/23	3/20/23	44,791	1.1000	49,270.10
Mieco LLC	Mar-23	3/18/23	3/18/23	1,236	1.1000	1,359.60
Mieco LLC	Mar-23	3/24/23	3/24/23	14,859	1.2000	17,830.80
Mieco LLC	Mar-23	3/25/23	3/27/23	29,841	0.8300	24,768.03
Mieco LLC	Apr-23	4/21/23	4/21/23	10,000	1.5000	15,000.00
Mieco LLC	Apr-23	4/21/23	4/21/23	3,300	1.5000	4,950.00
Tenaska Marketing Ventures	Apr-23	4/21/23	4/21/23	50,000	2.2000	110,000.00
Koch Energy Services, LLC	Nov-23	11/1/23	11/30/23	1,000,000	3.0200	3,020,000.00
Koch Energy Services, LLC	Nov-23	11/1/23	11/30/23	1,000,000	3.0000	3,000,000.00
Koch Energy Services, LLC	Nov-23	11/1/23	11/30/23	1,000,000	2.9000	2,900,000.00
Macquarie Energy LLC	Nov-23	11/1/23	11/30/23	900,000	2.8200	2,538,000.00
Mieco LLC	Nov-23	11/1/23	11/30/23	300,000	2.9000	870,000.00
Mieco LLC	Nov-23	11/1/23	11/30/23	300,000	2.9800	894,000.00
Mieco LLC	Nov-23	11/1/23	11/30/23	150,000	2.9000	435,000.00
Mieco LLC	Nov-23	11/1/23	11/30/23	150,000	3.0900	463,500.00
Mieco LLC	Nov-23	11/1/23	11/30/23	150,000	3.1300	469,500.00
Mieco LLC	Nov-23	11/1/23	11/30/23	165,000	2.9800	491,700.00
Tenaska Marketing Ventures	Nov-23	11/1/23	11/30/23	975,000	3.3300	3,246,750.00
Tenaska Marketing Ventures	Nov-23	11/1/23	11/30/23	900,000	3.1200	2,808,000.00
Tenaska Marketing Ventures	Nov-23	11/1/23	11/30/23	900,000	3.0000	2,700,000.00
Tenaska Marketing Ventures	Nov-23	11/1/23	11/30/23	600,000	2.7750	1,665,000.00
Category 1 Total				8,738,971	\$2.9627	\$25,891,044.53

Northern Natural Gas Company
2023 Operational Purchases and Sales Report
Operational Purchases

