



A Subsidiary of MDU Resources Group, Inc.

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October 11, 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 – August 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 September 2024.
2. Attachment B consists of copies of the monthly Heating Value Test Reports received from our suppliers for the month of August 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 August 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
Sep-24

<u>Town</u>	<u>Heat Zone</u>	<u>Therm Factor</u>
MDU-303-ALEXANDER	025	1.1258
MDU-308-ARNEGARD	025	1.1258
MDU-314-APPLE VALLEY	271	1.1578
MDU-318-BEACH	032	1.0258
MDU-319-BELFIELD	032	1.0333
MDU-323-BERTHOLD	262	1.1325
MDU-327-BISMARCK	028	1.1578
MDU-330-BOWMAN	034	0.8999
MDU-337-BURLINGTON	262	1.1569
MDU-343-CARRINGTON	273	1.1578
MDU-344-CLEVELAND	272	1.1497
MDU-364-CAVALIER	273	1.1823
MDU-365-DAWSON	271	1.1516
MDU-368-DES LACS	262	1.1406
MDU-369-DICKINSON	031	1.0455
MDU-374-FT TOTTEN	273	1.1660
MDU-375-DEVILS LAKE	273	1.1660
MDU-379-BARLOW	273	1.1578
MDU-384-EPPING	264	1.1136
MDU-387-ELDRIDGE	272	1.1578
MDU-407-GLADSTONE	031	1.0455
MDU-411-GLEN ULLIN	031	1.0531
MDU-413-GOLVA	032	1.0107
MDU-416-GARRISON	262	1.1406
MDU-417-GRAFTON	273	1.1904
MDU-403-GWINNER	601	1.1320
MDU-429-HEBRON	031	1.0531
MDU-432-HETTINGER	903	2.4049
MDU-449-JAMESTOWN	272	1.1660
MDU-459-KILLDEER	033	1.1079
MDU-463-LANGDON	273	1.1578
MDU-469-LEFOR	031	1.0455
MDU-474-LIGNITE	263	1.0759
MDU-475-LINTON	802	1.0614
MDU-478-LINCOLN	028	1.1578
MDU-488-MCKENZIE	271	1.1578
MDU-494-MEDINA	271	1.1497
MDU-498-MANDAN	028	1.1578
MDU-500-MARMARTH	034	0.9066
MDU-505-MINOT	262	1.1325
MDU-510-MOTT	031	1.0455
MDU-512-MAX	262	1.1569
MDU-513-MILNOR	601	1.1320
MDU-522-NEW ENGLAND	031	1.0380
MDU-524-NEW SALEM	028	1.1334
MDU-532-NEW ROCKFORD	273	1.1578
MDU-539-PARK RIVER	273	1.1823
MDU-540-PALERMO	262	1.1325
MDU-558-RAY	264	1.1136

MDU-561-REGENT	031	1.0380
MDU-563-RHAME	034	0.8933
MDU-564-RICHARDTON	031	1.0380
MDU-568-ROSS	261	1.1206
MDU-572-RUTHVILLE	262	1.1569
MDU-574-SANBORN	272	1.1660
MDU-583-SENTINEL BUTTE	032	1.0258
MDU-588-SOUTH HEART	031	1.0455
MDU-717-SPIRITWOOD	272	1.1660
MDU-590-SPRINGBROOK	264	1.1136
MDU-591-STANLEY	261	1.1287
MDU-593-STEELE	271	1.1497
MDU-594-STERLING	028	1.1578
MDU-598-SHEYENNE	273	1.1660
MDU-605-SURREY	262	1.1569
MDU-610-TAPPEN	271	1.1497
MDU-611-TAYLOR	031	1.0380
MDU-616-TIOGA	260	1.1168
MDU-619-TURTLE LAKE	262	1.1406
MDU-620-TRENTON	024	1.1330
MDU-624-UNDERWOOD	262	1.1406
MDU-625-VALLEY CITY	272	1.1741
MDU-629-WALHALLA	273	1.1823
MDU-632-WATFORD CITY	610	1.0465
MDU-636-WHEELOCK	264	1.1056
MDU-637-WHITE EARTH	261	1.1287
MDU-642-WILLISTON	024	1.1330
MDU-646-WASHBURN	262	1.1406
MDU-647-WILTON	262	1.1325
MDU-664-RIVERDALE	262	1.1406
MDU-691-FAIRVIEW	241	1.1273
MDU-712-MINOT AFB	262	1.1569
MDU-718-FAIRMOUNT	600	1.1287
MDU-732-NEKOMA	273	1.1598
MDU-732-MSR SITE	273	1.1598

Source Daily Summary

August 2024

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

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	0.7251	1169.7	1190.4	1188.8	1.231	3.504	70.298	21.032	3.440	0.148	0.297	0.021	0.019	0.010	0.000	0.000	0.000	0.000	1397.98	
2	0.7205	1170.5	1191.2	1189.7	1.095	3.337	70.924	20.866	3.312	0.137	0.280	0.020	0.019	0.010	0.000	0.000	0.000	0.000	1403.36	
3	0.7195	1169.7	1190.4	1189.1	1.089	3.298	70.996	20.996	3.135	0.141	0.295	0.021	0.020	0.010	0.000	0.000	0.000	0.000	1403.40	
4	0.7212	1170.9	1191.6	1190.5	1.141	3.301	70.751	21.142	3.186	0.138	0.290	0.021	0.020	0.010	0.000	0.000	0.000	0.000	1403.20	
5	0.7195	1170.9	1191.6	1190.6	1.060	3.268	70.876	21.238	3.114	0.130	0.270	0.019	0.018	0.009	0.000	0.000	0.000	0.000	1404.85	
6	0.7247	1174.0	1194.8	1193.4	1.241	3.292	70.285	21.379	3.299	0.146	0.305	0.022	0.021	0.011	0.000	0.000	0.000	0.000	1403.52	
7	0.7245	1171.3	1192.1	1191.1	1.271	3.390	70.227	21.392	3.253	0.138	0.281	0.020	0.018	0.010	0.000	0.000	0.000	0.000	1400.50	
8	0.7235	1171.5	1192.3	1191.3	1.214	3.372	70.414	21.248	3.277	0.139	0.289	0.020	0.018	0.010	0.000	0.000	0.000	0.000	1401.69	
9	0.7269	1174.9	1195.8	1194.7	1.271	3.393	70.028	21.307	3.526	0.140	0.287	0.020	0.018	0.010	0.000	0.000	0.000	0.000	1402.52	
10	0.7238	1173.8	1194.6	1193.5	1.201	3.280	70.583	20.959	3.501	0.138	0.287	0.020	0.020	0.010	0.000	0.000	0.000	0.000	1404.10	
11	0.7226	1172.0	1192.8	1191.8	1.179	3.306	70.671	21.010	3.356	0.138	0.289	0.021	0.021	0.010	0.000	0.000	0.000	0.000	1403.19	
12	0.7242	1175.2	1196.0	1194.9	1.178	3.270	70.457	21.137	3.476	0.139	0.291	0.021	0.020	0.010	0.000	0.000	0.000	0.000	1405.41	
13	0.7259	1176.2	1197.0	1195.9	1.203	3.330	70.300	21.040	3.638	0.141	0.295	0.021	0.020	0.010	0.000	0.000	0.000	0.000	1404.94	
14	0.7236	1172.8	1193.5	1192.4	1.171	3.284	70.675	20.819	3.566	0.140	0.293	0.021	0.020	0.010	0.000	0.000	0.000	0.000	1403.08	
15	0.7208	1170.5	1191.3	1190.1	1.155	3.262	70.918	20.947	3.231	0.141	0.296	0.021	0.020	0.010	0.000	0.000	0.000	0.000	1403.20	
16	0.7207	1171.3	1192.1	1191.0	1.156	3.207	70.876	21.103	3.169	0.140	0.296	0.021	0.021	0.010	0.000	0.000	0.000	0.000	1404.20	
17	0.7198	1172.1	1192.8	1191.7	1.111	3.149	70.934	21.219	3.118	0.135	0.284	0.021	0.020	0.010	0.000	0.000	0.000	0.000	1405.94	
18	0.7197	1170.4	1191.1	1189.9	1.068	3.303	70.936	21.047	3.195	0.131	0.273	0.019	0.019	0.010	0.000	0.000	0.000	0.000	1404.07	
19	0.7173	1168.9	1189.6	1188.5	0.993	3.283	71.204	20.996	3.092	0.125	0.260	0.019	0.018	0.009	0.000	0.000	0.000	0.000	1404.62	
20	0.7227	1172.3	1193.0	1191.7	1.177	3.308	70.613	21.073	3.366	0.138	0.279	0.019	0.018	0.010	0.000	0.000	0.000	0.000	1403.36	
21	0.7243	1176.0	1196.9	1195.5	1.218	3.162	70.490	21.222	3.396	0.149	0.308	0.022	0.021	0.011	0.000	0.000	0.000	0.000	1406.33	
22	0.7247	1175.0	1195.8	1194.7	1.224	3.256	70.413	21.215	3.353	0.154	0.325	0.024	0.024	0.012	0.000	0.000	0.000	0.000	1404.69	
23	0.7247	1173.0	1193.7	1192.3	1.281	3.291	70.468	21.034	3.417	0.150	0.306	0.022	0.020	0.011	0.000	0.000	0.000	0.000	1402.29	
24	0.7258	1175.0	1195.8	1194.3	1.255	3.319	70.349	21.009	3.551	0.152	0.313	0.022	0.020	0.011	0.000	0.000	0.000	0.000	1403.53	
25	0.7236	1172.6	1193.4	1192.1	1.228	3.293	70.623	20.932	3.419	0.148	0.307	0.021	0.020	0.010	0.000	0.000	0.000	0.000	1402.89	
26	0.7236	1174.4	1195.2	1194.2	1.189	3.241	70.571	21.087	3.416	0.144	0.301	0.021	0.020	0.010	0.000	0.000	0.000	0.000	1405.06	
27	0.7291	1178.2	1199.1	1197.9	1.291	3.370	69.830	21.305	3.695	0.150	0.307	0.022	0.019	0.010	0.000	0.000	0.000	0.000	1404.29	
28	0.7257	1176.1	1197.0	1196.0	1.254	3.232	70.208	21.380	3.448	0.141	0.288	0.020	0.019	0.010	0.000	0.000	0.000	0.000	1405.12	
29	0.7232	1172.8	1193.6	1192.6	1.245	3.218	70.676	20.969	3.411	0.141	0.291	0.020	0.019	0.010	0.000	0.000	0.000	0.000	1403.50	
30	0.7208	1172.3	1193.1	1192.0	1.184	3.119	71.094	20.750	3.359	0.142	0.299	0.022	0.022	0.010	0.000	0.000	0.000	0.000	1405.20	
31	0.7233	1173.7	1194.4	1193.4	1.226	3.200	70.623	21.101	3.353	0.145	0.300	0.022	0.020	0.010	0.000	0.000	0.000	0.000	1404.47	
Avg	0.7231	1173.0	1193.6	1192.4	1.187	3.285	70.591	21.095	3.357	0.141	0.293	0.021	0.020	0.010	0.000	0.000	0.000	0.000	1403.69	

