



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

April 29, 2025

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

RE: Northern Natural Gas Company
Docket No. RP20-1042-_____
2024 Operational Purchases and Sales of Gas Report

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 submits for filing its annual report of its Operational Purchases and Sales of Gas for the twelve-month period ended December 31, 2024.

Reason for Filing

Part 8, 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 its Operational Purchases and Sales of Gas Report for the twelve-month period ended December 31, 2024.

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 Part 8, Section 50.B – GT&C, Annual Report for Operational Purchases and Sales.

Ms. Debbie-Anne Reese, 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
Director, Regulatory Policy and Rates

Attachments

Northern Natural Gas Company
2024 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	7,532,373	2/	19,008,480.90	(45,000)	3/	(6,300.00)	2, 4, and 4a
2-Balance Fuel and UAF Quantities	-		-	-	4/	-	2
3-Implement the Imbalance Procedures in Northern's Tariff	4,074,530	5/	4,781,864.29	(3,581,517)	5/	(10,150,715.71)	3
4-Perform Other Operational Functions	-		-	(8,575)	6/	(109,838.92)	3
Total Sources	11,606,903		\$23,790,345.19	(3,635,092)		(\$10,266,854.63)	

Disposition Transactions

Disposition Operational Purchases	5,596,431	2/	(2,429,419.18)	-		-	4
Disposition Operational Sales	-		-	(17,375,677)	3/	(57,904,783.13)	4a
Total Dispositions	17,203,334		\$21,360,926.01	(21,010,769)		(\$68,171,637.76)	

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
2024 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-24	-	-	-
Feb-24	-	-	-
Mar-24	480,000	1.4618	701,650.00
Apr-24	-	-	-
May-24	-	-	-
Jun-24	-	-	-
Jul-24	-	-	-
Aug-24	-	-	-
Sep-24	-	-	-
Oct-24	-	-	-
Nov-24	6,900,000	2.5838	17,828,000.00
Dec-24	152,373	3.1425	478,830.90
	7,532,373	\$2.5236	\$19,008,480.90

Tariff Category 2-Balance Fuel and UAF Quantities			
Month	Dth	Price (\$)	Amount Paid (\$)
Jan-24	-	-	-
Feb-24	-	-	-
Mar-24	-	-	-
Apr-24	-	-	-
May-24	-	-	-
Jun-24	-	-	-
Jul-24	-	-	-
Aug-24	-	-	-
Sep-24	-	-	-
Oct-24	-	-	-
Nov-24	-	-	-
Dec-24	-	-	-
	-	-	-

Gas Delivered Credits

Tariff Category 1-Maintain System Pressure and Line Pack			
Month	Dth	Price (\$)	Amount Rcvd (\$)
Jan-24	-	-	-
Feb-24	-	-	-
Mar-24	-	-	-
Apr-24	-	-	-
May-24	-	-	-
Jun-24	-	-	-
Jul-24	-	-	-
Aug-24	-	-	-
Sep-24	(45,000)	0.1400	(6,300.00)
Oct-24	-	-	-
Nov-24	-	-	-
Dec-24	-	-	-
	(45,000)	\$0.1400	(\$6,300.00)

Tariff Category 2-Balance Fuel and UAF Quantities			
Month	Dth	Price (\$)	Amount Rcvd (\$)
Jan-24	-	-	-
Feb-24	-	-	-
Mar-24	-	-	-
Apr-24	-	-	-
May-24	-	-	-
Jun-24	-	-	-
Jul-24	-	-	-
Aug-24	-	-	-
Sep-24	-	-	-
Oct-24	-	-	-
Nov-24	-	-	-
Dec-24	-	-	-
	-	-	-

Northern Natural Gas Company
2024 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-24	48,327	(2.7415)	(132,489.68)
Feb-24	918,785	1.6374	1,504,390.23
Mar-24	1,116,819	1.2889	1,439,465.99
Apr-24	1,077,282	1.0317	1,111,475.76
May-24	250,130	1.2579	314,649.17
Jun-24	190,035	1.2579	239,052.63
Jul-24	2,208	(48.2685)	(106,576.91)
Aug-24	-	-	-
Sep-24	13,953	1.2305	17,168.61
Oct-24	4,274	2.9556	12,632.34
Nov-24	265,835	1.0350	275,128.37
Dec-24	186,882	0.5724	106,967.78
	4,074,530	\$1.1736	\$4,781,864.29

Tariff Category 4-Perform Other Operational Functions			
Month	Dth	Price (\$)	Amount Paid (\$)
Jan-24	-	-	-
Feb-24	-	-	-
Mar-24	-	-	-
Apr-24	-	-	-
May-24	-	-	-
Jun-24	-	-	-
Jul-24	-	-	-
Aug-24	-	-	-
Sep-24	-	-	-
Oct-24	-	-	-
Nov-24	-	-	-
Dec-24	-	-	-
	-	-	-

Gas Delivered Credits

Tariff Category 3-Implement the Imbalance Procedures In Northern's Tariff			
Month	Dth	Price (\$)	Amount Rcvd (\$)
Jan-24	(339,105)	2.3695	(803,498.16)
Feb-24	(95,173)	19.7694	(1,881,511.28)
Mar-24	(232,569)	1.6776	(390,166.88)
Apr-24	(57,233)	2.3441	(134,162.03)
May-24	(131,610)	2.7994	(368,428.33)
Jun-24	(620,527)	1.5505	(962,101.45)
Jul-24	(121,480)	4.1136	(499,715.79)
Aug-24	(223,867)	3.9547	(885,330.53)
Sep-24	(354,852)	1.3678	(485,364.43)
Oct-24	(420,192)	2.6449	(1,111,359.13)
Nov-24	(510,962)	2.1138	(1,080,048.79)
Dec-24	(473,947)	3.2684	(1,549,028.91)
	(3,581,517)	\$2.8342	(\$10,150,715.71)

Tariff Category 4-Perform Other Operational Functions 1/			
Month	Dth	Price	Amount Rcvd (\$)
Jan-24	2	(254.2350)	(508.47)
Feb-24	(2,757)	13.7478	(37,902.60)
Mar-24	-	-	2,016.17
Apr-24	-	-	-
May-24	(3,315)	13.8359	(45,865.90)
Jun-24	-	-	1,363.91
Jul-24	-	-	-
Aug-24	-	-	-
Sep-24	-	-	-
Oct-24	-	-	-
Nov-24	-	-	-
Dec-24	(2,505)	11.5537	(28,942.03)
	(8,575)	\$12.8092	(\$109,838.92)

1/ Condensate sales

Northern Natural Gas Company
2024 Operational Purchases and Sales Report
Operational Purchases