Disposition Operational

Counterparty	Month	Gas Day Start	Gas Day End	Dth 1/	Total Price (\$)	Amount Paid (\$)
ETC Marketing, LTD.	Jan-23	1/1/23	1/3/23	87,000	3.0000	261,000.00
Mieco LLC	Jan-23	1/1/23	1/3/23	30,000	(2.0000)	(60,000.00)
Mieco LLC	Jan-23	1/1/23	1/3/23	15,000	(3.0000)	(45,000.00)
Mieco LLC	Jan-23	1/1/23	1/3/23	15,000	(4.0000)	(60,000.00)
ETC Marketing, LTD.	Jan-23	1/4/23	1/4/23	27,000	2.9000	78,300.00
Mieco LLC	Jan-23	1/4/23	1/4/23	10,000	2.7500	27,500.00
ETC Marketing, LTD.	Jan-23	1/5/23	1/5/23	22,000	3.1500	69,300.00
Macquarie Energy LLC	Jan-23	1/5/23	1/5/23	25,000	3.4500	86,250.00
Mieco LLC	Jan-23	1/5/23	1/5/23	10,000	3.4500	34,500.00
Mieco LLC	Jan-23	1/5/23	1/5/23	15,000	3.5000	52,500.00
ETC Marketing, LTD.	Jan-23	1/6/23	1/6/23	10,000	2.9500	29,500.00
Mieco LLC	Jan-23	1/6/23	1/6/23	14,806	1.9500	28,871.70
Mieco LLC	Jan-23	1/6/23	1/6/23	5,923	1.9000	11,253.70
Mieco LLC	Jan-23	1/6/23	1/6/23	3,793	1.9000	7,206.70
ETC Marketing, LTD.	Jan-23	1/7/23	1/9/23	70,500	2.9500	207,975.00
Mieco LLC	Jan-23	1/7/23	1/9/23	15,000	1.9500	29,250.00
ETC Marketing, LTD.	Jan-23	1/10/23	1/10/23	20,000	3.1000	62,000.00
Mieco LLC	Jan-23	1/10/23	1/10/23	10,000	2.0000	20,000.00
Mieco LLC	Jan-23	1/10/23	1/10/23	10,000	1.9500	19,500.00
Mieco LLC	Jan-23	1/10/23	1/10/23	10,000	2.0000	20,000.00
Mieco LLC	Jan-23	1/11/23	1/11/23	5,000	1.9000	9,500.00
ETC Marketing, LTD.	Jan-23	1/12/23	1/12/23	13,000	2.9000	37,700.00
Mieco LLC	Jan-23	1/12/23	1/12/23	5,000	2.0000	10,000.00
ETC Marketing, LTD.	Jan-23	1/13/23	1/13/23	8,000	3.1000	24,800.00
Mieco LLC	Jan-23	1/13/23	1/13/23	10,000	2.2000	22,000.00
Mieco LLC	Jan-23	1/13/23	1/13/23	1,180	0.5000	590.00
ETC Marketing, LTD.	Jan-23	1/14/23	1/17/23	72,000	2.7000	194,400.00
Mieco LLC	Jan-23	1/14/23	1/17/23	40,000	0.3500	14,000.00
Mieco LLC	Jan-23	1/17/23	1/17/23	10,000	1.8500	18,500.00
ETC Marketing, LTD.	Jan-23	1/18/23	1/18/23	18,500	2.8750	53,187.50
Mieco LLC	Jan-23	1/18/23	1/18/23	10,000	1.9500	19,500.00
ETC Marketing, LTD.	Jan-23	1/19/23	1/19/23	18,000	2.8000	50,400.00
Mieco LLC	Jan-23	1/19/23	1/19/23	15,000	2.4500	36,750.00
Mieco LLC	Jan-23	1/19/23	1/19/23	15,000	1.5000	22,500.00
ETC Marketing, LTD.	Jan-23	1/20/23	1/20/23	13,000	2.7500	35,750.00
Mieco LLC	Jan-23	1/20/23	1/20/23	15,000	1.9000	28,500.00
ETC Marketing, LTD.	Jan-23	1/21/23	1/23/23	15,000	2.9000	43,500.00
Mieco LLC	Jan-23	1/21/23	1/23/23	45,000	0.5500	24,750.00
ETC Marketing, LTD.	Jan-23	1/25/23	1/25/23	1,500	2.9500	4,425.00
ETC Marketing, LTD.	Jan-23	1/26/23	1/26/23	6,300	2.7300	17,199.00
ETC Marketing, LTD.	Jan-23	1/27/23	1/27/23	6,300	2.4000	15,120.00
ETC Marketing, LTD.	Feb-23	2/2/23	2/2/23	4,500	2.7500	12,375.00
Mieco LLC	Feb-23	2/2/23	2/2/23	5,000	2.5500	12,750.00
Mieco LLC	Feb-23	2/3/23	2/3/23	10,000	2.4500	24,500.00
Mieco LLC	Feb-23	2/3/23	2/3/23	6,754	1.9000	12,832.60
Mieco LLC	Feb-23	2/4/23	2/6/23	30,000	1.6500	49,500.00
ETC Marketing, LTD.	Feb-23	2/7/23	2/7/23	11,700	1.9500	22,815.00
Mieco LLC	Feb-23	2/7/23	2/7/23	10,000	1.7500	17,500.00
ETC Marketing, LTD.	Feb-23	2/8/23	2/8/23	14,700	2.1000	30,870.00
Mieco LLC	Feb-23	2/8/23	2/8/23	10,000	1.8500	18,500.00
ETC Marketing, LTD.	Feb-23	2/9/23	2/9/23	16,700	2.1000	35,070.00
Mieco LLC	Feb-23	2/9/23	2/9/23	15,000	1.7500	26,250.00
ETC Marketing, LTD.	Feb-23	2/10/23	2/10/23	15,000	2.1300	31,950.00
Mieco LLC	Feb-23	2/10/23	2/10/23	9,942	2.0500	20,381.10
Mieco LLC	Feb-23	2/10/23	2/10/23	9,926	1.8800	18,660.88
Mieco LLC	Feb-23	2/11/23	2/13/23	45,000	1.5000	67,500.00
Mieco LLC	Feb-23	2/11/23	2/13/23	10,500	1.5000	15,750.00
Mieco LLC	Feb-23	2/18/23	2/21/23	40,000	1.6500	66,000.00
Mieco LLC	Feb-23	2/22/23	2/22/23	9,945	1.6000	15,912.00
ETC Marketing, LTD.	Feb-23	2/23/23	2/23/23	11,600	1.9250	22,330.00
Mieco LLC	Feb-23	2/23/23	2/23/23	7,231	1.5500	11,208.05
Mieco LLC	Feb-23	2/25/23	2/27/23	20,400	1.7000	34,680.00
Mieco LLC	Mar-23	3/9/23	3/9/23	10,000	1.7750	17,750.00
Mieco LLC	Mar-23	3/16/23	3/16/23	4,251	1.3500	5,738.85

