

Sentra Corporation

**QUARTERLY REPORT OF GAS COST
RECOVERY RATE CALCULATION**

Date Filed:

March 29, 2023

Date Rates to be Effective:

May 1, 2023

Reporting Period is Calendar Quarter Ended:

January 31, 2023

SCHEDULE I
GAS COST RECOVERY RATE SUMMARY

<u>Component</u>	<u>Unit</u>	<u>Amount</u>
Expected Gas Cost (EGC)	\$/Mcf	3.0365
+ Refund Adjustment (RA)	\$/Mcf	0.8700
+ Actual Adjustment (AA)	\$/Mcf	0.4886
+ Balance Adjustment (BA)	\$/Mcf	<u>0.0011</u>
= Gas Cost Recovery Rate (GCR)	\$/Mcf	4.3962

GCR to be effective for service rendered from May 1, 2023

A. EXPECTED GAS COST CALCULATION

	<u>Unit</u>	
Total Expected Gas Cost (Schedule II)	\$	89,345.07
+ Sales for the 12 months ended	Mcf	<u>29,423.70</u>
- Expected Gas Cost (EGC)	\$/Mcf	3.0365

B. REFUND ADJUSTMENT CALCULATION

	<u>Unit</u>		
Supplier Refund Adjustment for Reporting Period (Sch. III)	\$/Mcf	\$ -	
+ Previous Quarter Supplier Refund Adjustment	\$/Mcf	\$ 0.8700	2021-00279
+ Second Previous Quarter Supplier Refund Adjustment	\$/Mcf	\$ -	
+ Third Previous Quarter Supplier Refund Adjustment	\$/Mcf	\$ -	
= Refund Adjustment (RA)	\$/Mcf	\$ 0.8700	

C. ACTUAL ADJUSTMENT CALCULATION

	<u>Unit</u>		
Actual Adjustment for the Reporting Period (Schedule IV)	\$/Mcf	\$ (0.6271)	
+ Previous Quarter Reported Actual Adjustment	\$/Mcf	\$ 0.1518	2022-00438
+ Second Previous Quarter Reported Actual Adjustment	\$/Mcf	\$ 0.1298	2022-00333
+ Third Previous Quarter Reported Actual Adjustment	\$/Mcf	\$ 0.8341	2022-00200
= Actual Adjustment (AA)	\$/Mcf	\$ 0.4886	

D. BALANCE ADJUSTMENT CALCULATION

	<u>Unit</u>		
Balance Adjustment for the Reporting Period (Schedule V)	\$/Mcf	\$ 0.0015	
+ Previous Quarter Reported Balance Adjustment	\$/Mcf	\$ (0.0016)	2022-00438
+ Second Previous Quarter Reported Balance Adjustment	\$/Mcf	\$ 0.0014	2022-00333
+ Third Previous Quarter Reported Balance Adjustment	\$/Mcf	\$ (0.0002)	2022-00200
= Balance Adjustment (BA)	\$/Mcf	\$ 0.0011	

SCHEDULE II
EXPECTED GAS COST

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Actual* Mcf Purchase for 12 months ended

1/31/2023

	(1) Supplier	(2) NYMEX Dth	(3) Heat Rate	(4) Mcf	(5) ** Rate =(2)x(3)	(6) Gas Cost Adder (\$0.40/dth)	(7) Transport Fee	(8) (4)x[(5)+(6)+(7)] Cost
Feb	Constellation	2.4233	1.0755	5389.10	2.6063	0.4302	0.0000	16,364.00
Mar	Constellation	2.4233	1.0755	3183.60	2.6063	0.4302	0.0000	9,667.00
Apr	Constellation	2.4233	1.0755	2433.10	2.6063	0.4302	0.0000	7,388.11
May	Constellation	2.4233	1.0755	861.60	2.6063	0.4302	0.0000	2,616.25
June	Constellation	2.4233	1.0755	347.80	2.6063	0.4302	0.0000	1,056.09
July	Constellation	2.4233	1.0755	295.20	2.6063	0.4302	0.0000	896.37
Aug	Constellation	2.4233	1.0755	431.50	2.6063	0.4302	0.0000	1,310.25
Sept	Middle Tennessee NG	2.4233	1.0755	549.50	2.6063	0.4302	0.0000	1,668.56
Oct	Middle Tennessee NG	2.4233	1.0755	1951.00	2.6063	0.4302	0.0000	5,924.21
Nov	Middle Tennessee NG	2.4233	1.0755	3712.90	2.6063	0.4302	0.0000	11,274.22
Dec	Middle Tennessee NG	2.4233	1.0755	5534.20	2.6063	0.4302	0.0000	16,804.60
Jan	Middle Tennessee NG	2.4233	1.0755	4734.20	2.6063	0.4302	0.0000	14,375.40
	Totals			29,423.70				89,345.07

