



A Subsidiary of MDU Resources Group, Inc.

400 North Fourth Street  
Bismarck, ND 58501  
701-222-7900  
www.montana-dakota.com

April 18, 2024

Mr. Steven Kahl  
Executive Secretary  
North Dakota Public Service Commission  
State Capitol Building  
Bismarck, ND 58505-0480

Re: Case No. PU-24-002 (Therm Billing)  
Monthly Report – February 2024

Mr. Kahl,

Montana-Dakota Utilities Co. herewith electronically submits the following information, pursuant to the Ordering paragraphs one and two of the Order issued in Case No. 11,006, dated October 20, 1987 and pursuant to the North Dakota Administrative Code 69-09-01-02, part 2.

1. Attachment A is a schedule showing the thermal billing factors by community that reflect the BTU values shown on Attachment B and were used for billing purposes in March 2024.
2. Attachment B consists of copies of the monthly Heating Value Test Reports received from our suppliers for the month of February 2024.
3. Attachment C is a listing which states the type of measuring device in place at each zone.
4. Attachment D is a monthly list of the heating value data, by zone, for the most recent 12-month period and an average thereof. It is being provided pursuant to a Staff request.
5. Attachment E provides a brief explanation of the thermal variances, where applicable, for the month of February 2024.

Montana-Dakota respectfully requests this electronic filing, in lieu of an original and one copy, be accepted as being in full compliance with the filing requirements of this Commission.

Sincerely,

*/s/ Travis R. Jacobson*

Travis R. Jacobson  
Director of Regulatory Affairs

**Montana-Dakota Utilities Co.**  
**Therm Billing Factors - North Dakota**  
**Mar-24**

<u>Town</u>	<u>Heat Zone</u>	<u>Therm Factor</u>
MDU-303-ALEXANDER	025	1.1315
MDU-308-ARNEGARD	025	1.1315
MDU-314-APPLE VALLEY	271	1.1443
MDU-318-BEACH	032	1.0369
MDU-319-BELFIELD	032	1.0445
MDU-323-BERTHOLD	262	1.1315
MDU-327-BISMARCK	028	1.3744
MDU-330-BOWMAN	034	1.0036
MDU-337-BURLINGTON	262	1.1559
MDU-343-CARRINGTON	273	1.1443
MDU-344-CLEVELAND	272	1.1353
MDU-364-CAVALIER	273	1.1685
MDU-365-DAWSON	271	1.1363
MDU-368-DES LACS	262	1.1396
MDU-369-DICKINSON	031	1.0568
MDU-374-FT TOTTEN	273	1.1524
MDU-375-DEVILS LAKE	273	1.1524
MDU-379-BARLOW	273	1.1443
MDU-384-EPPING	264	1.1372
MDU-387-ELDRIDGE	272	1.1434
MDU-407-GLADSTONE	031	1.0568
MDU-411-GLEN ULLIN	031	1.0645
MDU-413-GOLVA	032	1.0216
MDU-416-GARRISON	262	1.1396
MDU-417-GRAFTON	273	1.1765
MDU-403-GWINNER	601	1.1271
MDU-429-HEBRON	031	1.0645
MDU-432-HETTINGER	903	2.3875
MDU-449-JAMESTOWN	272	1.1514
MDU-459-KILLDEER	033	1.1041
MDU-463-LANGDON	273	1.1443
MDU-469-LEFOR	031	1.0568
MDU-474-LIGNITE	263	1.0759
MDU-475-LINTON	802	1.0642
MDU-478-LINCOLN	028	1.0913
MDU-488-MCKENZIE	271	1.1443
MDU-494-MEDINA	271	1.1363
MDU-498-MANDAN	028	1.0913
MDU-500-MARMARTH	034	1.0110
MDU-505-MINOT	262	1.1315
MDU-510-MOTT	031	1.0568
MDU-512-MAX	262	1.1315
MDU-513-MILNOR	601	1.1271
MDU-522-NEW ENGLAND	031	1.0492
MDU-524-NEW SALEM	028	1.0682
MDU-532-NEW ROCKFORD	273	1.1443
MDU-539-PARK RIVER	273	1.1685
MDU-540-PALERMO	262	1.1315
MDU-558-RAY	264	1.1372

MDU-561-REGENT	031	1.0568
MDU-563-RHAME	034	0.9961
MDU-564-RICHARDTON	031	1.0492
MDU-568-ROSS	261	1.1046
MDU-572-RUTHVILLE	262	1.1559
MDU-574-SANBORN	272	1.1514
MDU-583-SENTINEL BUTTE	032	1.0369
MDU-588-SOUTH HEART	031	1.0492
MDU-717-SPIRITWOOD	272	1.1514
MDU-590-SPRINGBROOK	264	1.1372
MDU-591-STANLEY	261	1.1126
MDU-593-STEELE	271	1.1363
MDU-594-STERLING	028	1.0913
MDU-598-SHEYENNE	273	1.1524
MDU-605-SURREY	262	1.1559
MDU-610-TAPPEN	271	1.1363
MDU-611-TAYLOR	031	1.0492
MDU-616-TIOGA	260	1.0934
MDU-619-TURTLE LAKE	262	1.1396
MDU-620-TRENTON	024	1.1387
MDU-624-UNDERWOOD	262	1.1396
MDU-625-VALLEY CITY	272	1.1595
MDU-629-WALHALLA	273	1.1685
MDU-632-WATFORD CITY	610	1.0862
MDU-636-WHEELOCK	264	1.1290
MDU-637-WHITE EARTH	261	1.1126
MDU-642-WILLISTON	024	1.1387
MDU-646-WASHBURN	262	1.1396
MDU-647-WILTON	262	1.1315
MDU-664-RIVERDALE	262	1.1396
MDU-691-FAIRVIEW	241	1.1273
MDU-712-MINOT AFB	262	1.1559
MDU-718-FAIRMOUNT	600	1.1248
MDU-732-NEKOMA	273	1.1443
MDU-732-MSR SITE	273	1.1443

# Source Daily Summary

February 2024

Source #: 251  
Name: SDNY BDR-MNDK JNCTN-SDNY PLT

<b>Pressure Base:</b>	14.730	<b>Contract Day:</b>	1
<b>Temperature Base:</b>	60	<b>Contract Hour:</b>	9

Day	Relative Density	Heating Value Wet	Heating Value Dry	Heating Value As Del	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.6996	1166.1	1186.7	1186.4	0.042	3.254	72.183	22.276	2.193	0.023	0.029	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1418.77
2	0.6984	1164.1	1184.7	1184.3	0.047	3.255	72.367	22.146	2.133	0.022	0.028	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1417.56
3	0.7012	1169.0	1189.7	1189.3	0.052	3.205	71.864	22.654	2.172	0.023	0.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1420.77
4	0.7028	1171.4	1192.2	1191.8	0.050	3.211	71.652	22.746	2.286	0.024	0.030	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1422.08
5	0.7004	1167.1	1187.8	1187.5	0.051	3.244	72.079	22.350	2.223	0.023	0.030	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1419.32
6	0.6986	1164.4	1185.1	1184.7	0.051	3.238	72.309	22.259	2.091	0.023	0.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1417.89
7	0.6969	1161.1	1181.7	1181.4	0.066	3.263	72.423	22.327	1.873	0.021	0.026	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1415.53
8	0.6978	1163.1	1183.7	1183.4	0.055	3.241	72.241	22.542	1.873	0.021	0.027	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1417.06
9	0.6990	1163.9	1184.5	1184.2	0.068	3.287	72.038	22.645	1.921	0.019	0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1416.78
10	0.6961	1159.1	1179.6	1179.3	0.069	3.306	72.582	22.119	1.885	0.019	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1413.89
11	0.6973	1162.3	1182.8	1182.5	0.067	3.225	72.408	22.325	1.932	0.020	0.023	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1416.55
12	0.6972	1162.3	1182.9	1182.6	0.065	3.221	72.387	22.382	1.905	0.019	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1416.67
13	0.6975	1162.9	1183.5	1183.2	0.054	3.225	72.446	22.212	2.017	0.020	0.024	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1417.13
14	0.6992	1165.8	1186.5	1186.2	0.048	3.222	72.177	22.392	2.115	0.021	0.024	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1418.90
15	0.6987	1162.5	1183.1	1182.8	0.055	3.367	72.224	22.242	2.066	0.021	0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1415.36
16	0.6974	1162.0	1182.6	1182.3	0.043	3.289	72.419	22.210	1.996	0.019	0.023	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1416.10
17	0.6996	1165.6	1186.3	1186.0	0.043	3.279	72.115	22.374	2.141	0.021	0.026	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1418.24
18	0.6982	1163.3	1183.9	1183.6	0.047	3.279	72.296	22.300	2.035	0.019	0.023	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1416.90
19	0.7144	1165.0	1185.6	1185.3	0.829	3.506	70.834	21.867	2.724	0.083	0.147	0.006	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1402.91
20	0.6980	1163.6	1184.2	1183.9	0.047	3.242	72.327	22.331	2.008	0.020	0.024	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1417.45
21	0.6973	1162.8	1183.4	1183.1	0.044	3.226	72.522	22.108	2.050	0.021	0.027	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1417.21
22	0.6961	1160.7	1181.3	1181.0	0.049	3.241	72.539	22.276	1.857	0.018	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1415.83
23	0.6968	1162.1	1182.7	1182.4	0.064	3.196	72.422	22.421	1.856	0.019	0.023	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1416.86
24	0.7236	1171.1	1191.9	1191.6	1.184	3.456	69.989	21.909	3.059	0.130	0.251	0.013	0.010	0.000	0.000	0.000	0.000	0.000	0.000	1401.19
25	0.7163	1169.0	1189.7	1189.4	1.142	2.960	71.293	21.378	2.818	0.124	0.254	0.016	0.015	0.000	0.000	0.000	0.000	0.000	0.000	1405.73
26	0.7191	1169.2	1189.9	1189.6	1.117	3.246	70.674	21.677	2.911	0.119	0.231	0.013	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1403.27
27	0.7314	1177.1	1198.0	1197.6	1.339	3.583	68.865	22.429	3.375	0.138	0.252	0.011	0.008	0.000	0.000	0.000	0.000	0.000	0.000	1400.79
28	0.7341	1181.4	1202.4	1202.0	1.342	3.572	68.528	22.565	3.577	0.139	0.256	0.012	0.008	0.000	0.000	0.000	0.000	0.000	0.000	1403.30
29	0.7284	1176.6	1197.5	1197.1	1.237	3.493	69.356	22.156	3.353	0.133	0.250	0.013	0.010	0.000	0.000	0.000	0.000	0.000	0.000	1403.03
Avg	0.7045	1166.0	1186.7	1186.4	0.323	3.287	71.709	22.263	2.291	0.046	0.076	0.003	0.002	0.000	0.000	0.000	0.000	0.000	0.000	1413.90

# Source Daily Summary

February 2024

Source #: 571  
Name: WILLISTON BDR-CHARBN STN

<b>Pressure Base:</b>	14.730	<b>Contract Day:</b>	1
<b>Temperature Base:</b>	60	<b>Contract Hour:</b>	9

Day	Relative Density	Heating Value Wet	Heating Value Dry	Heating Value As Del	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.7119	1175.0	1195.8	1195.5	1.001	2.389	72.350	20.876	2.938	0.128	0.275	0.020	0.023	0.000	0.000	0.000	0.000	0.000	1417.26	
2	0.7118	1175.3	1196.1	1195.8	0.999	2.367	72.152	21.286	2.775	0.120	0.260	0.019	0.021	0.000	0.000	0.000	0.000	0.000	1417.72	
3	0.7100	1172.7	1193.5	1193.2	0.997	2.361	72.378	21.179	2.681	0.116	0.249	0.018	0.021	0.000	0.000	0.000	0.000	0.000	1416.40	
4	0.7096	1171.9	1192.7	1192.4	1.002	2.367	72.426	21.149	2.656	0.115	0.247	0.018	0.020	0.000	0.000	0.000	0.000	0.000	1415.80	
5	0.7109	1173.3	1194.1	1193.8	1.004	2.393	72.233	21.266	2.694	0.117	0.254	0.019	0.021	0.000	0.000	0.000	0.000	0.000	1416.27	
6	0.7116	1174.8	1195.6	1195.3	1.004	2.375	72.164	21.284	2.751	0.120	0.260	0.019	0.022	0.000	0.000	0.000	0.000	0.000	1417.30	
7	0.7113	1174.2	1195.0	1194.7	1.014	2.367	72.254	21.187	2.753	0.121	0.263	0.020	0.022	0.000	0.000	0.000	0.000	0.000	1416.90	
8	0.7126	1175.6	1196.4	1196.1	1.015	2.397	72.084	21.251	2.816	0.124	0.270	0.020	0.023	0.000	0.000	0.000	0.000	0.000	1417.30	
9	0.7156	1178.7	1199.6	1199.3	1.026	2.473	71.698	21.353	2.980	0.133	0.290	0.022	0.025	0.000	0.000	0.000	0.000	0.000	1418.09	
10	0.7171	1180.6	1201.5	1201.2	1.029	2.502	71.440	21.528	3.027	0.135	0.293	0.022	0.025	0.000	0.000	0.000	0.000	0.000	1418.77	
11	0.7175	1181.4	1202.3	1202.1	1.022	2.492	71.412	21.535	3.054	0.137	0.299	0.022	0.025	0.000	0.000	0.000	0.000	0.000	1419.44	
12	0.7168	1180.4	1201.3	1201.0	1.024	2.490	71.521	21.449	3.034	0.136	0.298	0.022	0.025	0.000	0.000	0.000	0.000	0.000	1418.88	
13	0.7163	1180.2	1201.1	1200.8	1.022	2.457	71.600	21.431	3.013	0.135	0.295	0.022	0.025	0.000	0.000	0.000	0.000	0.000	1419.13	
14	0.7154	1178.8	1199.7	1199.5	1.020	2.455	71.746	21.333	2.968	0.135	0.295	0.022	0.025	0.000	0.000	0.000	0.000	0.000	1418.43	
15	0.7112	1174.6	1195.4	1195.2	1.003	2.348	72.363	21.037	2.805	0.126	0.274	0.021	0.024	0.000	0.000	0.000	0.000	0.000	1417.48	
16	0.7080	1170.9	1191.6	1191.4	0.993	2.295	72.697	21.014	2.609	0.112	0.242	0.018	0.020	0.000	0.000	0.000	0.000	0.000	1416.12	
17	0.7072	1168.7	1189.4	1189.2	1.009	2.321	72.831	20.894	2.552	0.111	0.242	0.018	0.021	0.000	0.000	0.000	0.000	0.000	1414.38	
18	0.7067	1167.9	1188.6	1188.3	1.012	2.325	72.903	20.836	2.532	0.111	0.242	0.018	0.021	0.000	0.000	0.000	0.000	0.000	1413.82	
19	0.7058	1166.9	1187.6	1187.3	1.007	2.308	73.020	20.795	2.486	0.109	0.237	0.018	0.020	0.000	0.000	0.000	0.000	0.000	1413.54	
20	0.7060	1166.6	1187.3	1187.1	1.012	2.335	72.967	20.831	2.470	0.109	0.238	0.018	0.020	0.000	0.000	0.000	0.000	0.000	1413.02	
21	0.7053	1166.0	1186.7	1186.4	0.998	2.327	73.075	20.765	2.452	0.109	0.237	0.018	0.020	0.000	0.000	0.000	0.000	0.000	1412.99	
22	0.6999	1155.4	1175.9	1175.7	1.038	2.402	73.642	20.570	2.042	0.086	0.189	0.014	0.016	0.000	0.000	0.000	0.000	0.000	1405.59	
23	0.6994	1153.7	1174.1	1173.9	1.052	2.443	73.696	20.509	2.001	0.084	0.186	0.014	0.016	0.000	0.000	0.000	0.000	0.000	1403.96	
24	0.7054	1165.9	1186.5	1186.3	1.007	2.331	73.185	20.553	2.518	0.114	0.250	0.020	0.023	0.000	0.000	0.000	0.000	0.000	1412.69	
25	0.7026	1162.0	1182.6	1182.3	1.009	2.300	73.432	20.603	2.308	0.099	0.215	0.016	0.018	0.000	0.000	0.000	0.000	0.000	1410.84	
26	0.7038	1163.1	1183.7	1183.5	1.007	2.344	73.219	20.742	2.337	0.100	0.216	0.016	0.018	0.000	0.000	0.000	0.000	0.000	1411.03	
27	0.7108	1172.6	1193.4	1193.1	1.008	2.423	72.252	21.220	2.683	0.117	0.254	0.019	0.022	0.000	0.000	0.000	0.000	0.000	1415.48	
28	0.7101	1171.9	1192.7	1192.4	1.005	2.404	72.329	21.220	2.640	0.114	0.248	0.019	0.021	0.000	0.000	0.000	0.000	0.000	1415.37	
29	0.7079	1169.7	1190.4	1190.2	1.007	2.334	72.742	20.911	2.602	0.114	0.249	0.019	0.022	0.000	0.000	0.000	0.000	0.000	1414.83	
Avg	0.7096	1171.0	1192.1	1191.8	1.012	2.384	72.476	21.055	2.661	0.117	0.254	0.019	0.022	0.000	0.000	0.000	0.000	0.000	1415.13	