Source Daily Summary

August 2024

Source #: 571
Name: WILLISTON BDR-CHARBN STN

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	0.7087	1165.7	1186.3	1185.5	0.975	2.695	72.687	20.473	2.739	0.118	0.265	0.020	0.024	0.003	0.000	0.000	0.000	0.000	1409.24	
2	0.7066	1162.3	1182.9	1182.0	0.952	2.741	73.053	20.118	2.706	0.118	0.266	0.020	0.024	0.003	0.000	0.000	0.000	0.000	1407.22	
3	0.7055	1159.6	1180.2	1179.5	0.951	2.807	73.119	20.086	2.635	0.110	0.249	0.018	0.021	0.003	0.000	0.000	0.000	0.000	1405.03	
4	0.7057	1159.4	1179.9	1179.2	0.953	2.836	73.100	20.056	2.660	0.110	0.245	0.018	0.021	0.002	0.000	0.000	0.000	0.000	1404.54	
5	0.7066	1161.5	1182.0	1181.4	0.961	2.785	72.933	20.250	2.676	0.110	0.245	0.018	0.020	0.003	0.000	0.000	0.000	0.000	1406.14	
6	0.7085	1167.9	1188.6	1187.8	1.000	2.504	72.586	20.894	2.619	0.110	0.244	0.018	0.021	0.002	0.000	0.000	0.000	0.000	1412.13	
7	0.7083	1163.9	1184.5	1183.9	0.969	2.782	72.668	20.445	2.734	0.112	0.248	0.018	0.021	0.003	0.000	0.000	0.000	0.000	1407.43	
8	0.7091	1165.4	1186.0	1185.4	0.985	2.741	72.536	20.612	2.717	0.113	0.253	0.018	0.021	0.003	0.000	0.000	0.000	0.000	1408.43	
9	0.7060	1161.9	1182.5	1181.9	0.989	2.653	73.012	20.372	2.588	0.107	0.239	0.017	0.020	0.003	0.000	0.000	0.000	0.000	1407.34	
10	0.7074	1163.2	1183.8	1183.2	0.963	2.748	72.836	20.339	2.713	0.112	0.248	0.018	0.021	0.003	0.000	0.000	0.000	0.000	1407.47	
11	0.7075	1161.7	1182.2	1181.6	0.959	2.853	72.885	20.125	2.757	0.116	0.260	0.019	0.022	0.003	0.000	0.000	0.000	0.000	1405.55	
12	0.7098	1166.5	1187.2	1186.5	0.958	2.779	72.459	20.577	2.811	0.116	0.257	0.019	0.022	0.003	0.000	0.000	0.000	0.000	1409.11	
13	0.7088	1163.4	1184.0	1183.2	0.962	2.866	72.660	20.291	2.802	0.117	0.259	0.019	0.022	0.002	0.000	0.000	0.000	0.000	1406.33	
14	0.7075	1162.7	1183.3	1182.6	0.962	2.780	72.804	20.266	2.768	0.115	0.251	0.018	0.021	0.002	0.000	0.000	0.000	0.000	1406.83	
15	0.7076	1164.1	1184.7	1184.0	0.970	2.703	72.757	20.492	2.683	0.111	0.244	0.017	0.020	0.002	0.000	0.000	0.000	0.000	1408.34	
16	0.7082	1165.5	1186.2	1185.5	0.980	2.658	72.654	20.626	2.689	0.111	0.243	0.018	0.020	0.002	0.000	0.000	0.000	0.000	1409.47	
17	0.7086	1167.3	1188.0	1187.3	0.984	2.579	72.518	20.908	2.623	0.109	0.240	0.017	0.020	0.002	0.000	0.000	0.000	0.000	1411.26	
18	0.7085	1165.6	1186.2	1185.5	0.969	2.692	72.662	20.546	2.719	0.115	0.256	0.019	0.022	0.002	0.000	0.000	0.000	0.000	1409.33	
19	0.7076	1165.1	1185.8	1185.0	0.975	2.627	72.835	20.451	2.702	0.114	0.252	0.019	0.022	0.002	0.000	0.000	0.000	0.000	1409.65	
20	0.7088	1169.3	1190.0	1189.1	1.014	2.431	72.628	20.848	2.663	0.115	0.255	0.020	0.023	0.002	0.000	0.000	0.000	0.000	1413.43	
21	0.7090	1164.3	1184.9	1184.0	1.019	2.744	72.699	20.325	2.780	0.120	0.267	0.020	0.023	0.002	0.000	0.000	0.000	0.000	1407.21	
22	0.7081	1169.9	1190.6	1189.8	1.012	2.333	72.996	20.447	2.741	0.126	0.285	0.024	0.030	0.007	0.000	0.000	0.000	0.000	1414.82	
23	0.7060	1164.1	1184.7	1183.8	1.003	2.502	73.211	20.179	2.686	0.116	0.258	0.020	0.023	0.003	0.000	0.000	0.000	0.000	1409.92	
24	0.7078	1164.1	1184.7	1184.0	0.977	2.699	72.983	20.063	2.844	0.121	0.268	0.019	0.023	0.002	0.000	0.000	0.000	0.000	1408.27	
25	0.7066	1162.7	1183.3	1182.6	0.983	2.668	73.092	20.093	2.752	0.116	0.255	0.018	0.021	0.002	0.000	0.000	0.000	0.000	1407.74	
26	0.7063	1161.3	1181.9	1181.2	0.979	2.739	73.079	20.078	2.725	0.113	0.248	0.018	0.020	0.002	0.000	0.000	0.000	0.000	1406.24	
27	0.7058	1165.8	1186.4	1185.6	1.013	2.364	73.060	20.639	2.542	0.108	0.234	0.018	0.020	0.003	0.000	0.000	0.000	0.000	1412.22	
28	0.7047	1164.8	1185.4	1184.8	1.007	2.325	73.255	20.523	2.511	0.107	0.231	0.017	0.020	0.003	0.000	0.000	0.000	0.000	1412.16	
29	0.7045	1163.6	1184.3	1183.6	1.007	2.382	73.277	20.445	2.509	0.107	0.232	0.017	0.020	0.003	0.000	0.000	0.000	0.000	1410.91	
30	0.7044	1163.0	1183.6	1182.9	1.003	2.415	73.376	20.250	2.563	0.110	0.241	0.018	0.021	0.003	0.000	0.000	0.000	0.000	1410.26	
31	0.7052	1164.3	1185.0	1184.3	1.006	2.402	73.208	20.433	2.567	0.108	0.235	0.017	0.020	0.003	0.000	0.000	0.000	0.000	1411.10	
Avg	0.7072	1164.0	1184.8	1184.1	0.982	2.640	72.891	20.395	2.685	0.113	0.251	0.019	0.022	0.003	0.000	0.000	0.000	0.000	1408.88	

Source Daily Summary

August 2024

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

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	0.7482	1171.1	1191.8	1191.3	0.911	6.160	67.483	19.190	5.477	0.214	0.489	0.032	0.036	0.009	0.000	0.000	0.000	0.000	1377.96	18.01
2	0.7413	1169.5	1190.2	1189.7	0.941	5.572	68.267	19.647	4.855	0.189	0.452	0.031	0.037	0.010	0.000	0.000	0.000	0.000	1382.38	14.43
3	0.7370	1167.7	1188.4	1187.9	0.943	5.280	68.885	19.583	4.618	0.183	0.433	0.030	0.036	0.009	0.000	0.000	0.000	0.000	1384.20	12.50
4	0.7426	1172.7	1193.4	1193.0	0.936	5.513	67.793	20.243	4.916	0.166	0.374	0.024	0.027	0.006	0.000	0.000	0.000	0.000	1384.91	12.93
5	0.7349	1166.5	1187.2	1186.7	0.920	5.187	69.019	19.761	4.506	0.168	0.376	0.026	0.030	0.007	0.000	0.000	0.000	0.000	1384.91	9.98
6	0.7493	1178.5	1199.4	1198.9	0.932	5.780	66.975	20.290	5.360	0.189	0.412	0.026	0.030	0.007	0.000	0.000	0.000	0.000	1385.72	16.56
7	0.7584	1189.0	1210.1	1209.6	0.927	6.002	65.837	20.574	5.888	0.217	0.479	0.031	0.036	0.009	0.000	0.000	0.000	0.000	1389.53	21.95
8	0.7562	1186.6	1207.6	1207.1	0.925	5.952	66.324	20.119	5.886	0.216	0.503	0.031	0.036	0.009	0.000	0.000	0.000	0.000	1388.66	21.61
9	0.7560	1181.7	1202.6	1202.1	0.915	6.242	66.358	19.718	6.007	0.211	0.484	0.028	0.031	0.007	0.000	0.000	0.000	0.000	1383.13	20.93
10	0.7363	1171.3	1192.1	1191.6	0.943	4.995	68.758	20.256	4.396	0.173	0.409	0.028	0.034	0.008	0.000	0.000	0.000	0.000	1389.24	11.24
11	0.7505	1176.5	1197.3	1196.9	0.909	6.056	67.069	19.577	5.678	0.200	0.449	0.026	0.029	0.007	0.000	0.000	0.000	0.000	1382.08	18.10
12	0.7528	1178.9	1199.8	1199.3	0.918	6.114	66.677	19.802	5.789	0.199	0.443	0.025	0.028	0.006	0.000	0.000	0.000	0.000	1382.76	18.83
13	0.7486	1176.2	1197.0	1196.6	0.924	5.872	67.219	19.857	5.433	0.199	0.434	0.026	0.030	0.007	0.000	0.000	0.000	0.000	1383.54	16.90
14	0.7578	1181.8	1202.7	1202.2	0.908	6.420	66.064	19.704	6.154	0.218	0.473	0.025	0.028	0.006	0.000	0.000	0.000	0.000	1381.55	21.33
15	0.7566	1183.0	1204.0	1203.5	0.916	6.217	66.188	19.939	5.995	0.213	0.470	0.026	0.029	0.006	0.000	0.000	0.000	0.000	1384.18	20.79
16	0.7584	1182.6	1203.6	1203.1	0.909	6.421	65.908	19.885	6.138	0.216	0.467	0.024	0.027	0.006	0.000	0.000	0.000	0.000	1382.04	21.27
17	0.7591	1182.7	1203.7	1203.2	0.915	6.473	65.768	19.997	6.069	0.231	0.490	0.024	0.027	0.006	0.000	0.000	0.000	0.000	1381.48	21.56
18	0.7450	1175.3	1196.2	1195.7	0.937	5.564	67.501	20.367	4.964	0.191	0.417	0.024	0.028	0.007	0.000	0.000	0.000	0.000	1385.94	14.42
19	0.7558	1178.6	1199.5	1199.0	0.914	6.414	66.095	19.991	5.902	0.209	0.426	0.021	0.023	0.005	0.000	0.000	0.000	0.000	1379.72	19.11
20	0.7542	1176.9	1197.8	1197.2	0.923	6.358	66.289	19.998	5.733	0.209	0.442	0.021	0.023	0.005	0.000	0.000	0.000	0.000	1379.20	18.34
21	0.7541	1179.1	1200.0	1199.5	0.927	6.210	66.283	20.209	5.658	0.210	0.456	0.021	0.023	0.003	0.000	0.000	0.000	0.000	1381.83	18.38
22	0.7575	1180.0	1200.8	1200.3	0.920	6.481	65.875	20.044	5.953	0.218	0.462	0.020	0.022	0.004	0.000	0.000	0.000	0.000	1379.76	20.04
23	0.7556	1178.4	1199.2	1198.8	0.926	6.387	66.129	20.034	5.802	0.216	0.458	0.020	0.022	0.004	0.000	0.000	0.000	0.000	1379.68	19.16
24	0.7493	1179.0	1199.9	1199.4	0.944	5.738	67.088	20.159	5.344	0.208	0.458	0.025	0.029	0.007	0.000	0.000	0.000	0.000	1386.16	17.22
25	0.7563	1181.5	1202.4	1201.9	0.934	6.254	66.042	20.225	5.821	0.216	0.461	0.021	0.023	0.005	0.000	0.000	0.000	0.000	1382.64	19.62
26	0.7554	1179.6	1200.5	1200.0	0.933	6.287	66.016	20.345	5.767	0.188	0.413	0.021	0.024	0.005	0.000	0.000	0.000	0.000	1381.27	18.50
27	0.7551	1175.0	1195.8	1195.3	0.929	6.551	66.012	20.111	5.736	0.192	0.421	0.020	0.022	0.004	0.000	0.000	0.000	0.000	1376.09	18.06
28	0.7555	1177.8	1198.6	1198.2	0.929	6.414	66.024	20.212	5.724	0.198	0.442	0.024	0.027	0.006	0.000	0.000	0.000	0.000	1379.07	18.92
29	0.7520	1172.3	1193.1	1192.6	0.933	6.416	66.388	20.123	5.508	0.183	0.401	0.021	0.023	0.005	0.000	0.000	0.000	0.000	1375.85	16.36
30	0.7532	1175.2	1196.0	1195.5	0.936	6.344	66.208	20.336	5.537	0.182	0.406	0.021	0.024	0.005	0.000	0.000	0.000	0.000	1378.18	16.95
31	0.7603	1182.4	1203.3	1202.8	0.930	6.588	65.254	20.553	5.996	0.194	0.425	0.025	0.028	0.007	0.000	0.000	0.000	0.000	1379.97	20.72
Avg	0.7517	1178.0	1198.5	1198.0	0.926	6.073	66.703	20.027	5.568	0.200	0.443	0.025	0.028	0.006	0.000	0.000	0.000	0.000	1382.37	17.89

Source Daily Summary

August 2024

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

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	0.7529	1173.5	1194.3	1193.3	0.916	6.437	66.809	19.288	5.757	0.223	0.497	0.031	0.035	0.008	0.000	0.000	0.000	0.000	1376.44	
2	0.7495	1168.9	1189.6	1188.7	0.912	6.415	67.537	18.634	5.625	0.230	0.555	0.038	0.044	0.011	0.000	0.000	0.000	0.000	1374.10	
3	0.7513	1168.9	1189.6	1188.9	0.913	6.580	67.150	18.806	5.711	0.225	0.528	0.035	0.040	0.011	0.000	0.000	0.000	0.000	1372.45	
4	0.7519	1172.4	1193.2	1192.7	0.918	6.422	66.837	19.387	5.672	0.217	0.480	0.029	0.032	0.008	0.000	0.000	0.000	0.000	1376.00	
5	0.7515	1174.8	1195.6	1195.2	0.920	6.232	66.653	19.955	5.576	0.192	0.414	0.025	0.028	0.006	0.000	0.000	0.000	0.000	1379.24	
6	0.7546	1178.3	1199.2	1198.5	0.922	6.308	66.200	20.142	5.766	0.193	0.414	0.024	0.026	0.006	0.000	0.000	0.000	0.000	1380.41	
7	0.7589	1185.9	1206.9	1206.5	0.923	6.250	65.716	20.367	6.004	0.215	0.459	0.028	0.031	0.007	0.000	0.000	0.000	0.000	1385.41	
8	0.7636	1195.0	1216.2	1215.7	0.919	6.137	65.342	20.433	6.314	0.232	0.537	0.035	0.041	0.010	0.000	0.000	0.000	0.000	1391.73	
9	0.7582	1184.0	1205.0	1204.5	0.915	6.301	66.132	19.699	6.159	0.219	0.506	0.029	0.032	0.008	0.000	0.000	0.000	0.000	1383.84	
10	0.7593	1185.4	1206.4	1205.8	0.915	6.323	65.974	19.763	6.228	0.221	0.508	0.029	0.032	0.007	0.000	0.000	0.000	0.000	1384.44	
11	0.7569	1179.7	1200.5	1200.0	0.911	6.452	66.226	19.550	6.107	0.212	0.479	0.026	0.030	0.006	0.000	0.000	0.000	0.000	1379.98	
12	0.7570	1179.5	1200.3	1199.7	0.911	6.483	66.133	19.620	6.136	0.205	0.455	0.024	0.027	0.006	0.000	0.000	0.000	0.000	1379.57	
13	0.7568	1179.8	1200.7	1200.0	0.913	6.436	66.157	19.694	6.069	0.213	0.460	0.025	0.027	0.006	0.000	0.000	0.000	0.000	1380.17	
14	0.7597	1184.9	1205.9	1205.3	0.909	6.406	65.808	19.858	6.257	0.221	0.480	0.026	0.029	0.006	0.000	0.000	0.000	0.000	1383.48	
15	0.7580	1182.1	1203.0	1202.3	0.917	6.404	66.012	19.796	6.124	0.217	0.472	0.025	0.028	0.006	0.000	0.000	0.000	0.000	1381.76	
16	0.7582	1182.5	1203.4	1202.8	0.906	6.417	65.945	19.848	6.151	0.212	0.463	0.024	0.027	0.006	0.000	0.000	0.000	0.000	1382.03	
17	0.7586	1183.4	1204.4	1203.8	0.915	6.381	65.859	20.030	6.038	0.229	0.490	0.025	0.028	0.006	0.000	0.000	0.000	0.000	1382.79	
18	0.7563	1178.3	1199.2	1198.4	0.915	6.474	66.117	19.828	5.939	0.219	0.457	0.022	0.024	0.005	0.000	0.000	0.000	0.000	1378.96	
19	0.7561	1177.2	1198.1	1197.3	0.910	6.529	66.078	19.869	5.898	0.215	0.450	0.022	0.024	0.005	0.000	0.000	0.000	0.000	1377.87	
20	0.7592	1183.7	1204.6	1203.9	0.916	6.421	65.717	20.098	6.110	0.222	0.465	0.022	0.025	0.005	0.000	0.000	0.000	0.000	1382.54	
21	0.7564	1179.5	1200.4	1199.6	0.923	6.406	65.998	20.093	5.859	0.216	0.460	0.020	0.022	0.003	0.000	0.000	0.000	0.000	1380.17	
22	0.7554	1177.4	1198.2	1197.5	0.920	6.446	66.118	19.997	5.815	0.211	0.446	0.020	0.022	0.004	0.000	0.000	0.000	0.000	1378.61	
23	0.7561	1179.0	1199.9	1199.1	0.926	6.395	66.034	20.102	5.831	0.214	0.451	0.020	0.022	0.004	0.000	0.000	0.000	0.000	1379.99	
24	0.7568	1181.3	1202.2	1201.3	0.929	6.317	66.038	20.092	5.869	0.223	0.481	0.022	0.024	0.005	0.000	0.000	0.000	0.000	1381.94	
25	0.7561	1180.3	1201.2	1200.5	0.935	6.307	66.093	20.083	5.862	0.216	0.456	0.021	0.023	0.005	0.000	0.000	0.000	0.000	1381.45	
26	0.7566	1180.5	1201.4	1200.8	0.933	6.346	65.919	20.254	5.871	0.200	0.429	0.020	0.023	0.005	0.000	0.000	0.000	0.000	1381.20	
27	0.7545	1176.4	1197.2	1196.6	0.928	6.411	66.139	20.154	5.698	0.193	0.428	0.021	0.023	0.005	0.000	0.000	0.000	0.000	1378.26	
28	0.7575	1177.9	1198.8	1198.3	0.930	6.590	65.700	20.230	5.872	0.195	0.432	0.022	0.024	0.005	0.000	0.000	0.000	0.000	1377.37	
29	0.7567	1176.0	1196.8	1196.3	0.929	6.636	65.788	20.161	5.810	0.196	0.429	0.021	0.024	0.006	0.000	0.000	0.000	0.000	1375.84	
30	0.7498	1169.1	1189.8	1189.2	0.938	6.395	66.620	20.116	5.323	0.175	0.386	0.020	0.022	0.005	0.000	0.000	0.000	0.000	1374.11	
31	0.7590	1181.2	1202.1	1201.6	0.929	6.538	65.499	20.386	5.963	0.195	0.433	0.024	0.027	0.006	0.000	0.000	0.000	0.000	1379.79	
Avg	0.7562	1179.0	1200.1	1199.5	0.920	6.406	66.140	19.882	5.917	0.212	0.464	0.025	0.028	0.006	0.000	0.000	0.000	0.000	1380.06	