Tariff Category 1

Counterparty	Month	Gas Day Start	Gas Day End	Monthly Volume	Total Price (\$)	Amount Paid (\$)
EDF Trading North America, LLC	Mar-24	3/18/24	3/18/24	10,000	1.5000	15,000.00
Koch Energy Services, LLC	Mar-24	3/18/24	3/18/24	30,000	1.5000	45,000.00
Mieco LLC	Mar-24	3/18/24	3/18/24	25,000	1.5000	37,500.00
Koch Energy Services, LLC	Mar-24	3/20/24	3/20/24	30,000	1.5200	45,600.00
Macquarie Energy LLC	Mar-24	3/20/24	3/20/24	30,000	1.5000	45,000.00
EDF Trading North America, LLC	Mar-24	3/22/24	3/22/24	20,000	1.6200	32,400.00
Koch Energy Services, LLC	Mar-24	3/22/24	3/22/24	20,000	1.6000	32,000.00
Mieco LLC	Mar-24	3/22/24	3/22/24	35,000	1.5500	54,250.00
EDF Trading North America, LLC	Mar-24	3/23/24	3/23/24	20,000	1.5000	30,000.00
Koch Energy Services, LLC	Mar-24	3/23/24	3/23/24	20,000	1.4900	29,800.00
Koch Energy Services, LLC	Mar-24	3/23/24	3/25/24	60,000	1.4500	87,000.00
Macquarie Energy LLC	Mar-24	3/23/24	3/25/24	75,000	1.3400	100,500.00
Mieco LLC	Mar-24	3/23/24	3/25/24	30,000	1.4200	42,600.00
Tenaska Marketing Ventures	Mar-24	3/23/24	3/25/24	30,000	1.4000	42,000.00
Macquarie Energy LLC	Mar-24	3/26/24	3/26/24	20,000	1.4000	28,000.00
Tenaska Marketing Ventures	Mar-24	3/26/24	3/26/24	25,000	1.4000	35,000.00
EDF Trading North America, LLC	Nov-24	11/1/24	11/30/24	1,000,000	2.5050	2,505,000.00
EDF Trading North America, LLC	Nov-24	11/1/24	11/30/24	300,000	2.2350	670,500.00
J. Aron & Company	Nov-24	11/1/24	11/30/24	300,000	2.4000	720,000.00
Koch Energy Services, LLC	Nov-24	11/1/24	11/30/24	1,000,000	3.0875	3,087,500.00
Koch Energy Services, LLC	Nov-24	11/1/24	11/30/24	1,000,000	2.6200	2,620,000.00
Koch Energy Services, LLC	Nov-24	11/1/24	11/30/24	600,000	2.4950	1,497,000.00
Koch Energy Services, LLC	Nov-24	11/1/24	11/30/24	600,000	2.6400	1,584,000.00
Koch Energy Services, LLC	Nov-24	11/1/24	11/30/24	500,000	2.3600	1,180,000.00
Tenaska Marketing Ventures	Nov-24	11/1/24	11/30/24	1,000,000	2.3800	2,380,000.00
Tenaska Marketing Ventures	Nov-24	11/1/24	11/30/24	600,000	2.6400	1,584,000.00
EDF Trading North America, LLC	Dec-24	12/12/24	12/12/24	20,000	3.3000	66,000.00
Koch Energy Services, LLC	Dec-24	12/12/24	12/12/24	30,000	3.3500	100,500.00
Macquarie Energy LLC	Dec-24	12/12/24	12/12/24	2,373	3.3000	7,830.90
Koch Energy Services, LLC	Dec-24	12/13/24	12/13/24	50,000	3.1000	155,000.00
Macquarie Energy LLC	Dec-24	12/13/24	12/13/24	25,000	3.0300	75,750.00
Tenaska Marketing Ventures	Dec-24	12/13/24	12/13/24	25,000	2.9500	73,750.00
Category 1 Total				7,532,373	\$2.5236	\$19,008,480.90

Northern Natural Gas Company
2024 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-24	1/6/24	1/8/24	57,000	2.4750	141,075.00
Koch Energy Services, LLC	Jan-24	1/6/24	1/8/24	150,000	2.4500	367,500.00
Macquarie Energy LLC	Jan-24	1/6/24	1/8/24	15,000	2.4400	36,600.00
Tenaska Marketing Ventures	Jan-24	1/6/24	1/8/24	120,000	2.4500	294,000.00
Koch Energy Services, LLC	Jan-24	1/9/24	1/9/24	15,000	2.7500	41,250.00
Koch Energy Services, LLC	Jan-24	1/9/24	1/9/24	10,000	2.9500	29,500.00
Macquarie Energy LLC	Jan-24	1/9/24	1/9/24	50,000	2.5400	127,000.00
Koch Energy Services, LLC	Jan-24	1/10/24	1/10/24	7,500	3.0000	22,500.00
Koch Energy Services, LLC	Jan-24	1/10/24	1/10/24	25,000	3.0900	77,250.00
Macquarie Energy LLC	Jan-24	1/10/24	1/10/24	10,000	3.0600	30,600.00
Mieco LLC	Jan-24	1/18/24	1/18/24	15,000	2.2500	33,750.00
Tenaska Marketing Ventures	Jan-24	1/18/24	1/18/24	6,500	2.3500	15,275.00
Tenaska Marketing Ventures	Jan-24	1/20/24	1/22/24	39,000	1.9500	76,050.00
Mieco LLC	Feb-24	2/5/24	2/5/24	5,000	1.0500	5,250.00
Mieco LLC	Feb-24	2/5/24	2/5/24	4,958	1.0500	5,205.90
Tenaska Marketing Ventures	Feb-24	2/5/24	2/5/24	10,000	1.0500	10,500.00
Tenaska Marketing Ventures	Feb-24	2/7/24	2/7/24	10,000	1.0500	10,500.00
Tenaska Marketing Ventures	Feb-24	2/9/24	2/9/24	10,000	1.1500	11,500.00
Tenaska Marketing Ventures	Feb-24	2/13/24	2/13/24	12,000	1.0500	12,600.00
Tenaska Marketing Ventures	Feb-24	2/15/24	2/15/24	10,000	1.0000	10,000.00
Tenaska Marketing Ventures	Feb-24	2/16/24	2/16/24	15,000	0.9500	14,250.00
Tenaska Marketing Ventures	Feb-24	2/17/24	2/20/24	39,969	0.7200	28,777.68
Tenaska Marketing Ventures	Feb-24	2/21/24	2/21/24	15,000	0.3800	5,700.00
Tenaska Marketing Ventures	Feb-24	2/22/24	2/22/24	14,225	0.7500	10,668.75
Tenaska Marketing Ventures	Feb-24	2/24/24	2/26/24	30,000	0.1500	4,500.00
Tenaska Marketing Ventures	Feb-24	2/26/24	2/26/24	7,600	0.2500	1,900.00
Tenaska Marketing Ventures	Feb-24	2/28/24	2/28/24	10,000	0.4000	4,000.00
Tenaska Marketing Ventures	Feb-24	2/29/24	2/29/24	10,000	0.5000	5,000.00
Tenaska Marketing Ventures	Mar-24	3/1/24	3/1/24	8,956	0.6500	5,821.40
Mieco LLC	Mar-24	3/4/24	3/4/24	10,000	0.2500	2,500.00
Mieco LLC	Mar-24	3/5/24	3/5/24	10,000	0.2500	2,500.00
Tenaska Marketing Ventures	Mar-24	3/5/24	3/5/24	10,000	0.2500	2,500.00
Mieco LLC	Mar-24	3/6/24	3/6/24	14,999	(0.5000)	(7,499.50)
Tenaska Marketing Ventures	Mar-24	3/6/24	3/6/24	5,000	(0.5500)	(2,750.00)
Tenaska Marketing Ventures	Mar-24	3/6/24	3/6/24	5,770	(0.2000)	(1,154.00)
Mieco LLC	Mar-24	3/7/24	3/7/24	10,000	0.2500	2,500.00
Tenaska Marketing Ventures	Mar-24	3/7/24	3/7/24	15,000	0.2000	3,000.00
Tenaska Marketing Ventures	Mar-24	3/8/24	3/8/24	15,000	0.2000	3,000.00
Tenaska Marketing Ventures	Mar-24	3/9/24	3/11/24	30,000	0.1500	4,500.00
Mieco LLC	Mar-24	3/12/24	3/12/24	15,000	(0.0500)	(750.00)
Mieco LLC	Mar-24	3/13/24	3/13/24	15,000	-	-
Mieco LLC	Mar-24	3/15/24	3/15/24	15,000	(0.3000)	(4,500.00)
Mieco LLC	Mar-24	3/16/24	3/18/24	30,000	(0.2500)	(7,500.00)
Tenaska Marketing Ventures	Mar-24	3/16/24	3/18/24	15,000	(0.3000)	(4,500.00)
Tenaska Marketing Ventures	Mar-24	3/18/24	3/18/24	10,000	(0.5000)	(5,000.00)
Mieco LLC	Mar-24	3/19/24	3/19/24	10,000	(1.7000)	(17,000.00)
Mieco LLC	Mar-24	3/19/24	3/19/24	5,000	(0.5000)	(2,500.00)
Tenaska Marketing Ventures	Mar-24	3/19/24	3/19/24	10,000	(1.7000)	(17,000.00)
Mieco LLC	Mar-24	3/20/24	3/20/24	10,000	(0.1500)	(1,500.00)
Mieco LLC	Mar-24	3/20/24	3/20/24	10,000	(0.2000)	(2,000.00)
Tenaska Marketing Ventures	Mar-24	3/20/24	3/20/24	10,000	(0.1500)	(1,500.00)
Mieco LLC	Mar-24	3/21/24	3/21/24	15,000	(0.2200)	(3,300.00)
Mieco LLC	Mar-24	3/22/24	3/22/24	10,000	(0.2500)	(2,500.00)
Mieco LLC	Mar-24	3/22/24	3/22/24	4,000	(0.4000)	(1,600.00)
Tenaska Marketing Ventures	Mar-24	3/22/24	3/22/24	10,000	(0.3500)	(3,500.00)
Mieco LLC	Mar-24	3/23/24	3/25/24	45,000	(0.6000)	(27,000.00)
Tenaska Marketing Ventures	Mar-24	3/26/24	3/26/24	10,000	(0.7600)	(7,600.00)
Tenaska Marketing Ventures	Mar-24	3/27/24	3/27/24	10,000	0.2000	2,000.00
Mieco LLC	Mar-24	3/28/24	3/31/24	40,000	(0.0600)	(2,400.00)
Tenaska Marketing Ventures	Mar-24	3/28/24	3/31/24	60,000	-	-
Mieco LLC	Apr-24	4/1/24	4/1/24	15,000	0.2500	3,750.00
Mieco LLC	Apr-24	4/1/24	4/1/24	5,000	0.1500	750.00
Mieco LLC	Apr-24	4/4/24	4/4/24	10,000	(0.1500)	(1,500.00)