Northern Natural Gas Company
2023 Operational Purchases and Sales Report
Operational Purchases

Disposition Operational

Counterparty	Month	Gas Day Start	Gas Day End	Dth 1/	Total Price (\$)	Amount Paid (\$)
Mieco LLC	Apr-23	4/1/23	4/3/23	28,206	0.5200	14,667.12
Mieco LLC	Apr-23	4/12/23	4/12/23	10,000	0.8000	8,000.00
Mieco LLC	May-23	5/9/23	5/9/23	9,544	-	-
Mieco LLC	May-23	5/9/23	5/9/23	9,424	-	-
Mieco LLC	May-23	5/10/23	5/10/23	15,000	(0.2500)	(3,750.00)
Mieco LLC	May-23	5/11/23	5/11/23	10,000	0.7500	7,500.00
Mieco LLC	May-23	5/12/23	5/12/23	10,000	1.1500	11,500.00
Mieco LLC	May-23	5/18/23	5/18/23	10,000	1.3000	13,000.00
Mieco LLC	Jul-23	7/28/23	7/28/23	15,000	(0.5000)	(7,500.00)
Mieco LLC	Jul-23	7/28/23	7/28/23	1,325	(0.6000)	(795.00)
Mieco LLC	Jul-23	7/29/23	7/31/23	30,000	(0.5000)	(15,000.00)
Mieco LLC	Jul-23	7/31/23	7/31/23	5,000	0.4000	2,000.00
Tenaska Marketing Ventures	Jul-23	7/31/23	7/31/23	5,000	-	-
Mieco LLC	Aug-23	8/1/23	8/1/23	15,000	1.7500	26,250.00
Mieco LLC	Sep-23	9/18/23	9/18/23	5,000	(0.2500)	(1,250.00)
ETC Marketing, LTD.	Sep-23	9/27/23	9/27/23	20,000	2.1600	43,200.00
Macquarie Energy LLC	Sep-23	9/27/23	9/27/23	10,000	2.1600	21,600.00
ETC Marketing, LTD.	Sep-23	9/28/23	9/28/23	20,000	2.1800	43,600.00
Macquarie Energy LLC	Sep-23	9/28/23	9/28/23	10,000	2.1800	21,800.00
Macquarie Energy LLC	Oct-23	10/1/23	10/2/23	30,000	2.0800	62,400.00
Mieco LLC	Oct-23	10/12/23	10/12/23	4,000	1.9000	7,600.00
ETC Marketing, LTD.	Oct-23	10/13/23	10/13/23	30,000	2.2400	67,200.00
ETC Marketing, LTD.	Oct-23	10/14/23	10/16/23	45,000	1.8200	81,900.00
ETC Marketing, LTD.	Oct-23	10/24/23	10/24/23	6,500	1.7000	11,050.00
Mieco LLC	Nov-23	11/2/23	11/2/23	20,000	1.9900	39,800.00
Mieco LLC	Nov-23	11/3/23	11/3/23	15,000	0.8800	13,200.00
Mieco LLC	Nov-23	11/4/23	11/4/23	5,000	0.2500	1,250.00
Mieco LLC	Nov-23	11/4/23	11/6/23	26,400	0.8800	23,232.00
Mieco LLC	Nov-23	11/7/23	11/7/23	15,000	0.3900	5,850.00
Mieco LLC	Nov-23	11/8/23	11/8/23	10,000	0.9000	9,000.00
Mieco LLC	Nov-23	11/10/23	11/13/23	19,999	0.9000	17,999.10
Mieco LLC	Nov-23	11/17/23	11/17/23	13,541	0.7500	10,155.75
Mieco LLC	Nov-23	11/18/23	11/20/23	30,000	-	-
Mieco LLC	Nov-23	11/18/23	11/20/23	16,140	(0.2500)	(4,035.00)
Mieco LLC	Nov-23	11/27/23	11/27/23	14,981	0.4000	5,992.40
ETC Marketing, LTD.	Nov-23	11/28/23	11/28/23	15,000	1.5000	22,500.00
ETC Marketing, LTD.	Nov-23	11/29/23	11/29/23	20,000	1.3000	26,000.00
Mieco LLC	Dec-23	12/2/23	12/2/23	15,000	1.7000	25,500.00
Mieco LLC	Dec-23	12/3/23	12/3/23	10,000	1.5000	15,000.00
Mieco LLC	Dec-23	12/4/23	12/4/23	9,945	1.5000	14,917.50
Mieco LLC	Dec-23	12/6/23	12/6/23	15,000	1.6500	24,750.00
Mieco LLC	Dec-23	12/6/23	12/6/23	12,500	1.3000	16,250.00
Mieco LLC	Dec-23	12/7/23	12/7/23	10,000	0.2500	2,500.00
Tenaska Marketing Ventures	Dec-23	12/7/23	12/7/23	10,000	0.2500	2,500.00
Mieco LLC	Dec-23	12/8/23	12/8/23	10,000	0.3500	3,500.00
Mieco LLC	Dec-23	12/8/23	12/8/23	10,000	0.5500	5,500.00
Mieco LLC	Dec-23	12/9/23	12/11/23	30,000	1.2500	37,500.00
Mieco LLC	Dec-23	12/23/23	12/26/23	18,592	0.2000	3,718.40