Source Daily Summary

August 2024

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

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	0.7549	1174.2	1195.0	1194.4	0.919	6.589	66.486	19.326	5.880	0.227	0.501	0.031	0.034	0.006	0.000	0.000	0.000	0.000	1375.37	
2	0.7549	1173.1	1193.8	1193.2	0.920	6.654	66.572	19.117	5.910	0.228	0.519	0.034	0.039	0.007	0.000	0.000	0.000	0.000	1374.06	
3	0.7519	1168.3	1189.0	1188.4	0.919	6.664	67.214	18.504	5.807	0.245	0.560	0.037	0.042	0.008	0.000	0.000	0.000	0.000	1371.19	
4	0.7545	1174.9	1195.7	1195.1	0.920	6.509	66.360	19.677	5.805	0.210	0.456	0.027	0.031	0.006	0.000	0.000	0.000	0.000	1376.55	
5	0.7556	1177.4	1198.2	1197.7	0.921	6.460	66.092	19.988	5.854	0.201	0.428	0.025	0.027	0.004	0.000	0.000	0.000	0.000	1378.47	
6	0.7573	1180.8	1201.7	1201.2	0.923	6.410	65.869	20.147	5.949	0.208	0.437	0.025	0.027	0.003	0.000	0.000	0.000	0.000	1380.91	
7	0.7619	1189.3	1210.4	1209.8	0.924	6.314	65.379	20.426	6.168	0.227	0.492	0.030	0.034	0.005	0.000	0.000	0.000	0.000	1386.68	
8	0.7636	1192.6	1213.8	1213.2	0.923	6.277	65.393	20.166	6.376	0.238	0.544	0.035	0.040	0.008	0.000	0.000	0.000	0.000	1388.96	
9	0.7615	1187.0	1208.0	1207.4	0.919	6.430	65.721	19.720	6.378	0.233	0.530	0.030	0.034	0.006	0.000	0.000	0.000	0.000	1384.29	
10	0.7590	1181.1	1202.0	1201.5	0.915	6.556	65.978	19.522	6.247	0.221	0.498	0.028	0.031	0.005	0.000	0.000	0.000	0.000	1379.74	
11	0.7588	1180.4	1201.3	1200.7	0.916	6.586	65.906	19.609	6.248	0.212	0.468	0.025	0.028	0.004	0.000	0.000	0.000	0.000	1379.01	
12	0.7583	1180.0	1200.9	1200.3	0.918	6.554	65.972	19.635	6.172	0.221	0.472	0.025	0.027	0.003	0.000	0.000	0.000	0.000	1379.09	
13	0.7606	1184.0	1205.0	1204.4	0.915	6.527	65.694	19.781	6.313	0.227	0.484	0.026	0.029	0.003	0.000	0.000	0.000	0.000	1381.72	
14	0.7598	1182.9	1203.8	1203.2	0.917	6.524	65.792	19.737	6.262	0.228	0.483	0.026	0.028	0.003	0.000	0.000	0.000	0.000	1381.04	
15	0.7603	1183.6	1204.6	1204.0	0.909	6.536	65.692	19.805	6.309	0.220	0.474	0.025	0.028	0.003	0.000	0.000	0.000	0.000	1381.48	
16	0.7597	1183.3	1204.3	1203.7	0.910	6.494	65.780	19.827	6.219	0.230	0.483	0.025	0.028	0.003	0.000	0.000	0.000	0.000	1381.68	
17	0.7574	1178.5	1199.3	1198.7	0.919	6.560	65.957	19.838	5.978	0.225	0.470	0.023	0.026	0.003	0.000	0.000	0.000	0.000	1378.14	
18	0.7582	1179.1	1200.0	1199.4	0.916	6.613	65.807	19.865	6.079	0.222	0.451	0.021	0.023	0.002	0.000	0.000	0.000	0.000	1378.03	
19	0.7561	1177.2	1198.1	1197.3	0.910	6.529	66.078	19.869	5.898	0.215	0.450	0.022	0.024	0.005	0.000	0.000	0.000	0.000	1377.87	
20	0.7592	1183.7	1204.6	1203.9	0.916	6.421	65.717	20.098	6.110	0.222	0.465	0.022	0.025	0.005	0.000	0.000	0.000	0.000	1382.54	
21	0.7564	1179.5	1200.4	1199.6	0.923	6.406	65.998	20.093	5.859	0.216	0.460	0.020	0.022	0.003	0.000	0.000	0.000	0.000	1380.17	
22	0.7554	1177.4	1198.2	1197.5	0.920	6.446	66.118	19.997	5.815	0.211	0.446	0.020	0.022	0.004	0.000	0.000	0.000	0.000	1378.61	
23	0.7561	1179.0	1199.9	1199.1	0.926	6.395	66.034	20.102	5.831	0.214	0.451	0.020	0.022	0.004	0.000	0.000	0.000	0.000	1379.99	
24	0.7568	1181.3	1202.2	1201.3	0.929	6.317	66.038	20.092	5.869	0.223	0.481	0.022	0.024	0.005	0.000	0.000	0.000	0.000	1381.94	
25	0.7561	1180.3	1201.2	1200.5	0.935	6.307	66.093	20.083	5.862	0.216	0.456	0.021	0.023	0.005	0.000	0.000	0.000	0.000	1381.45	
26	0.7566	1180.5	1201.4	1200.8	0.933	6.346	65.919	20.254	5.871	0.200	0.429	0.020	0.023	0.005	0.000	0.000	0.000	0.000	1381.20	
27	0.7545	1176.4	1197.2	1196.6	0.928	6.411	66.139	20.154	5.698	0.193	0.428	0.021	0.023	0.005	0.000	0.000	0.000	0.000	1378.26	
28	0.7575	1177.9	1198.8	1198.3	0.930	6.590	65.700	20.230	5.872	0.195	0.432	0.022	0.024	0.005	0.000	0.000	0.000	0.000	1377.37	
29	0.7588	1177.6	1198.4	1197.9	0.932	6.734	65.493	20.183	5.987	0.198	0.427	0.021	0.022	0.002	0.000	0.000	0.000	0.000	1375.77	
30	0.7592	1178.7	1199.6	1199.0	0.933	6.702	65.472	20.196	6.018	0.198	0.432	0.022	0.024	0.003	0.000	0.000	0.000	0.000	1376.71	
31	0.7620	1184.6	1205.6	1205.0	0.937	6.596	65.024	20.688	6.050	0.203	0.440	0.027	0.030	0.005	0.000	0.000	0.000	0.000	1381.09	
Avg	0.7578	1180.0	1201.0	1200.4	0.922	6.499	65.919	19.894	6.022	0.217	0.469	0.025	0.028	0.004	0.000	0.000	0.000	0.000	1379.66	

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			
Totals	100.0000	4.6490	100.0000

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

August 2024

Source #: 603
Name: TIOGA STN-COUNTY LINE 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	0.7232	1167.8	1188.5	1187.9	0.962	3.955	70.527	20.487	3.535	0.137	0.331	0.026	0.032	0.009	0.000	0.000	0.000	0.000	1397.45	
2	0.7229	1168.0	1188.6	1188.1	0.981	3.884	70.643	20.475	3.425	0.146	0.365	0.031	0.039	0.011	0.000	0.000	0.000	0.000	1397.96	
3	0.7225	1165.4	1186.1	1185.6	0.989	3.984	70.499	20.632	3.399	0.126	0.308	0.024	0.030	0.009	0.000	0.000	0.000	0.000	1395.42	
4	0.7219	1164.7	1185.3	1184.8	0.967	4.014	70.590	20.506	3.435	0.125	0.303	0.024	0.029	0.008	0.000	0.000	0.000	0.000	1395.03	
5	0.7203	1161.8	1182.4	1181.9	0.968	4.038	70.692	20.571	3.271	0.119	0.284	0.022	0.027	0.007	0.000	0.000	0.000	0.000	1393.12	
6	0.7217	1166.4	1187.1	1186.6	0.970	3.884	70.637	20.654	3.330	0.134	0.324	0.026	0.033	0.009	0.000	0.000	0.000	0.000	1397.33	
7	0.7204	1163.0	1183.6	1183.1	0.967	3.975	70.838	20.448	3.217	0.142	0.343	0.027	0.034	0.009	0.000	0.000	0.000	0.000	1394.45	
8	0.7189	1160.9	1181.4	1180.9	0.970	3.960	70.882	20.646	3.021	0.133	0.322	0.026	0.032	0.009	0.000	0.000	0.000	0.000	1393.37	
9	0.7221	1163.7	1184.3	1183.8	0.969	4.083	70.529	20.602	3.260	0.141	0.345	0.028	0.034	0.009	0.000	0.000	0.000	0.000	1393.74	
10	0.7217	1164.0	1184.6	1184.1	0.965	4.038	70.479	20.812	3.165	0.138	0.334	0.027	0.034	0.010	0.000	0.000	0.000	0.000	1394.44	
11	0.7167	1156.7	1177.2	1176.7	0.958	4.022	71.367	20.061	3.065	0.136	0.325	0.026	0.032	0.009	0.000	0.000	0.000	0.000	1390.55	
12	0.7156	1155.7	1176.2	1175.7	0.963	3.972	71.428	20.212	2.914	0.131	0.316	0.025	0.031	0.009	0.000	0.000	0.000	0.000	1390.41	
13	0.7150	1152.6	1173.0	1172.5	0.962	4.104	71.548	19.939	2.939	0.130	0.312	0.025	0.032	0.009	0.000	0.000	0.000	0.000	1387.27	
14	0.7183	1159.2	1179.7	1179.2	0.967	4.008	71.068	20.353	3.071	0.135	0.330	0.026	0.032	0.009	0.000	0.000	0.000	0.000	1391.95	
15	0.7190	1161.4	1181.9	1181.4	0.970	3.941	70.816	20.762	3.001	0.130	0.316	0.025	0.031	0.009	0.000	0.000	0.000	0.000	1393.85	
16	0.7173	1157.6	1178.1	1177.6	0.973	4.000	71.014	20.624	2.909	0.123	0.297	0.023	0.029	0.008	0.000	0.000	0.000	0.000	1391.05	
17	0.7156	1152.9	1173.3	1172.8	0.975	4.126	71.117	20.575	2.764	0.115	0.272	0.022	0.027	0.007	0.000	0.000	0.000	0.000	1387.03	
18	0.7204	1160.9	1181.4	1180.9	0.983	4.082	70.498	20.894	3.086	0.119	0.284	0.022	0.027	0.007	0.000	0.000	0.000	0.000	1391.92	
19	0.7222	1163.9	1184.5	1184.0	0.977	4.073	70.334	20.914	3.197	0.130	0.311	0.025	0.031	0.008	0.000	0.000	0.000	0.000	1393.84	
20	0.7221	1162.3	1182.9	1182.4	0.983	4.153	70.358	20.805	3.184	0.131	0.320	0.025	0.031	0.008	0.000	0.000	0.000	0.000	1392.00	
21	0.7204	1161.0	1181.6	1181.1	0.983	4.065	70.546	20.847	3.080	0.123	0.299	0.023	0.029	0.005	0.000	0.000	0.000	0.000	1392.17	
22	0.7188	1155.6	1176.1	1175.5	0.978	4.266	70.606	20.786	2.903	0.118	0.286	0.022	0.028	0.007	0.000	0.000	0.000	0.000	1387.10	
23	0.7183	1156.2	1176.7	1176.2	0.987	4.159	70.730	20.774	2.893	0.118	0.282	0.022	0.027	0.007	0.000	0.000	0.000	0.000	1388.42	
24	0.7210	1163.2	1183.8	1183.3	0.984	3.993	70.557	20.836	3.104	0.134	0.324	0.026	0.033	0.009	0.000	0.000	0.000	0.000	1394.15	
25	0.7222	1163.9	1184.5	1184.0	0.976	4.075	70.598	20.455	3.333	0.143	0.346	0.028	0.035	0.010	0.000	0.000	0.000	0.000	1393.78	
26	0.7222	1161.0	1181.6	1181.1	0.979	4.243	70.264	20.864	3.152	0.127	0.309	0.024	0.030	0.008	0.000	0.000	0.000	0.000	1390.41	
27	0.7179	1153.6	1174.0	1173.5	0.979	4.306	70.695	20.723	2.843	0.116	0.281	0.022	0.028	0.008	0.000	0.000	0.000	0.000	1385.57	
28	0.7222	1159.9	1180.4	1179.9	0.978	4.320	70.279	20.723	3.205	0.126	0.306	0.024	0.031	0.009	0.000	0.000	0.000	0.000	1389.05	
29	0.7228	1160.3	1180.8	1180.3	0.981	4.345	70.266	20.655	3.210	0.137	0.335	0.027	0.033	0.010	0.000	0.000	0.000	0.000	1388.90	
30	0.7190	1154.0	1174.4	1173.9	0.981	4.369	70.755	20.411	2.972	0.129	0.316	0.026	0.033	0.010	0.000	0.000	0.000	0.000	1385.06	
31	0.7257	1167.4	1188.1	1187.6	0.978	4.183	70.112	20.628	3.498	0.151	0.372	0.030	0.037	0.011	0.000	0.000	0.000	0.000	1394.68	
Avg	0.7203	1161.0	1181.4	1180.8	0.974	4.084	70.686	20.602	3.141	0.130	0.316	0.025	0.031	0.009	0.000	0.000	0.000	0.000	1391.98	