Northern Natural Gas Company
2024 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-24	4/5/24	4/5/24	15,000	(0.4000)	(6,000.00)
Mieco LLC	Apr-24	4/6/24	4/8/24	29,838	(0.8000)	(23,870.40)
Mieco LLC	Apr-24	4/9/24	4/9/24	10,000	(0.7500)	(7,500.00)
Mieco LLC	Apr-24	4/9/24	4/9/24	5,000	(1.1000)	(5,500.00)
Mieco LLC	Apr-24	4/9/24	4/9/24	10,000	(1.9000)	(19,000.00)
Mieco LLC	Apr-24	4/10/24	4/10/24	20,000	(1.8700)	(37,400.00)
Mieco LLC	Apr-24	4/11/24	4/11/24	10,000	(1.7000)	(17,000.00)
Mieco LLC	Apr-24	4/12/24	4/12/24	20,000	(1.7800)	(35,600.00)
Mieco LLC	Apr-24	4/12/24	4/12/24	5,000	(3.0000)	(15,000.00)
Mieco LLC	Apr-24	4/13/24	4/15/24	36,000	(2.0200)	(72,720.00)
Mieco LLC	Apr-24	4/16/24	4/16/24	12,107	(3.2500)	(39,347.75)
Mieco LLC	Apr-24	4/16/24	4/16/24	3,305	(2.0000)	(6,610.00)
Mieco LLC	Apr-24	4/17/24	4/17/24	10,000	(1.3500)	(13,500.00)
Mieco LLC	Apr-24	4/17/24	4/17/24	5,000	(1.7500)	(8,750.00)
Mieco LLC	Apr-24	4/17/24	4/17/24	10,000	(1.1100)	(11,100.00)
Mieco LLC	Apr-24	4/18/24	4/18/24	14,357	(1.0100)	(14,500.57)
Mieco LLC	Apr-24	4/18/24	4/18/24	9,459	(1.0000)	(9,459.00)
Mieco LLC	Apr-24	4/19/24	4/19/24	12,997	(1.0000)	(12,997.00)
Mieco LLC	Apr-24	4/20/24	4/22/24	30,000	(1.6000)	(48,000.00)
Mieco LLC	Apr-24	4/21/24	4/21/24	25,000	(0.5000)	(12,500.00)
Mieco LLC	Apr-24	4/23/24	4/23/24	10,000	(0.5000)	(5,000.00)
Mieco LLC	Apr-24	4/24/24	4/24/24	15,000	0.2700	4,050.00
Mieco LLC	Apr-24	4/25/24	4/25/24	15,000	0.2200	3,300.00
Mieco LLC	Apr-24	4/26/24	4/26/24	15,000	(0.4000)	(6,000.00)
Mieco LLC	Apr-24	4/27/24	4/29/24	45,000	(1.9500)	(87,750.00)
Mieco LLC	Apr-24	4/29/24	4/29/24	15,000	(0.2000)	(3,000.00)
Mieco LLC	Apr-24	4/29/24	4/29/24	15,000	(0.3000)	(4,500.00)
Mieco LLC	Apr-24	4/30/24	4/30/24	25,000	(0.0200)	(500.00)
Mieco LLC	Apr-24	4/30/24	4/30/24	3,000	(0.1500)	(450.00)
Mieco LLC	May-24	5/1/24	5/1/24	25,000	(0.0500)	(1,250.00)
Mieco LLC	May-24	5/2/24	5/2/24	25,000	(0.0100)	(250.00)
Mieco LLC	May-24	5/3/24	5/3/24	14,937	0.6500	9,709.05
Mieco LLC	May-24	5/4/24	5/6/24	44,968	0.3300	14,839.44
Mieco LLC	May-24	5/7/24	5/7/24	24,969	(4.4000)	(109,863.60)
Mieco LLC	May-24	5/8/24	5/8/24	25,000	(2.7000)	(67,500.00)
Mieco LLC	May-24	5/8/24	5/8/24	10,000	(2.4000)	(24,000.00)
Mieco LLC	May-24	5/8/24	5/8/24	10,000	(2.5500)	(25,500.00)
Mieco LLC	May-24	5/8/24	5/8/24	5,000	(3.0000)	(15,000.00)
ConocoPhillips Company	May-24	5/9/24	5/9/24	5,000	(3.0000)	(15,000.00)
Mieco LLC	May-24	5/9/24	5/9/24	25,000	(2.4000)	(60,000.00)
Mieco LLC	May-24	5/9/24	5/9/24	10,000	(4.9000)	(49,000.00)
Mieco LLC	May-24	5/9/24	5/9/24	15,000	(5.1000)	(76,500.00)
ConocoPhillips Company	May-24	5/10/24	5/10/24	10,000	(4.2000)	(42,000.00)
ConocoPhillips Company	May-24	5/10/24	5/10/24	10,000	(3.5000)	(35,000.00)
Mieco LLC	May-24	5/10/24	5/10/24	15,000	(3.7000)	(55,500.00)
Mieco LLC	May-24	5/10/24	5/10/24	10,000	(4.1000)	(41,000.00)
Mieco LLC	May-24	5/10/24	5/10/24	10,000	(5.0000)	(50,000.00)
ConocoPhillips Company	May-24	5/11/24	5/13/24	30,000	(2.4000)	(72,000.00)
Mieco LLC	May-24	5/11/24	5/13/24	45,000	(2.4000)	(108,000.00)
Mieco LLC	May-24	5/11/24	5/13/24	15,000	(3.1500)	(47,250.00)
Mieco LLC	May-24	5/10/24	5/10/24	10,000	(5.5000)	(55,000.00)
Mieco LLC	May-24	5/11/24	5/11/24	10,190	(5.2500)	(53,497.50)
Mieco LLC	May-24	5/14/24	5/14/24	15,000	(1.0100)	(15,150.00)
ConocoPhillips Company	May-24	5/14/24	5/14/24	10,000	(1.0000)	(10,000.00)
Mieco LLC	May-24	5/13/24	5/13/24	15,000	0.6000	9,000.00
ConocoPhillips Company	May-24	5/15/24	5/15/24	10,000	0.1500	1,500.00
Mieco LLC	May-24	5/15/24	5/15/24	15,000	0.1800	2,700.00
Mieco LLC	May-24	5/14/24	5/14/24	15,000	(0.3000)	(4,500.00)
Mieco LLC	May-24	5/15/24	5/15/24	5,000	0.0800	400.00
Mieco LLC	May-24	5/14/24	5/14/24	15,000	(0.2500)	(3,750.00)
Mieco LLC	May-24	5/16/24	5/16/24	15,000	0.4500	6,750.00
ConocoPhillips Company	May-24	5/16/24	5/16/24	10,000	0.3500	3,500.00