Line losses are Unknown for 12 months ended 1/31/2023 based on purchases of 29,423.70 Mcf and sales of 29,423.70

	Unit	Amount
Total Expected Cost of Purchases (6) (to Schedule IA.)	\$	\$ 89,345.07
Expected Mcf Purchases (4)	Mcf	29,423.70
= Average Expected Cost Per Mcf Purchased	\$/Mcf	\$ 3.0365
Plus: Expected Losses of (not to exceed 5%) (D26/0.95) if line loss > 5%	Mcf	29,423.70
= Total Expected Gas Cost (J32*J33 if line loss)	\$	\$ 89,345.07

*Or adjusted pursuant to Gas Cost Adjustment Clause and explained herein.

**Supplier's tariff sheets or notices are attached.

SCHEDULE III
SUPPLIER REFUND ADJUSTMENT

Details for the 3 months ended

<u>Particulars</u>	<u>Unit</u>	<u>Amount</u>
Total supplier refunds received	\$	\$ -
+ Interest	\$	\$ -
<hr/>		
= Refund Adjustment including interest	\$	\$ -
+ Sales for 12 months ended _____ 1/31/2023	Mcf	29,423.70
<hr/>		
=Supplier Refund Adjustment for the Reporting Period (to Schedule IB.)	\$/Mcf	\$ -

SCHEDULE IV
ACTUAL ADJUSTMENTFor the 12 month period ended January 31, 2023

Particulars	Unit	Month 1	Month 2	Month 3	
		Nov-22	Dec-22	Jan-23	
Total Supply Volumes Purchased	Mcf	3,703.0	5,690.6	4,790.3	
Total Cost of Volumes Purchased	\$	22,256.86	43,669.10	26,235.74	
/ Total Sales *	Mcf	3,712.9	5,534.2	4,734.2	
= Unit Cost of Gas	\$/Mcf	\$5.9945	\$7.8908	\$5.5417	
Transport Fee	\$/Mcf	\$0.0000	\$0.0000	\$0.0000	
Total Unit Cost of Gas	\$/Mcf	\$5.9945	\$7.8908	\$5.5417	
- EGC in Effect for Month	\$/Mcf	\$7.9115	\$7.9115	\$7.9115	Approved in 2022-00333
= Difference	\$/Mcf	(\$1.9170)	(\$0.0207)	(\$2.3698)	
x Actual Sales during Month	Mcf	3,712.9	5,534.2	4,734.2	
= Monthly Cost Difference	\$	(\$7,118)	(\$115)	(\$11,219)	
Total Cost Difference			\$	(\$18,451.35)	
/ Sales for 12 months ended			Mcf	29,423.70	
= Actual Adjustment for the Reporting Period				(\$0.6271)	

* May not be less than 95% of supply volume

SCHEDULE V
BALANCE ADJUSTMENT

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For the 3 month period ended 1/31/2023