Source Daily Summary

August 2024

Source #: 043
Name: BISMARCK STN-CLEVELAND STN

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	0.7528	1174.5	1195.3	1194.3	0.879	6.436	66.964	19.007	5.878	0.231	0.530	0.031	0.034	0.009	0.000	0.000	0.000	0.000	1377.62	
2	0.7545	1176.6	1197.4	1196.5	0.881	6.467	66.820	18.957	6.006	0.233	0.553	0.035	0.038	0.011	0.000	0.000	0.000	0.000	1378.48	
3	0.7509	1170.5	1191.2	1190.4	0.879	6.499	67.577	18.250	5.837	0.254	0.608	0.039	0.043	0.014	0.000	0.000	0.000	0.000	1374.63	
4	0.7524	1175.2	1196.0	1195.2	0.879	6.354	66.765	19.478	5.786	0.210	0.467	0.026	0.027	0.007	0.000	0.000	0.000	0.000	1378.87	
5	0.7540	1178.8	1199.6	1198.7	0.883	6.286	66.418	19.868	5.851	0.199	0.439	0.024	0.025	0.007	0.000	0.000	0.000	0.000	1381.54	
6	0.7554	1181.6	1202.5	1201.5	0.886	6.240	66.278	19.936	5.952	0.206	0.447	0.024	0.026	0.007	0.000	0.000	0.000	0.000	1383.56	
7	0.7598	1189.6	1210.6	1209.5	0.887	6.166	65.768	20.226	6.164	0.225	0.494	0.029	0.031	0.009	0.000	0.000	0.000	0.000	1388.85	
8	0.7624	1194.6	1215.7	1214.7	0.880	6.107	65.681	20.052	6.403	0.238	0.557	0.034	0.037	0.011	0.000	0.000	0.000	0.000	1392.35	
9	0.7599	1188.4	1209.5	1208.4	0.876	6.258	66.078	19.533	6.415	0.231	0.541	0.029	0.031	0.008	0.000	0.000	0.000	0.000	1387.42	
10	0.7572	1182.2	1203.1	1202.1	0.873	6.391	66.355	19.315	6.278	0.220	0.507	0.026	0.028	0.007	0.000	0.000	0.000	0.000	1382.59	
11	0.7574	1182.3	1203.2	1202.2	0.873	6.401	66.251	19.431	6.292	0.214	0.481	0.024	0.025	0.007	0.000	0.000	0.000	0.000	1382.56	
12	0.7569	1182.0	1202.9	1201.9	0.875	6.373	66.308	19.464	6.216	0.222	0.485	0.024	0.026	0.007	0.000	0.000	0.000	0.000	1382.61	
13	0.7589	1185.5	1206.5	1205.5	0.872	6.351	66.066	19.583	6.345	0.227	0.496	0.025	0.027	0.007	0.000	0.000	0.000	0.000	1384.90	
14	0.7584	1184.8	1205.8	1204.8	0.877	6.337	66.125	19.589	6.287	0.229	0.497	0.025	0.026	0.007	0.000	0.000	0.000	0.000	1384.56	
15	0.7590	1185.9	1206.9	1205.9	0.869	6.341	66.007	19.672	6.340	0.222	0.491	0.024	0.026	0.007	0.000	0.000	0.000	0.000	1385.30	
16	0.7590	1186.0	1207.1	1206.1	0.872	6.328	65.983	19.765	6.255	0.234	0.507	0.024	0.026	0.007	0.000	0.000	0.000	0.000	1385.45	
17	0.7557	1179.7	1200.6	1199.6	0.878	6.397	66.298	19.681	5.994	0.224	0.479	0.021	0.022	0.006	0.000	0.000	0.000	0.000	1381.04	
18	0.7579	1182.6	1203.6	1202.5	0.873	6.427	66.041	19.720	6.187	0.226	0.477	0.021	0.022	0.006	0.000	0.000	0.000	0.000	1382.50	
19	0.7591	1185.6	1206.6	1205.4	0.880	6.353	65.911	19.838	6.240	0.232	0.494	0.022	0.023	0.006	0.000	0.000	0.000	0.000	1384.82	
20	0.7565	1182.1	1203.1	1201.9	0.886	6.306	66.160	19.898	6.000	0.224	0.480	0.019	0.020	0.005	0.000	0.000	0.000	0.000	1383.23	
21	0.7562	1180.8	1201.8	1200.6	0.884	6.362	66.186	19.845	5.968	0.225	0.484	0.020	0.021	0.006	0.000	0.000	0.000	0.000	1381.97	
22	0.7555	1179.9	1200.8	1199.6	0.885	6.356	66.254	19.820	5.956	0.219	0.466	0.019	0.019	0.005	0.000	0.000	0.000	0.000	1381.50	
23	0.7573	1183.7	1204.7	1203.6	0.889	6.282	66.122	19.867	6.059	0.231	0.501	0.021	0.022	0.006	0.000	0.000	0.000	0.000	1384.33	
24	0.7558	1181.6	1202.6	1201.4	0.897	6.256	66.293	19.831	5.974	0.224	0.481	0.019	0.020	0.005	0.000	0.000	0.000	0.000	1383.28	
25	0.7565	1182.3	1203.2	1202.1	0.895	6.289	66.075	20.047	5.980	0.211	0.457	0.020	0.021	0.005	0.000	0.000	0.000	0.000	1383.33	
26	0.7549	1180.1	1201.0	1200.0	0.895	6.266	66.223	20.083	5.851	0.195	0.436	0.021	0.022	0.006	0.000	0.000	0.000	0.000	1382.33	
27	0.7574	1180.1	1201.0	1200.0	0.894	6.509	65.829	20.092	5.975	0.200	0.450	0.021	0.023	0.006	0.000	0.000	0.000	0.000	1379.98	
28	0.7572	1178.8	1199.7	1198.8	0.892	6.563	65.899	19.950	5.984	0.206	0.456	0.021	0.022	0.006	0.000	0.000	0.000	0.000	1378.76	
29	0.7568	1178.5	1199.3	1198.4	0.869	6.587	65.921	19.918	6.023	0.189	0.446	0.020	0.021	0.006	0.000	0.000	0.000	0.000	1378.63	
30	0.7577	1180.5	1201.4	1200.4	0.892	6.514	65.816	20.043	6.038	0.198	0.447	0.022	0.023	0.006	0.000	0.000	0.000	0.000	1380.21	
31	0.7596	1184.8	1205.8	1204.7	0.896	6.421	65.489	20.456	6.035	0.198	0.441	0.027	0.029	0.008	0.000	0.000	0.000	0.000	1383.51	
Avg	0.7569	1182.0	1202.9	1201.8	0.882	6.362	66.192	19.717	6.083	0.219	0.487	0.024	0.026	0.007	0.000	0.000	0.000	0.000	1382.60	

Source Daily Summary

August 2024

Source #: 063
Name: CLEVELAND STN-MAPLETON

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	0.7528	1174.5	1195.3	1193.9	0.879	6.436	66.964	19.007	5.878	0.231	0.530	0.031	0.034	0.009	0.000	0.000	0.000	0.000	1377.62	
2	0.7545	1176.6	1197.4	1196.0	0.881	6.467	66.820	18.957	6.006	0.233	0.553	0.035	0.038	0.011	0.000	0.000	0.000	0.000	1378.48	
3	0.7509	1170.5	1191.2	1189.9	0.879	6.499	67.577	18.250	5.837	0.254	0.608	0.039	0.043	0.014	0.000	0.000	0.000	0.000	1374.63	
4	0.7524	1175.2	1196.0	1194.9	0.879	6.354	66.765	19.478	5.786	0.210	0.467	0.026	0.027	0.007	0.000	0.000	0.000	0.000	1378.87	
5	0.7540	1178.8	1199.6	1199.3	0.883	6.286	66.418	19.868	5.851	0.199	0.439	0.024	0.025	0.007	0.000	0.000	0.000	0.000	1381.54	
6	0.7554	1181.6	1202.5	1202.2	0.886	6.240	66.278	19.936	5.952	0.206	0.447	0.024	0.026	0.007	0.000	0.000	0.000	0.000	1383.56	
7	0.7598	1189.6	1210.6	1210.3	0.887	6.166	65.768	20.226	6.164	0.225	0.494	0.029	0.031	0.009	0.000	0.000	0.000	0.000	1388.85	
8	0.7624	1194.6	1215.7	1215.4	0.880	6.107	65.681	20.052	6.403	0.238	0.557	0.034	0.037	0.011	0.000	0.000	0.000	0.000	1392.35	
9	0.7599	1188.4	1209.5	1209.1	0.876	6.258	66.078	19.533	6.415	0.231	0.541	0.029	0.031	0.008	0.000	0.000	0.000	0.000	1387.42	
10	0.7572	1182.2	1203.1	1202.8	0.873	6.391	66.355	19.315	6.278	0.220	0.507	0.026	0.028	0.007	0.000	0.000	0.000	0.000	1382.59	
11	0.7574	1182.3	1203.2	1202.9	0.873	6.402	66.251	19.431	6.292	0.214	0.481	0.024	0.025	0.007	0.000	0.000	0.000	0.000	1382.55	
12	0.7569	1182.0	1202.9	1202.6	0.875	6.373	66.308	19.464	6.216	0.222	0.485	0.024	0.026	0.007	0.000	0.000	0.000	0.000	1382.61	
13	0.7589	1185.5	1206.5	1206.2	0.872	6.351	66.065	19.583	6.345	0.227	0.496	0.025	0.027	0.007	0.000	0.000	0.000	0.000	1384.90	
14	0.7584	1184.8	1205.8	1205.5	0.877	6.337	66.125	19.589	6.287	0.229	0.497	0.025	0.026	0.007	0.000	0.000	0.000	0.000	1384.56	
15	0.7590	1185.9	1206.9	1206.6	0.869	6.341	66.007	19.672	6.340	0.222	0.491	0.024	0.026	0.007	0.000	0.000	0.000	0.000	1385.30	
16	0.7590	1186.0	1207.1	1206.8	0.872	6.328	65.983	19.765	6.255	0.234	0.507	0.024	0.026	0.007	0.000	0.000	0.000	0.000	1385.45	
17	0.7557	1179.7	1200.6	1200.3	0.878	6.397	66.297	19.682	5.994	0.224	0.479	0.021	0.022	0.006	0.000	0.000	0.000	0.000	1381.04	
18	0.7579	1182.6	1203.6	1203.3	0.873	6.427	66.042	19.719	6.186	0.226	0.477	0.021	0.022	0.006	0.000	0.000	0.000	0.000	1382.50	
19	0.7591	1185.6	1206.6	1206.3	0.880	6.353	65.911	19.838	6.240	0.232	0.494	0.022	0.023	0.006	0.000	0.000	0.000	0.000	1384.82	
20	0.7568	1182.6	1203.5	1203.2	0.888	6.311	66.113	19.921	6.015	0.225	0.482	0.020	0.021	0.005	0.000	0.000	0.000	0.000	1383.39	
21	0.7591	1182.7	1203.7	1197.6	0.920	6.469	65.758	19.969	6.138	0.230	0.466	0.022	0.023	0.004	0.000	0.000	0.000	0.000	1381.49	
22	0.7559	1176.5	1197.4	1197.0	0.926	6.537	66.071	19.890	5.853	0.220	0.457	0.020	0.021	0.003	0.000	0.000	0.000	0.000	1377.17	
23	0.7570	1179.7	1200.6	1200.3	0.927	6.443	65.975	19.963	5.973	0.222	0.453	0.020	0.021	0.003	0.000	0.000	0.000	0.000	1379.92	
24	0.7568	1180.4	1201.3	1201.0	0.934	6.369	66.058	19.946	5.959	0.224	0.464	0.021	0.022	0.002	0.000	0.000	0.000	0.000	1380.91	
25	0.7579	1182.3	1203.3	1202.9	0.938	6.346	65.933	20.025	6.007	0.229	0.475	0.022	0.023	0.003	0.000	0.000	0.000	0.000	1382.19	
26	0.7575	1181.2	1202.2	1201.9	0.937	6.381	65.861	20.161	5.954	0.216	0.445	0.021	0.022	0.004	0.000	0.000	0.000	0.000	1381.25	
27	0.7560	1179.3	1200.2	1199.9	0.937	6.359	65.991	20.185	5.872	0.194	0.412	0.022	0.023	0.005	0.000	0.000	0.000	0.000	1380.35	
28	0.7577	1178.0	1198.8	1198.5	0.934	6.604	65.703	20.152	5.932	0.199	0.427	0.022	0.023	0.004	0.000	0.000	0.000	0.000	1377.24	
29	0.7583	1178.0	1198.9	1198.6	0.932	6.657	65.640	20.125	5.948	0.207	0.440	0.022	0.023	0.006	0.000	0.000	0.000	0.000	1376.79	
30	0.7567	1175.2	1196.0	1195.7	0.931	6.687	65.776	20.075	5.882	0.194	0.410	0.020	0.021	0.004	0.000	0.000	0.000	0.000	1374.87	
31	0.7584	1178.8	1199.7	1199.4	0.931	6.623	65.606	20.179	5.987	0.198	0.425	0.022	0.023	0.006	0.000	0.000	0.000	0.000	1377.59	
Avg	0.7571	1181.0	1202.2	1201.6	0.897	6.397	66.135	19.741	6.072	0.221	0.481	0.025	0.026	0.006	0.000	0.000	0.000	0.000	1381.70	