# Gas Composition and Properties

Effective February 1, 2024

Attachment B  
Page 3 of 24

Source #: 0602160  
Name: FAIRVIEW BORDER

Component	Mole %	Liquid Content	Mass %
Carbon Dioxide, CO2	0.8523		1.8137
Nitrogen, N2	3.2595		4.4150
Methane, C1	70.7481		54.8785
Ethane, C2	21.9946	5.8865	31.9780
Propane, C3	2.8569	0.7876	6.0912
iso-Butane, iC4	0.1017	0.0333	0.2858
n-Butane, nC4	0.1684	0.0531	0.4733
iso-Pentane, iC5	0.0101	0.0037	0.0352
n-Pentane, nC5	0.0084	0.0030	0.0293
Neo-Pentane, neo			
Hexanes Plus, C6+			
Argon, Ar			
Carbon Monoxide, CO			
Hydrogen, H2			
Oxygen, O2			
Helium, He			
Water, H2O			
Hydrogen Sulfide, H2S			
<b>Totals</b>	<b>100.0000</b>	<b>6.7670</b>	<b>100.0000</b>

Property	Total Sample	C6 Plus Fraction
Pressure Base	14.730	
Temperature Base	60.00	
HCDP @ Sample Pressure	-21.005	
Cricondentherm	-4.149	
HV, Dry @ Base P, T	1191.87	
HV, Sat @ Base P, T	1171.13	
HV, Sat @ Sample P, T	1191.87	
Relative Density	0.7161	
C6+: 100		

**Sample**

Date: 02/01/2024                      Type:

Tech: Tipton, Joshua

Pressure:                      420 psi      Temp.:                      °F

Gauge:                      Gauge                      H2O:

Atm. Pressure:                      H2S:

Remarks:

**Analysis**

Date: 02/01/2024                      Instrument:

Tech: Tipton, Joshua                      Cylinder:                      321

Remarks:



# Source Daily Summary

February 2024

Source #: 602  
Name: TIOGA STN-N TIOGA TRANSFER

<b>Pressure Base:</b>	14.730	<b>Contract Day:</b>	1
<b>Temperature Base:</b>	60	<b>Contract Hour:</b>	9

Day	Relative Density	Heating Value Wet	Heating Value Dry	Heating Value As Del	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.6963	1157.0	1177.5	1177.3	0.914	2.155	75.106	18.738	2.710	0.112	0.231	0.016	0.018	0.000	0.000	0.000	0.000	0.000	1411.03	-9.42
2	0.6903	1148.7	1169.0	1168.9	0.932	2.079	74.965	20.134	1.684	0.061	0.126	0.009	0.010	0.000	0.000	0.000	0.000	0.000	1407.03	-18.13
3	0.6895	1147.7	1168.0	1167.8	0.929	2.073	75.094	20.051	1.640	0.063	0.130	0.009	0.010	0.000	0.000	0.000	0.000	0.000	1406.58	-18.50
4	0.6910	1148.3	1168.6	1168.4	0.930	2.178	74.873	20.061	1.735	0.066	0.137	0.010	0.010	0.000	0.000	0.000	0.000	0.000	1405.85	-17.49
5	0.6908	1147.9	1168.3	1168.1	0.930	2.176	74.843	20.173	1.664	0.063	0.131	0.009	0.010	0.000	0.000	0.000	0.000	0.000	1405.60	-18.05
6	0.6880	1143.8	1164.1	1163.9	0.942	2.140	75.472	19.547	1.675	0.066	0.137	0.010	0.011	0.000	0.000	0.000	0.000	0.000	1403.46	-19.01
7	0.6898	1147.3	1167.6	1167.4	0.948	2.088	75.425	19.375	1.905	0.075	0.159	0.012	0.013	0.000	0.000	0.000	0.000	0.000	1405.85	-16.56
8	0.6901	1146.1	1166.4	1166.2	0.947	2.188	75.359	19.334	1.913	0.075	0.159	0.012	0.014	0.000	0.000	0.000	0.000	0.000	1404.13	-16.56
9	0.6891	1145.7	1166.0	1165.8	0.940	2.133	75.560	19.197	1.911	0.075	0.159	0.012	0.013	0.000	0.000	0.000	0.000	0.000	1404.58	-16.88
10	0.6898	1146.8	1167.1	1166.9	0.954	2.113	75.436	19.315	1.923	0.075	0.158	0.012	0.013	0.000	0.000	0.000	0.000	0.000	1405.19	-16.56
11	0.6885	1144.6	1164.9	1164.7	0.952	2.126	75.630	19.180	1.858	0.074	0.155	0.012	0.013	0.000	0.000	0.000	0.000	0.000	1403.85	-17.47
12	0.6864	1140.7	1160.9	1160.7	0.948	2.174	75.810	19.163	1.676	0.067	0.140	0.011	0.012	0.000	0.000	0.000	0.000	0.000	1401.21	-19.65
13	0.6870	1142.4	1162.7	1162.5	0.958	2.110	75.791	19.159	1.746	0.069	0.144	0.011	0.012	0.000	0.000	0.000	0.000	0.000	1402.70	-18.85
14	0.6884	1144.7	1165.0	1164.8	0.938	2.132	75.617	19.218	1.838	0.075	0.157	0.012	0.013	0.000	0.000	0.000	0.000	0.000	1404.10	-17.49
15	0.6885	1145.8	1166.1	1165.9	0.944	2.059	75.739	19.078	1.904	0.079	0.168	0.014	0.016	0.000	0.000	0.000	0.000	0.000	1405.39	-16.71
16	0.6909	1148.9	1169.3	1169.1	0.926	2.129	75.119	19.680	1.911	0.070	0.144	0.010	0.011	0.000	0.000	0.000	0.000	0.000	1406.70	-16.57
17	0.6892	1145.6	1165.9	1165.7	0.964	2.116	75.418	19.454	1.804	0.072	0.148	0.012	0.013	0.000	0.000	0.000	0.000	0.000	1404.34	-17.53
18	0.6883	1144.1	1164.3	1164.1	0.966	2.115	75.506	19.461	1.721	0.068	0.140	0.011	0.012	0.000	0.000	0.000	0.000	0.000	1403.46	-18.58
19	0.6877	1143.2	1163.5	1163.3	0.969	2.121	75.508	19.530	1.647	0.065	0.137	0.010	0.011	0.000	0.000	0.000	0.000	0.000	1403.02	-19.19
20	0.6757	1121.8	1141.6	1141.4	0.842	2.478	77.632	17.349	1.487	0.061	0.131	0.010	0.011	0.000	0.000	0.000	0.000	0.000	1388.65	-26.25
21	0.6865	1141.5	1161.7	1161.5	0.969	2.104	75.628	19.562	1.530	0.061	0.127	0.009	0.010	0.000	0.000	0.000	0.000	0.000	1402.12	-20.54
22	0.7220	1159.5	1180.0	1179.8	0.926	4.392	70.821	19.595	3.775	0.144	0.307	0.018	0.020	0.000	0.000	0.000	0.000	0.000	1389.35	0.37
23	0.6980	1147.5	1167.8	1167.6	0.961	2.839	74.013	19.649	2.239	0.088	0.185	0.012	0.014	0.000	0.000	0.000	0.000	0.000	1398.11	-13.45
24	0.6918	1141.6	1161.8	1161.6	0.977	2.590	74.926	19.345	1.910	0.074	0.155	0.011	0.012	0.000	0.000	0.000	0.000	0.000	1396.98	-17.34
25	0.6862	1139.6	1159.8	1159.6	0.979	2.171	75.667	19.476	1.502	0.060	0.125	0.009	0.011	0.000	0.000	0.000	0.000	0.000	1400.15	-20.99
26	0.6855	1139.5	1159.7	1159.5	0.976	2.129	75.682	19.584	1.432	0.058	0.120	0.009	0.010	0.000	0.000	0.000	0.000	0.000	1400.75	-21.52
27	0.6864	1141.5	1161.7	1161.5	0.965	2.105	75.476	19.864	1.400	0.056	0.116	0.009	0.009	0.000	0.000	0.000	0.000	0.000	1402.13	-21.41
28	0.6877	1143.2	1163.5	1163.3	0.963	2.119	75.459	19.646	1.597	0.064	0.132	0.010	0.011	0.000	0.000	0.000	0.000	0.000	1403.00	-19.63
29	0.6883	1144.2	1164.5	1164.3	0.973	2.102	75.330	19.788	1.598	0.061	0.128	0.009	0.010	0.000	0.000	0.000	0.000	0.000	1403.59	-19.45
Avg	0.6899	1145.0	1165.1	1164.9	0.947	2.256	75.273	19.438	1.839	0.072	0.151	0.011	0.012	0.000	0.000	0.000	0.000	0.000	1402.72	-17.57

# Source Daily Summary

February 2024

Source #: 601  
Name: TIOGA STN-ROBINSON LAKE PLNT

<b>Pressure Base:</b>	14.730		<b>Contract Day:</b>	1
<b>Temperature Base:</b>	60		<b>Contract Hour:</b>	9

Day	Relative Density	Heating Value Wet	Heating Value Dry	Heating Value As Del	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.7486	1167.6	1188.2	1188.0	0.894	6.441	67.100	19.411	5.494	0.198	0.418	0.021	0.023	0.000	0.000	0.000	0.000	0.000	1373.38	
2	0.7092	1155.1	1175.5	1175.3	0.939	3.451	72.315	20.129	2.829	0.099	0.210	0.013	0.014	0.000	0.000	0.000	0.000	0.000	1396.22	
3	0.7230	1160.9	1181.4	1181.3	0.930	4.397	70.272	20.416	3.555	0.125	0.271	0.017	0.018	0.000	0.000	0.000	0.000	0.000	1389.80	
4	0.7526	1175.1	1195.9	1195.7	0.895	6.359	66.544	19.818	5.711	0.197	0.427	0.024	0.025	0.000	0.000	0.000	0.000	0.000	1378.51	
5	0.7536	1175.8	1196.7	1196.5	0.896	6.406	66.398	19.853	5.767	0.202	0.429	0.024	0.026	0.000	0.000	0.000	0.000	0.000	1378.48	
6	0.7462	1166.6	1187.2	1187.1	0.884	6.292	67.414	19.430	5.344	0.188	0.401	0.022	0.024	0.000	0.000	0.000	0.000	0.000	1374.37	
7	0.7491	1171.2	1191.9	1191.8	0.897	6.265	67.116	19.515	5.516	0.198	0.439	0.025	0.027	0.000	0.000	0.000	0.000	0.000	1377.18	
8	0.7476	1167.7	1188.4	1188.2	0.887	6.353	67.230	19.449	5.431	0.190	0.409	0.024	0.026	0.000	0.000	0.000	0.000	0.000	1374.42	
9	0.7475	1167.9	1188.6	1188.4	0.879	6.348	67.301	19.334	5.480	0.194	0.415	0.023	0.025	0.000	0.000	0.000	0.000	0.000	1374.72	
10	0.7533	1173.2	1194.0	1193.8	0.892	6.542	66.426	19.698	5.774	0.199	0.421	0.023	0.025	0.000	0.000	0.000	0.000	0.000	1375.67	
11	0.7539	1173.6	1194.4	1194.2	0.892	6.572	66.423	19.565	5.857	0.204	0.438	0.024	0.025	0.000	0.000	0.000	0.000	0.000	1375.63	
12	0.7444	1163.7	1184.3	1184.2	0.867	6.322	67.743	19.102	5.330	0.189	0.401	0.022	0.024	0.000	0.000	0.000	0.000	0.000	1372.74	
13	0.7555	1176.3	1197.1	1196.9	0.893	6.566	66.158	19.772	5.916	0.208	0.438	0.024	0.025	0.000	0.000	0.000	0.000	0.000	1377.20	
14	0.7477	1167.8	1188.5	1188.3	0.888	6.358	67.194	19.487	5.424	0.194	0.408	0.022	0.024	0.000	0.000	0.000	0.000	0.000	1374.45	
15	0.7525	1172.4	1193.2	1193.0	0.894	6.503	66.659	19.506	5.726	0.210	0.451	0.024	0.026	0.000	0.000	0.000	0.000	0.000	1375.50	
16	0.7369	1157.1	1177.5	1177.4	0.864	6.035	68.820	18.771	4.899	0.180	0.384	0.022	0.023	0.000	0.000	0.000	0.000	0.000	1371.83	
17	0.7522	1172.3	1193.0	1192.8	0.894	6.493	66.689	19.487	5.739	0.208	0.439	0.025	0.027	0.000	0.000	0.000	0.000	0.000	1375.58	
18	0.7548	1176.1	1196.9	1196.7	0.892	6.498	66.400	19.581	5.911	0.212	0.452	0.026	0.028	0.000	0.000	0.000	0.000	0.000	1377.68	
19	0.7525	1171.8	1192.5	1192.4	0.894	6.553	66.773	19.239	5.792	0.215	0.478	0.027	0.029	0.000	0.000	0.000	0.000	0.000	1374.70	
20	0.7317	1148.6	1168.9	1168.7	0.805	6.153	69.932	17.512	4.955	0.186	0.408	0.023	0.025	0.000	0.000	0.000	0.000	0.000	1366.52	
21	0.7535	1174.7	1195.5	1195.3	0.895	6.465	66.606	19.474	5.815	0.216	0.474	0.027	0.029	0.000	0.000	0.000	0.000	0.000	1377.23	
22	0.7560	1177.8	1198.6	1198.4	0.895	6.512	66.250	19.624	5.974	0.219	0.468	0.027	0.030	0.000	0.000	0.000	0.000	0.000	1378.55	
23	0.7555	1177.2	1198.1	1197.9	0.893	6.501	66.426	19.448	5.933	0.230	0.505	0.030	0.033	0.000	0.000	0.000	0.000	0.000	1378.36	
24	0.7545	1175.5	1196.3	1196.1	0.894	6.515	66.452	19.504	5.899	0.215	0.464	0.027	0.029	0.000	0.000	0.000	0.000	0.000	1377.20	
25	0.7559	1177.3	1198.2	1198.0	0.892	6.536	66.308	19.508	5.999	0.220	0.478	0.028	0.031	0.000	0.000	0.000	0.000	0.000	1378.10	
26	0.7597	1185.7	1206.7	1206.5	0.893	6.379	65.921	19.781	6.198	0.236	0.522	0.033	0.038	0.000	0.000	0.000	0.000	0.000	1384.42	
27	0.7588	1183.7	1204.6	1204.5	0.897	6.408	66.070	19.638	6.158	0.235	0.524	0.033	0.037	0.000	0.000	0.000	0.000	0.000	1382.92	
28	0.7538	1174.8	1195.6	1195.4	0.894	6.491	66.501	19.560	5.842	0.207	0.449	0.026	0.029	0.000	0.000	0.000	0.000	0.000	1377.06	
29	0.7522	1172.3	1193.1	1192.9	0.896	6.492	66.651	19.509	5.794	0.192	0.416	0.024	0.026	0.000	0.000	0.000	0.000	0.000	1375.59	
Avg	0.7487	1171.0	1191.8	1191.6	0.891	6.249	67.176	19.487	5.519	0.199	0.429	0.024	0.027	0.000	0.000	0.000	0.000	0.000	1377.38	