Line	Particulars	Unit	Amount
	Utility Gas Management		
(1)	Total cost difference from actual adjustment used to compute AA of the GCR effective four quarters prior to the effective date of the currently effective GCR.		30395.7 = 02/01/21 to 1/31/22 sales AA = .0315
1		\$	<u>957.46</u> 30395.7 X .0315
2 Less:	Dollars amount resulting from the AA of <u>\$ 0.0315</u> /MCF as used to compute the GCR in effect four quarters prior to the effective date of the currently effective GCR times the sales of		AA of .0315 on order 2022-00114 Effective May 1, 2022
3	<u>29,423.70</u> MCF during the 12 month period the AA was in effect.	\$	<u>926.85</u>
4 Equals:	Balance Adjustment for the AA.	\$	<u>30.61</u>
(2)	Total Supplier Refund Adjustment including interest used to compute RA of the GCR effective four quarters prior to the effective date of the currently effective GCR.		2022-00114 effective May 1, 2022 12 months prior to start of this order May 1, 2023
5		\$	<u>-</u>
6 Less:	Dollar amount resulting from the RA of <u>-</u> /MCF as used to compute the OCR in effect four quarters prior to the effective GCR times the sales of		
7	<u>29,423.70</u> MCF during the 12 month period the RA was in effect.	\$	<u>-</u>
8 Equals:	Balance Adjustment for the RA.	\$	<u>-</u>
(3)	Total Balance Adjustment used to compute RA of the GCR effective four quarters prior to the effective date of the currently effective GCR.		2022-00144 BA = .0147 30395.7 = 02/01/21 to 1/31/22 sales
9		\$	<u>446.82</u> .0147 X 30395.7
10 Less:	Dollar amount resulting from the BA of <u>\$ 0.0147</u> /MCF four quarters prior to the effective date of the currently effective GCR times the sales of		
11	<u>29,423.70</u> MCF during the 12 month period the BA was in effect.	\$	<u>432.53</u>
12 Equals:	Balance Adjustment for the BA.	\$	<u>14.29</u>
13	Total Balance Adjustment Amount (1) + (2) + (3)	\$	<u>44.90</u>
14	Divided B Sales for 12 months ended	\$	<u>29,423.70</u>
15 Equals:	Balance Adjustment for the Reporting Period.	\$/MCF	<u>0.0015</u>

MIDDLE TENNESSEE NATURAL GAS UTILITY DISTRICT
P.O. BOX 670
SMITHVILLE, TN 37166

Sentra Corporation
112 Orchard Lane
Thompsonville, KY 42167

Billing Date: 12/01/22

Location ID: 022726
Customer ID: 080659

<u>Meter Readings (MCF)</u>	<u>Fountain Run</u>	<u>Gamaliel</u>	<u>Meters off 8"</u>	
10/31/22	191,518	81,485		
11/30/22	<u>194,710</u>	<u>81,948</u>		
	3,192	463	<u>48.0</u>	= 3703 MCF

<u>3,703,000</u> Cu. Ft.	=	<u>37,030</u>	CCF
<u>37,030</u> CCF X BTU Factor	<u>1.076</u> =	<u>39,844</u>	Therms
<u>3,984</u> Dth X NYMEX EOM	\$ 5.186 /Dth	<u>\$ 20,663.10</u>	
<u>3,984</u> Dth X MTNGUD Charge	\$ 0.400 /Dth	<u>\$ 1,593.76</u>	

Sub-Total \$ 22,256.86

NET BILL DUE NOW \$ 22,256.86

10% Penalty if Paid after 12/25/22 \$ 2,066.31

Gross Bill Due if Paid after 12/25/22 \$ 24,323.17

\$ 6.0105 / Per MCF

DTH/MCF = 1.0759

4002.9

AO 1/3/23

ESB 1/24/23

MIDDLE TENNESSEE NATURAL GAS UTILITY DISTRICT

P.O. BOX 670
SMITHVILLE, TN 37166

Sentra Corporation
112 Orchard Lane
Thompkinsville, KY 42167

Billing Date: 01/01/23

Location ID: 022726
Customer ID: 080659

Meter Readings (MCF)	Fountain Run	Gamaliel	Meters off 8"
11/30/22	194,710	81,948	
12/30/22	199,597	82,669	
	4,887	721	82.6