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Mieco LLC	May-24	5/15/24	5/15/24	5,000	0.0500	250.00
Mieco LLC	May-24	5/17/24	5/17/24	10,000	0.1000	1,000.00
ConocoPhillips Company	May-24	5/16/24	5/16/24	10,000	0.1000	1,000.00
ConocoPhillips Company	May-24	5/17/24	5/17/24	10,000	0.1000	1,000.00
Mieco LLC	May-24	5/18/24	5/20/24	60,000	0.1000	6,000.00
Mieco LLC	May-24	5/21/24	5/21/24	20,000	0.2000	4,000.00
Mieco LLC	May-24	5/22/24	5/22/24	20,000	0.2500	5,000.00
Mieco LLC	May-24	5/22/24	5/22/24	10,000	0.0300	300.00
Mieco LLC	May-24	5/23/24	5/23/24	17,472	0.2500	4,368.00
Mieco LLC	May-24	5/24/24	5/24/24	20,000	0.3800	7,600.00
Mieco LLC	May-24	5/25/24	5/28/24	60,000	0.2500	15,000.00
Mieco LLC	May-24	5/28/24	5/28/24	13,200	0.3300	4,356.00
Mieco LLC	May-24	5/29/24	5/29/24	15,000	0.5000	7,500.00
Mieco LLC	May-24	5/29/24	5/29/24	8,700	0.4800	4,176.00
Mieco LLC	May-24	5/30/24	5/30/24	10,000	0.4800	4,800.00
Mieco LLC	May-24	5/30/24	5/30/24	10,000	0.4800	4,800.00
Mieco LLC	May-24	5/30/24	5/30/24	15,300	0.3300	5,049.00
Mieco LLC	May-24	5/31/24	5/31/24	20,000	0.3700	7,400.00
Mieco LLC	May-24	5/31/24	5/31/24	10,000	(0.2000)	(2,000.00)
Mieco LLC	Jun-24	6/1/24	6/3/24	60,000	(0.0200)	(1,200.00)
Mieco LLC	Jun-24	6/1/24	6/3/24	30,000	(0.1800)	(5,400.00)
Mieco LLC	Jun-24	6/3/24	6/3/24	10,000	0.1800	1,800.00
Mieco LLC	Jun-24	6/3/24	6/3/24	10,000	0.3300	3,300.00
Mieco LLC	Jun-24	6/4/24	6/4/24	10,000	0.2500	2,500.00
Mieco LLC	Jun-24	6/4/24	6/4/24	10,000	0.3000	3,000.00
Mieco LLC	Jun-24	6/4/24	6/4/24	10,000	0.5000	5,000.00
Mieco LLC	Jun-24	6/5/24	6/5/24	10,000	0.4600	4,600.00
Mieco LLC	Jun-24	6/5/24	6/5/24	10,000	0.6500	6,500.00
Mieco LLC	Jun-24	6/5/24	6/5/24	5,000	0.5500	2,750.00
Mieco LLC	Jun-24	6/6/24	6/6/24	9,972	0.7500	7,479.00
Mieco LLC	Jun-24	6/6/24	6/6/24	10,455	0.7500	7,841.25
Mieco LLC	Jun-24	6/7/24	6/7/24	10,000	0.9300	9,300.00
Mieco LLC	Jun-24	6/8/24	6/8/24	6,000	0.6500	3,900.00
Mieco LLC	Jun-24	6/8/24	6/10/24	30,000	0.3800	11,400.00
Mieco LLC	Jun-24	6/11/24	6/11/24	15,000	1.2500	18,750.00
Mieco LLC	Jun-24	6/13/24	6/13/24	10,000	1.4000	14,000.00
Mieco LLC	Jun-24	6/13/24	6/13/24	10,000	1.2800	12,800.00
Mieco LLC	Jun-24	6/14/24	6/14/24	15,000	1.2800	19,200.00
Mieco LLC	Jun-24	6/15/24	6/17/24	59,999	1.1500	68,998.85
Mieco LLC	Jun-24	6/18/24	6/18/24	10,000	0.8000	8,000.00
Tenaska Marketing Ventures	Jun-24	6/18/24	6/18/24	15,000	0.8500	12,750.00
Mieco LLC	Jun-24	6/19/24	6/20/24	20,000	0.7200	14,400.00
Tenaska Marketing Ventures	Jun-24	6/19/24	6/20/24	20,000	0.7500	15,000.00
Mieco LLC	Jun-24	6/21/24	6/21/24	15,000	0.7900	11,850.00
Tenaska Marketing Ventures	Jun-24	6/21/24	6/21/24	10,000	0.7500	7,500.00
Mieco LLC	Jun-24	6/22/24	6/24/24	59,162	0.2400	14,198.88
Tenaska Marketing Ventures	Jun-24	6/22/24	6/24/24	30,000	0.2500	7,500.00
Mieco LLC	Jun-24	6/23/24	6/23/24	7,038	(0.3300)	(2,322.54)
Mieco LLC	Jun-24	6/24/24	6/24/24	10,000	(1.2500)	(12,500.00)
Mieco LLC	Jun-24	6/24/24	6/24/24	10,000	(1.3000)	(13,000.00)
Mieco LLC	Jun-24	6/24/24	6/24/24	5,000	(1.5000)	(7,500.00)
Mieco LLC	Jun-24	6/25/24	6/25/24	10,000	(0.8500)	(8,500.00)
Mieco LLC	Jun-24	6/25/24	6/25/24	10,000	(1.0300)	(10,300.00)
Mieco LLC	Jun-24	6/26/24	6/26/24	9,999	(0.5000)	(4,999.50)
Mieco LLC	Jun-24	6/26/24	6/26/24	9,999	(0.5000)	(4,999.50)
Mieco LLC	Jun-24	6/26/24	6/26/24	14,997	(0.0500)	(749.85)
Mieco LLC	Jun-24	6/27/24	6/27/24	10,000	(0.2500)	(2,500.00)
Mieco LLC	Jun-24	6/27/24	6/27/24	10,000	(1.2000)	(12,000.00)
Mieco LLC	Jun-24	6/28/24	6/28/24	10,000	(1.7000)	(17,000.00)
Mieco LLC	Jun-24	6/28/24	6/28/24	10,000	(1.5000)	(15,000.00)
Mieco LLC	Jun-24	6/28/24	6/30/24	59,108	(3.2000)	(189,145.60)
Mieco LLC	Jul-24	7/1/24	7/1/24	9,755	(2.0000)	(19,510.00)