# Source Daily Summary

February 2024

Source #: 091  
Name: MNT BRD-PLRMO BRD-BIS STN

<b>Pressure Base:</b>	14.730	<b>Contract Day:</b>	1
<b>Temperature Base:</b>	60	<b>Contract Hour:</b>	9

Day	Relative Density	Heating Value Wet	Heating Value Dry	Heating Value As Del	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.7529	1172.2	1193.0	1192.7	0.908	6.541	66.506	19.606	5.770	0.206	0.419	0.021	0.022	0.000	0.000	0.000	0.000	0.000	1374.89	
2	0.7546	1174.6	1195.4	1195.2	0.903	6.558	66.306	19.672	5.867	0.209	0.437	0.023	0.025	0.000	0.000	0.000	0.000	0.000	1376.18	
3	0.7542	1174.8	1195.6	1195.4	0.904	6.510	66.340	19.740	5.814	0.205	0.437	0.024	0.026	0.000	0.000	0.000	0.000	0.000	1376.74	
4	0.7556	1176.4	1197.3	1197.0	0.905	6.538	66.175	19.768	5.913	0.209	0.441	0.024	0.026	0.000	0.000	0.000	0.000	0.000	1377.40	
5	0.7532	1173.2	1194.0	1193.8	0.903	6.517	66.466	19.666	5.767	0.205	0.427	0.023	0.025	0.000	0.000	0.000	0.000	0.000	1375.77	
6	0.7536	1171.9	1192.6	1192.4	0.899	6.642	66.519	19.377	5.847	0.211	0.454	0.025	0.026	0.000	0.000	0.000	0.000	0.000	1373.82	
7	0.7579	1179.4	1200.3	1200.0	0.902	6.587	65.916	19.775	6.092	0.215	0.458	0.026	0.029	0.000	0.000	0.000	0.000	0.000	1378.64	
8	0.7560	1176.5	1197.3	1197.1	0.905	6.574	66.144	19.720	5.943	0.213	0.447	0.026	0.028	0.000	0.000	0.000	0.000	0.000	1377.06	
9	0.7550	1173.7	1194.5	1194.3	0.904	6.649	66.238	19.619	5.900	0.207	0.433	0.024	0.025	0.000	0.000	0.000	0.000	0.000	1374.76	
10	0.7547	1173.2	1194.0	1193.8	0.902	6.655	66.325	19.516	5.900	0.211	0.442	0.024	0.025	0.000	0.000	0.000	0.000	0.000	1374.44	
11	0.7568	1177.1	1197.9	1197.7	0.901	6.620	66.033	19.724	6.002	0.218	0.451	0.024	0.026	0.000	0.000	0.000	0.000	0.000	1377.01	
12	0.7564	1175.5	1196.3	1196.0	0.902	6.684	66.052	19.670	5.986	0.214	0.443	0.024	0.025	0.000	0.000	0.000	0.000	0.000	1375.44	
13	0.7544	1172.4	1193.1	1192.9	0.904	6.682	66.334	19.520	5.852	0.214	0.443	0.024	0.026	0.000	0.000	0.000	0.000	0.000	1373.65	
14	0.7542	1172.5	1193.3	1193.0	0.904	6.648	66.451	19.404	5.861	0.218	0.463	0.025	0.026	0.000	0.000	0.000	0.000	0.000	1374.06	
15	0.7533	1171.5	1192.2	1192.0	0.908	6.627	66.533	19.415	5.806	0.213	0.448	0.024	0.026	0.000	0.000	0.000	0.000	0.000	1373.60	
16	0.7554	1174.8	1195.6	1195.4	0.905	6.626	66.331	19.442	5.942	0.223	0.475	0.027	0.029	0.000	0.000	0.000	0.000	0.000	1375.58	
17	0.7566	1177.2	1198.1	1197.9	0.901	6.594	66.149	19.574	6.052	0.216	0.459	0.026	0.028	0.000	0.000	0.000	0.000	0.000	1377.35	
18	0.7532	1170.5	1191.2	1191.0	0.901	6.687	66.691	19.106	5.859	0.218	0.482	0.027	0.029	0.000	0.000	0.000	0.000	0.000	1372.54	
19	0.7535	1171.2	1192.0	1191.8	0.908	6.658	66.641	19.177	5.859	0.221	0.480	0.027	0.029	0.000	0.000	0.000	0.000	0.000	1373.17	
20	0.7551	1174.2	1195.0	1194.8	0.906	6.629	66.417	19.343	5.939	0.224	0.486	0.027	0.029	0.000	0.000	0.000	0.000	0.000	1375.20	
21	0.7579	1178.9	1199.8	1199.5	0.911	6.601	65.978	19.676	6.072	0.226	0.479	0.027	0.030	0.000	0.000	0.000	0.000	0.000	1378.10	
22	0.7556	1174.4	1195.2	1194.9	0.904	6.667	66.379	19.312	5.944	0.232	0.501	0.029	0.031	0.000	0.000	0.000	0.000	0.000	1374.94	
23	0.7551	1173.6	1194.4	1194.1	0.906	6.667	66.388	19.355	5.927	0.221	0.478	0.028	0.030	0.000	0.000	0.000	0.000	0.000	1374.47	
24	0.7576	1178.7	1199.5	1199.3	0.904	6.596	66.129	19.478	6.098	0.231	0.503	0.029	0.031	0.000	0.000	0.000	0.000	0.000	1378.11	
25	0.7599	1183.0	1204.0	1203.7	0.905	6.543	65.815	19.719	6.208	0.236	0.511	0.030	0.032	0.000	0.000	0.000	0.000	0.000	1381.11	
26	0.7602	1183.5	1204.4	1204.1	0.906	6.536	65.933	19.522	6.233	0.247	0.550	0.035	0.038	0.000	0.000	0.000	0.000	0.000	1381.41	
27	0.7538	1171.9	1192.6	1192.4	0.908	6.649	66.472	19.391	5.892	0.203	0.432	0.025	0.028	0.000	0.000	0.000	0.000	0.000	1373.63	
28	0.7549	1174.7	1195.5	1195.2	0.907	6.585	66.352	19.488	5.969	0.205	0.442	0.025	0.027	0.000	0.000	0.000	0.000	0.000	1375.87	
29	0.7600	1184.1	1205.0	1204.8	0.904	6.490	65.822	19.733	6.255	0.230	0.503	0.030	0.032	0.000	0.000	0.000	0.000	0.000	1382.24	
<b>Avg</b>	<b>0.7556</b>	<b>1175.0</b>	<b>1196.2</b>	<b>1195.9</b>	<b>0.905</b>	<b>6.606</b>	<b>66.270</b>	<b>19.535</b>	<b>5.951</b>	<b>0.217</b>	<b>0.463</b>	<b>0.026</b>	<b>0.028</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>1376.11</b>	

# Gas Composition and Properties

Effective October 1, 2021

Attachment B  
Page 8 of 24

Source #: 2501030  
Name: LIGNITE PLANT

Component	Mole %	Liquid Content	Mass %
Carbon Dioxide, CO2	0.2283		0.5237
Nitrogen, N2	2.9631		4.3268
Methane, C1	79.4957		66.4767
Ethane, C2	15.2390	4.0765	23.8852
Propane, C3	2.0456	0.5637	4.7019
iso-Butane, iC4	0.0244	0.0080	0.0739
n-Butane, nC4	0.0039	0.0012	0.0118
iso-Pentane, iC5			
n-Pentane, nC5			
Neo-Pentane, neo			
Hexanes Plus, C6+			
Argon, Ar			
Carbon Monoxide, CO			
Hydrogen, H2			
Oxygen, O2			
Helium, He			
Water, H2O			
Hydrogen Sulfide, H2S			
<b>Totals</b>	<b>100.0000</b>	<b>4.6490</b>	<b>100.0000</b>

Property	Total Sample	C6 Plus Fraction
Pressure Base	14.730	
Temperature Base	60.00	
HCDP @ Sample Pressure		
Cricondentherm	-32.804	
HV, Dry @ Base P, T	1130.73	
HV, Sat @ Base P, T	1111.05	
HV, Sat @ Sample P, T	1130.73	
Relative Density	0.6640	
C6+: 100		

**Sample**

Date: 10/01/2021                      Type:

Tech: Wayne Sampson

Pressure:                                      Temp.:

Gauge:    H2O:

Atm. Pressure:                                      H2S:

Remarks:

**Analysis**

Date:    Instrument:

Tech:    Cylinder:

Remarks:



# Source Daily Summary

February 2024

Source #: 603  
Name: TIOGA STN-COUNTY LINE PLANT

<b>Pressure Base:</b>	14.730	<b>Contract Day:</b>	1
<b>Temperature Base:</b>	60	<b>Contract Hour:</b>	9

Day	Relative Density	Heating Value Wet	Heating Value Dry	Heating Value As Del	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.7111	1152.7	1173.1	1172.9	0.989	3.703	71.696	20.797	2.403	0.110	0.260	0.020	0.023	0.000	0.000	0.000	0.000	0.000	0.000	1391.09
2	0.7162	1154.9	1175.3	1175.1	0.993	4.040	70.754	21.258	2.540	0.111	0.263	0.020	0.023	0.000	0.000	0.000	0.000	0.000	0.000	1388.82
3	0.7163	1147.8	1168.1	1167.9	0.987	4.493	70.518	21.177	2.414	0.109	0.259	0.019	0.023	0.000	0.000	0.000	0.000	0.000	0.000	1380.18
4	0.7139	1144.5	1164.7	1164.5	0.981	4.475	71.010	20.725	2.383	0.112	0.268	0.020	0.024	0.000	0.000	0.000	0.000	0.000	0.000	1378.51
5	0.7171	1150.2	1170.6	1170.4	0.978	4.435	70.425	21.272	2.466	0.112	0.268	0.020	0.024	0.000	0.000	0.000	0.000	0.000	0.000	1382.32
6	0.7171	1151.3	1171.7	1171.4	0.985	4.359	70.479	21.269	2.476	0.114	0.274	0.020	0.024	0.000	0.000	0.000	0.000	0.000	0.000	1383.58
7	0.7187	1146.6	1166.9	1166.7	0.985	4.797	69.975	21.425	2.397	0.110	0.266	0.020	0.024	0.000	0.000	0.000	0.000	0.000	0.000	1376.43
8	0.7167	1142.0	1162.2	1162.0	0.987	4.880	70.336	21.032	2.347	0.109	0.265	0.020	0.024	0.000	0.000	0.000	0.000	0.000	0.000	1372.86
9	0.7168	1151.3	1171.7	1171.5	0.992	4.322	70.325	21.634	2.330	0.105	0.249	0.019	0.023	0.000	0.000	0.000	0.000	0.000	0.000	1383.88
10	0.7142	1146.2	1166.5	1166.2	0.978	4.407	70.814	21.107	2.295	0.106	0.251	0.019	0.023	0.000	0.000	0.000	0.000	0.000	0.000	1380.27
11	0.7145	1146.9	1167.2	1167.0	0.978	4.387	70.787	21.122	2.327	0.106	0.252	0.019	0.022	0.000	0.000	0.000	0.000	0.000	0.000	1380.86
12	0.7167	1153.2	1173.6	1173.4	0.986	4.203	70.466	21.534	2.394	0.110	0.264	0.019	0.023	0.000	0.000	0.000	0.000	0.000	0.000	1386.29
13	0.7171	1162.3	1182.9	1182.7	0.987	3.676	70.707	21.623	2.573	0.115	0.276	0.020	0.024	0.000	0.000	0.000	0.000	0.000	0.000	1396.85
14	0.7205	1166.5	1187.2	1186.9	0.985	3.746	70.262	21.752	2.794	0.122	0.292	0.022	0.026	0.000	0.000	0.000	0.000	0.000	0.000	1398.59
15	0.7172	1160.5	1181.1	1180.9	0.981	3.809	70.821	21.231	2.692	0.124	0.295	0.022	0.026	0.000	0.000	0.000	0.000	0.000	0.000	1394.61
16	0.7199	1157.2	1177.7	1177.5	0.988	4.259	70.071	21.634	2.603	0.119	0.280	0.021	0.025	0.000	0.000	0.000	0.000	0.000	0.000	1387.96
17	0.7177	1160.3	1180.9	1180.7	0.980	3.863	70.648	21.409	2.650	0.121	0.282	0.021	0.025	0.000	0.000	0.000	0.000	0.000	0.000	1393.95
18	0.7133	1153.6	1174.0	1173.8	0.990	3.846	71.282	21.040	2.418	0.112	0.265	0.021	0.025	0.000	0.000	0.000	0.000	0.000	0.000	1390.05
19	0.7156	1159.9	1180.5	1180.3	0.980	3.697	70.978	21.335	2.579	0.115	0.272	0.020	0.024	0.000	0.000	0.000	0.000	0.000	0.000	1395.44
20	0.7097	1152.4	1172.8	1172.6	0.924	3.681	72.078	20.372	2.517	0.115	0.271	0.020	0.023	0.000	0.000	0.000	0.000	0.000	0.000	1392.15
21	0.7183	1163.5	1184.1	1183.9	0.969	3.743	70.701	21.327	2.796	0.124	0.293	0.021	0.025	0.000	0.000	0.000	0.000	0.000	0.000	1397.17
22	0.7172	1163.2	1183.8	1183.6	0.951	3.690	70.923	21.162	2.817	0.122	0.287	0.022	0.026	0.000	0.000	0.000	0.000	0.000	0.000	1397.82
23	0.7204	1170.8	1191.6	1191.4	0.957	3.512	70.558	21.455	3.052	0.126	0.293	0.022	0.026	0.000	0.000	0.000	0.000	0.000	0.000	1403.89
24	0.7231	1173.9	1194.7	1194.5	0.959	3.571	70.118	21.729	3.150	0.127	0.298	0.022	0.026	0.000	0.000	0.000	0.000	0.000	0.000	1405.00
25	0.7203	1168.3	1189.0	1188.8	0.955	3.661	70.589	21.262	3.058	0.128	0.300	0.022	0.027	0.000	0.000	0.000	0.000	0.000	0.000	1400.91
26	0.7196	1168.9	1189.6	1189.4	0.950	3.569	70.757	21.160	3.085	0.129	0.301	0.022	0.027	0.000	0.000	0.000	0.000	0.000	0.000	1402.31
27	0.7198	1168.6	1189.3	1189.1	0.964	3.577	70.675	21.281	3.031	0.127	0.298	0.022	0.026	0.000	0.000	0.000	0.000	0.000	0.000	1401.85
28	0.7231	1174.1	1194.9	1194.7	0.963	3.557	70.108	21.756	3.138	0.128	0.302	0.022	0.025	0.000	0.000	0.000	0.000	0.000	0.000	1405.20
29	0.7252	1175.2	1196.0	1195.8	0.955	3.699	69.829	21.750	3.276	0.132	0.311	0.023	0.026	0.000	0.000	0.000	0.000	0.000	0.000	1404.44
Avg	0.7175	1158.0	1178.7	1178.5	0.974	3.988	70.644	21.298	2.655	0.117	0.278	0.021	0.025	0.000	0.000	0.000	0.000	0.000	0.000	1391.49

# Source Daily Summary

February 2024

Source #: 043  
Name: BISMARCK STN-CLEVELAND STN

<b>Pressure Base:</b>	14.730	<b>Contract Day:</b>	1
<b>Temperature Base:</b>	60	<b>Contract Hour:</b>	9