5,690,600 Cu. Ft.	=	56,906	CCF
56,906 CCF X BTU Factor	1.079	=	61,402 Therms
6,140 Dth X NYMEX EOM	\$ 6.712 /Dth	\$ 41,213.02	
6,140 Dth X MTNGUD Charge	\$ 0.400 /Dth	\$ 2,456.08	

Sub-Total \$ 43,669.10

NET BILL DUE NOW \$ 43,669.10

10% Penalty if Paid after 01/25/23 \$ 4,121.30

Gross Bill Due if Paid after 01/25/23 \$ 47,790.40

60 2/1/23

MIDDLE TENNESSEE NATURAL GAS UTILITY DISTRICT
P.O. BOX 670
SMITHVILLE, TN 37166

Sentra Corporation
112 Orchard Lane
Thompkinsville, KY 42167

Billing Date: 02/01/23

Location ID: 022726
Customer ID: 080659

Meter Readings (MCF)	Fountain Run	Gamaliel	Meters off 8"
12/30/22	199,597	82,669	
01/31/23	203,648	83,335	
	4,051	666	73.3

4,790,300 Cu. Ft.	=	47,903	CCF
47,903 CCF X BTU Factor	1.072	=	51,352 Therms
5,135 Dth X NYMEX EOM	\$ 4.709 /Dth	\$ 24,181.66	
5,135 Dth X MTNGUD Charge	\$ 0.400 /Dth	\$ 2,054.08	

Sub-Total \$ 26,235.74

NET BILL DUE NOW \$ 26,235.74

10% Penalty if Paid after 02/25/23 \$ 2,418.17

Gross Bill Due if Paid after 02/25/23 \$ 28,653.91

**Texas Eastern Transmission, LP
Station Daily Volume Report**



Station: 73161 - Clay Gas Util. - Monroe Co, KY

Period: 11/1/2022 To 12/1/2022 **Closed Date:** N/A

Analyst: Zachary Teykl

Phone:

Gas Date	Vol @ 14.730 PSI (MCF)	BTU (BTU(IT)/CF)	Energy (MMBTU(IT))
11/01/2022	115	1083.202	125
11/02/2022	136	1080.415	147
11/03/2022	96	1077.770	104
11/04/2022	60	1079.086	65
11/05/2022	60	1081.129	65
11/06/2022	42	1079.342	45
11/07/2022	64	1078.913	69
11/08/2022	118	1077.655	127
11/09/2022	122	1078.365	132
11/10/2022	68	1079.245	73
11/11/2022	169	1079.000	182
11/12/2022	445	1081.408	481
11/13/2022	496	1080.967	537
11/14/2022	318	1079.861	344
11/15/2022	345	1079.167	372
11/16/2022	453	1082.123	490
11/17/2022	483	1082.616	523
11/18/2022	520	1079.425	562
11/19/2022	483	1076.553	520
11/20/2022	523	1076.088	563
11/21/2022	402	1076.756	433
11/22/2022	306	1076.031	330
11/23/2022	251	1077.153	270
11/24/2022	111	1078.888	120
11/25/2022	259	1080.843	280
11/26/2022	155	1079.425	167
11/27/2022	188	1077.860	202
11/28/2022	256	1076.138	276
11/29/2022	157	1079.424	169
11/30/2022	448	1077.866	483
12/01/2022	46	1078.903	50
Total	7,695	N/A	8,306
Daily Avg	248	1,079.084	268
Daily Min	42	1,076.031	45
Daily Max	523	1,083.202	563

7649

8256

1.0793

**Texas Eastern Transmission, LP
Station Daily Volume Report**



Station: 73161 - Clay Gas Util. - Monroe Co, KY

Period: 12/1/2022 To 12/31/2022 **Closed Date:** N/A

Analyst: Zachary Teykl

Phone:

Gas Date	Vol @ 14.730 PSI (MCF)	BTU (BTU(IT)/CF)	Energy (MMBTU(IT))
12/01/2022	374	1080.072	404
12/02/2022	164	1075.840	176
12/03/2022	350	1078.768	377
12/04/2022	423	1077.201	456
12/05/2022	234	1078.011	253
12/06/2022	108	1075.926	116
12/07/2022	96	1077.403	103
12/08/2022	137	1076.070	147
12/09/2022	147	1075.732	158
12/10/2022	196	1074.633	210
12/11/2022	231	1074.970	248
12/12/2022	296	1075.357	318
12/13/2022	193	1074.500	208
12/14/2022	249	1075.986	268
12/15/2022	379	1077.055	408
12/16/2022	424	1075.201	455
12/17/2022	454	1075.595	489
12/18/2022	536	1074.476	576
12/19/2022	443	1073.829	475
12/20/2022	468	1072.534	502
12/21/2022	309	1074.297	332
12/22/2022	663	1074.526	713
12/23/2022	1065	1077.825	1148
12/24/2022	893	1076.767	962
12/25/2022	744	1065.340	792
12/26/2022	658	1048.394	689
12/27/2022	601	1050.811	631
12/28/2022	417	1073.467	448
12/29/2022	240	1080.386	259
12/30/2022	150	1078.733	162
12/31/2022	261	1076.919	281
Total	11,903	N/A	12,764
Daily Avg	384	1,074.085	412
Daily Min	96	1,048.394	103
Daily Max	1,065	1,080.386	1,148

1.0723

Texas Eastern Transmission, LP
Station Daily Volume Report



Station: 73161 - Clay Gas Util. - Monroe Co, KY

Period: 1/1/2023 To 1/31/2023 Closed Date: N/A

Analyst: Zachary Teykl

Phone:

Gas Date	Vol @ 14.730 PSI (MCF)	BTU (BTU(IT)/CF)	Energy (MMBTU(IT))
1/01/2023	199	1079.515	215
1/02/2023	87	1076.923	93
1/03/2023	116	1076.407	125
1/04/2023	365	1075.920	392
1/05/2023	470	1074.389	505
1/06/2023	434	1070.933	465
1/07/2023	316	1070.509	339
1/08/2023	410	1070.580	439
1/09/2023	554	1070.962	593
1/10/2023	326	1071.005	349
1/11/2023	162	1072.414	173
1/12/2023	340	1076.302	366
1/13/2023	637	1076.079	685
1/14/2023	743	1075.679	799
1/15/2023	524	1074.736	563
1/16/2023	267	1075.035	287
1/17/2023	272	1075.611	293
1/18/2023	156	1077.406	168
1/19/2023	324	1078.965	350
1/20/2023	560	1080.161	605
1/21/2023	393	1079.737	425
1/22/2023	432	1076.131	465
1/23/2023	578	1076.356	622
1/24/2023	324	1076.187	348
1/25/2023	429	1075.493	461
1/26/2023	591	1073.927	635
1/27/2023	402	1075.852	432
1/28/2023	251	1078.246	271
1/29/2023	239	1074.537	257
1/30/2023	347	1077.811	374
1/31/2023	554	1075.152	595
Total	11,802	N/A	12,689
Daily Avg	381	1,075.450	409
Daily Min	87	1,070.509	93
Daily Max	743	1,080.161	799

BTU Factor
heat rate
1.0752

Usage Report

From: 11/01/2022 Through: 11/30/2022

Sorted By: Account Number

	Service	Measure	Act Usage	Bill Usage	Adj Usage	Adj Amt	Charges
Grand Totals							
	GAS	Cubic	0	0	0	0.00	1085.00
	GAS	Gallons	0	0	0	0.00	3623.00
	BASE RATE	Cubic	3712.9	3712.9	0	0.00	58566.38
	GAS RECOVE	Cubic	3712.9	3712.9	0	0.00	36760.93
	Number of Accounts		202				
	Number of Locations		203				
	Account/Location Combinations		203				