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Mieco LLC	Jul-24	7/1/24	7/1/24	9,756	(1.7000)	(16,585.20)
Mieco LLC	Jul-24	7/1/24	7/1/24	9,609	(2.2000)	(21,139.80)
Mieco LLC	Jul-24	7/2/24	7/2/24	19,960	(1.8800)	(37,524.80)
Mieco LLC	Jul-24	7/2/24	7/2/24	4,988	(2.0000)	(9,976.00)
Mieco LLC	Jul-24	7/3/24	7/3/24	20,000	(2.0000)	(40,000.00)
Mieco LLC	Jul-24	7/3/24	7/3/24	10,000	(2.8000)	(28,000.00)
Mieco LLC	Jul-24	7/4/24	7/8/24	100,000	(3.5000)	(350,000.00)
Mieco LLC	Jul-24	7/12/24	7/12/24	10,000	0.9300	9,300.00
Mieco LLC	Jul-24	7/12/24	7/12/24	15,600	0.3800	5,928.00
Mieco LLC	Jul-24	7/13/24	7/15/24	30,000	0.2500	7,500.00
Mieco LLC	Jul-24	7/16/24	7/16/24	9,911	0.2500	2,477.75
Mieco LLC	Jul-24	7/17/24	7/17/24	10,000	0.3000	3,000.00
Mieco LLC	Jul-24	7/17/24	7/17/24	10,000	0.3750	3,750.00
Mieco LLC	Jul-24	7/17/24	7/17/24	10,000	0.2500	2,500.00
Mieco LLC	Jul-24	7/18/24	7/18/24	10,000	0.3750	3,750.00
Mieco LLC	Jul-24	7/18/24	7/18/24	10,000	0.3000	3,000.00
Mieco LLC	Jul-24	7/19/24	7/19/24	10,000	0.3000	3,000.00
Tenaska Marketing Ventures	Jul-24	7/20/24	7/22/24	45,000	(0.2000)	(9,000.00)
Mieco LLC	Jul-24	7/22/24	7/22/24	6,967	0.2500	1,741.75
Mieco LLC	Jul-24	7/23/24	7/23/24	9,976	0.4000	3,990.40
Mieco LLC	Jul-24	7/24/24	7/24/24	10,000	0.5000	5,000.00
Mieco LLC	Jul-24	7/25/24	7/25/24	10,000	0.5000	5,000.00
Tenaska Marketing Ventures	Jul-24	7/25/24	7/25/24	7,000	0.1500	1,050.00
Mieco LLC	Jul-24	7/26/24	7/26/24	10,000	0.3500	3,500.00
Mieco LLC	Jul-24	7/27/24	7/29/24	44,206	(1.2500)	(55,257.50)
Mieco LLC	Jul-24	7/29/24	7/29/24	13,998	(0.3000)	(4,199.40)
Mieco LLC	Jul-24	7/30/24	7/30/24	10,000	(0.1000)	(1,000.00)
Mieco LLC	Jul-24	7/30/24	7/30/24	10,000	(0.3000)	(3,000.00)
Mieco LLC	Jul-24	7/30/24	7/30/24	15,000	(0.4000)	(6,000.00)
Mieco LLC	Jul-24	7/31/24	7/31/24	20,000	(1.0200)	(20,400.00)
Mieco LLC	Jul-24	7/31/24	7/31/24	10,000	(0.5500)	(5,500.00)
Mieco LLC	Jul-24	7/31/24	7/31/24	5,000	(0.9000)	(4,500.00)
Mieco LLC	Aug-24	8/1/24	8/1/24	10,000	(0.1000)	(1,000.00)
Mieco LLC	Aug-24	8/2/24	8/2/24	10,000	(0.2000)	(2,000.00)
Mieco LLC	Aug-24	8/2/24	8/2/24	10,000	(1.0000)	(10,000.00)
Mieco LLC	Aug-24	8/3/24	8/5/24	29,983	(1.0000)	(29,983.00)
Mieco LLC	Aug-24	8/3/24	8/5/24	29,983	(1.3000)	(38,977.90)
Mieco LLC	Aug-24	8/3/24	8/5/24	14,992	(1.5000)	(22,488.00)
Mieco LLC	Aug-24	8/5/24	8/5/24	10,000	(0.0100)	(100.00)
Mieco LLC	Aug-24	8/5/24	8/5/24	5,000	(0.5000)	(2,500.00)
Mieco LLC	Aug-24	8/6/24	8/6/24	20,000	(0.0100)	(200.00)
Mieco LLC	Aug-24	8/7/24	8/7/24	9,074	(0.5000)	(4,537.00)
Mieco LLC	Aug-24	8/8/24	8/8/24	15,000	(0.5000)	(7,500.00)
Mieco LLC	Aug-24	8/8/24	8/8/24	10,000	(1.0000)	(10,000.00)
Mieco LLC	Aug-24	8/10/24	8/11/24	4,492	(2.6000)	(11,679.20)
Mieco LLC	Aug-24	8/10/24	8/12/24	27,966	(2.6000)	(72,711.60)
Mieco LLC	Aug-24	8/13/24	8/13/24	10,000	(0.5000)	(5,000.00)
Mieco LLC	Aug-24	8/13/24	8/13/24	10,000	(0.5000)	(5,000.00)
Mieco LLC	Aug-24	8/13/24	8/13/24	10,000	(0.6500)	(6,500.00)
Mieco LLC	Aug-24	8/14/24	8/14/24	15,000	(0.5000)	(7,500.00)
Mieco LLC	Aug-24	8/14/24	8/14/24	5,000	(1.2000)	(6,000.00)
Mieco LLC	Aug-24	8/15/24	8/15/24	15,000	(0.6500)	(9,750.00)
Mieco LLC	Aug-24	8/16/24	8/16/24	9,973	(1.7000)	(16,954.10)
Mieco LLC	Aug-24	8/19/24	8/19/24	7,500	(1.1000)	(8,250.00)
Mieco LLC	Aug-24	8/20/24	8/20/24	10,000	(1.2000)	(12,000.00)
Mieco LLC	Aug-24	8/20/24	8/20/24	10,000	(1.2000)	(12,000.00)
Mieco LLC	Aug-24	8/21/24	8/21/24	10,000	(0.9000)	(9,000.00)
Mieco LLC	Aug-24	8/21/24	8/21/24	5,000	(1.4000)	(7,000.00)
Mieco LLC	Aug-24	8/22/24	8/22/24	10,000	(1.4000)	(14,000.00)
Mieco LLC	Aug-24	8/22/24	8/22/24	5,000	(1.3000)	(6,500.00)
Mieco LLC	Aug-24	8/23/24	8/23/24	19,779	(1.8000)	(35,602.20)
Mieco LLC	Aug-24	8/23/24	8/23/24	9,867	(1.5000)	(14,800.50)