Day	Relative Density	Heating Value Wet	Heating Value Dry	Heating Value As Del	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.7503	1172.7	1193.4	1192.7	0.856	6.351	67.013	19.353	5.738	0.207	0.438	0.021	0.022	0.000	0.000	0.000	0.000	0.000	1377.78	
2	0.7355	1160.6	1181.1	1180.4	0.819	5.762	69.068	18.841	4.923	0.175	0.374	0.019	0.020	0.000	0.000	0.000	0.000	0.000	1377.17	
3	0.7418	1167.3	1188.0	1187.2	0.834	5.919	68.141	19.269	5.219	0.180	0.396	0.021	0.022	0.000	0.000	0.000	0.000	0.000	1379.28	
4	0.7435	1169.3	1190.0	1189.3	0.832	5.958	67.919	19.332	5.328	0.185	0.402	0.021	0.022	0.000	0.000	0.000	0.000	0.000	1380.06	
5	0.7382	1164.1	1184.7	1184.0	0.815	5.805	68.550	19.269	4.980	0.173	0.370	0.019	0.020	0.000	0.000	0.000	0.000	0.000	1378.88	
6	0.7349	1160.1	1180.7	1180.0	0.804	5.751	69.034	19.041	4.794	0.169	0.367	0.019	0.019	0.000	0.000	0.000	0.000	0.000	1377.27	
7	0.7330	1159.4	1179.9	1179.2	0.815	5.602	69.411	18.852	4.744	0.168	0.367	0.020	0.021	0.000	0.000	0.000	0.000	0.000	1378.17	
8	0.7293	1157.3	1177.7	1177.1	0.758	5.471	69.924	18.687	4.629	0.156	0.338	0.018	0.019	0.000	0.000	0.000	0.000	0.000	1379.11	
9	0.7249	1153.2	1173.6	1172.9	0.739	5.341	70.499	18.546	4.370	0.150	0.321	0.017	0.018	0.000	0.000	0.000	0.000	0.000	1378.38	
10	0.7245	1150.9	1171.2	1170.6	0.767	5.395	70.531	18.505	4.304	0.148	0.317	0.016	0.017	0.000	0.000	0.000	0.000	0.000	1376.06	
11	0.7270	1153.8	1174.3	1173.6	0.776	5.439	70.234	18.554	4.479	0.156	0.329	0.017	0.018	0.000	0.000	0.000	0.000	0.000	1377.21	
12	0.7260	1151.5	1171.9	1171.2	0.766	5.505	70.413	18.317	4.481	0.156	0.328	0.017	0.017	0.000	0.000	0.000	0.000	0.000	1375.32	
13	0.7281	1154.0	1174.5	1173.8	0.752	5.564	70.085	18.501	4.563	0.160	0.338	0.018	0.018	0.000	0.000	0.000	0.000	0.000	1376.40	
14	0.7243	1151.0	1171.4	1170.8	0.721	5.437	70.626	18.339	4.348	0.157	0.337	0.017	0.018	0.000	0.000	0.000	0.000	0.000	1376.43	
15	0.7229	1149.8	1170.2	1169.5	0.706	5.400	70.813	18.277	4.293	0.151	0.326	0.017	0.017	0.000	0.000	0.000	0.000	0.000	1376.33	
16	0.7236	1150.5	1170.9	1170.3	0.767	5.337	70.771	18.293	4.314	0.152	0.330	0.018	0.019	0.000	0.000	0.000	0.000	0.000	1376.47	
17	0.7301	1156.7	1177.2	1176.5	0.800	5.513	69.875	18.603	4.655	0.163	0.352	0.019	0.020	0.000	0.000	0.000	0.000	0.000	1377.74	
18	0.7337	1158.7	1179.2	1178.5	0.797	5.739	69.444	18.513	4.900	0.174	0.389	0.021	0.021	0.000	0.000	0.000	0.000	0.000	1376.64	
19	0.7385	1162.3	1182.9	1182.2	0.805	5.949	68.808	18.631	5.144	0.191	0.425	0.023	0.024	0.000	0.000	0.000	0.000	0.000	1376.53	
20	0.7442	1167.5	1188.2	1187.5	0.822	6.138	68.036	18.844	5.453	0.203	0.454	0.024	0.025	0.000	0.000	0.000	0.000	0.000	1377.41	
21	0.7555	1179.6	1200.5	1199.7	0.860	6.401	66.482	19.420	6.060	0.225	0.496	0.027	0.029	0.000	0.000	0.000	0.000	0.000	1381.23	
22	0.7548	1178.5	1199.4	1198.6	0.856	6.419	66.577	19.345	6.023	0.226	0.498	0.028	0.029	0.000	0.000	0.000	0.000	0.000	1380.46	
23	0.7512	1174.1	1194.9	1194.1	0.839	6.366	67.136	19.042	5.832	0.225	0.503	0.028	0.029	0.000	0.000	0.000	0.000	0.000	1378.71	
24	0.7547	1179.2	1200.1	1199.3	0.851	6.374	66.656	19.272	6.053	0.227	0.508	0.028	0.030	0.000	0.000	0.000	0.000	0.000	1381.36	
25	0.7559	1180.0	1200.9	1200.1	0.857	6.420	66.469	19.365	6.097	0.227	0.504	0.029	0.031	0.000	0.000	0.000	0.000	0.000	1381.30	
26	0.7456	1176.4	1197.2	1196.5	0.759	5.824	67.928	19.213	5.516	0.213	0.486	0.029	0.031	0.000	0.000	0.000	0.000	0.000	1386.60	
27	0.7278	1159.5	1180.0	1179.4	0.757	5.195	70.072	19.048	4.378	0.159	0.350	0.020	0.021	0.000	0.000	0.000	0.000	0.000	1383.22	
28	0.7228	1150.4	1170.7	1170.1	0.769	5.268	70.683	18.647	4.170	0.136	0.294	0.016	0.016	0.000	0.000	0.000	0.000	0.000	1377.04	
29	0.7376	1167.6	1188.3	1187.6	0.768	5.601	68.834	19.120	5.059	0.177	0.394	0.023	0.024	0.000	0.000	0.000	0.000	0.000	1383.64	
Avg	0.7366	1163.0	1183.2	1182.5	0.795	5.767	68.967	18.863	4.995	0.179	0.391	0.021	0.022	0.000	0.000	0.000	0.000	0.000	1378.70	

# Source Daily Summary

February 2024

Source #: 063  
Name: CLEVELAND STN-MAPLETON

<b>Pressure Base:</b>	14.730		<b>Contract Day:</b>	1
<b>Temperature Base:</b>	60		<b>Contract Hour:</b>	9

Day	Relative Density	Heating Value Wet	Heating Value Dry	Heating Value As Del	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.7504	1169.0	1189.7	1189.5	0.897	6.519	66.965	19.266	5.669	0.209	0.431	0.022	0.022	0.000	0.000	0.000	0.000	0.000	1373.40	
2	0.7515	1171.2	1191.9	1191.0	0.897	6.490	66.760	19.472	5.710	0.207	0.422	0.021	0.022	0.000	0.000	0.000	0.000	0.000	1374.97	
3	0.7384	1161.7	1182.3	1181.3	0.858	5.904	68.602	19.042	5.004	0.181	0.369	0.020	0.020	0.000	0.000	0.000	0.000	0.000	1375.83	
4	0.7424	1165.9	1186.5	1185.5	0.869	6.002	67.996	19.349	5.181	0.180	0.380	0.021	0.022	0.000	0.000	0.000	0.000	0.000	1377.12	
5	0.7448	1168.7	1189.4	1188.4	0.869	6.057	67.679	19.447	5.326	0.187	0.391	0.022	0.022	0.000	0.000	0.000	0.000	0.000	1378.20	
6	0.7400	1164.2	1184.8	1183.9	0.853	5.913	68.238	19.415	5.005	0.176	0.360	0.020	0.020	0.000	0.000	0.000	0.000	0.000	1377.26	
7	0.7364	1160.0	1180.5	1179.6	0.840	5.847	68.737	19.217	4.799	0.170	0.351	0.019	0.020	0.000	0.000	0.000	0.000	0.000	1375.67	
8	0.7342	1158.9	1179.4	1178.6	0.847	5.696	69.169	18.998	4.719	0.170	0.358	0.021	0.021	0.000	0.000	0.000	0.000	0.000	1376.43	
9	0.7316	1157.5	1178.0	1177.1	0.805	5.597	69.542	18.857	4.674	0.158	0.328	0.019	0.019	0.000	0.000	0.000	0.000	0.000	1377.27	
10	0.7257	1152.2	1172.6	1171.7	0.769	5.429	70.362	18.576	4.367	0.152	0.311	0.017	0.018	0.000	0.000	0.000	0.000	0.000	1376.46	
11	0.7252	1149.8	1170.2	1169.3	0.797	5.485	70.391	18.537	4.304	0.149	0.305	0.017	0.017	0.000	0.000	0.000	0.000	0.000	1374.11	
12	0.7274	1152.7	1173.1	1172.2	0.811	5.494	70.108	18.658	4.423	0.155	0.315	0.017	0.018	0.000	0.000	0.000	0.000	0.000	1375.46	
13	0.7275	1151.6	1172.0	1171.1	0.800	5.587	70.136	18.489	4.476	0.158	0.319	0.017	0.018	0.000	0.000	0.000	0.000	0.000	1374.05	
14	0.7293	1153.6	1174.1	1173.3	0.787	5.645	69.864	18.623	4.556	0.162	0.327	0.018	0.019	0.000	0.000	0.000	0.000	0.000	1374.83	
15	0.7249	1150.0	1170.4	1169.6	0.753	5.507	70.478	18.438	4.311	0.156	0.321	0.018	0.018	0.000	0.000	0.000	0.000	0.000	1374.64	
16	0.7243	1149.4	1169.8	1168.9	0.741	5.505	70.559	18.381	4.309	0.154	0.318	0.017	0.017	0.000	0.000	0.000	0.000	0.000	1374.53	
17	0.7241	1149.3	1169.7	1168.8	0.796	5.411	70.637	18.379	4.274	0.152	0.314	0.018	0.019	0.000	0.000	0.000	0.000	0.000	1374.57	
18	0.7300	1155.1	1175.5	1174.7	0.831	5.563	69.813	18.691	4.558	0.164	0.341	0.020	0.020	0.000	0.000	0.000	0.000	0.000	1375.83	
19	0.7351	1159.0	1179.6	1178.8	0.831	5.792	69.173	18.726	4.888	0.174	0.373	0.021	0.022	0.000	0.000	0.000	0.000	0.000	1375.81	
20	0.7378	1160.2	1180.7	1179.9	0.836	5.974	68.815	18.720	5.016	0.189	0.405	0.023	0.023	0.000	0.000	0.000	0.000	0.000	1374.60	
21	0.7440	1165.4	1186.1	1185.2	0.853	6.203	67.980	18.916	5.363	0.202	0.434	0.024	0.025	0.000	0.000	0.000	0.000	0.000	1375.09	
22	0.7547	1176.8	1197.6	1196.7	0.894	6.451	66.503	19.472	5.931	0.222	0.473	0.027	0.028	0.000	0.000	0.000	0.000	0.000	1378.62	
23	0.7562	1178.2	1199.1	1198.1	0.893	6.507	66.302	19.517	6.020	0.226	0.477	0.028	0.029	0.000	0.000	0.000	0.000	0.000	1378.90	
24	0.7536	1175.2	1196.0	1194.9	0.879	6.471	66.730	19.260	5.877	0.229	0.494	0.029	0.031	0.000	0.000	0.000	0.000	0.000	1377.68	
25	0.7548	1176.6	1197.4	1196.4	0.887	6.482	66.520	19.393	5.961	0.223	0.477	0.028	0.029	0.000	0.000	0.000	0.000	0.000	1378.27	
26	0.7570	1179.1	1200.0	1199.1	0.897	6.525	66.219	19.508	6.076	0.228	0.487	0.029	0.031	0.000	0.000	0.000	0.000	0.000	1379.16	
27	0.7490	1177.1	1197.9	1197.2	0.810	6.028	67.385	19.391	5.629	0.215	0.473	0.032	0.035	0.000	0.000	0.000	0.000	0.000	1384.21	
28	0.7291	1159.1	1179.6	1178.8	0.783	5.301	69.880	19.066	4.421	0.161	0.344	0.021	0.022	0.000	0.000	0.000	0.000	0.000	1381.51	
29	0.7228	1148.3	1168.6	1167.6	0.800	5.349	70.654	18.619	4.132	0.134	0.280	0.016	0.016	0.000	0.000	0.000	0.000	0.000	1374.55	
Avg	0.7380	1162.0	1182.5	1181.6	0.834	5.887	68.696	18.980	4.999	0.181	0.378	0.021	0.022	0.000	0.000	0.000	0.000	0.000	1376.52	

# Source Daily Summary

February 2024

Source #: 061  
Name: CLEVELAND STN-GRAFTON BDR

<b>Pressure Base:</b>	14.730	<b>Contract Day:</b>	1
<b>Temperature Base:</b>	60	<b>Contract Hour:</b>	9

Day	Relative Density	Heating Value Wet	Heating Value Dry	Heating Value As Del	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.7504	1169.0	1189.7	1189.6	0.898	6.519	66.961	19.267	5.671	0.209	0.430	0.022	0.023	0.000	0.000	0.000	0.000	0.000	1373.37	
2	0.7515	1171.2	1191.9	1191.6	0.898	6.496	66.752	19.467	5.713	0.208	0.423	0.022	0.022	0.000	0.000	0.000	0.000	0.000	1374.89	
3	0.7386	1161.8	1182.4	1181.9	0.859	5.908	68.589	19.040	5.012	0.182	0.370	0.020	0.021	0.000	0.000	0.000	0.000	0.000	1375.85	
4	0.7426	1166.1	1186.7	1186.3	0.871	6.006	67.973	19.354	5.191	0.181	0.381	0.021	0.022	0.000	0.000	0.000	0.000	0.000	1377.16	
5	0.7445	1168.2	1188.9	1188.5	0.870	6.062	67.718	19.419	5.311	0.186	0.390	0.022	0.022	0.000	0.000	0.000	0.000	0.000	1377.85	
6	0.7401	1164.1	1184.7	1184.2	0.854	5.921	68.231	19.407	5.009	0.176	0.361	0.020	0.021	0.000	0.000	0.000	0.000	0.000	1377.13	
7	0.7364	1160.0	1180.5	1180.0	0.841	5.844	68.731	19.228	4.797	0.170	0.351	0.019	0.020	0.000	0.000	0.000	0.000	0.000	1375.72	
8	0.7346	1159.2	1179.7	1179.2	0.849	5.713	69.113	19.015	4.735	0.171	0.361	0.021	0.022	0.000	0.000	0.000	0.000	0.000	1376.41	
9	0.7318	1157.9	1178.4	1178.0	0.805	5.594	69.525	18.858	4.688	0.159	0.331	0.019	0.020	0.000	0.000	0.000	0.000	0.000	1377.51	
10	0.7257	1152.0	1172.4	1172.1	0.770	5.436	70.361	18.570	4.364	0.152	0.311	0.018	0.018	0.000	0.000	0.000	0.000	0.000	1376.28	
11	0.7252	1149.7	1170.1	1169.7	0.796	5.491	70.395	18.526	4.305	0.149	0.305	0.017	0.017	0.000	0.000	0.000	0.000	0.000	1374.00	
12	0.7275	1152.7	1173.1	1172.7	0.812	5.502	70.097	18.658	4.426	0.155	0.315	0.017	0.018	0.000	0.000	0.000	0.000	0.000	1375.32	
13	0.7277	1151.6	1172.0	1171.6	0.802	5.599	70.113	18.489	4.482	0.159	0.321	0.017	0.018	0.000	0.000	0.000	0.000	0.000	1373.87	
14	0.7293	1153.5	1173.9	1173.5	0.788	5.654	69.865	18.608	4.559	0.162	0.327	0.018	0.019	0.000	0.000	0.000	0.000	0.000	1374.65	
15	0.7253	1150.4	1170.8	1170.4	0.755	5.519	70.422	18.450	4.337	0.157	0.324	0.018	0.018	0.000	0.000	0.000	0.000	0.000	1374.73	
16	0.7238	1149.0	1169.3	1169.1	0.738	5.490	70.633	18.350	4.286	0.153	0.316	0.017	0.017	0.000	0.000	0.000	0.000	0.000	1374.46	
17	0.7243	1149.3	1169.6	1169.3	0.800	5.425	70.623	18.356	4.291	0.152	0.315	0.018	0.019	0.000	0.000	0.000	0.000	0.000	1374.33	
18	0.7303	1155.2	1175.6	1175.2	0.833	5.580	69.769	18.702	4.572	0.164	0.340	0.020	0.021	0.000	0.000	0.000	0.000	0.000	1375.68	
19	0.7349	1158.8	1179.3	1178.8	0.830	5.793	69.200	18.702	4.882	0.175	0.374	0.022	0.022	0.000	0.000	0.000	0.000	0.000	1375.70	
20	0.7384	1160.8	1181.4	1180.7	0.838	5.990	68.732	18.747	5.047	0.190	0.408	0.023	0.024	0.000	0.000	0.000	0.000	0.000	1374.76	
21	0.7449	1166.9	1187.5	1186.8	0.855	6.201	67.864	18.971	5.413	0.205	0.440	0.025	0.026	0.000	0.000	0.000	0.000	0.000	1375.91	
22	0.7556	1178.1	1199.0	1198.3	0.895	6.451	66.406	19.501	5.984	0.225	0.482	0.028	0.029	0.000	0.000	0.000	0.000	0.000	1379.38	
23	0.7571	1179.6	1200.5	1199.8	0.895	6.506	66.199	19.558	6.069	0.230	0.486	0.029	0.030	0.000	0.000	0.000	0.000	0.000	1379.67	
24	0.7542	1176.4	1197.2	1196.4	0.880	6.455	66.667	19.286	5.915	0.233	0.503	0.030	0.031	0.000	0.000	0.000	0.000	0.000	1378.53	
25	0.7552	1177.3	1198.2	1197.4	0.889	6.476	66.469	19.418	5.985	0.224	0.481	0.028	0.029	0.000	0.000	0.000	0.000	0.000	1378.74	
26	0.7576	1180.1	1201.0	1200.4	0.899	6.515	66.148	19.544	6.110	0.230	0.493	0.030	0.031	0.000	0.000	0.000	0.000	0.000	1379.83	
27	0.7500	1179.4	1200.3	1200.1	0.806	5.987	67.279	19.449	5.707	0.221	0.486	0.031	0.033	0.000	0.000	0.000	0.000	0.000	1386.00	
28	0.7292	1159.0	1179.5	1179.3	0.782	5.317	69.874	19.045	4.429	0.162	0.347	0.021	0.022	0.000	0.000	0.000	0.000	0.000	1381.31	
29	0.7229	1148.4	1168.7	1168.5	0.802	5.349	70.649	18.614	4.137	0.134	0.282	0.016	0.016	0.000	0.000	0.000	0.000	0.000	1374.56	
Avg	0.7383	1162.0	1182.8	1182.4	0.835	5.890	68.667	18.986	5.015	0.182	0.381	0.022	0.022	0.000	0.000	0.000	0.000	0.000	1376.68	