Source Daily Summary

August 2024

Source #: 061
Name: CLEVELAND STN-GRAFTON BDR

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	0.7528	1174.5	1195.3	1194.2	0.879	6.436	66.964	19.007	5.878	0.231	0.530	0.031	0.034	0.009	0.000	0.000	0.000	0.000	1377.62	
2	0.7545	1176.6	1197.4	1196.4	0.881	6.467	66.820	18.957	6.006	0.233	0.553	0.035	0.038	0.011	0.000	0.000	0.000	0.000	1378.48	
3	0.7509	1170.5	1191.2	1190.3	0.879	6.499	67.577	18.250	5.837	0.254	0.608	0.039	0.043	0.014	0.000	0.000	0.000	0.000	1374.63	
4	0.7524	1175.2	1196.0	1195.3	0.879	6.354	66.765	19.478	5.786	0.210	0.467	0.026	0.027	0.007	0.000	0.000	0.000	0.000	1378.87	
5	0.7540	1178.8	1199.7	1199.4	0.883	6.286	66.414	19.872	5.851	0.199	0.439	0.024	0.025	0.007	0.000	0.000	0.000	0.000	1381.56	
6	0.7554	1181.6	1202.5	1202.2	0.886	6.239	66.274	19.939	5.953	0.206	0.447	0.024	0.026	0.007	0.000	0.000	0.000	0.000	1383.60	
7	0.7598	1189.6	1210.6	1210.3	0.887	6.166	65.769	20.226	6.164	0.225	0.494	0.029	0.031	0.009	0.000	0.000	0.000	0.000	1388.85	
8	0.7624	1194.7	1215.8	1215.5	0.880	6.106	65.675	20.055	6.407	0.238	0.558	0.034	0.037	0.011	0.000	0.000	0.000	0.000	1392.43	
9	0.7599	1188.4	1209.5	1209.1	0.876	6.258	66.078	19.533	6.415	0.231	0.541	0.029	0.031	0.008	0.000	0.000	0.000	0.000	1387.42	
10	0.7572	1182.2	1203.1	1203.0	0.873	6.391	66.355	19.314	6.278	0.220	0.507	0.026	0.028	0.007	0.000	0.000	0.000	0.000	1382.59	
11	0.7574	1182.3	1203.3	1202.9	0.873	6.401	66.248	19.433	6.293	0.214	0.481	0.024	0.025	0.007	0.000	0.000	0.000	0.000	1382.58	
12	0.7569	1182.0	1202.9	1202.8	0.875	6.373	66.308	19.464	6.216	0.222	0.485	0.024	0.026	0.007	0.000	0.000	0.000	0.000	1382.61	
13	0.7589	1185.5	1206.5	1206.3	0.872	6.351	66.065	19.583	6.345	0.227	0.496	0.025	0.027	0.007	0.000	0.000	0.000	0.000	1384.90	
14	0.7584	1184.8	1205.8	1205.6	0.877	6.336	66.126	19.589	6.287	0.229	0.497	0.025	0.026	0.007	0.000	0.000	0.000	0.000	1384.57	
15	0.7590	1185.9	1206.9	1206.8	0.869	6.342	66.008	19.671	6.340	0.222	0.491	0.024	0.026	0.007	0.000	0.000	0.000	0.000	1385.28	
16	0.7590	1186.0	1207.0	1206.9	0.872	6.329	65.984	19.764	6.254	0.234	0.506	0.024	0.026	0.007	0.000	0.000	0.000	0.000	1385.44	
17	0.7557	1179.7	1200.6	1200.4	0.878	6.397	66.297	19.682	5.994	0.224	0.479	0.021	0.022	0.006	0.000	0.000	0.000	0.000	1381.04	
18	0.7579	1182.6	1203.6	1203.4	0.873	6.427	66.042	19.719	6.186	0.226	0.477	0.021	0.022	0.006	0.000	0.000	0.000	0.000	1382.50	
19	0.7593	1185.8	1206.8	1206.6	0.880	6.354	65.896	19.843	6.247	0.233	0.495	0.022	0.024	0.006	0.000	0.000	0.000	0.000	1384.90	
20	0.7566	1182.2	1203.2	1203.0	0.887	6.316	66.134	19.907	6.006	0.225	0.481	0.020	0.020	0.005	0.000	0.000	0.000	0.000	1383.16	
21	0.7653	1187.9	1208.9	1202.5	0.917	6.734	64.900	20.211	6.414	0.249	0.515	0.027	0.028	0.005	0.000	0.000	0.000	0.000	1381.95	
22	0.7569	1177.2	1198.1	1197.4	0.928	6.582	65.968	19.873	5.916	0.220	0.454	0.024	0.027	0.006	0.000	0.000	0.000	0.000	1377.11	
23	0.7564	1178.3	1199.2	1198.4	0.930	6.469	66.049	19.914	5.911	0.223	0.459	0.020	0.021	0.003	0.000	0.000	0.000	0.000	1378.83	
24	0.7566	1178.8	1199.6	1198.8	0.930	6.458	66.035	19.920	5.931	0.223	0.459	0.021	0.022	0.003	0.000	0.000	0.000	0.000	1379.18	
25	0.7573	1180.0	1200.9	1199.9	0.939	6.436	65.955	19.970	5.964	0.226	0.464	0.021	0.022	0.003	0.000	0.000	0.000	0.000	1379.98	
26	0.7575	1181.0	1201.9	1201.5	0.930	6.403	65.923	20.037	5.978	0.223	0.457	0.021	0.022	0.004	0.000	0.000	0.000	0.000	1380.97	
27	0.7563	1180.1	1201.0	1200.7	0.939	6.337	65.964	20.219	5.868	0.197	0.421	0.023	0.025	0.006	0.000	0.000	0.000	0.000	1380.98	
28	0.7576	1177.7	1198.6	1198.3	0.934	6.613	65.714	20.130	5.932	0.200	0.428	0.022	0.023	0.004	0.000	0.000	0.000	0.000	1377.01	
29	0.7596	1180.4	1201.3	1201.1	0.932	6.639	65.497	20.184	6.026	0.212	0.454	0.023	0.025	0.007	0.000	0.000	0.000	0.000	1378.31	
30	0.7573	1176.1	1197.0	1196.8	0.932	6.680	65.717	20.096	5.916	0.196	0.416	0.020	0.021	0.004	0.000	0.000	0.000	0.000	1375.48	
31	0.7589	1179.6	1200.5	1200.4	0.931	6.618	65.553	20.200	6.016	0.199	0.430	0.022	0.024	0.006	0.000	0.000	0.000	0.000	1378.11	
Avg	0.7574	1181.0	1202.4	1201.8	0.897	6.413	66.099	19.743	6.084	0.222	0.484	0.025	0.027	0.007	0.000	0.000	0.000	0.000	1381.64	

Source Daily Summary

August 2024

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

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	0.7529	1174.8	1195.6	1194.3	0.880	6.421	66.933	19.066	5.872	0.229	0.525	0.031	0.033	0.009	0.000	0.000	0.000	0.000	1377.96	
2	0.7542	1175.7	1196.5	1195.2	0.881	6.485	66.909	18.846	5.996	0.236	0.562	0.035	0.039	0.011	0.000	0.000	0.000	0.000	1377.82	
3	0.7509	1170.5	1191.2	1190.1	0.879	6.504	67.555	18.269	5.839	0.253	0.605	0.039	0.043	0.014	0.000	0.000	0.000	0.000	1374.62	
4	0.7522	1174.9	1195.7	1194.8	0.879	6.360	66.798	19.441	5.779	0.211	0.471	0.026	0.028	0.008	0.000	0.000	0.000	0.000	1378.64	
5	0.7541	1179.0	1199.9	1199.0	0.883	6.285	66.402	19.879	5.854	0.200	0.441	0.024	0.025	0.007	0.000	0.000	0.000	0.000	1381.67	
6	0.7551	1181.0	1202.0	1200.9	0.886	6.243	66.308	19.924	5.938	0.204	0.442	0.024	0.025	0.007	0.000	0.000	0.000	0.000	1383.23	
7	0.7596	1189.1	1210.1	1209.3	0.887	6.172	65.792	20.214	6.152	0.224	0.491	0.028	0.031	0.009	0.000	0.000	0.000	0.000	1388.51	
8	0.7628	1195.5	1216.7	1215.8	0.881	6.094	65.614	20.110	6.420	0.239	0.560	0.034	0.038	0.011	0.000	0.000	0.000	0.000	1393.02	
9	0.7598	1188.2	1209.3	1208.3	0.876	6.258	66.092	19.529	6.405	0.231	0.540	0.029	0.031	0.008	0.000	0.000	0.000	0.000	1387.30	
10	0.7574	1182.6	1203.5	1202.6	0.874	6.379	66.333	19.345	6.279	0.220	0.508	0.026	0.028	0.007	0.000	0.000	0.000	0.000	1382.94	
11	0.7574	1182.1	1203.0	1202.0	0.873	6.410	66.261	19.408	6.299	0.213	0.481	0.024	0.026	0.007	0.000	0.000	0.000	0.000	1382.37	
12	0.7569	1182.0	1202.9	1201.8	0.876	6.371	66.311	19.466	6.212	0.222	0.486	0.024	0.026	0.007	0.000	0.000	0.000	0.000	1382.62	
13	0.7592	1186.0	1207.0	1206.0	0.872	6.345	66.031	19.607	6.361	0.228	0.498	0.026	0.027	0.007	0.000	0.000	0.000	0.000	1385.28	
14	0.7588	1185.4	1206.4	1205.4	0.878	6.332	66.087	19.606	6.306	0.231	0.502	0.025	0.027	0.007	0.000	0.000	0.000	0.000	1384.96	
15	0.7590	1185.6	1206.6	1205.6	0.869	6.355	66.008	19.663	6.335	0.222	0.490	0.025	0.026	0.007	0.000	0.000	0.000	0.000	1384.99	
16	0.7589	1186.1	1207.1	1206.1	0.872	6.314	66.001	19.767	6.254	0.232	0.503	0.024	0.026	0.007	0.000	0.000	0.000	0.000	1385.60	
17	0.7560	1180.3	1201.2	1200.1	0.878	6.391	66.261	19.704	6.007	0.225	0.483	0.022	0.023	0.006	0.000	0.000	0.000	0.000	1381.44	
18	0.7576	1182.1	1203.1	1201.9	0.874	6.428	66.077	19.709	6.159	0.226	0.477	0.022	0.023	0.006	0.000	0.000	0.000	0.000	1382.21	
19	0.7592	1185.5	1206.5	1205.3	0.880	6.369	65.896	19.831	6.246	0.232	0.493	0.022	0.024	0.006	0.000	0.000	0.000	0.000	1384.61	
20	0.7571	1183.4	1204.4	1203.4	0.886	6.288	66.091	19.935	6.040	0.226	0.486	0.020	0.021	0.006	0.000	0.000	0.000	0.000	1384.15	
21	0.7564	1181.4	1202.3	1201.3	0.885	6.352	66.158	19.864	5.985	0.225	0.485	0.020	0.021	0.006	0.000	0.000	0.000	0.000	1382.38	
22	0.7560	1180.7	1201.6	1200.5	0.884	6.349	66.204	19.849	5.975	0.221	0.471	0.019	0.020	0.005	0.000	0.000	0.000	0.000	1382.02	
23	0.7567	1182.9	1203.9	1202.7	0.890	6.277	66.181	19.859	6.023	0.228	0.494	0.021	0.022	0.006	0.000	0.000	0.000	0.000	1383.92	
24	0.7566	1183.0	1204.0	1202.6	0.895	6.248	66.203	19.874	6.015	0.226	0.490	0.020	0.021	0.006	0.000	0.000	0.000	0.000	1384.15	
25	0.7567	1182.7	1203.6	1202.5	0.896	6.280	66.062	20.050	5.990	0.213	0.462	0.020	0.021	0.005	0.000	0.000	0.000	0.000	1383.66	
26	0.7550	1180.3	1201.2	1200.3	0.896	6.268	66.203	20.091	5.866	0.194	0.433	0.021	0.022	0.006	0.000	0.000	0.000	0.000	1382.42	
27	0.7574	1180.3	1201.2	1200.2	0.893	6.500	65.828	20.099	5.978	0.200	0.450	0.021	0.023	0.006	0.000	0.000	0.000	0.000	1380.17	
28	0.7572	1178.9	1199.8	1198.7	0.892	6.561	65.902	19.948	5.982	0.206	0.458	0.021	0.023	0.006	0.000	0.000	0.000	0.000	1378.79	
29	0.7558	1176.7	1197.6	1196.6	0.865	6.606	66.112	19.726	6.012	0.189	0.436	0.021	0.020	0.012	0.000	0.000	0.000	0.000	1377.51	
30	0.7575	1180.1	1201.0	1199.9	0.892	6.518	65.846	20.022	6.028	0.198	0.445	0.022	0.023	0.006	0.000	0.000	0.000	0.000	1379.93	
31	0.7599	1185.4	1206.4	1205.3	0.895	6.419	65.446	20.476	6.056	0.199	0.444	0.027	0.029	0.008	0.000	0.000	0.000	0.000	1383.87	
Avg	0.7569	1182.0	1202.9	1201.9	0.882	6.361	66.191	19.715	6.086	0.220	0.488	0.025	0.026	0.007	0.000	0.000	0.000	0.000	1382.67	

