



A Subsidiary of MDU Resources Group, Inc.

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June 18, 2025

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

Re: Case No. PU-25-002 (Therm Billing)  
Monthly Report – April 2025

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 May 2025.
2. Attachment B consists of copies of the monthly Heating Value Test Reports received from our suppliers for the month of April 2025.
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 April 2025.

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  
Vice President of Regulatory Affairs

**Montana-Dakota Utilities Co.**  
**Therm Billing Factors - North Dakota**  
**May-25**

<u>Town</u>	<u>Heat Zone</u>	<u>Therm Factor</u>
MDU-303-ALEXANDER	025	1.1343
MDU-308-ARNEGARD	025	1.1343
MDU-314-APPLE VALLEY	271	1.1530
MDU-318-BEACH	032	1.0443
MDU-319-BELFIELD	032	1.0547
MDU-323-BERTHOLD	262	1.1381
MDU-327-BISMARCK	028	1.0864
MDU-330-BOWMAN	034	1.0063
MDU-337-BURLINGTON	262	1.1627
MDU-343-CARRINGTON	273	1.1521
MDU-719-CASSELTON	272	1.1602
MDU-344-CLEVELAND	272	1.1439
MDU-364-CAVALIER	273	1.1764
MDU-365-DAWSON	271	1.1449
MDU-368-DES LACS	262	1.1463
MDU-369-DICKINSON	031	1.0606
MDU-374-FT TOTTEN	273	1.1602
MDU-375-DEVILS LAKE	273	1.1602
MDU-379-BARLOW	273	1.1521
MDU-384-EPPING	264	1.1343
MDU-387-ELDRIDGE	272	1.1521
MDU-407-GLADSTONE	031	1.0606
MDU-411-GLEN ULLIN	031	1.0682
MDU-413-GOLVA	032	1.0289
MDU-416-GARRISON	262	1.1463
MDU-417-GRAFTON	273	1.1845
MDU-403-GWINNER	601	1.1330
MDU-429-HEBRON	031	1.0682
MDU-432-HETTINGER	903	2.4049
MDU-449-JAMESTOWN	272	1.1602
MDU-459-KILLDEER	033	1.0975
MDU-751-KINDRED	272	1.1602
MDU-463-LANGDON	273	1.1521
MDU-469-LEFOR	031	1.0606
MDU-474-LIGNITE	263	1.0759
MDU-475-LINTON	802	1.0421
MDU-478-LINCOLN	028	1.0864
MDU-488-MCKENZIE	271	1.1530
MDU-494-MEDINA	271	1.1449
MDU-498-MANDAN	028	1.0864
MDU-500-MARMARTH	034	1.0138
MDU-505-MINOT	262	1.1381
MDU-510-MOTT	031	1.0606
MDU-512-MAX	262	1.1381
MDU-513-MILNOR	601	1.1330
MDU-522-NEW ENGLAND	031	1.0529
MDU-524-NEW SALEM	028	1.0635
MDU-532-NEW ROCKFORD	273	1.1521
MDU-539-PARK RIVER	273	1.1764

MDU-540-PALERMO	262	1.1381
MDU-558-RAY	264	1.1343
MDU-561-REGENT	031	1.0606
MDU-563-RHAME	034	0.9989
MDU-564-RICHARDTON	031	1.0529
MDU-568-ROSS	261	1.1290
MDU-572-RUTHVILLE	262	1.1627
MDU-574-SANBORN	272	1.1602
MDU-583-SENTINEL BUTTE	032	1.0443
MDU-588-SOUTH HEART	031	1.0606
MDU-717-SPIRITWOOD	272	1.1602
MDU-590-SPRINGBROOK	264	1.1343
MDU-591-STANLEY	261	1.1372
MDU-593-STEELE	271	1.1449
MDU-594-STERLING	028	1.0864
MDU-598-SHEYENNE	273	1.1602
MDU-605-SURREY	262	1.1627
MDU-610-TAPPEN	271	1.1449
MDU-611-TAYLOR	031	1.0529
MDU-616-TIOGA	260	1.1224
MDU-619-TURTLE LAKE	262	1.1463
MDU-620-TRENTON	024	1.1473
MDU-624-UNDERWOOD	262	1.1463
MDU-625-VALLEY CITY	272	1.1683
MDU-629-WALHALLA	273	1.1764
MDU-632-WATFORD CITY	610	1.0352
MDU-104-WAHPETON	247	1.0261
MDU-636-WHEELLOCK	264	1.1262
MDU-637-WHITE EARTH	261	1.1372
MDU-642-WILLISTON	024	1.1473
MDU-646-WASHBURN	262	1.1463
MDU-647-WILTON	262	1.1381
MDU-664-RIVERDALE	262	1.1463
MDU-691-FAIRVIEW	241	1.1330
MDU-712-MINOT AFB	262	1.1627
MDU-718-FAIRMOUNT	600	1.1307
MDU-732-NEKOMA	273	1.1521
MDU-732-MSR SITE	273	1.1521