# Source Daily Summary

February 2024

Source #: 041  
Name: BISMARCK STN-GLEN ULLIN STN

<b>Pressure Base:</b>	14.730	<b>Contract Day:</b>	1
<b>Temperature Base:</b>	60	<b>Contract Hour:</b>	9

Day	Relative Density	Heating Value Wet	Heating Value Dry	Heating Value As Del	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.6790	1113.6	1133.3	1133.0	0.581	3.695	76.315	17.808	1.459	0.045	0.088	0.005	0.005	0.000	0.000	0.000	0.000	0.000	1375.39	
2	0.6639	1092.0	1111.4	1111.0	0.663	3.467	78.869	15.983	0.940	0.026	0.047	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1363.93	
3	0.6711	1102.6	1122.2	1121.8	0.681	3.469	77.701	16.855	1.198	0.032	0.056	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1369.77	
4	0.6706	1102.3	1121.9	1121.6	0.652	3.480	77.698	16.954	1.129	0.029	0.052	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1369.98	
5	0.6739	1109.6	1129.3	1129.0	0.625	3.391	76.996	17.776	1.130	0.028	0.049	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1375.62	
6	0.6734	1108.9	1128.6	1128.3	0.617	3.400	77.090	17.680	1.130	0.028	0.050	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1375.25	
7	0.6751	1109.8	1129.4	1129.1	0.696	3.385	77.038	17.475	1.306	0.033	0.060	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1374.59	
8	0.6682	1103.4	1122.9	1122.6	0.542	3.359	78.284	16.432	1.278	0.035	0.062	0.004	0.004	0.000	0.000	0.000	0.000	0.000	1373.69	
9	0.6671	1103.1	1122.7	1122.4	0.508	3.324	78.459	16.349	1.253	0.035	0.064	0.004	0.004	0.000	0.000	0.000	0.000	0.000	1374.50	
10	0.6991	1129.8	1149.8	1149.5	0.668	4.453	74.062	17.537	2.945	0.099	0.211	0.012	0.012	0.000	0.000	0.000	0.000	0.000	1375.42	
11	0.6716	1105.5	1125.0	1124.8	0.608	3.453	77.802	16.608	1.404	0.040	0.075	0.005	0.004	0.000	0.000	0.000	0.000	0.000	1372.83	
12	0.6650	1095.5	1114.9	1114.7	0.577	3.486	78.901	15.697	1.237	0.034	0.061	0.004	0.004	0.000	0.000	0.000	0.000	0.000	1367.18	
13	0.6653	1098.1	1117.5	1117.2	0.509	3.459	78.743	15.990	1.200	0.033	0.059	0.004	0.003	0.000	0.000	0.000	0.000	0.000	1370.06	
14	0.6661	1102.4	1121.9	1121.7	0.452	3.362	78.533	16.345	1.214	0.032	0.056	0.004	0.003	0.000	0.000	0.000	0.000	0.000	1374.61	
15	0.6643	1101.2	1120.7	1120.4	0.406	3.336	78.847	16.119	1.195	0.032	0.057	0.004	0.004	0.000	0.000	0.000	0.000	0.000	1374.94	
16	0.6684	1102.4	1121.9	1121.7	0.592	3.362	78.315	16.336	1.291	0.034	0.061	0.005	0.005	0.000	0.000	0.000	0.000	0.000	1372.29	
17	0.6722	1104.9	1124.4	1124.1	0.672	3.444	77.740	16.626	1.405	0.037	0.067	0.005	0.004	0.000	0.000	0.000	0.000	0.000	1371.50	
18	0.6743	1108.1	1127.7	1127.4	0.612	3.535	77.428	16.731	1.561	0.043	0.081	0.005	0.005	0.000	0.000	0.000	0.000	0.000	1373.40	
19	0.6762	1110.5	1130.2	1129.9	0.570	3.632	77.156	16.802	1.681	0.050	0.097	0.006	0.006	0.000	0.000	0.000	0.000	0.000	1374.48	
20	0.6704	1106.1	1125.7	1125.4	0.527	3.423	77.824	16.823	1.305	0.033	0.058	0.004	0.003	0.000	0.000	0.000	0.000	0.000	1374.83	
21	0.6761	1111.2	1130.9	1130.6	0.629	3.492	77.030	17.195	1.522	0.043	0.081	0.004	0.004	0.000	0.000	0.000	0.000	0.000	1375.39	
22	0.6680	1103.7	1123.3	1122.9	0.539	3.322	78.187	16.701	1.159	0.031	0.054	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1374.34	
23	0.6613	1097.4	1116.9	1116.6	0.374	3.328	79.333	15.768	1.105	0.030	0.053	0.004	0.003	0.000	0.000	0.000	0.000	0.000	1373.41	
24	0.6707	1105.2	1124.7	1124.4	0.424	3.660	78.103	16.014	1.633	0.051	0.102	0.006	0.006	0.000	0.000	0.000	0.000	0.000	1373.50	
25	0.6596	1095.6	1115.0	1114.6	0.328	3.357	79.495	15.744	0.995	0.027	0.048	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1372.77	
26	0.6665	1109.4	1129.1	1128.8	0.253	3.267	77.979	17.469	0.967	0.023	0.039	0.003	0.002	0.000	0.000	0.000	0.000	0.000	1383.06	
27	0.6770	1119.4	1139.2	1139.0	0.562	3.177	76.656	18.128	1.345	0.042	0.080	0.005	0.004	0.000	0.000	0.000	0.000	0.000	1384.60	
28	0.6718	1108.6	1128.2	1127.9	0.611	3.273	77.500	17.362	1.159	0.031	0.057	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1376.51	
29	0.6720	1112.8	1132.5	1132.2	0.459	3.272	77.337	17.634	1.210	0.030	0.053	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1381.48	
Avg	0.6710	1106.0	1125.6	1125.3	0.550	3.450	77.773	16.791	1.323	0.037	0.068	0.004	0.004	0.000	0.000	0.000	0.000	0.000	1374.11	

# Source Daily Summary

February 2024

Source #: 271  
Name: DCKSN BRD-BLFD TSF-G.U. STN

<b>Pressure Base:</b>	14.730	<b>Contract Day:</b>	1
<b>Temperature Base:</b>	60	<b>Contract Hour:</b>	9

Day	Relative Density	Heating Value Wet	Heating Value Dry	Heating Value As Del	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.6646	1092.8	1112.2	1112.0	0.650	3.498	78.623	16.277	0.882	0.025	0.042	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1364.29	
2	0.6715	1103.1	1122.6	1122.4	0.671	3.491	77.499	17.137	1.118	0.031	0.051	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1369.99	
3	0.6727	1105.5	1125.0	1124.8	0.645	3.499	77.211	17.455	1.111	0.029	0.049	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1371.72	
4	0.6757	1112.7	1132.4	1132.2	0.606	3.406	76.544	18.264	1.105	0.028	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1377.57	
5	0.6760	1113.3	1133.0	1132.8	0.599	3.406	76.497	18.311	1.111	0.028	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1378.00	
6	0.6762	1112.2	1131.9	1131.7	0.646	3.419	76.611	18.034	1.204	0.031	0.053	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1376.46	
7	0.6735	1108.8	1128.5	1128.2	0.626	3.401	77.258	17.324	1.293	0.035	0.060	0.002	0.002	0.000	0.000	0.000	0.000	0.000	1375.03	
8	0.6668	1104.2	1123.7	1123.5	0.441	3.327	78.405	16.505	1.220	0.036	0.061	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1376.19	
9	0.6695	1105.3	1124.9	1124.7	0.538	3.372	77.918	16.861	1.213	0.035	0.059	0.003	0.002	0.000	0.000	0.000	0.000	0.000	1374.74	
10	0.6714	1105.7	1125.2	1125.1	0.629	3.389	77.612	17.061	1.214	0.034	0.058	0.002	0.002	0.000	0.000	0.000	0.000	0.000	1373.27	
11	0.6685	1102.0	1121.5	1121.3	0.555	3.447	78.138	16.544	1.218	0.035	0.059	0.002	0.002	0.000	0.000	0.000	0.000	0.000	1371.75	
12	0.6656	1097.7	1117.1	1116.9	0.520	3.494	78.612	16.129	1.154	0.033	0.055	0.002	0.002	0.000	0.000	0.000	0.000	0.000	1369.28	
13	0.6681	1105.0	1124.5	1124.4	0.452	3.388	78.074	16.810	1.187	0.032	0.053	0.002	0.001	0.000	0.000	0.000	0.000	0.000	1375.80	
14	0.6661	1103.6	1123.2	1123.0	0.399	3.362	78.431	16.540	1.178	0.032	0.054	0.002	0.002	0.000	0.000	0.000	0.000	0.000	1376.20	
15	0.6672	1104.1	1123.6	1123.4	0.452	3.356	78.309	16.572	1.214	0.034	0.057	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1375.64	
16	0.6720	1106.1	1125.7	1125.5	0.647	3.386	77.554	17.068	1.253	0.033	0.054	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1373.26	
17	0.6713	1106.2	1125.8	1125.6	0.607	3.378	77.637	17.038	1.253	0.032	0.052	0.002	0.001	0.000	0.000	0.000	0.000	0.000	1374.05	
18	0.6716	1107.6	1127.2	1127.1	0.554	3.399	77.552	17.134	1.271	0.033	0.054	0.002	0.002	0.000	0.000	0.000	0.000	0.000	1375.53	
19	0.6707	1107.4	1127.0	1126.8	0.495	3.423	77.641	17.099	1.250	0.033	0.055	0.002	0.001	0.000	0.000	0.000	0.000	0.000	1376.11	
20	0.6736	1110.4	1130.1	1129.9	0.603	3.351	77.132	17.594	1.233	0.032	0.053	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1376.88	
21	0.6692	1106.2	1125.8	1125.6	0.513	3.332	77.794	17.189	1.091	0.030	0.049	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1376.12	
22	0.6628	1100.0	1119.5	1119.3	0.350	3.348	78.949	16.191	1.079	0.030	0.050	0.002	0.001	0.000	0.000	0.000	0.000	0.000	1375.07	
23	0.6619	1098.5	1118.0	1117.8	0.360	3.345	79.125	16.015	1.069	0.031	0.051	0.002	0.002	0.000	0.000	0.000	0.000	0.000	1374.08	
24	0.6664	1109.0	1128.6	1128.4	0.267	3.275	77.928	17.546	0.918	0.025	0.040	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1382.45	
25	0.6690	1114.1	1133.8	1133.6	0.203	3.302	77.383	18.066	0.991	0.022	0.032	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1386.16	
26	0.6813	1126.7	1146.7	1146.5	0.470	3.274	75.808	18.850	1.444	0.053	0.094	0.005	0.003	0.000	0.000	0.000	0.000	0.000	1389.22	
27	0.6758	1115.5	1135.2	1135.1	0.554	3.322	76.720	18.027	1.272	0.037	0.064	0.003	0.002	0.000	0.000	0.000	0.000	0.000	1380.91	
28	0.6739	1114.3	1134.0	1133.8	0.496	3.304	76.925	18.006	1.182	0.032	0.052	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1381.37	
29	0.6750	1119.9	1139.8	1139.6	0.326	3.317	76.666	18.294	1.312	0.032	0.051	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1387.28	
<b>Avg</b>	<b>0.6706</b>	<b>1108.0</b>	<b>1127.1</b>	<b>1126.9</b>	<b>0.513</b>	<b>3.380</b>	<b>77.605</b>	<b>17.239</b>	<b>1.174</b>	<b>0.032</b>	<b>0.054</b>	<b>0.002</b>	<b>0.001</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>1376.36</b>	

# Source Daily Summary

February 2024

Source #: 051  
Name: CABIN CRK STN-BELFIELD TRSFR

<b>Pressure Base:</b>	14.730	<b>Contract Day:</b>	1
<b>Temperature Base:</b>	60	<b>Contract Hour:</b>	9