Source Daily Summary

August 2024

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

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	0.6633	1095.3	1114.7	1113.6	1.014	2.676	79.486	15.747	1.011	0.023	0.042	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1368.68	
2	0.6621	1093.8	1113.2	1111.8	1.009	2.660	79.682	15.616	0.970	0.022	0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1368.07	
3	0.6602	1090.7	1110.0	1109.0	1.005	2.678	80.045	15.257	0.952	0.022	0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1366.10	
4	0.6587	1087.4	1106.7	1105.9	1.029	2.698	80.228	15.170	0.825	0.018	0.032	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1363.58	
5	0.6590	1087.9	1107.1	1106.6	1.039	2.687	80.185	15.206	0.830	0.019	0.034	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1363.79	
6	0.6591	1088.3	1107.6	1106.8	1.031	2.685	80.105	15.339	0.789	0.018	0.033	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1364.21	
7	0.6591	1088.3	1107.6	1107.1	1.029	2.678	80.149	15.277	0.817	0.018	0.032	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1364.32	
8	0.6577	1086.8	1106.0	1105.5	1.034	2.639	80.375	15.145	0.754	0.019	0.034	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1363.78	
9	0.6579	1086.9	1106.1	1105.5	1.040	2.643	80.313	15.227	0.725	0.019	0.034	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1363.70	
10	0.6591	1088.6	1107.8	1107.1	1.030	2.667	80.116	15.351	0.780	0.019	0.036	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1364.57	
11	0.6608	1091.4	1110.7	1110.3	1.030	2.654	79.818	15.615	0.825	0.020	0.038	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1366.39	
12	0.6613	1092.0	1111.4	1110.7	1.014	2.684	79.690	15.741	0.813	0.020	0.037	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1366.66	
13	0.6614	1092.8	1112.1	1111.4	1.020	2.638	79.630	15.890	0.768	0.019	0.035	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1367.50	
14	0.6633	1093.7	1113.1	1112.4	1.052	2.714	79.292	16.087	0.798	0.020	0.037	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1366.72	
15	0.6614	1091.5	1110.8	1110.0	1.034	2.696	79.610	15.866	0.740	0.019	0.035	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1365.90	
16	0.6612	1091.9	1111.2	1110.4	1.018	2.676	79.651	15.846	0.756	0.019	0.034	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1366.60	
17	0.6620	1092.8	1112.2	1111.4	1.024	2.688	79.512	15.943	0.778	0.019	0.036	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1366.95	
18	0.6625	1093.4	1112.8	1111.9	1.037	2.677	79.458	15.972	0.800	0.020	0.037	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1367.17	
19	0.6621	1093.6	1112.9	1112.0	1.015	2.665	79.575	15.846	0.826	0.024	0.048	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1367.77	
20	0.6600	1090.1	1109.4	1108.4	1.022	2.669	79.904	15.590	0.760	0.019	0.036	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1365.59	
21	0.6611	1091.6	1110.9	1110.2	0.989	2.732	79.866	15.395	0.934	0.027	0.053	0.002	0.002	0.000	0.000	0.000	0.000	0.000	1366.28	
22	0.6628	1093.0	1112.4	1111.6	0.993	2.791	79.574	15.574	0.987	0.026	0.052	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1366.42	
23	0.6634	1093.7	1113.1	1112.2	0.993	2.814	79.437	15.685	0.991	0.027	0.051	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1366.56	
24	0.6649	1095.5	1114.9	1114.0	1.000	2.838	79.172	15.878	1.028	0.028	0.055	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1367.22	
25	0.6615	1093.4	1112.7	1112.0	1.002	2.640	79.812	15.528	0.935	0.027	0.053	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1368.11	
26	0.6577	1089.1	1108.4	1108.0	1.004	2.535	80.420	15.198	0.784	0.020	0.039	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1366.77	
27	0.6593	1091.4	1110.7	1110.2	1.008	2.546	80.191	15.310	0.878	0.024	0.044	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1367.93	
28	0.6624	1095.6	1115.0	1114.4	1.005	2.581	79.805	15.487	0.993	0.041	0.081	0.004	0.003	0.000	0.000	0.000	0.000	0.000	1369.97	
29	0.6615	1093.2	1112.6	1112.1	1.018	2.619	79.703	15.758	0.842	0.021	0.039	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1368.02	
30	0.6601	1091.4	1110.7	1110.1	1.022	2.596	80.006	15.456	0.862	0.020	0.037	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1367.11	
31	0.6616	1092.2	1111.5	1110.9	1.034	2.676	79.743	15.582	0.902	0.022	0.041	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1366.50	
Avg	0.6609	1092.0	1110.9	1110.1	1.019	2.672	79.824	15.567	0.853	0.022	0.041	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1366.42	

Source Daily Summary

August 2024

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

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	0.6803	1117.1	1136.9	1136.1	0.495	3.724	76.709	16.782	2.085	0.070	0.125	0.008	0.000	0.002	0.000	0.000	0.000	0.000	1378.33	
2	0.6703	1094.8	1114.2	1113.4	0.610	3.965	78.974	14.051	2.158	0.082	0.148	0.009	0.000	0.002	0.000	0.000	0.000	0.000	1360.94	
3	0.6871	1122.8	1142.7	1142.0	0.678	3.730	76.006	16.882	2.416	0.095	0.179	0.012	0.000	0.003	0.000	0.000	0.000	0.000	1378.60	
4	0.6813	1116.6	1136.4	1135.6	0.570	3.735	76.653	16.702	2.110	0.076	0.142	0.009	0.000	0.002	0.000	0.000	0.000	0.000	1376.75	
5	0.6828	1121.9	1141.7	1141.0	0.466	3.710	76.477	16.793	2.307	0.082	0.152	0.010	0.000	0.002	0.000	0.000	0.000	0.000	1381.75	
6	0.6743	1118.8	1138.6	1137.8	0.019	3.787	77.489	16.392	2.087	0.075	0.139	0.009	0.000	0.002	0.000	0.000	0.000	0.000	1386.48	
7	0.6747	1120.4	1140.2	1139.4	0.000	3.748	77.359	16.616	2.067	0.070	0.128	0.009	0.000	0.002	0.000	0.000	0.000	0.000	1388.16	
8	0.6750	1120.9	1140.7	1140.0	0.000	3.750	77.155	16.922	1.987	0.066	0.112	0.007	0.000	0.002	0.000	0.000	0.000	0.000	1388.45	
9	0.6737	1118.0	1137.8	1137.0	0.000	3.807	77.364	16.652	2.043	0.065	0.060	0.007	0.000	0.002	0.000	0.000	0.000	0.000	1386.17	
10	0.6745	1117.2	1137.0	1136.2	0.000	3.925	77.235	16.560	2.204	0.067	0.000	0.008	0.000	0.002	0.000	0.000	0.000	0.000	1384.44	
11	0.6745	1117.2	1137.0	1136.3	0.000	3.925	77.235	16.560	2.204	0.067	0.000	0.008	0.000	0.002	0.000	0.000	0.000	0.000	1384.44	
12	0.6771	1113.7	1133.5	1132.7	0.376	3.459	77.484	16.251	2.227	0.092	0.090	0.011	0.006	0.004	0.000	0.000	0.000	0.000	1377.43	
13	0.6780	1112.6	1132.3	1131.6	0.502	3.304	77.567	16.147	2.235	0.100	0.120	0.013	0.008	0.004	0.000	0.000	0.000	0.000	1375.09	
14	0.6799	1113.7	1133.5	1132.7	0.557	3.702	76.991	16.364	2.158	0.077	0.130	0.010	0.008	0.004	0.000	0.000	0.000	0.000	1374.60	
15	0.6827	1119.3	1139.1	1138.4	0.576	3.687	76.446	16.913	2.136	0.076	0.143	0.010	0.009	0.004	0.000	0.000	0.000	0.000	1378.73	
16	0.6839	1120.9	1140.7	1140.0	0.581	3.706	76.188	17.143	2.141	0.075	0.142	0.010	0.009	0.004	0.000	0.000	0.000	0.000	1379.34	
17	0.6840	1121.6	1141.4	1140.7	0.612	3.627	76.212	17.178	2.122	0.077	0.148	0.010	0.010	0.004	0.000	0.000	0.000	0.000	1380.08	
18	0.6796	1114.5	1134.2	1133.5	0.535	3.754	76.891	16.554	2.046	0.070	0.129	0.009	0.008	0.003	0.000	0.000	0.000	0.000	1375.89	
19	0.6830	1121.0	1140.9	1140.2	0.541	3.670	76.316	17.111	2.131	0.073	0.136	0.009	0.009	0.003	0.000	0.000	0.000	0.000	1380.48	
20	0.6811	1117.1	1136.9	1136.3	0.535	3.740	76.631	16.784	2.087	0.072	0.131	0.009	0.008	0.003	0.000	0.000	0.000	0.000	1377.53	
21	0.6793	1113.8	1133.5	1132.7	0.580	3.686	77.039	16.391	2.086	0.071	0.131	0.009	0.008	0.000	0.000	0.000	0.000	0.000	1375.26	
22	0.6798	1114.2	1133.9	1133.3	0.566	3.743	76.850	16.617	2.003	0.071	0.133	0.009	0.008	0.000	0.000	0.000	0.000	0.000	1375.34	
23	0.6774	1111.9	1131.6	1130.9	0.543	3.700	77.263	16.305	1.981	0.068	0.125	0.009	0.006	0.000	0.000	0.000	0.000	0.000	1374.85	
24	0.6768	1109.8	1129.4	1128.8	0.664	3.585	77.311	16.436	1.827	0.059	0.107	0.007	0.004	0.000	0.000	0.000	0.000	0.000	1372.90	
25	0.6749	1106.7	1126.3	1125.7	0.727	3.499	77.660	16.217	1.724	0.058	0.106	0.007	0.003	0.000	0.000	0.000	0.000	0.000	1371.02	
26	0.6760	1109.5	1129.2	1128.5	0.740	3.413	77.543	16.339	1.777	0.062	0.116	0.007	0.003	0.000	0.000	0.000	0.000	0.000	1373.35	
27	0.6751	1108.7	1128.3	1127.7	0.701	3.433	77.643	16.283	1.775	0.056	0.101	0.006	0.001	0.000	0.000	0.000	0.000	0.000	1373.30	
28	0.6791	1114.5	1134.2	1133.6	0.570	3.658	76.984	16.544	2.051	0.066	0.118	0.008	0.001	0.000	0.000	0.000	0.000	0.000	1376.36	
29	0.6781	1112.6	1132.3	1131.6	0.612	3.615	77.113	16.530	1.953	0.061	0.109	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1375.05	
30	0.6779	1113.6	1133.3	1132.7	0.727	3.362	77.179	16.737	1.811	0.061	0.114	0.008	0.001	0.000	0.000	0.000	0.000	0.000	1376.48	
31	0.6779	1113.4	1133.1	1132.5	0.685	3.444	77.111	16.758	1.826	0.060	0.108	0.007	0.001	0.000	0.000	0.000	0.000	0.000	1376.16	
Avg	0.6784	1115.0	1134.9	1134.2	0.476	3.664	77.067	16.533	2.057	0.072	0.117	0.009	0.003	0.002	0.000	0.000	0.000	0.000	1377.86	