Summary of Operational Purchases

	Dth 1/	Total Price (\$)	Amount Paid (\$)
Tariff Category 1 Purchases	8,738,971	2.9627	25,891,044.53
Disposition Operational Purchases	1,823,048	1.5860	2,891,354.35
Total Operational Purchases 2/	10,562,019	\$2.7251	\$28,782,398.88

1/ The purchases listed on this schedule include source transactions shown as debits in Tariff Category 1 as well as all disposition of credit quantities.

2/ Total Operational Purchases on this schedule equal the operational purchases reported in Northern's 2023 Form 2.

Northern Natural Gas Company
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Operational Sales

Tariff Category 1

Counterparty	Month	Gas Day Start	Gas Day End	Dth 1/	Total Price (\$)	Amount Rcvd (\$)
Category 1 Total				-	\$ -	-

Northern Natural Gas Company
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Operational Sales

Disposition Operational

Counterparty	Month	Gas Day Start	Gas Day End	Dth 1/	Total Price (\$)	Amount Rcvd (\$)
Koch Energy Services, LLC	Jan-23	1/1/23	1/31/23	(310,000)	10.2300	(3,171,300.00)
Koch Energy Services, LLC	Jan-23	1/1/23	1/31/23	(620,000)	7.8900	(4,891,800.00)
Macquarie Energy LLC	Jan-23	1/1/23	1/31/23	(310,000)	11.0500	(3,425,500.00)
Macquarie Energy LLC	Jan-23	1/1/23	1/31/23	(155,000)	8.8900	(1,377,950.00)
Macquarie Energy LLC	Jan-23	1/1/23	1/31/23	(310,000)	8.5800	(2,659,800.00)
Macquarie Energy LLC	Jan-23	1/1/23	1/31/23	(620,000)	7.8500	(4,867,000.00)
Tenaska Marketing Ventures	Jan-23	1/1/23	1/31/23	(310,000)	9.5500	(2,960,500.00)
Mieco LLC	Jan-23	1/28/23	1/30/23	(5,778)	7.6500	(44,201.70)
Macquarie Energy LLC	Jan-23	1/28/23	1/31/23	(80,000)	8.5000	(680,000.00)
Koch Energy Services, LLC	Feb-23	2/1/23	2/28/23	(280,000)	5.8300	(1,632,400.00)
Macquarie Energy LLC	Apr-23	4/1/23	4/30/23	(1,000,000)	2.0700	(2,070,000.00)
Macquarie Energy LLC	Apr-23	4/1/23	4/30/23	(725,000)	2.0750	(1,504,375.00)
Shell Energy North America (US), LP	Apr-23	4/1/23	4/30/23	(600,000)	2.0800	(1,248,000.00)
Koch Energy Services, LLC	Jun-23	6/1/23	6/30/23	(800,000)	1.9400	(1,552,000.00)
Koch Energy Services, LLC	Jul-23	7/1/23	7/31/23	(387,500)	2.6600	(1,030,750.00)
Koch Energy Services, LLC	Dec-23	12/1/23	12/31/23	(155,000)	4.2400	(657,200.00)
Macquarie Energy LLC	Dec-23	12/1/23	12/31/23	(310,000)	4.2600	(1,320,600.00)
Macquarie Energy LLC	Dec-23	12/1/23	12/31/23	(155,000)	4.1200	(638,600.00)
Total Disposition Operational Sales				(7,133,278)	\$5.0092	(35,731,977)

Summary of Operational Sales

	Dth 1/	Total Price (\$)	Amount Rcvd (\$)
Tariff Category 1 Sales	-	-	-
Disposition Operational Sales	(7,133,278)	5.0092	(35,731,976.70)
Total Operational Sales 2/	(7,133,278)	\$5.0092	(35,731,976.70)

1/ The sales listed on this schedule include source transactions shown as credits in Tariff Category 1 as well as all disposition of debit quantities.

2/ Total Operational Sales on this schedule equal the operational sales reported in Northern's 2023 Form 2.