Day	Relative Density	Heating Value Wet	Heating Value Dry	Heating Value As Del	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.6689	1104.2	1123.7	1123.3	0.402	3.589	78.282	16.041	1.556	0.044	0.078	0.005	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1373.96
2	0.6687	1103.9	1123.5	1123.2	0.403	3.583	78.317	16.019	1.548	0.043	0.077	0.005	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1373.85
3	0.6687	1103.9	1123.4	1123.1	0.403	3.582	78.321	16.020	1.545	0.043	0.077	0.005	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1373.84
4	0.6686	1103.7	1123.3	1123.0	0.404	3.577	78.344	16.009	1.538	0.043	0.076	0.005	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1373.79
5	0.6684	1103.6	1123.1	1122.7	0.404	3.577	78.366	15.991	1.535	0.043	0.076	0.005	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1373.70
6	0.6685	1103.6	1123.1	1122.6	0.402	3.584	78.363	15.980	1.542	0.043	0.077	0.005	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1373.63
7	0.6663	1100.6	1120.1	1119.2	0.407	3.554	78.742	15.692	1.480	0.042	0.074	0.005	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1372.20
8	0.6659	1100.0	1119.5	1118.4	0.409	3.549	78.821	15.630	1.468	0.042	0.073	0.005	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1371.85
9	0.6658	1099.8	1119.2	1118.5	0.409	3.548	78.848	15.606	1.465	0.042	0.073	0.005	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1371.73
10	0.6657	1099.7	1119.2	1118.6	0.411	3.541	78.858	15.606	1.460	0.042	0.073	0.005	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1371.76
11	0.6656	1099.6	1119.0	1118.2	0.411	3.538	78.883	15.588	1.456	0.042	0.073	0.005	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1371.69
12	0.6654	1099.3	1118.8	1117.9	0.410	3.539	78.914	15.560	1.454	0.042	0.073	0.005	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1371.56
13	0.6654	1099.3	1118.8	1117.7	0.410	3.539	78.911	15.563	1.454	0.042	0.073	0.005	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1371.57
14	0.6652	1099.1	1118.5	1117.3	0.410	3.537	78.947	15.534	1.448	0.042	0.072	0.005	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1371.41
15	0.6653	1099.2	1118.7	1117.8	0.412	3.536	78.925	15.555	1.449	0.042	0.073	0.005	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1371.50
16	0.6650	1098.9	1118.3	1117.9	0.413	3.529	78.977	15.517	1.441	0.042	0.072	0.005	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1371.35
17	0.6649	1098.7	1118.1	1117.6	0.413	3.526	79.007	15.495	1.437	0.041	0.072	0.005	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1371.27
18	0.6648	1098.9	1118.3	1117.7	0.426	3.484	79.024	15.529	1.415	0.041	0.071	0.005	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1371.63
19	0.6660	1099.6	1119.1	1118.5	0.478	3.470	78.811	15.718	1.405	0.039	0.069	0.005	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1371.36
20	0.6645	1098.8	1118.3	1117.7	0.441	3.437	79.068	15.546	1.388	0.040	0.070	0.005	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1371.86
21	0.6637	1098.0	1117.5	1116.4	0.459	3.386	79.211	15.475	1.351	0.039	0.069	0.005	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1371.67
22	0.6642	1098.5	1118.0	1116.6	0.447	3.422	79.121	15.514	1.377	0.040	0.070	0.005	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1371.76
23	0.6641	1098.4	1117.9	1116.6	0.448	3.419	79.135	15.505	1.374	0.040	0.070	0.005	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1371.72
24	0.6522	1078.3	1097.4	1096.0	0.327	3.702	81.376	13.181	1.285	0.043	0.073	0.007	0.006	0.000	0.000	0.000	0.000	0.000	0.000	1358.85
25	0.6530	1078.3	1097.4	1095.9	0.299	3.821	81.242	13.147	1.357	0.045	0.076	0.007	0.006	0.000	0.000	0.000	0.000	0.000	0.000	1358.05
26	0.6570	1085.5	1104.7	1103.9	0.403	3.601	80.479	14.083	1.312	0.041	0.071	0.006	0.005	0.000	0.000	0.000	0.000	0.000	0.000	1362.95
27	0.6658	1100.1	1119.5	1119.0	0.400	3.553	78.819	15.639	1.465	0.042	0.073	0.005	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1371.98
28	0.6663	1100.9	1120.4	1119.2	0.404	3.540	78.725	15.739	1.468	0.041	0.073	0.005	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1372.56
29	0.6641	1098.2	1117.7	1116.8	0.429	3.459	79.134	15.464	1.393	0.040	0.071	0.005	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1371.48
Avg	0.6648	1098.0	1117.8	1116.9	0.410	3.542	79.033	15.446	1.444	0.042	0.073	0.005	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1370.92

# Source Daily Summary

February 2024

Source #: 111  
Name: LITTLE KNIFE PLANT

Pressure Base: 14.730

Contract Day: 1

Temperature Base: 60

Contract Hour: 9

Day	Relative Density	Heating Value Wet	Heating Value Dry	Heating Value As Del	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.6827	1146.6	1166.9	1165.2	0.000	2.918	73.810	22.834	0.424	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1412.35	-29.08
2	0.6835	1148.2	1168.6	1166.4	0.000	2.902	73.634	23.025	0.426	0.005	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1413.43	-28.58
3	0.6847	1150.2	1170.5	1168.6	0.000	2.895	73.416	23.225	0.451	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1414.59	-27.84
4	0.6845	1150.0	1170.4	1168.3	0.000	2.886	73.461	23.183	0.457	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1414.60	-27.89
5	0.6858	1152.0	1172.4	1170.7	0.000	2.885	73.306	23.251	0.543	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1415.70	-26.94
6	0.6867	1153.6	1174.1	1172.6	0.000	2.872	73.246	23.197	0.660	0.009	0.015	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1416.76	-25.83
7	0.6869	1153.2	1173.6	1172.1	0.000	2.919	73.199	23.190	0.664	0.009	0.017	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1415.98	-25.78
8	0.6839	1147.8	1168.1	1166.4	0.000	2.965	73.560	23.028	0.433	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1412.46	-28.49
9	0.6853	1150.4	1170.8	1169.0	0.000	2.931	73.299	23.309	0.448	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1414.35	-27.66
10	0.6833	1147.4	1167.7	1165.8	0.000	2.937	73.643	22.996	0.410	0.005	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1412.55	-28.80
11	0.6844	1149.2	1169.6	1167.9	0.008	2.925	73.477	23.136	0.438	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1413.75	-28.11
12	0.6842	1149.1	1169.5	1167.5	0.000	2.909	73.504	23.135	0.439	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1413.84	-28.18
13	0.6840	1148.8	1169.1	1167.3	0.000	2.916	73.534	23.102	0.435	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1413.57	-28.30
14	0.6843	1149.6	1169.9	1168.0	0.000	2.895	73.479	23.177	0.435	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1414.27	-28.09
15	0.6840	1149.2	1169.6	1167.6	0.000	2.884	73.541	23.136	0.426	0.005	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1414.19	-28.28
16	0.6842	1149.5	1169.9	1168.3	0.000	2.886	73.502	23.167	0.431	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1414.33	-28.16
17	0.6844	1149.9	1170.3	1168.5	0.000	2.875	73.485	23.182	0.444	0.005	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1414.67	-28.01
18	0.6860	1152.7	1173.1	1171.4	0.000	2.860	73.322	23.206	0.592	0.007	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1416.37	-26.51
19	0.6844	1150.1	1170.4	1168.6	0.000	2.873	73.494	23.159	0.460	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1414.76	-27.91
20	0.6849	1150.8	1171.2	1169.1	0.000	2.872	73.393	23.261	0.461	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1415.22	-27.66
21	0.6848	1150.8	1171.2	1169.3	0.000	2.866	73.420	23.235	0.466	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1415.27	-27.67
22	0.6846	1150.1	1170.5	1168.5	0.000	2.888	73.447	23.192	0.460	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1414.65	-27.84
23	0.6854	1151.5	1171.9	1169.9	0.000	2.877	73.291	23.358	0.460	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1415.52	-27.42
24	0.6847	1150.2	1170.6	1168.5	0.000	2.892	73.420	23.220	0.454	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1414.66	-27.82
25	0.6835	1152.2	1172.6	1170.5	0.000	2.663	73.704	23.159	0.459	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1418.24	-27.88
26	0.6857	1155.4	1175.9	1174.5	0.000	2.664	73.412	23.323	0.578	0.008	0.013	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1420.04	-26.25
27	0.6832	1152.5	1172.9	1171.2	0.000	2.609	73.917	22.876	0.576	0.008	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1419.02	-27.39
28	0.6828	1151.9	1172.3	1170.4	0.000	2.605	74.063	22.683	0.620	0.010	0.018	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1418.74	-27.30
29	0.6834	1153.1	1173.5	1171.6	0.000	2.592	74.028	22.647	0.704	0.009	0.018	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1419.50	-26.70
Avg	0.6845	1151.0	1170.9	1169.1	0.000	2.850	73.518	23.124	0.492	0.006	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1415.29	-27.67

# Source Daily Summary

February 2024

Source #: 351  
Name: BADLANDS PLANT

<b>Pressure Base:</b>	14.730	<b>Contract Day:</b>	1
<b>Temperature Base:</b>	60	<b>Contract Hour:</b>	9

Day	Relative Density	Heating Value Wet	Heating Value Dry	Heating Value As Del	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.5721	963.1	980.2	979.9	0.109	3.522	96.040	0.305	0.016	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.90	
2	0.5721	963.1	980.2	979.9	0.110	3.522	96.040	0.305	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.88	
3	0.5721	963.1	980.1	979.8	0.110	3.527	96.036	0.304	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.77	
4	0.5721	963.1	980.2	979.9	0.111	3.518	96.043	0.304	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.91	
5	0.5721	963.1	980.2	979.9	0.111	3.520	96.041	0.304	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.88	
6	0.5722	963.0	980.1	979.8	0.111	3.530	96.032	0.304	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.71	
7	0.5722	962.9	980.0	979.7	0.110	3.541	96.023	0.303	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.52	
8	0.5756	967.7	984.9	984.7	0.129	3.537	95.406	0.855	0.060	0.009	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1298.15	
9	0.5721	963.1	980.2	980.0	0.110	3.520	96.041	0.305	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.90	
10	0.5721	963.2	980.2	980.0	0.110	3.517	96.044	0.305	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.94	
11	0.5721	963.2	980.2	980.0	0.110	3.517	96.045	0.304	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.97	
12	0.5721	963.1	980.2	979.9	0.110	3.523	96.040	0.304	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.85	
13	0.5721	963.2	980.2	980.0	0.111	3.516	96.046	0.304	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.97	
14	0.5721	963.3	980.3	980.1	0.111	3.508	96.052	0.305	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1296.10	
15	0.6221	1033.4	1051.7	1051.5	0.389	3.516	86.877	8.470	0.675	0.025	0.040	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1333.26	
16	0.6418	1061.5	1080.3	1080.1	0.498	3.495	83.254	11.723	0.934	0.032	0.055	0.005	0.005	0.000	0.000	0.000	0.000	0.000	1348.49	
17	0.6413	1060.3	1079.0	1078.8	0.497	3.526	83.356	11.594	0.930	0.032	0.055	0.005	0.005	0.000	0.000	0.000	0.000	0.000	1347.40	
18	0.6444	1066.4	1085.2	1084.9	0.516	3.417	82.787	12.225	0.957	0.033	0.056	0.005	0.005	0.000	0.000	0.000	0.000	0.000	1351.90	
19	0.6468	1068.9	1087.9	1087.6	0.517	3.484	82.331	12.571	0.995	0.033	0.059	0.005	0.005	0.000	0.000	0.000	0.000	0.000	1352.65	
20	0.6346	1052.3	1071.0	1070.6	0.440	3.463	84.572	10.603	0.838	0.029	0.048	0.004	0.004	0.000	0.000	0.000	0.000	0.000	1344.23	
21	0.5722	963.1	980.2	979.9	0.111	3.524	96.034	0.308	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.83	
22	0.5721	963.2	980.3	980.0	0.111	3.512	96.048	0.305	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1296.03	
23	0.5721	963.2	980.3	980.0	0.111	3.510	96.051	0.305	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1296.07	
24	0.5721	963.1	980.2	979.9	0.111	3.521	96.041	0.304	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.87	
25	0.5721	963.1	980.1	979.8	0.111	3.524	96.038	0.304	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.82	
26	0.5721	963.3	980.3	980.0	0.112	3.508	96.052	0.305	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1296.09	
27	0.5721	963.1	980.1	979.9	0.111	3.526	96.034	0.305	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.77	
28	0.5721	963.2	980.3	980.0	0.112	3.512	96.047	0.305	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1296.00	
29	0.5721	963.2	980.3	979.9	0.112	3.512	96.047	0.305	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1296.01	
<b>Avg</b>	<b>0.5860</b>	<b>983.0</b>	<b>1000.1</b>	<b>999.9</b>	<b>0.187</b>	<b>3.513</b>	<b>93.500</b>	<b>2.577</b>	<b>0.197</b>	<b>0.013</b>	<b>0.011</b>	<b>0.001</b>	<b>0.001</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>1306.41</b>	



February-24

ZONE 550

MANDAN BORDER

		NBPL - St Anthony			WBI - Mandan Border			Weighted	
Start Date	End Date	MCF	DK	BTU	MCF	DK	BTU Zone 28	AVG BTU	
2/1/2024	2/2/2024	0	0	0	3,728	4,216	1133.3	1133.300	2/1/2024
2/2/2024	2/3/2024	0	0	0	4,167	4,631	1111.4	1111.400	2/2/2024
2/3/2024	2/4/2024	0	0	0	4,027	4,519	1122.2	1122.200	2/3/2024
2/4/2024	2/5/2024	0	0	0	3,918	4,396	1121.9	1121.900	2/4/2024
2/5/2024	2/6/2024	0	0	0	4,284	4,838	1129.3	1129.300	2/5/2024
2/6/2024	2/7/2024	0	0	0	4,483	5,059	1128.6	1128.600	2/6/2024
2/7/2024	2/8/2024	0	0	0	4,751	5,366	1129.4	1129.400	2/7/2024
2/8/2024	2/9/2024	18	20	1115.9	5,641	6,334	1122.9	1122.878	2/8/2024
2/9/2024	2/10/2024	0	0	0	5,514	6,190	1122.7	1122.700	2/9/2024
2/10/2024	2/11/2024	0	0	0	5,859	6,753	1149.8	1149.800	2/10/2024
2/11/2024	2/12/2024	0	0	0	4,971	5,597	1125	1125.000	2/11/2024
2/12/2024	2/13/2024	0	0	0	4,590	5,117	1114.9	1114.900	2/12/2024
2/13/2024	2/14/2024	6	6	1,112	5,160	5,769	1117.5	1117.494	2/13/2024
2/14/2024	2/15/2024	15	17	1,115	6,281	7,047	1121.9	1121.883	2/14/2024
2/15/2024	2/16/2024	30	34	1,115	7,080	7,937	1120.7	1120.676	2/15/2024
2/16/2024	2/17/2024	0	0	0	7,177	8,053	1121.9	1121.900	2/16/2024
2/17/2024	2/18/2024	56	62	1,114	5,238	5,893	1124.4	1124.288	2/17/2024
2/18/2024	2/19/2024	1	1	1,115	4,590	5,187	1127.7	1127.697	2/18/2024
2/19/2024	2/20/2024	1	1	1,111	4,930	5,587	1130.2	1130.196	2/19/2024
2/20/2024	2/21/2024	0	0	0	4,080	4,595	1125.7	1125.700	2/20/2024
2/21/2024	2/22/2024	0	0	0	3,315	3,744	1130.9	1130.900	2/21/2024
2/22/2024	2/23/2024	0	0	0	3,532	3,969	1123.3	1123.300	2/22/2024
2/23/2024	2/24/2024	0	0	0	4,210	4,701	1116.9	1116.900	2/23/2024
2/24/2024	2/25/2024	0	0	0	3,470	3,901	1124.7	1124.700	2/24/2024
2/25/2024	2/26/2024	0	0	0	4,143	4,621	1115	1115.000	2/25/2024
2/26/2024	2/27/2024	24	26	1,114	4,139	4,680	1129.1	1129.014	2/26/2024
2/27/2024	2/28/2024	4	5	1114.7	8,011	9,126	1139.2	1139.188	2/27/2024
2/28/2024	2/29/2024	0	0	0	6,399	7,223	1128.2	1128.200	2/28/2024
2/29/2024	3/1/2024	0	0	0	3,913	4,433	1132.5	1132.500	2/29/2024
		155	172	345.7448	141,601	159,482	1125.5586	1125.5487	