Source Daily Summary

August 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	0.6875	1153.0	1173.4	1171.7	0.000	2.983	73.062	23.279	0.651	0.008	0.015	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1415.18	-25.68
2	0.6878	1153.6	1174.0	1172.3	0.000	2.978	73.032	23.276	0.689	0.009	0.015	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1415.58	-25.34
3	0.6871	1152.3	1172.7	1171.3	0.000	2.990	73.090	23.283	0.619	0.007	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1414.71	-26.18
4	0.6877	1153.3	1173.7	1172.4	0.000	2.984	72.978	23.401	0.610	0.008	0.015	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1415.36	-25.68
5	0.6879	1153.7	1174.1	1172.7	0.000	2.977	72.939	23.450	0.609	0.008	0.015	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1415.66	-25.60
6	0.6880	1153.3	1173.8	1172.2	0.000	2.992	72.975	23.364	0.645	0.008	0.015	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1415.14	-25.53
7	0.6868	1151.4	1171.8	1170.4	0.000	3.012	73.124	23.265	0.577	0.008	0.013	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1413.99	-26.44
8	0.6858	1150.5	1170.8	1169.1	0.000	2.982	73.154	23.423	0.427	0.005	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1413.80	-27.55
9	0.6860	1150.6	1171.0	1169.3	0.008	2.986	73.121	23.435	0.435	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1413.84	-27.34
10	0.6857	1150.0	1170.4	1168.7	0.000	2.995	73.189	23.369	0.433	0.005	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1413.41	-27.64
11	0.6855	1149.8	1170.2	1168.6	0.000	2.991	73.217	23.355	0.424	0.005	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1413.32	-27.76
12	0.6873	1152.5	1172.9	1171.3	0.001	2.997	72.878	23.652	0.459	0.005	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1414.76	-26.70
13	0.6945	1137.8	1158.0	1156.6	1.052	2.970	72.404	23.146	0.414	0.005	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1389.51	-26.17
14	0.6956	1137.2	1157.3	1156.1	1.131	2.999	72.233	23.217	0.407	0.005	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1387.57	-25.89
15	0.6965	1139.0	1159.2	1157.6	1.107	2.996	72.053	23.413	0.416	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1389.03	-25.35
16	0.6956	1137.4	1157.5	1155.5	1.119	3.002	72.230	23.225	0.410	0.005	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1387.83	-25.87
17	0.6955	1137.6	1157.7	1156.1	1.106	2.994	72.258	23.213	0.416	0.005	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1388.24	-25.87
18	0.6958	1138.0	1158.2	1156.6	1.121	2.976	72.226	23.225	0.438	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1388.47	-25.60
19	0.6990	1142.8	1163.0	1162.0	1.140	2.952	71.637	23.789	0.466	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1391.12	-23.90
20	0.6985	1141.9	1162.1	1161.0	1.142	2.965	71.690	23.757	0.433	0.005	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1390.45	-24.28
21	0.6980	1141.4	1161.7	1160.5	1.128	2.968	71.759	23.713	0.419	0.005	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1390.39	-24.53
22	0.6975	1141.8	1162.0	1160.6	1.073	2.975	71.844	23.654	0.440	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1391.40	-24.60
23	0.7078	1158.1	1178.6	1176.9	1.052	2.982	71.196	22.996	1.608	0.059	0.097	0.001	0.001	0.009	0.000	0.000	0.000	0.000	1400.69	-14.78
24	0.6959	1137.7	1157.9	1156.2	1.128	2.989	72.191	23.275	0.404	0.005	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1388.04	-25.78
25	0.6957	1138.0	1158.1	1156.5	1.120	2.976	72.192	23.305	0.394	0.005	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1388.44	-25.81
26	0.6985	1142.5	1162.8	1160.9	1.118	2.960	71.975	23.198	0.727	0.008	0.012	0.000	0.000	0.001	0.000	0.000	0.000	0.000	1391.23	-23.05
27	0.6991	1142.9	1163.2	1161.5	1.117	2.995	71.897	23.191	0.777	0.009	0.013	0.000	0.000	0.001	0.000	0.000	0.000	0.000	1391.09	-22.63
28	0.6983	1141.5	1161.7	1160.0	1.130	2.990	72.011	23.131	0.718	0.008	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1390.10	-23.32
29	0.6977	1140.9	1161.1	1159.3	1.124	2.970	72.124	23.065	0.696	0.008	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1390.08	-23.68
30	0.6963	1138.5	1158.7	1156.9	1.130	2.972	72.198	23.197	0.488	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1388.64	-25.22
31	0.6956	1137.8	1157.9	1156.2	1.126	2.962	72.230	23.276	0.393	0.005	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1388.38	-25.88
Avg	0.6934	1145.0	1165.3	1163.8	0.683	2.983	72.423	23.340	0.550	0.008	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1399.53	-25.15

Source Daily Summary

August 2024

Source #: 351
Name: BADLANDS 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	0.5722	962.9	980.0	978.6	0.108	3.542	96.021	0.304	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.54
2	0.5722	963.0	980.0	978.5	0.109	3.538	96.026	0.304	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.62
3	0.5722	962.9	980.0	978.7	0.108	3.543	96.021	0.304	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.52
4	0.5722	962.9	980.0	978.8	0.108	3.545	96.020	0.303	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.49
5	0.5722	963.0	980.1	979.3	0.109	3.532	96.030	0.305	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.72
6	0.5722	963.1	980.1	979.0	0.110	3.528	96.033	0.305	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.76
7	0.5722	963.0	980.0	979.2	0.109	3.538	96.026	0.304	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.60
8	0.5722	963.0	980.0	979.2	0.109	3.540	96.024	0.304	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.57
9	0.5722	962.9	980.0	979.0	0.108	3.544	96.021	0.303	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.51
10	0.5722	962.9	979.9	978.9	0.108	3.548	96.019	0.302	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.45
11	0.5722	962.9	980.0	979.2	0.108	3.545	96.020	0.303	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.49
12	0.5722	962.9	980.0	979.0	0.109	3.543	96.021	0.304	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.51
13	0.5722	963.0	980.0	979.0	0.109	3.539	96.025	0.304	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.59
14	0.5722	962.9	979.9	978.9	0.108	3.546	96.019	0.303	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.48
15	0.5722	962.8	979.9	978.8	0.108	3.551	96.013	0.303	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.38
16	0.5722	962.9	979.9	978.8	0.109	3.549	96.016	0.303	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.41
17	0.5722	963.0	980.0	978.9	0.109	3.539	96.024	0.304	0.016	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.59
18	0.5722	962.9	980.0	978.9	0.109	3.543	96.020	0.304	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.51
19	0.5722	962.9	980.0	978.9	0.109	3.540	96.023	0.304	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.56
20	0.5722	963.0	980.0	978.7	0.110	3.536	96.026	0.305	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.61
21	0.5722	962.9	980.0	978.9	0.109	3.544	96.020	0.304	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.49
22	0.5722	962.8	979.9	978.7	0.109	3.552	96.014	0.303	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.35
23	0.5722	963.1	980.1	978.8	0.110	3.530	96.032	0.305	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.74
24	0.5722	963.0	980.1	978.8	0.110	3.535	96.028	0.304	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.65
25	0.5722	962.9	979.9	978.8	0.109	3.548	96.017	0.304	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.43
26	0.5722	963.0	980.0	979.2	0.109	3.538	96.027	0.303	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.61
27	0.5722	963.0	980.0	979.1	0.110	3.535	96.027	0.304	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.64
28	0.5722	962.9	980.0	979.1	0.109	3.542	96.023	0.303	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.53
29	0.5722	962.8	979.9	979.1	0.109	3.550	96.014	0.303	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.38
30	0.5724	962.4	979.4	978.3	0.108	3.597	95.971	0.301	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1294.54
31	0.5723	962.5	979.6	978.5	0.109	3.579	95.987	0.302	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1294.86
Avg	0.5722	963.0	980.0	978.9	0.109	3.544	96.020	0.304	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.49

August-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	
8/1/2024	8/2/2024	14,151	15,696	1110	910	1,088	1195.6	1115.172	8/1/2024
8/2/2024	8/3/2024	15,759	17,526	1112.3	779	932	1196.5	1116.266	8/2/2024
8/3/2024	8/4/2024	0	0	0	821	978	1191.2	1191.200	8/3/2024
8/4/2024	8/5/2024	219	241	1,101	885	1,058	1195.7	1176.994	8/4/2024
8/5/2024	8/6/2024	10	11	1103.7	1,002	1,203	1199.9	1198.949	8/5/2024
8/6/2024	8/7/2024	0	0	0	1,110	1,334	1202	1202.000	8/6/2024
8/7/2024	8/8/2024	0	0	0	1,037	1,256	1210.1	1210.100	8/7/2024
8/8/2024	8/9/2024	0	0	0	1,243	1,512	1216.7	1216.700	8/8/2024
8/9/2024	8/10/2024	0	0	0	1,028	1,243	1209.3	1209.300	8/9/2024
8/10/2024	8/11/2024	0	0	0	818	985	1203.5	1203.500	8/10/2024
8/11/2024	8/12/2024	0	0	0	765	920	1203	1203.000	8/11/2024
8/12/2024	8/13/2024	0	0	0	833	1,002	1202.9	1202.900	8/12/2024
8/13/2024	8/14/2024	0	0	0	882	1,064	1207	1207.000	8/13/2024
8/14/2024	8/15/2024	1,497	1,659	1108.6	892	1,077	1206.4	1145.116	8/14/2024
8/15/2024	8/16/2024	2,308	2,561	1109.5	927	1,119	1206.6	1137.324	8/15/2024
8/16/2024	8/17/2024	588	651	1,107	936	1,129	1207.1	1168.402	8/16/2024
8/17/2024	8/18/2024	0	0	0	768	923	1201.2	1201.200	8/17/2024
8/18/2024	8/19/2024	0	0	0	746	897	1203.1	1203.100	8/18/2024
8/19/2024	8/20/2024	1,651	1,840	1,115	833	1,005	1206.5	1145.352	8/19/2024
8/20/2024	8/21/2024	3,515	3,898	1108.5	857	1,032	1204.4	1127.298	8/20/2024
8/21/2024	8/22/2024	0	0	0	834	1,003	1202.3	1202.300	8/21/2024
8/22/2024	8/23/2024	0	0	0	930	1,118	1201.6	1201.600	8/22/2024
8/23/2024	8/24/2024	0	0	0	821	988	1203.9	1203.900	8/23/2024
8/24/2024	8/25/2024	0	0	0	696	838	1204	1204.000	8/24/2024
8/25/2024	8/26/2024	1,530	1,695	1,108	709	853	1203.6	1138.409	8/25/2024
8/26/2024	8/27/2024	10,945	12,128	1108.4	877	1,054	1201.2	1115.284	8/26/2024
8/27/2024	8/28/2024	14,943	16,535	1107	865	1,038	1201.2	1112.155	8/27/2024
8/28/2024	8/29/2024	0	0	0	837	1,004	1199.8	1199.800	8/28/2024
8/29/2024	8/30/2024	0	0	0	899	1,077	1197.6	1197.600	8/29/2024
8/30/2024	8/31/2024	0	0	0	767	921	1201	1201.000	8/30/2024
8/31/2024	9/1/2024	0	0	0	706	852	1206.4	1206.400	8/31/2024
		67,116	74,441	428.9968	27,013	32,503	1202.9452	1179.4620	



Alliance Pipeline

DAILY ANALYSIS --- USA
 ND07MD1 --- Hankinson Sales
 August 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	1,157.720	0.6616	84.4554	9.6447	3.3818	0.3946	0.6905	0.0807	0.0698	0.0317	0.8652	0.3762	0.0096
2	1,156.039	0.6602	84.5409	9.7196	3.3075	0.3793	0.6554	0.0762	0.0669	0.0309	0.8495	0.3646	0.0094
3	1,154.698	0.6597	84.6353	9.5944	3.3205	0.3766	0.6597	0.0736	0.0619	0.0279	0.8713	0.3699	0.0088
4	1,156.214	0.6611	84.3954	9.7275	3.3785	0.3792	0.6710	0.0714	0.0593	0.0246	0.9059	0.3785	0.0088
5	1,155.142	0.6604	84.3679	9.8582	3.3495	0.3608	0.6344	0.0660	0.0539	0.0217	0.8999	0.3788	0.0089
6	1,153.357	0.6587	84.5702	9.8101	3.2967	0.3500	0.5963	0.0646	0.0537	0.0224	0.8513	0.3758	0.0090
7	1,151.369	0.6579	84.6553	9.7493	3.2349	0.3453	0.5917	0.0661	0.0548	0.0225	0.8977	0.3735	0.0090
8	1,152.649	0.6584	84.5641	9.8506	3.2683	0.3441	0.5865	0.0645	0.0533	0.0201	0.8577	0.3816	0.0093
9	1,156.198	0.6610	84.2712	9.9151	3.4216	0.3527	0.6151	0.0669	0.0558	0.0213	0.8855	0.3860	0.0089
10	1,155.128	0.6608	84.2583	9.9191	3.4003	0.3485	0.6091	0.0655	0.0545	0.0207	0.9287	0.3864	0.0088
11	1,154.324	0.6604	84.2762	9.9455	3.3706	0.3455	0.5935	0.0641	0.0534	0.0209	0.9287	0.3927	0.0089
12	1,156.084	0.6618	84.1315	9.9674	3.4308	0.3531	0.6225	0.0655	0.0542	0.0213	0.9431	0.4013	0.0093
13	1,156.903	0.6616	84.1303	10.0785	3.3874	0.3549	0.6130	0.0669	0.0562	0.0226	0.8830	0.3977	0.0095
14	1,157.641	0.6618	84.1701	9.9933	3.4388	0.3594	0.6236	0.0671	0.0572	0.0228	0.8757	0.3828	0.0094
15	1,158.504	0.6616	84.2467	9.9676	3.4511	0.3620	0.6256	0.0680	0.0577	0.0231	0.8046	0.3841	0.0094
16	1,157.290	0.6614	84.2343	9.9416	3.4317	0.3594	0.6316	0.0658	0.0553	0.0220	0.8749	0.3744	0.0090
17	1,155.519	0.6608	84.2310	9.9892	3.3788	0.3509	0.6115	0.0630	0.0527	0.0203	0.9176	0.3758	0.0092
18	1,157.679	0.6619	84.1700	9.9603	3.4468	0.3634	0.6377	0.0670	0.0550	0.0211	0.8906	0.3800	0.0081
19	1,155.786	0.6608	84.2629	9.9349	3.4182	0.3511	0.6057	0.0644	0.0533	0.0205	0.8981	0.3832	0.0076
20	1,156.702	0.6609	84.3027	9.9126	3.4233	0.3575	0.6183	0.0662	0.0549	0.0210	0.8530	0.3830	0.0076
21	1,158.431	0.6625	84.0725	10.0182	3.4768	0.3622	0.6394	0.0647	0.0547	0.0218	0.9130	0.3692	0.0075
22	1,157.127	0.6617	84.1046	10.0586	3.4291	0.3516	0.6147	0.0654	0.0550	0.0214	0.9197	0.3722	0.0077
23	1,156.458	0.6611	84.2007	10.0051	3.4172	0.3474	0.6090	0.0646	0.0541	0.0216	0.9019	0.3708	0.0076
24	1,156.394	0.6612	84.1698	10.0508	3.3853	0.3507	0.6159	0.0640	0.0530	0.0212	0.8980	0.3838	0.0076
25	1,154.552	0.6602	84.2989	9.9692	3.3518	0.3444	0.5984	0.0634	0.0530	0.0203	0.9029	0.3902	0.0074
26	1,160.793	0.6640	83.9621	10.0398	3.5211	0.3764	0.6617	0.0729	0.0628	0.0241	0.8863	0.3855	0.0073
27	1,161.384	0.6646	83.9005	10.0186	3.5576	0.3849	0.6724	0.0739	0.0624	0.0244	0.9099	0.3882	0.0072
28	1,161.967	0.6649	83.8839	10.0138	3.5834	0.3890	0.6755	0.0738	0.0625	0.0233	0.9079	0.3796	0.0074
29	1,163.987	0.6659	83.8376	9.9784	3.6231	0.4020	0.7025	0.0793	0.0699	0.0289	0.8993	0.3723	0.0066
30	1,162.070	0.6650	83.9300	9.9579	3.5260	0.4007	0.7026	0.0795	0.0698	0.0292	0.9190	0.3785	0.0068
31	1,159.446	0.6638	83.9664	9.9820	3.5255	0.3759	0.6634	0.0690	0.0562	0.0224	0.9375	0.3947	0.0071
Volume	1,157.017	0.6615	84.2318	9.9219	3.4173	0.3636	0.6337	0.0685	0.0576	0.0231	0.8929	0.3810	0.0083
Weight Avg Energy	1,157.023	0.6615	84.2314	9.9220	3.4175	0.3636	0.6338	0.0685	0.0576	0.0231	0.8929	0.3810	0.0083