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Counterparty	Month	Gas Day Start	Gas Day End	Dth 1/	Total Price (\$)	Amount Paid (\$)
Mieco LLC	Aug-24	8/24/24	8/26/24	78,407	(1.6000)	(125,451.20)
Mieco LLC	Aug-24	8/26/24	8/26/24	10,000	(2.0500)	(20,500.00)
Mieco LLC	Aug-24	8/27/24	8/27/24	20,000	(1.6700)	(33,400.00)
Mieco LLC	Aug-24	8/27/24	8/27/24	10,000	(2.1000)	(21,000.00)
Mieco LLC	Aug-24	8/27/24	8/27/24	7,500	(2.5000)	(18,750.00)
Mieco LLC	Aug-24	8/28/24	8/28/24	20,000	(2.2500)	(45,000.00)
Mieco LLC	Aug-24	8/28/24	8/28/24	10,000	(6.7000)	(67,000.00)
Mieco LLC	Aug-24	8/28/24	8/28/24	5,400	(4.7000)	(25,380.00)
Mieco LLC	Aug-24	8/28/24	8/28/24	3,200	(5.0000)	(16,000.00)
Mieco LLC	Aug-24	8/29/24	8/29/24	20,000	(4.5000)	(90,000.00)
Mieco LLC	Aug-24	8/29/24	8/29/24	15,000	(7.5000)	(112,500.00)
Mieco LLC	Aug-24	8/30/24	8/30/24	10,000	(5.9000)	(59,000.00)
Mieco LLC	Aug-24	8/30/24	8/30/24	15,000	(6.0000)	(90,000.00)
Mieco LLC	Aug-24	8/30/24	8/31/24	50,000	(6.6000)	(330,000.00)
Mieco LLC	Sep-24	9/1/24	9/3/24	73,844	(5.3800)	(397,280.72)
Mieco LLC	Sep-24	9/10/24	9/10/24	20,000	(0.9000)	(18,000.00)
Mieco LLC	Sep-24	9/10/24	9/10/24	5,000	(2.2000)	(11,000.00)
Mieco LLC	Sep-24	9/11/24	9/11/24	8,818	(2.4000)	(21,163.20)
Mieco LLC	Sep-24	9/12/24	9/12/24	10,000	(1.3500)	(13,500.00)
Mieco LLC	Sep-24	9/14/24	9/16/24	30,000	-	-
Mieco LLC	Sep-24	9/16/24	9/16/24	10,000	0.4000	4,000.00
Mieco LLC	Sep-24	9/17/24	9/17/24	3,119	0.4000	1,247.60
Mieco LLC	Sep-24	9/17/24	9/17/24	2,618	0.4000	1,047.20
Mieco LLC	Sep-24	9/20/24	9/20/24	5,000	(0.2500)	(1,250.00)
Mieco LLC	Sep-24	9/21/24	9/23/24	60,000	(0.3000)	(18,000.00)
Mieco LLC	Oct-24	10/8/24	10/8/24	10,000	(1.5000)	(15,000.00)
Mieco LLC	Oct-24	10/11/24	10/11/24	10,000	(1.2500)	(12,500.00)
Mieco LLC	Oct-24	10/12/24	10/12/24	10,000	(1.3000)	(13,000.00)
Mieco LLC	Oct-24	10/13/24	10/13/24	10,000	(1.3000)	(13,000.00)
Mieco LLC	Oct-24	10/14/24	10/14/24	10,000	(2.6000)	(26,000.00)
Mieco LLC	Oct-24	10/14/24	10/14/24	10,000	(2.0000)	(20,000.00)
Mieco LLC	Oct-24	10/15/24	10/15/24	5,000	(0.5000)	(2,500.00)
Mieco LLC	Oct-24	10/16/24	10/16/24	9,627	(0.5000)	(4,813.50)
Mieco LLC	Oct-24	10/17/24	10/17/24	10,000	(0.2500)	(2,500.00)
Mieco LLC	Oct-24	10/18/24	10/18/24	10,000	(0.5000)	(5,000.00)
Mieco LLC	Oct-24	10/18/24	10/18/24	5,000	(0.2500)	(1,250.00)
Mieco LLC	Oct-24	10/19/24	10/21/24	60,000	1.2700	76,200.00
Mieco LLC	Oct-24	10/22/24	10/22/24	25,000	1.3600	34,000.00
Mieco LLC	Oct-24	10/22/24	10/22/24	2,164	(1.1000)	(2,380.40)
Mieco LLC	Oct-24	10/23/24	10/23/24	9,998	(1.2000)	(11,997.60)
Mieco LLC	Oct-24	10/25/24	10/25/24	5,000	(0.1000)	(500.00)
Mieco LLC	Oct-24	10/28/24	10/28/24	9,784	(2.0000)	(19,568.00)
Mieco LLC	Oct-24	10/29/24	10/29/24	5,000	(1.9000)	(9,500.00)
Mieco LLC	Oct-24	10/29/24	10/29/24	5,000	(2.1000)	(10,500.00)
Mieco LLC	Oct-24	10/30/24	10/30/24	6,000	(0.5000)	(3,000.00)
Mieco LLC	Oct-24	10/31/24	10/31/24	5,000	(0.5000)	(2,500.00)
Mieco LLC	Nov-24	11/1/24	11/1/24	10,000	(0.5000)	(5,000.00)
Mieco LLC	Nov-24	11/2/24	11/4/24	44,913	(1.1000)	(49,404.30)
Mieco LLC	Nov-24	11/5/24	11/5/24	24,999	(3.2500)	(81,246.75)
Mieco LLC	Nov-24	11/5/24	11/5/24	9,999	(3.0000)	(29,997.00)
Mieco LLC	Nov-24	11/6/24	11/6/24	10,000	(3.0000)	(30,000.00)
Mieco LLC	Nov-24	11/6/24	11/6/24	5,000	(3.1500)	(15,750.00)
Mieco LLC	Nov-24	11/7/24	11/7/24	9,507	(2.5000)	(23,767.50)
Mieco LLC	Nov-24	11/7/24	11/7/24	8,987	0.2500	2,246.75
Mieco LLC	Nov-24	11/8/24	11/8/24	15,000	(0.1500)	(2,250.00)
Mieco LLC	Nov-24	11/8/24	11/8/24	10,000	(1.1000)	(11,000.00)
Mieco LLC	Nov-24	11/9/24	11/12/24	80,000	(1.5000)	(120,000.00)
Mieco LLC	Nov-24	11/12/24	11/12/24	6,714	(1.0000)	(6,714.00)
Mieco LLC	Nov-24	11/13/24	11/13/24	10,000	(1.3500)	(13,500.00)
Mieco LLC	Nov-24	11/13/24	11/13/24	10,000	(0.7000)	(7,000.00)
Mieco LLC	Nov-24	11/14/24	11/14/24	10,000	(0.7000)	(7,000.00)
Mieco LLC	Nov-24	11/15/24	11/15/24	10,000	0.2500	2,500.00