# Alliance Pipeline

DAILY ANALYSIS --- USA  
ND07MD1 --- Hankinson Sales  
February 2024

DAY	Heating Value (BTU/ft3)	Relative Density	C1 Mol%	C2 Mol%	C3 Mol%	IC4 Mol%	NC4 Mol%	IC5 Mol%	NC5 Mol%	C6+ Mol%	N2 Mol%	CO2 Mol%	Hel Mol%
1	1,143.286	0.6524	85.2687	9.5070	3.0381	0.3168	0.4994	0.0566	0.0446	0.0180	0.8582	0.3818	0.0107
2	1,141.676	0.6505	85.5708	9.3470	2.9878	0.3142	0.4907	0.0555	0.0428	0.0169	0.8034	0.3615	0.0094
3	1,141.873	0.6518	85.3395	9.4425	3.0064	0.3173	0.5000	0.0555	0.0417	0.0170	0.8904	0.3791	0.0105
4	1,142.955	0.6520	85.3688	9.4225	3.0396	0.3178	0.5045	0.0571	0.0432	0.0171	0.8314	0.3868	0.0110
5	1,143.106	0.6523	85.3466	9.3904	3.0516	0.3215	0.5164	0.0584	0.0443	0.0179	0.8572	0.3851	0.0107
6	1,143.143	0.6522	85.3195	9.4458	3.0485	0.3161	0.5081	0.0566	0.0437	0.0168	0.8522	0.3821	0.0106
7	1,141.758	0.6512	85.4636	9.3627	3.0050	0.3159	0.5016	0.0559	0.0434	0.0168	0.8489	0.3760	0.0101
8	1,144.141	0.6531	85.2183	9.4715	3.0931	0.3224	0.5175	0.0563	0.0427	0.0162	0.8649	0.3866	0.0104
9	1,144.260	0.6535	85.1317	9.5208	3.1038	0.3215	0.5116	0.0564	0.0430	0.0174	0.9027	0.3809	0.0103
10	1,146.340	0.6544	85.0423	9.6032	3.1034	0.3425	0.5268	0.0599	0.0459	0.0191	0.8727	0.3749	0.0095
11	1,145.245	0.6535	85.1194	9.6047	3.0978	0.3189	0.5093	0.0564	0.0423	0.0163	0.8383	0.3858	0.0107
12	1,143.231	0.6526	85.2228	9.5073	3.0824	0.3136	0.4889	0.0550	0.0421	0.0159	0.8739	0.3876	0.0106
13	1,143.201	0.6527	85.2343	9.4738	3.0701	0.3188	0.5047	0.0565	0.0423	0.0160	0.8952	0.3781	0.0103
14	1,145.629	0.6546	84.9795	9.5840	3.1528	0.3251	0.5245	0.0572	0.0438	0.0161	0.9264	0.3803	0.0104
15	1,141.131	0.6520	85.3470	9.3271	3.0547	0.3140	0.5052	0.0564	0.0423	0.0147	0.9367	0.3915	0.0103
16	1,143.185	0.6526	85.2185	9.5166	3.0423	0.3191	0.5059	0.0568	0.0422	0.0166	0.8991	0.3725	0.0104
17	1,142.438	0.6521	85.2684	9.4910	3.0356	0.3142	0.4917	0.0566	0.0427	0.0164	0.9013	0.3717	0.0104
18	1,144.138	0.6539	85.0695	9.5098	3.1152	0.3271	0.5197	0.0574	0.0425	0.0163	0.9537	0.3788	0.0101
19	1,143.247	0.6528	85.2242	9.4699	3.0765	0.3210	0.5065	0.0558	0.0419	0.0154	0.9019	0.3768	0.0103
20	1,144.713	0.6538	85.1101	9.5073	3.1218	0.3287	0.5204	0.0570	0.0426	0.0157	0.9071	0.3790	0.0103
21	1,144.824	0.6540	85.0521	9.5629	3.1158	0.3280	0.5178	0.0565	0.0422	0.0158	0.9228	0.3757	0.0104
22	1,148.222	0.6572	84.7019	9.6190	3.2336	0.3466	0.5749	0.0620	0.0458	0.0179	1.0026	0.3855	0.0101
23	1,144.625	0.6538	85.1684	9.4128	3.0964	0.3394	0.5448	0.0617	0.0468	0.0187	0.9308	0.3702	0.0102
24	1,143.649	0.6534	85.1141	9.5600	3.0515	0.3244	0.5142	0.0571	0.0434	0.0168	0.9267	0.3817	0.0102
25	1,145.074	0.6541	85.0108	9.6256	3.0970	0.3262	0.5172	0.0571	0.0432	0.0167	0.9170	0.3791	0.0100
26	1,145.577	0.6547	84.9363	9.6425	3.1253	0.3264	0.5255	0.0572	0.0427	0.0162	0.9362	0.3814	0.0102
27	1,145.060	0.6538	85.0826	9.5865	3.0950	0.3269	0.5192	0.0567	0.0421	0.0163	0.8858	0.3789	0.0101
28	1,144.611	0.6535	85.1024	9.5884	3.0929	0.3231	0.5076	0.0551	0.0408	0.0160	0.8817	0.3818	0.0101
29	1,144.890	0.6538	85.0517	9.6140	3.1027	0.3230	0.5113	0.0551	0.0404	0.0157	0.8850	0.3908	0.0102
<b>Volume</b>	<b>1,143.876</b>	<b>0.6531</b>	<b>85.1863</b>	<b>9.5051</b>	<b>3.0770</b>	<b>0.3226</b>	<b>0.5119</b>	<b>0.0568</b>	<b>0.0429</b>	<b>0.0166</b>	<b>0.8905</b>	<b>0.3800</b>	<b>0.0103</b>
<b>Weight Avg Energy</b>	<b>1,143.878</b>	<b>0.6531</b>	<b>85.1861</b>	<b>9.5052</b>	<b>3.0771</b>	<b>0.3226</b>	<b>0.5119</b>	<b>0.0568</b>	<b>0.0429</b>	<b>0.0166</b>	<b>0.8905</b>	<b>0.3800</b>	<b>0.0103</b>



# Alliance Pipeline

DAILY ANALYSIS --- USA  
 ND14MD1 --- Milnor Sales  
 February 2024

DAY	Heating Value (BTU/ft3)	Relative Density	C1 Mol%	C2 Mol%	C3 Mol%	IC4 Mol%	NC4 Mol%	IC5 Mol%	NC5 Mol%	C6+ Mol%	N2 Mol%	CO2 Mol%	HeI Mol%
1	1,143.472	0.6525	85.2649	9.5071	3.0479	0.3168	0.4982	0.0569	0.0447	0.0179	0.8524	0.3826	0.0105
2	1,141.673	0.6504	85.5684	9.3524	2.9824	0.3150	0.4922	0.0553	0.0426	0.0169	0.8068	0.3586	0.0094
3	1,142.040	0.6518	85.3321	9.4507	3.0127	0.3167	0.4990	0.0554	0.0417	0.0169	0.8834	0.3808	0.0106
4	1,142.937	0.6521	85.3624	9.4154	3.0396	0.3186	0.5079	0.0575	0.0435	0.0174	0.8390	0.3879	0.0110
5	1,142.855	0.6522	85.3659	9.3801	3.0452	0.3203	0.5145	0.0583	0.0443	0.0180	0.8568	0.3859	0.0107
6	1,142.995	0.6521	85.3310	9.4455	3.0400	0.3159	0.5073	0.0565	0.0436	0.0168	0.8533	0.3796	0.0105
7	1,142.219	0.6514	85.4450	9.3693	3.0217	0.3174	0.5034	0.0560	0.0434	0.0168	0.8408	0.3762	0.0101
8	1,144.041	0.6532	85.2021	9.4766	3.0943	0.3217	0.5168	0.0564	0.0425	0.0161	0.8754	0.3877	0.0105
9	1,144.328	0.6536	85.1231	9.5241	3.1042	0.3229	0.5124	0.0564	0.0431	0.0176	0.9026	0.3835	0.0102
10	1,146.413	0.6543	85.0516	9.6036	3.1061	0.3407	0.5266	0.0597	0.0457	0.0187	0.8653	0.3725	0.0096
11	1,144.945	0.6534	85.1143	9.6129	3.0913	0.3172	0.5049	0.0560	0.0422	0.0162	0.8464	0.3879	0.0107
12	1,142.969	0.6524	85.2525	9.4828	3.0762	0.3138	0.4892	0.0553	0.0421	0.0160	0.8760	0.3857	0.0105
13	1,143.626	0.6529	85.2018	9.4933	3.0797	0.3200	0.5078	0.0567	0.0426	0.0160	0.8950	0.3767	0.0103
14	1,145.544	0.6546	84.9899	9.5635	3.1545	0.3261	0.5264	0.0577	0.0441	0.0162	0.9299	0.3815	0.0104
15	1,140.978	0.6518	85.3682	9.3281	3.0443	0.3136	0.5024	0.0560	0.0421	0.0150	0.9299	0.3901	0.0104
16	1,143.253	0.6527	85.2007	9.5372	3.0421	0.3180	0.5037	0.0567	0.0421	0.0166	0.9010	0.3714	0.0104
17	1,142.976	0.6526	85.2275	9.4966	3.0555	0.3172	0.4982	0.0572	0.0428	0.0164	0.9047	0.3732	0.0104
18	1,143.278	0.6533	85.1482	9.4769	3.0885	0.3240	0.5125	0.0567	0.0422	0.0160	0.9452	0.3798	0.0101
19	1,143.523	0.6529	85.2102	9.4744	3.0831	0.3224	0.5091	0.0562	0.0422	0.0155	0.9007	0.3758	0.0103
20	1,144.842	0.6539	85.0882	9.5225	3.1244	0.3291	0.5208	0.0568	0.0424	0.0157	0.9117	0.3779	0.0102
21	1,144.387	0.6537	85.1073	9.5206	3.1047	0.3275	0.5186	0.0567	0.0423	0.0163	0.9183	0.3775	0.0102
22	1,145.399	0.6546	85.0162	9.5135	3.1397	0.3347	0.5405	0.0591	0.0442	0.0171	0.9458	0.3791	0.0102
23	1,144.517	0.6538	85.1720	9.4191	3.0938	0.3378	0.5416	0.0612	0.0466	0.0185	0.9284	0.3708	0.0102
24	1,143.620	0.6533	85.1127	9.5646	3.0491	0.3240	0.5138	0.0569	0.0433	0.0168	0.9256	0.3830	0.0102
25	1,145.166	0.6541	85.0132	9.6222	3.1012	0.3262	0.5181	0.0572	0.0432	0.0165	0.9144	0.3779	0.0100
26	1,145.211	0.6544	84.9869	9.6096	3.1187	0.3258	0.5231	0.0569	0.0423	0.0163	0.9291	0.3810	0.0104
27	1,144.935	0.6537	85.0940	9.5813	3.0905	0.3265	0.5182	0.0567	0.0422	0.0164	0.8841	0.3801	0.0099
28	1,144.930	0.6537	85.0679	9.6074	3.1025	0.3239	0.5095	0.0552	0.0407	0.0160	0.8854	0.3814	0.0101
29	1,144.376	0.6535	85.0987	9.5882	3.0876	0.3217	0.5090	0.0548	0.0402	0.0157	0.8826	0.3915	0.0102
<b>Volume</b>	<b>1,143.867</b>	<b>0.6531</b>	<b>85.1879</b>	<b>9.5006</b>	<b>3.0787</b>	<b>0.3226</b>	<b>0.5122</b>	<b>0.0568</b>	<b>0.0429</b>	<b>0.0166</b>	<b>0.8914</b>	<b>0.3800</b>	<b>0.0103</b>
<b>Weight Avg Energy</b>	<b>1,143.867</b>	<b>0.6531</b>	<b>85.1878</b>	<b>9.5006</b>	<b>3.0787</b>	<b>0.3226</b>	<b>0.5122</b>	<b>0.0568</b>	<b>0.0429</b>	<b>0.0166</b>	<b>0.8914</b>	<b>0.3800</b>	<b>0.0103</b>

February-24

ZONE 610

Watford City

Watford City West Border

Watford City East Border

Weighted

Start Date	End Date	BTU			BTU			AVG BTU	
		MCF	DK	Zone 25	MCF	DK	Zone 43		
2/1/2024	2/2/2024	263	314	1194	539	599	1112.8	1139.428	2/1/2024
2/2/2024	2/3/2024	303	362	1194	680	756	1112.8	1137.829	2/2/2024
2/3/2024	2/4/2024	287	342	1194	566	630	1112.8	1140.121	2/3/2024
2/4/2024	2/5/2024	276	330	1194	580	646	1112.8	1138.981	2/4/2024
2/5/2024	2/6/2024	278	332	1194	664	738	1112.8	1136.763	2/5/2024
2/6/2024	2/7/2024	325	389	1194	703	782	1112.8	1138.471	2/6/2024
2/7/2024	2/8/2024	356	425	1194	784	872	1112.8	1138.157	2/7/2024
2/8/2024	2/9/2024	402	480	1194	830	924	1112.8	1139.295	2/8/2024
2/9/2024	2/10/2024	402	480	1194	887	987	1112.8	1138.124	2/9/2024
2/10/2024	2/11/2024	449	536	1194	1,027	1,143	1112.8	1137.501	2/10/2024
2/11/2024	2/12/2024	382	456	1194	838	932	1112.8	1138.225	2/11/2024
2/12/2024	2/13/2024	320	382	1194	744	828	1112.8	1137.221	2/12/2024
2/13/2024	2/14/2024	380	454	1194	807	898	1112.8	1138.795	2/13/2024
2/14/2024	2/15/2024	408	488	1194	877	976	1112.8	1138.582	2/14/2024
2/15/2024	2/16/2024	545	651	1194	1,172	1,304	1112.8	1138.574	2/15/2024
2/16/2024	2/17/2024	535	639	1194	1,173	1,305	1112.8	1138.234	2/16/2024
2/17/2024	2/18/2024	425	507	1194	901	1,002	1112.8	1138.826	2/17/2024
2/18/2024	2/19/2024	351	419	1194	839	933	1112.8	1136.751	2/18/2024
2/19/2024	2/20/2024	394	470	1194	1,269	1,412	1112.8	1132.038	2/19/2024
2/20/2024	2/21/2024	314	375	1194	687	764	1112.8	1138.271	2/20/2024
2/21/2024	2/22/2024	280	335	1194	569	633	1112.8	1139.580	2/21/2024
2/22/2024	2/23/2024	290	346	1194	705	784	1112.8	1136.466	2/22/2024
2/23/2024	2/24/2024	275	328	1194	643	716	1112.8	1137.125	2/23/2024
2/24/2024	2/25/2024	270	322	1194	648	722	1112.8	1136.682	2/24/2024
2/25/2024	2/26/2024	274	328	1194	638	710	1112.8	1137.196	2/25/2024
2/26/2024	2/27/2024	407	486	1194	910	1,013	1112.8	1137.894	2/26/2024
2/27/2024	2/28/2024	536	640	1194	1,142	1,271	1112.8	1138.738	2/27/2024
2/28/2024	2/29/2024	430	514	1194	920	1,024	1112.8	1138.664	2/28/2024
2/29/2024	3/1/2024	253	301	1194	526	586	1112.8	1139.172	2/29/2024
		10,410	12,431	1194.0000	23,268	25,890	1112.8000	1137.9898	