Alliance Pipeline

DAILY ANALYSIS --- USA
 ND14MD1 --- Milnor Sales
 August 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	1,157.214	0.6612	84.5155	9.6258	3.3615	0.3928	0.6852	0.0802	0.0695	0.0318	0.8545	0.3737	0.0096
2	1,156.153	0.6602	84.5364	9.7395	3.3046	0.3787	0.6517	0.0763	0.0672	0.0309	0.8422	0.3632	0.0094
3	1,155.148	0.6601	84.5878	9.6027	3.3406	0.3786	0.6665	0.0735	0.0618	0.0278	0.8797	0.3723	0.0088
4	1,156.056	0.6611	84.3612	9.7853	3.3685	0.3749	0.6617	0.0699	0.0579	0.0240	0.9084	0.3792	0.0088
5	1,154.969	0.6602	84.3923	9.8437	3.3479	0.3600	0.6315	0.0662	0.0539	0.0215	0.8949	0.3792	0.0090
6	1,153.045	0.6585	84.5982	9.7903	3.2876	0.3500	0.5947	0.0649	0.0541	0.0227	0.8549	0.3738	0.0090
7	1,151.011	0.6576	84.6744	9.7562	3.2229	0.3425	0.5853	0.0654	0.0544	0.0220	0.8937	0.3741	0.0090
8	1,153.275	0.6588	84.5263	9.8565	3.2894	0.3469	0.5933	0.0651	0.0536	0.0203	0.8570	0.3823	0.0093
9	1,156.218	0.6610	84.2628	9.9231	3.4236	0.3518	0.6139	0.0666	0.0556	0.0212	0.8882	0.3842	0.0089
10	1,154.974	0.6607	84.2630	9.9244	3.3937	0.3476	0.6067	0.0654	0.0543	0.0206	0.9289	0.3866	0.0089
11	1,154.576	0.6605	84.2698	9.9357	3.3798	0.3476	0.6000	0.0642	0.0532	0.0205	0.9288	0.3915	0.0088
12	1,155.924	0.6617	84.1579	9.9466	3.4287	0.3533	0.6214	0.0657	0.0544	0.0215	0.9375	0.4037	0.0094
13	1,157.203	0.6618	84.0958	10.1064	3.3907	0.3552	0.6148	0.0669	0.0562	0.0225	0.8861	0.3957	0.0095
14	1,157.849	0.6618	84.1773	9.9823	3.4428	0.3614	0.6268	0.0678	0.0576	0.0229	0.8697	0.3818	0.0094
15	1,158.369	0.6615	84.2575	9.9640	3.4470	0.3609	0.6243	0.0679	0.0577	0.0233	0.8050	0.3831	0.0093
16	1,157.356	0.6614	84.2201	9.9651	3.4316	0.3572	0.6286	0.0652	0.0550	0.0220	0.8722	0.3742	0.0089
17	1,155.710	0.6608	84.2271	9.9913	3.3824	0.3521	0.6123	0.0633	0.0531	0.0204	0.9125	0.3763	0.0092
18	1,157.454	0.6618	84.1874	9.9506	3.4449	0.3621	0.6346	0.0667	0.0546	0.0209	0.8906	0.3797	0.0079
19	1,155.771	0.6608	84.2670	9.9350	3.4156	0.3511	0.6054	0.0645	0.0536	0.0206	0.8953	0.3843	0.0076
20	1,156.918	0.6611	84.2856	9.9189	3.4280	0.3585	0.6213	0.0665	0.0550	0.0211	0.8562	0.3812	0.0076
21	1,158.497	0.6625	84.0626	10.0255	3.4793	0.3621	0.6391	0.0644	0.0546	0.0218	0.9144	0.3687	0.0074
22	1,156.636	0.6614	84.1365	10.0475	3.4169	0.3495	0.6078	0.0654	0.0549	0.0214	0.9207	0.3717	0.0077
23	1,156.655	0.6612	84.1893	10.0100	3.4173	0.3490	0.6142	0.0649	0.0539	0.0214	0.8996	0.3726	0.0077
24	1,156.429	0.6612	84.1779	10.0352	3.3911	0.3516	0.6175	0.0638	0.0531	0.0212	0.8967	0.3842	0.0076
25	1,154.884	0.6604	84.2766	9.9839	3.3548	0.3454	0.6013	0.0642	0.0540	0.0207	0.9016	0.3901	0.0073
26	1,161.131	0.6642	83.9362	10.0461	3.5341	0.3781	0.6638	0.0732	0.0631	0.0243	0.8888	0.3850	0.0074
27	1,161.567	0.6647	83.8909	10.0195	3.5649	0.3861	0.6741	0.0740	0.0621	0.0242	0.9083	0.3888	0.0072
28	1,161.997	0.6649	83.8889	10.0082	3.5801	0.3896	0.6770	0.0744	0.0634	0.0238	0.9078	0.3795	0.0073
29	1,164.071	0.6659	83.8441	9.9724	3.6233	0.4026	0.7044	0.0794	0.0702	0.0293	0.8973	0.3703	0.0066
30	1,161.716	0.6649	83.9389	9.9471	3.5211	0.3997	0.7015	0.0792	0.0690	0.0289	0.9257	0.3820	0.0069
31	1,158.721	0.6633	83.9955	9.9903	3.5068	0.3708	0.6532	0.0674	0.0545	0.0213	0.9392	0.3941	0.0070
Volume	1,156.617	0.6612	84.2730	9.9055	3.4007	0.3628	0.6313	0.0685	0.0576	0.0233	0.8875	0.3812	0.0086
Weight Avg Energy	1,156.632	0.6612	84.2721	9.9054	3.4013	0.3629	0.6314	0.0685	0.0576	0.0233	0.8877	0.3812	0.0086

August-24

ZONE 610

Watford City

Watford City West Border

Watford City East Border

Weighted

Start Date	End Date	Watford City West Border			Watford City East Border			AVG BTU	
		MCF	DK	BTU Zone 25	MCF	DK	BTU Zone 43		
8/1/2024	8/2/2024	7	9	1197.2	68	76	1117	1124.485	8/1/2024
8/2/2024	8/3/2024	7	8	1197.2	53	59	1117	1126.357	8/2/2024
8/3/2024	8/4/2024	2	2	1197.2	77	86	1117	1119.030	8/3/2024
8/4/2024	8/5/2024	4	4	1197.2	75	84	1117	1121.061	8/4/2024
8/5/2024	8/6/2024	26	31	1197.2	120	134	1117	1131.282	8/5/2024
8/6/2024	8/7/2024	20	24	1197.2	100	112	1117	1130.367	8/6/2024
8/7/2024	8/8/2024	54	65	1197.2	108	121	1117	1143.733	8/7/2024
8/8/2024	8/9/2024	64	77	1197.2	122	136	1117	1144.596	8/8/2024
8/9/2024	8/10/2024	31	37	1197.2	91	102	1117	1137.379	8/9/2024
8/10/2024	8/11/2024	15	18	1197.2	80	89	1117	1129.663	8/10/2024
8/11/2024	8/12/2024	6	7	1197.2	72	81	1117	1123.169	8/11/2024
8/12/2024	8/13/2024	9	11	1197.2	83	93	1117	1124.846	8/12/2024
8/13/2024	8/14/2024	6	7	1197.2	94	105	1117	1121.812	8/13/2024
8/14/2024	8/15/2024	15	18	1197.2	107	119	1117	1126.861	8/14/2024
8/15/2024	8/16/2024	4	5	1197.2	102	114	1117	1120.026	8/15/2024
8/16/2024	8/17/2024	2	2	1197.2	91	102	1117	1118.725	8/16/2024
8/17/2024	8/18/2024	0	0	1197.2	71	79	1117	1117.000	8/17/2024
8/18/2024	8/19/2024	1	1	1197.2	67	75	1117	1118.179	8/18/2024
8/19/2024	8/20/2024	2	3	1197.2	79	89	1117	1118.980	8/19/2024
8/20/2024	8/21/2024	14	17	1197.2	91	102	1117	1127.693	8/20/2024
8/21/2024	8/22/2024	21	26	1197.2	95	107	1117	1131.519	8/21/2024
8/22/2024	8/23/2024	13	16	1197.2	82	92	1117	1127.975	8/22/2024
8/23/2024	8/24/2024	9	11	1197.2	87	97	1117	1124.519	8/23/2024
8/24/2024	8/25/2024	3	3	1197.2	80	90	1117	1119.899	8/24/2024
8/25/2024	8/26/2024	6	7	1197.2	66	74	1117	1123.683	8/25/2024
8/26/2024	8/27/2024	20	24	1197.2	86	96	1117	1132.132	8/26/2024
8/27/2024	8/28/2024	48	58	1197.2	95	106	1117	1143.920	8/27/2024
8/28/2024	8/29/2024	35	41	1197.2	110	123	1117	1136.359	8/28/2024
8/29/2024	8/30/2024	47	57	1197.2	107	119	1117	1141.477	8/29/2024
8/30/2024	8/31/2024	4	5	1197.2	75	84	1117	1121.061	8/30/2024
8/31/2024	9/1/2024	4	4	1197.2	82	91	1117	1120.730	8/31/2024
		499	598	1197.2000	2,716	3,037	1117.0000	1127.3715	

NORTH DAKOTA HEATING VALUE ZONES		
ZONES	MEASURING DEVICE	LOCATION
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	AUG24	JUL24	JUN24	MAY24	APR24	MAR24	FEB24	JAN24	DEC23	NOV23	OCT23	SEP23	ZONE
MT/ND	211	Sidney Border - MonDak Tfr - Sidney Plt	1190	1194	1192	1190	1187	1184	1185	1187	1179	1192	1195	1194	1196	211
ND	24	Williston Border - Charbonneau Station	1188	1185	1191	1186	1184	1181	1181	1192	1197	1194	1194	1188	1188	24
ND	25	Watford City West Border	1198	1197	1192	1187	1201	1193	1194	1194	1198	1197	1198	1207	1212	25
ND	28	Bismarck Station - Glen Ullin Station	1169	1203	1200	1202	1200	1160	1147	1126	1131	1138	1161	1154	1202	28
ND	31	Dickinson Brd - Belfield Trf - G Ullin Stn	1126	1111	1115	1108	1106	1133	1147	1127	1127	1134	1147	1138	1121	31
ND/MT	32	Cabin Creek Station - Belfied Transfer	1130	1135	1110	1135	1144	1144	1116	1118	1122	1132	1138	1135	1135	32
ND	33	Little Knife Plant	1171	1165	1173	1170	1170	1173	1173	1171	1169	1168	1174	1173	1177	33
ND	34	Badlands Plant/Bowman Border	1019	980	981	1040	1043	1005	1027	1000	1094	1079	1017	980	984	34
ND	43	Watford City East Border	1107	1117	1085	1081	1075	1066	1085	1113	1127	1132	1154	1119	1124	43
ND/MT	241	Fairview Border	1187	1182	1185	1181	1172	1182	1186	1192	1185	1192	1198	1192	1195	241
ND	267	North Tioga Transfer - Nesson Plant	1179	1199	1191	1191	1193	1183	1187	1165	1166	1171	1169	1169	1166	267
ND	261	Tioga Comp Station - Robinson Lake Plant	1195	1200	1195	1197	1195	1196	1195	1192	1178	1201	1203	1203	1187	261
ND	262	Minot Bdr - Palermo Bdr - Bismarck Stn	1200	1201	1199	1200	1199	1195	1195	1196	1198	1202	1204	1206	1202	262
ND	263	Lignite Plant	1131	1131	1131	1131	1131	1131	1131	1131	1131	1131	1131	1131	1131	263
ND	264	Epping Border	1186	1182	1179	1172	1168	1176	1172	1193	1204	1206	1206	1191	1183	264
ND	265	Tioga Comp Station - County Line Plant	1180	1181	1183	1174	1188	1195	1192	1179	1169	1183	1175	1171	1174	265
ND	266	County Line Plant	1182	1183	1187	1174	1188	1195	1193	1181	1171	1184	1177	1172	1179	266
ND	271	Bismarck Station - Cleveland Station	1198	1203	1200	1202	1201	1198	1192	1183	1186	1201	1206	1204	1202	271
ND	272	Cleveland Station - Mapleton	1197	1202	1200	1201	1200	1197	1191	1183	1185	1200	1204	1205	1201	272
ND	273	Cleveland Station - Grafton Border	1198	1202	1200	1202	1199	1198	1191	1183	1186	1201	1205	1204	1202	273
ND	550	Mandan Border / NBPL-St Anthony	1157	1179	1168	1160	1192	1157	1146	1126	1124	1138	1161	1142	1188	550
ND	610	MDU-Watford City BTU	1134	1127	1108	1111	1121	1112	1118	1138	1150	1151	1167	1152	1150	610
ND	802	NBPL - Linton	1107	1108	1100	1100	1104	1109	1114	1114	1103	1114	1104	1106	1110	802
ND	903	Hettinger Propane	2549	2549	2549	2549	2549	2549	2549	2549	2549	2549	2549	2549	2549	903
ND	600	Alliance Pipeline - Hankinson	1148	1157	1148	1147	1148	1148	1146	1144	1144	1147	1146	1153	1149	600
ND	601	Alliance Pipeline - Milnor	1148	1157	1149	1147	1149	1148	1146	1144	1144	1147	1147	1154	1149	601

THERMAL ZONE VARIANCE DOCUMENTATION		
August 2024		
<i>ZONE</i>	<i>BTU VARIANCE</i>	<i>REASON</i>
32	25	Operational/Blend
43	32	Operational/Blend