Northern Natural Gas Company
2024 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	Nov-24	11/16/24	11/18/24	36,000	0.2500	9,000.00
Mieco LLC	Nov-24	11/19/24	11/19/24	15,000	0.4800	7,200.00
Mieco LLC	Nov-24	11/19/24	11/19/24	10,000	1.3300	13,300.00
Mieco LLC	Nov-24	11/20/24	11/20/24	10,000	1.6500	16,500.00
Mieco LLC	Nov-24	11/21/24	11/21/24	14,893	1.8000	26,807.40
Mieco LLC	Nov-24	11/21/24	11/21/24	9,910	2.2000	21,802.00
Mieco LLC	Nov-24	11/22/24	11/22/24	10,000	1.9800	19,800.00
Mieco LLC	Nov-24	11/23/24	11/25/24	60,000	1.8000	108,000.00
Mieco LLC	Nov-24	11/25/24	11/25/24	10,000	2.0000	20,000.00
Mieco LLC	Nov-24	11/26/24	11/26/24	9,906	2.2000	21,793.20
Mieco LLC	Nov-24	11/27/24	11/30/24	40,000	2.0700	82,800.00
Mieco LLC	Dec-24	12/1/24	12/2/24	20,000	1.9500	39,000.00
Mieco LLC	Dec-24	12/1/24	12/2/24	10,000	1.9500	19,500.00
Mieco LLC	Dec-24	12/7/24	12/9/24	24,932	2.1800	54,351.76
Mieco LLC	Dec-24	12/24/24	12/24/24	14,986	2.3800	35,666.68
Mieco LLC	Dec-24	12/25/24	12/26/24	39,903	2.1000	83,796.30
Mieco LLC	Dec-24	12/26/24	12/26/24	4,963	0.7700	3,821.51
Mieco LLC	Dec-24	12/27/24	12/27/24	15,000	0.9300	13,950.00
Mieco LLC	Dec-24	12/28/24	12/30/24	45,000	0.3500	15,750.00
Total Disposition Operational Purchases				5,596,431	(\$0.4341)	(2,429,419)

Summary of Operational Purchases

	Dth 1/	Total Price (\$)	Amount Paid (\$)
Tariff Category 1 Purchases	7,532,373	2.5236	19,008,480.90
Disposition Operational Purchases	5,596,431	(0.4341)	(2,429,419.18)
Total Operational Purchases 2/	13,128,804	\$1.2628	\$16,579,061.72

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 2024 Form 2.

Northern Natural Gas Company

2024 Operational Purchases and Sales Report

Operational Sales

Tariff Category 1

Counterparty	Month	Gas Day Start	Gas Day End	Dth 1/	Total Price (\$)	Amount Rcvd (\$)
Hartree Partners, LP	Sep-24	9/28/24	9/30/24	(45,000)	0.1400	(6,300.00)
			Category 1 Total	(45,000) \$	0.1400	(6,300.00)

Northern Natural Gas Company
2024 Operational Purchases and Sales Report
Operational Sales