Tsp	EffDate	EndDate	Device	GasDay	EndDt	BTU	SpecGrav	CriconTherm	WobbeIndex	CO2	N2	Methane	Ethane	Propane	iButane	nButane	iPentane	nPentane	NeoPentane	C6Plus	Hydrogen	Helium	WaterVapor	TotalSulfur	HydrogenSulfur	Oxygen
NBPL	1/30/2024 0:00	3/2/2024 0:00	GLNU1 - GLEN ULLIN	2/1/2024	2/2/2024	1102	0.6542	-45.9	1362.468043	0.9619	2.6287	80.7262	14.9133	0.6343	0.0163	0.0303	0.0014	0.001	0	0	0.0617	0.0252	0.3037	0.1442	0.0803	0.0012
NBPL	1/30/2024 0:00	3/2/2024 0:00	GLNU1 - GLEN ULLIN	2/2/2024	2/3/2024	1114	0.6608	-41.5	1370.40891	0.955	2.5702	79.4636	16.2046	0.6824	0.0166	0.0314	0.0014	0.0013	0	0	0.0494	0.0243	0.2826	0.1488	0.0839	0.0012
NBPL	1/30/2024 0:00	3/2/2024 0:00	GLNU1 - GLEN ULLIN	2/3/2024	2/4/2024	1117	0.6642	-39.5	1370.57794	0.9749	2.6786	78.8608	16.6107	0.7547	0.0171	0.0331	0.0019	0.0019	0	0	0.0412	0.0254	0.2884	0.1634	0.0953	0.0012
NBPL	1/30/2024 0:00	3/2/2024 0:00	GLNU1 - GLEN ULLIN	2/4/2024	2/5/2024	1115	0.6628	-40.1	1369.58055	0.961	2.639	79.1278	16.4148	0.7348	0.0181	0.0354	0.0021	0.0021	0	0	0.0401	0.0251	0.2587	0.1742	0.1037	0.0012
NBPL	1/30/2024 0:00	3/2/2024 0:00	GLNU1 - GLEN ULLIN	2/5/2024	2/6/2024	1116	0.6631	-39.9	1370.486244	0.9634	2.6406	79.0765	16.4478	0.7439	0.0182	0.0357	0.002	0.0021	0	0	0.0468	0.025	0.2721	0.1801	0.1033	0.0012
NBPL	1/30/2024 0:00	3/2/2024 0:00	GLNU1 - GLEN ULLIN	2/6/2024	2/7/2024	1116	0.6632	-39.9	1370.382516	0.9684	2.6207	79.1053	16.4444	0.7509	0.0185	0.0359	0.002	0.002	0	0	0.0271	0.025	0.2591	0.1419	0.0865	0.0012
NBPL	1/30/2024 0:00	3/2/2024 0:00	GLNU1 - GLEN ULLIN	2/7/2024	2/8/2024	1114	0.6619	-40.8	1369.269707	0.957	2.6263	79.3044	16.2989	0.7038	0.0182	0.0356	0.002	0.002	0	0	0.0265	0.0254	0.2564	0.1221	0.0867	0.0012
NBPL	1/30/2024 0:00	3/2/2024 0:00	GLNU1 - GLEN ULLIN	2/8/2024	2/9/2024	1117	0.6639	-39.6	1370.88757	0.967	2.655	78.8623	16.6657	0.7114	0.0187	0.0363	0.0022	0.0021	0	0	0.0541	0.0252	0.2665	0.124	0.0854	0.0011
NBPL	1/30/2024 0:00	3/2/2024 0:00	GLNU1 - GLEN ULLIN	2/9/2024	2/10/2024	1116	0.6636	-39.7	1369.969839	0.9599	2.6818	78.772	16.6628	0.7134	0.0179	0.0349	0.002	0.002	0	0	0.1286	0.0247	0.2549	0.1231	0.0861	0.0012
NBPL	1/30/2024 0:00	3/2/2024 0:00	GLNU1 - GLEN ULLIN	2/10/2024	2/11/2024	1117	0.6639	-39.7	1370.88757	0.964	2.6556	78.8623	16.6761	0.7104	0.0176	0.0342	0.0019	0.0019	0	0	0.0509	0.0253	0.2693	0.1228	0.0802	0.0012
NBPL	1/30/2024 0:00	3/2/2024 0:00	GLNU1 - GLEN ULLIN	2/11/2024	2/12/2024	1115	0.6625	-40.5	1369.878111	0.9602	2.626	79.0812	16.5027	0.6828	0.0173	0.0335	0.0019	0.0019	0	0	0.068	0.0247	0.2686	0.1238	0.0845	0.0012
NBPL	1/30/2024 0:00	3/2/2024 0:00	GLNU1 - GLEN ULLIN	2/12/2024	2/13/2024	1114	0.6616	-40.8	1369.580117	0.9565	2.6098	79.1635	16.3623	0.7013	0.0169	0.0329	0.0019	0.0019	0	0	0.1286	0.0246	0.283	0.1193	0.0852	0.0012
NBPL	1/30/2024 0:00	3/2/2024 0:00	GLNU1 - GLEN ULLIN	2/13/2024	2/14/2024	1114	0.6616	-40.7	1369.580117	0.9585	2.633	79.2242	16.2564	0.7347	0.017	0.0326	0.0019	0.0019	0	0	0.1154	0.0245	0.2707	0.1125	0.0772	0.0012
NBPL	1/30/2024 0:00	3/2/2024 0:00	GLNU1 - GLEN ULLIN	2/14/2024	2/15/2024	1116	0.6646	-39.4	1368.938779	0.9773	2.7364	78.602	16.7574	0.7288	0.0171	0.0325	0.0018	0.0017	0	0	0.1198	0.0254	0.2577	0.1132	0.0734	0.0012
NBPL	1/30/2024 0:00	3/2/2024 0:00	GLNU1 - GLEN ULLIN	2/15/2024	2/16/2024	1113	0.6612	-41.1	1368.764528	0.9581	2.6266	79.2434	16.2995	0.675	0.0177	0.0341	0.0019	0.0019	0	0	0.117	0.0249	0.2737	0.1266	0.0694	0.0012
NBPL	1/30/2024 0:00	3/2/2024 0:00	GLNU1 - GLEN ULLIN	2/16/2024	2/17/2024	1116	0.6633	-39.8	1370.279612	0.965	2.67	78.8749	16.5728	0.728	0.0181	0.0343	0.0019	0.0018	0	0	0.1083	0.0251	0.2701	0.1211	0.0647	0.0008
NBPL	1/30/2024 0:00	3/2/2024 0:00	GLNU1 - GLEN ULLIN	2/17/2024	2/18/2024	1116	0.6642	-39.1	1369.350923	0.9628	2.7516	78.5467	16.6954	0.7657	0.0175	0.0334	0.0017	0.0018	0	0	0.1985	0.0253	0.2718	0.123	0.0683	0.0007
NBPL	1/30/2024 0:00	3/2/2024 0:00	GLNU1 - GLEN ULLIN	2/18/2024	2/19/2024	1114	0.6632	-39.7	1367.927033	0.9636	2.749	78.7043	16.5679	0.7339	0.0179	0.035	0.0019	0.0019	0	0	0.1996	0.0251	0.2845	0.1321	0.0783	0.0011
NBPL	1/30/2024 0:00	3/2/2024 0:00	GLNU1 - GLEN ULLIN	2/19/2024	2/20/2024	1111	0.6614	-40.8	1366.09834	0.9593	2.7525	78.9477	16.3188	0.6928	0.0182	0.0357	0.002	0.002	0	0	0.2461	0.025	0.2871	0.1335	0.0791	0.0012
NBPL	1/30/2024 0:00	3/2/2024 0:00	GLNU1 - GLEN ULLIN	2/20/2024	2/21/2024	1111	0.6616	-40.6	1365.891841	0.9562	2.777	78.9709	16.2501	0.729	0.0186	0.0363	0.002	0.002	0	0	0.2329	0.0251	0.3014	0.1417	0.0872	0.0012
NBPL	1/30/2024 0:00	3/2/2024 0:00	GLNU1 - GLEN ULLIN	2/21/2024	2/22/2024	1110	0.6611	-41.3	1365.178375	0.9764	2.7951	79.1957	16.0631	0.7107	0.0189	0.0371	0.0021	0.0021	0	0	0.1735	0.0254	0.3101	0.1431	0.0894	0.0012
NBPL	1/30/2024 0:00	3/2/2024 0:00	GLNU1 - GLEN ULLIN	2/22/2024	2/23/2024	1110	0.661	-41.6	1365.281637	0.9707	2.7959	79.1227	16.1813	0.6615	0.0177	0.0344	0.0019	0.0017	0	0	0.1869	0.0254	0.3027	0.1299	0.082	0.0012
NBPL	1/30/2024 0:00	3/2/2024 0:00	GLNU1 - GLEN ULLIN	2/23/2024	2/24/2024	1111	0.6619	-41	1365.582267	0.9714	2.7854	78.926	16.3587	0.6775	0.0175	0.0334	0.0017	0.0015	0	0	0.2015	0.0256	0.292	0.1199	0.0772	0.0012
NBPL	1/30/2024 0:00	3/2/2024 0:00	GLNU1 - GLEN ULLIN	2/24/2024	2/25/2024	1111	0.6614	-41.4	1366.09834	0.9861	2.74	79.1546	16.2368	0.6617	0.0177	0.0351	0.002	0.002	0	0	0.1389	0.0252	0.2789	0.1107	0.0741	0.0012
NBPL	1/30/2024 0:00	3/2/2024 0:00	GLNU1 - GLEN ULLIN	2/25/2024	2/26/2024	1114	0.6646	-39.6	1366.485483	1.0032	2.8118	78.628	16.6639	0.7024	0.0188	0.0375	0.0021	0.0021	0	0	0.1047	0.0256	0.2594	0.1096	0.0754	0.0012
NBPL	1/30/2024 0:00	3/2/2024 0:00	GLNU1 - GLEN ULLIN	2/26/2024	2/27/2024	1116	0.6663	-38.7	1367.191306	1.0184	2.8742	78.2432	16.9301	0.7176	0.0186	0.0372	0.0021	0.0022	0	0	0.1307	0.0258	0.269	0.1085	0.0757	0.0011
NBPL	1/30/2024 0:00	3/2/2024 0:00	GLNU1 - GLEN ULLIN	2/27/2024	2/28/2024	1111	0.6632	-40.7	1364.243208	1.0144	2.8556	78.8404	16.4161	0.6706	0.0182	0.0362	0.002	0.002	0	0	0.1188	0.026	0.2648	0.0981	0.059	0.0004
NBPL	1/30/2024 0:00	3/2/2024 0:00	GLNU1 - GLEN ULLIN	2/28/2024	2/29/2024	1110	0.6628	-41.3	1363.426494	1.0234	2.8788	79.1271	16.1859	0.6765	0.018	0.035	0.0018	0.0017	0	0	0.0255	0.0265	0.2704	0.0958	0.0588	0.001
NBPL	1/30/2024 0:00	3/2/2024 0:00	GLNU1 - GLEN ULLIN	2/29/2024	3/1/2024	1112	0.6652	-39.6	1363.416881	1.0355	2.9789	78.7649	16.3289	0.7773	0.021	0.0411	0.0022	0.0023	0	0	0.0208	0.0274	0.2623	0.1058	0.0704	0.0012

<b>NORTH DAKOTA HEATING VALUE ZONES</b>		
<b>ZONES</b>	<b>MEASURING DEVICE</b>	<b>LOCATION</b>
211	Chromatograph	Sidney Border
24	Chromatograph	Williston Border
241	Accumulated Sample	Fairview Border
25	Accumulated Sample	Watford City West Border
260	Chromatograph	North Tioga Transfer
261	Chromatograph	Tioga Comp Station – Robinson Lake Plant
262	Chromatograph	Minot Border
263	Accumulated Sample	Lignite Plant
264	Accumulated Sample	Epping Border
265	Chromatograph	Tioga Comp Station – County Line Plant
271	Chromatograph	Bismarck – Cleveland
272	Chromatograph	Cleveland – Mapleton
273	Chromatograph	Cleveland – Grafton
28	Chromatograph	Bismarck Station
31	Chromatograph	Dickinson Border
32	Chromatograph	Cabin Creek Station
33	Chromatograph	Little Knife Plant
34	Chromatograph	Bowman Border
43	Accumulated Sample	Watford City East Border
550	Accumulated Sample & Chromatograph	Mandan Border
600	Chromatograph	Hankinson Area
601	Chromatograph	Milnor Area
610	Accumulated Sample & Chromatograph	Watford City
802	Chromatograph	Linton

MONTANA DAKOTA UTILITIES CO  
NORTH DAKOTA  
HEATING VALUE DATA

STATE	ZONE	ZONE BOUNDARY	12 MONTH AVERAGE	FEB24	JAN24	DEC23	NOV23	OCT23	SEP23	AUG23	JUL23	JUN23	MAY23	APR23	MAR23	Zone
MT/ND	211	Sidney Border - MonDak Tfr - Sidney Plt	1196	1187	1179	1192	1195	1194	1196	1198	1199	1195	1200	1204	1208	211
ND	24	Williston Border - Charbonneau Station	1194	1192	1197	1194	1194	1188	1188	1195	1195	1196	1198	1194	1195	24
ND	25	Watford City West Border	1197	1194	1198	1197	1198	1207	1212	1210	1210	1190	1189	1180	1183	25
ND	28	Bismarck Station - Glen Ullin Station	1161	1126	1131	1138	1161	1154	1202	1199	1194	1195	1192	1118	1127	28
ND	31	Dickinson Brd - Belfield Trf - G Ullin Stn	1122	1127	1127	1134	1147	1138	1121	1124	1118	1107	1086	1100	1132	31
ND/MT	32	Cabin Creek Station - Belfied Transfer	1127	1118	1122	1132	1138	1135	1135	1134	1124	1124	1111	1119	1137	32
ND	33	Little Knife Plant	1175	1171	1169	1168	1174	1173	1177	1181	1174	1180	1182	1179	1177	33
ND	34	Badlands Plant/Bowman Border	1021	1000	1094	1079	1017	980	984	980	980	1040	1021	1005	1071	34
ND	43	Watford City East Border	1111	1113	1127	1132	1154	1119	1124	1120	1118	1081	1042	1083	1116	43
ND/MT	241	Fairview Border	1194	1192	1185	1192	1198	1192	1195	1200	1193	1189	1200	1196	1201	241
ND	267	North Tioga Transfer - Nesson Plant	1176	1165	1166	1171	1169	1169	1166	1176	1181	1185	1188	1187	1189	267
ND	261	Tioga Comp Station - Robinson Lake Plan	1191	1192	1178	1201	1203	1203	1187	1191	1186	1189	1188	1184	1185	261
ND	262	Minot Bdr - Palermo Bdr - Bismarck Stn	1196	1196	1198	1202	1204	1206	1202	1197	1192	1193	1190	1189	1187	262
ND	263	Lignite Plant	1131	1131	1131	1131	1131	1131	1131	1131	1131	1131	1131	1131	1131	263
ND	264	Epping Border	1196	1193	1204	1206	1206	1191	1183	1195	1190	1181	1195	1202	1200	264
ND	265	Tioga Comp Station - County Line Plant	1175	1179	1169	1183	1175	1171	1174	1170	1165	1168	1176	1182	1183	265
ND	266	County Line Plant	1176	1181	1171	1184	1177	1172	1179	1171	1166	1168	1178	1182	1183	266
ND	271	Bismarck Station - Cleveland Station	1194	1183	1186	1201	1206	1204	1202	1199	1194	1195	1192	1189	1181	271
ND	272	Cleveland Station - Mapleton	1194	1183	1185	1200	1204	1205	1201	1199	1194	1194	1191	1188	1181	272
ND	273	Cleveland Station - Grafton Border	1194	1183	1186	1201	1205	1204	1202	1198	1194	1194	1192	1187	1180	273
ND	550	Mandan Border / NBPL-St Anthony	1141	1126	1124	1138	1161	1142	1188	1173	1172	1160	1085	1101	1118	550
ND	610	MDU-Watford City BTU	1131	1138	1150	1151	1167	1152	1150	1131	1123	1091	1065	1111	1137	610
ND	802	NBPL - Linton	1102	1114	1103	1114	1104	1106	1110	1105	1104	1102	1080	1085	1097	802
ND	903	Hettinger Propane	2549	2549	2549	2549	2549	2549	2549	2549	2549	2549	2549	2549	2549	903
ND	600	Alliance Pipeline - Hankinson	1151	1144	1144	1147	1146	1153	1149	1159	1155	1157	1154	1153	1149	600
ND	601	Alliance Pipeline - Milnor	1151	1144	1144	1147	1147	1154	1149	1160	1155	1157	1155	1154	1149	601

<b>THERMAL ZONE VARIANCE DOCUMENTATION</b>		
<b>February 2024</b>		
<b><i>ZONE</i></b>	<b><i>BTU VARIANCE</i></b>	<b><i>REASON</i></b>
34	-94	Operational