Usage Report

From: 12/01/2022 Through: 12/31/2022

Sorted By: Account Number

	Service	Measure	Act Usage	Bill Usage	Adj Usage	Adj Amt	Charges
Grand Totals							
	GAS	Cubic	0	0	0	0.00	1085.00
	GAS	Gallons	0	0	0	0.00	3641.00
	BASE RATE	Cubic	5534.2	5534.2	0	0.00	87822.06
	GAS RECOVE	Cubic	5534.2	5534.2	0	0.00	54793.59
	Number of Accounts		203				
	Number of Locations		204				
	Account/Location Combinations		204				

Usage Report

From: 01/01/2023 Through: 01/31/2023

Sorted By: Account Number

Service	Measure	Act Usage	Bill Usage	Adj Usage	Adj Amt	Charges
Grand Totals						
GAS	Cubic	0	0	0	0.00	1085.00
GAS	Gallons	0	0	0	0.00	3605.00
BASE RATE	Cubic	4734.2	4734.2	0	0.00	74475.86
GAS RECOVER	Cubic	4734.2	4734.2	0	0.00	46872.83
Number of Accounts		203				
Number of Locations		203				
Account/Location Combinations		204				

Month	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Jan	4.407	3.189	2.327	3.930	2.738	3.642	2.158	2.467	4.024	4.709
Feb	5.557	2.866	2.189	3.391	3.631	2.950	1.877	2.760	6.265	3.109
Mar	4.855	2.894	1.711	2.627	2.639	2.855	1.821	2.854	4.568	2.451
Apr	4.584	2.590	1.903	3.175	2.691	2.713	1.634	2.586	5.336	
May	4.795	2.517	1.995	3.142	2.821	2.566	1.794	2.925	7.267	
Jun	4.619	2.815	1.963	3.236	2.875	2.633	1.722	2.984	8.908	
Jul	4.400	2.773	2.917	3.067	2.996	2.291	1.495	3.617	6.551	
Aug	3.808	2.886	2.672	2.969	2.822	2.141	1.854	4.044	8.687	
Sep	3.957	2.638	2.853	2.961	2.895	2.251	2.579	4.370	9.353	
Oct	3.984	2.563	2.952	2.974	3.021	2.428	2.101	5.841	6.868	
Nov	3.728	2.033	2.764	2.752	3.185	2.597	2.996	6.202	5.186	
Dec	4.282	2.206	3.232	3.074	4.715	2.470	2.896	5.447	6.712	
Average	4.415	2.664	2.456	3.108	3.086	2.628	2.077	3.841	6.644	3.423

Beginning September 1, 2022 by agreement with Sentra's source of natural gas, Sentra's cost of gas will be the NYMEX monthly close plus \$0.40 per dekatherm. There will be no additional transport fee.

Supplier Invoice

	MCF	MMBTU	Heat Rate
Feb 22	12827	13793	1.0753
Mar	6564	7046	1.0734
Apr	5209	5613	1.0776
May	1734	1867	1.0767
Jun	943	1015	1.0764
Jul	870	935	1.0747
Aug	963	1036	1.0758
Sep	1513	1637	1.0820
Oct	4886	5259	1.0763
Nov	7695	8306	1.0794
Dec	11903	12764	1.0723
Jan 23	11802	12689	1.0752
	66909	71960	1.0755

MONTH	OPTIONS	CHART	LAST	CHANGE	PRIOR SETTLE	OPEN	HIGH	LOW	VOLUME	UPDATED
MAY 2023 NGK3	OPT		2.156	+0.009 (+0.42%)	2.147	2.161	2.225	2.103	114,745	13:20:05 CT 29 Mar 2023
JUN 2023 NGM3	OPT		2.419	+0.033 (+1.38%)	2.386	2.400	2.480	2.337	30,845	13:20:03 CT 29 Mar 2023
JUL 2023 NGN3	OPT		2.696	+0.037 (+1.39%)	2.659	2.670	2.758	2.607	30,564	13:20:03 CT 29 Mar 2023

Avg. 2.4233