Disposition Operational

Counterparty	Month	Gas Day Start	Gas Day End	Dth 1/	Total Price (\$)	Amount Rcvd (\$)
Koch Energy Services, LLC	Jan-24	1/1/24	1/31/24	(155,000)	6.1500	(953,250.00)
Macquarie Energy LLC	Jan-24	1/1/24	1/31/24	(500,000)	5.6100	(2,805,000.00)
Macquarie Energy LLC	Jan-24	1/1/24	1/31/24	(155,000)	6.5250	(1,011,375.00)
Macquarie Energy LLC	Jan-24	1/1/24	1/31/24	(155,000)	6.0400	(936,200.00)
Macquarie Energy LLC	Jan-24	1/1/24	1/31/24	(155,000)	3.1200	(483,600.00)
Koch Energy Services, LLC	Jan-24	1/11/24	1/31/24	(105,000)	16.5000	(1,732,500.00)
Macquarie Energy LLC	Jan-24	1/11/24	1/31/24	(52,500)	14.0000	(735,000.00)
ETC Marketing, LTD.	Jan-24	1/13/24	1/16/24	(80,000)	31.5850	(2,526,800.00)
ETC Marketing, LTD.	Jan-24	1/13/24	1/16/24	(20,576)	28.0000	(576,128.00)
ETC Marketing, LTD.	Jan-24	1/13/24	1/16/24	(20,304)	30.0000	(609,120.00)
ETC Marketing, LTD.	Jan-24	1/13/24	1/16/24	(20,304)	31.0000	(629,424.00)
Koch Energy Services, LLC	Jan-24	1/13/24	1/16/24	(20,000)	37.2500	(745,000.00)
Macquarie Energy LLC	Jan-24	1/13/24	1/16/24	(20,000)	30.5000	(610,000.00)
Macquarie Energy LLC	Jan-24	1/13/24	1/16/24	(40,000)	27.0000	(1,080,000.00)
Sequent Energy Management, L.P.	Jan-24	1/13/24	1/16/24	(40,000)	32.0000	(1,280,000.00)
Koch Energy Services, LLC	Jan-24	1/14/24	1/14/24	(10,000)	30.0000	(300,000.00)
Koch Energy Services, LLC	Jan-24	1/14/24	1/14/24	(10,000)	35.0000	(350,000.00)
Macquarie Energy LLC	Jan-24	1/14/24	1/14/24	(20,000)	40.0000	(800,000.00)
Tenaska Marketing Ventures	Jan-24	1/14/24	1/14/24	(20,000)	35.0000	(700,000.00)
Koch Energy Services, LLC	Jan-24	1/15/24	1/15/24	(10,000)	50.0000	(500,000.00)
Macquarie Energy LLC	Jan-24	1/15/24	1/15/24	(13,103)	35.0000	(458,605.00)
Mieco LLC	Jan-24	1/15/24	1/15/24	(10,000)	45.0000	(450,000.00)
Mieco LLC	Jan-24	1/15/24	1/15/24	(5,000)	50.2600	(251,300.00)
Tenaska Marketing Ventures	Jan-24	1/15/24	1/15/24	(10,000)	50.0000	(500,000.00)
Tenaska Marketing Ventures	Jan-24	1/15/24	1/15/24	(30,000)	65.0000	(1,950,000.00)
Tenaska Marketing Ventures	Jan-24	1/15/24	1/15/24	(5,000)	35.0000	(175,000.00)
Koch Energy Services, LLC	Jan-24	1/16/24	1/16/24	(10,000)	70.0000	(700,000.00)
Macquarie Energy LLC	Jan-24	1/16/24	1/16/24	(7,500)	20.0000	(150,000.00)
Mieco LLC	Jan-24	1/16/24	1/16/24	(20,000)	62.2600	(1,245,200.00)
Tenaska Marketing Ventures	Jan-24	1/16/24	1/16/24	(10,000)	75.0000	(750,000.00)
Tenaska Marketing Ventures	Jan-24	1/16/24	1/16/24	(22,500)	20.0000	(450,000.00)
Koch Energy Services, LLC	Mar-24	3/1/24	3/31/24	(310,000)	1.4550	(451,050.00)
Macquarie Energy LLC	Mar-24	3/1/24	3/31/24	(310,000)	3.4050	(1,055,550.00)
ConocoPhillips Company	Apr-24	4/1/24	4/30/24	(300,000)	1.3700	(411,000.00)
ConocoPhillips Company	Apr-24	4/1/24	4/30/24	(75,000)	1.3650	(102,375.00)
Koch Energy Services, LLC	Apr-24	4/1/24	4/30/24	(299,754)	1.6250	(487,100.25)
Koch Energy Services, LLC	Apr-24	4/1/24	4/30/24	(299,756)	1.7800	(533,565.68)
Macquarie Energy LLC	Apr-24	4/1/24	4/30/24	(600,000)	1.6050	(963,000.00)
Macquarie Energy LLC	Apr-24	4/1/24	4/30/24	(300,000)	1.6300	(489,000.00)
Macquarie Energy LLC	Apr-24	4/1/24	4/30/24	(1,199,983)	1.3750	(1,649,976.63)
Macquarie Energy LLC	Apr-24	4/1/24	4/30/24	(300,000)	1.5400	(462,000.00)
Macquarie Energy LLC	Apr-24	4/1/24	4/30/24	(435,000)	1.3650	(593,775.00)
Macquarie Energy LLC	Apr-24	4/1/24	4/30/24	(300,000)	1.3650	(409,500.00)
Macquarie Energy LLC	Apr-24	4/1/24	4/30/24	(299,997)	1.4750	(442,495.58)
Macquarie Energy LLC	Apr-24	4/1/24	4/30/24	(300,000)	1.4400	(432,000.00)
Shell Energy North America (US), LP	Apr-24	4/1/24	4/30/24	(600,000)	1.3650	(819,000.00)
Shell Energy North America (US), LP	Apr-24	4/1/24	4/30/24	(500,000)	1.3700	(685,000.00)
ETC Marketing, LTD.	Apr-24	4/3/24	4/3/24	(4,600)	1.5800	(7,268.00)
Tenaska Marketing Ventures	Apr-24	4/3/24	4/3/24	(25,000)	1.5600	(39,000.00)
ETC Marketing, LTD.	Apr-24	4/4/24	4/4/24	(4,800)	1.7500	(8,400.00)
Tenaska Marketing Ventures	Apr-24	4/4/24	4/4/24	(25,000)	1.7400	(43,500.00)
Koch Energy Services, LLC	May-24	5/1/24	5/31/24	(620,000)	2.7100	(1,680,200.00)
Koch Energy Services, LLC	May-24	5/1/24	5/31/24	(310,000)	1.5650	(485,150.00)
Macquarie Energy LLC	May-24	5/1/24	5/31/24	(155,000)	1.5650	(242,575.00)
Macquarie Energy LLC	May-24	5/1/24	5/31/24	(310,000)	1.5300	(474,300.00)
Macquarie Energy LLC	May-24	5/1/24	5/31/24	(620,000)	1.4000	(868,000.00)
Shell Energy North America (US), LP	May-24	5/1/24	5/31/24	(465,000)	1.3700	(637,050.00)
Koch Energy Services, LLC	Jun-24	6/1/24	6/30/24	(500,000)	1.7400	(870,000.00)
Macquarie Energy LLC	Jun-24	6/1/24	6/30/24	(300,000)	1.7550	(526,500.00)
Macquarie Energy LLC	Jun-24	6/1/24	6/30/24	(1,500,000)	1.7350	(2,602,500.00)
Mieco LLC	Jun-24	6/1/24	6/30/24	(600,000)	1.7650	(1,059,000.00)
Shell Energy North America (US), LP	Jun-24	6/1/24	6/30/24	(300,000)	1.7400	(522,000.00)

2024 Operational Purchases and Sales Report
Operational Sales

Disposition Operational

Counterparty	Month	Gas Day Start	Gas Day End	Dth 1/	Total Price (\$)	Amount Rcvd (\$)
Macquarie Energy LLC	Jul-24	7/1/24	7/31/24	(620,000)	2.1600	(1,339,200.00)
Macquarie Energy LLC	Jul-24	7/1/24	7/31/24	(310,000)	2.2250	(689,750.00)
Koch Energy Services, LLC	Sep-24	9/1/24	9/30/24	(300,000)	1.4500	(435,000.00)
Macquarie Energy LLC	Sep-24	9/1/24	9/30/24	(225,000)	1.5800	(355,500.00)
Macquarie Energy LLC	Dec-24	12/1/24	12/31/24	(1,000,000)	4.6900	(4,690,000.00)
Macquarie Energy LLC	Dec-24	12/1/24	12/31/24	(1,000,000)	3.9000	(3,900,000.00)
Total Disposition Operational Sales				(17,375,677)	\$3.3325	(57,904,783)

Summary of Operational Sales				Dth 1/	Total Price (\$)	Amount Rcvd (\$)
Tariff Category 1 Sales				(45,000)	0.1400	(6,300.00)
Disposition Operational Sales				(17,375,677)	3.3325	(57,904,783.13)
Total Operational Sales 2/				(17,420,677)	\$3.3243	(\$57,911,083.13)

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 2024 Form 2.