# Source Daily Summary

April 2025

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	0.7067	1157.6	1178.1	1177.8	0.662	3.487	72.031	21.052	2.536	0.077	0.138	0.007	0.005	0.006	0.000	0.000	0.000	0.000	1401.64	
2	0.7287	1170.3	1191.0	1190.7	1.369	3.698	69.447	21.700	3.346	0.142	0.263	0.013	0.010	0.010	0.000	0.000	0.000	0.000	1395.22	
3	0.7306	1173.6	1194.4	1194.0	1.388	3.647	69.022	22.222	3.280	0.142	0.266	0.013	0.010	0.010	0.000	0.000	0.000	0.000	1397.37	
4	0.7283	1174.3	1195.1	1194.7	1.328	3.485	69.517	21.905	3.305	0.144	0.277	0.016	0.013	0.010	0.000	0.000	0.000	0.000	1400.34	
5	0.7252	1176.8	1197.7	1197.3	1.169	3.273	70.059	21.735	3.286	0.143	0.289	0.019	0.018	0.010	0.000	0.000	0.000	0.000	1406.44	
6	0.7221	1171.6	1192.4	1192.0	1.174	3.286	70.532	21.208	3.320	0.145	0.289	0.018	0.017	0.010	0.000	0.000	0.000	0.000	1403.19	
7	0.7254	1175.7	1196.5	1196.2	1.215	3.295	70.188	21.422	3.376	0.150	0.305	0.019	0.018	0.010	0.000	0.000	0.000	0.000	1404.84	
8	0.7270	1174.7	1195.5	1195.1	1.275	3.412	69.919	21.481	3.431	0.148	0.291	0.017	0.015	0.011	0.000	0.000	0.000	0.000	1402.17	
9	0.7218	1170.1	1190.8	1190.4	1.183	3.345	70.814	20.821	3.366	0.143	0.286	0.017	0.016	0.010	0.000	0.000	0.000	0.000	1401.64	
10	0.7238	1172.9	1193.6	1193.2	1.230	3.291	70.571	20.993	3.417	0.150	0.302	0.019	0.017	0.010	0.000	0.000	0.000	0.000	1403.03	
11	0.7234	1173.8	1194.6	1194.0	1.204	3.230	70.718	20.880	3.452	0.152	0.313	0.020	0.019	0.011	0.000	0.000	0.000	0.000	1404.61	
12	0.7270	1178.7	1199.6	1199.1	1.225	3.239	70.162	21.249	3.606	0.154	0.315	0.020	0.019	0.012	0.000	0.000	0.000	0.000	1406.95	
13	0.7220	1175.0	1195.8	1195.4	1.177	3.070	70.930	20.896	3.439	0.143	0.296	0.019	0.019	0.011	0.000	0.000	0.000	0.000	1407.34	
14	0.7206	1170.4	1191.2	1190.8	1.166	3.234	71.130	20.599	3.376	0.146	0.301	0.019	0.019	0.011	0.000	0.000	0.000	0.000	1403.23	
15	0.7233	1172.9	1193.7	1193.2	1.223	3.250	70.761	20.775	3.480	0.153	0.312	0.019	0.018	0.010	0.000	0.000	0.000	0.000	1403.60	
16	0.7211	1170.5	1191.2	1190.7	1.176	3.263	70.969	20.769	3.338	0.145	0.294	0.018	0.017	0.010	0.000	0.000	0.000	0.000	1402.81	
17	0.7238	1172.7	1193.5	1193.0	1.232	3.300	70.416	21.052	3.435	0.150	0.300	0.018	0.017	0.010	0.000	0.000	0.000	0.000	1402.78	
18	0.7253	1174.9	1195.7	1195.3	1.225	3.316	70.151	21.480	3.346	0.145	0.291	0.018	0.017	0.010	0.000	0.000	0.000	0.000	1403.99	
19	0.7255	1176.4	1197.2	1196.7	1.205	3.278	70.231	21.334	3.454	0.149	0.302	0.019	0.018	0.011	0.000	0.000	0.000	0.000	1405.53	
20	0.7230	1171.6	1192.3	1191.9	1.209	3.325	70.664	20.918	3.402	0.145	0.293	0.018	0.016	0.010	0.000	0.000	0.000	0.000	1402.26	
21	0.7223	1171.7	1192.4	1192.0	1.193	3.288	70.466	21.429	3.190	0.131	0.262	0.016	0.015	0.010	0.000	0.000	0.000	0.000	1402.98	
22	0.7253	1169.3	1190.0	1189.6	1.297	3.554	69.914	21.597	3.217	0.132	0.252	0.014	0.011	0.010	0.000	0.000	0.000	0.000	1397.28	
23	0.7257	1173.0	1193.7	1193.3	1.238	3.402	69.929	21.685	3.305	0.134	0.266	0.016	0.014	0.011	0.000	0.000	0.000	0.000	1401.25	
24	0.7270	1173.7	1194.5	1194.0	1.299	3.441	69.829	21.608	3.356	0.143	0.282	0.017	0.015	0.011	0.000	0.000	0.000	0.000	1400.92	
25	0.7235	1171.4	1192.2	1191.7	1.231	3.355	70.433	21.199	3.324	0.139	0.277	0.017	0.016	0.010	0.000	0.000	0.000	0.000	1401.55	
26	0.7230	1170.5	1191.2	1190.7	1.235	3.359	70.577	21.030	3.326	0.141	0.287	0.018	0.017	0.010	0.000	0.000	0.000	0.000	1400.89	
27	0.7216	1170.5	1191.2	1190.7	1.189	3.297	70.826	20.891	3.323	0.141	0.288	0.018	0.017	0.010	0.000	0.000	0.000	0.000	1402.26	
28	0.7208	1170.8	1191.5	1191.0	1.202	3.265	70.668	20.989	3.282	0.139	0.287	0.018	0.018	0.011	0.000	0.000	0.000	0.000	1403.47	
29	0.7198	1168.2	1188.9	1188.3	1.184	3.273	71.178	20.588	3.304	0.140	0.287	0.018	0.017	0.011	0.000	0.000	0.000	0.000	1401.28	
30	0.7211	1166.4	1187.1	1186.5	1.235	3.425	70.771	20.927	3.200	0.134	0.266	0.016	0.015	0.010	0.000	0.000	0.000	0.000	1397.91	
Avg	0.7235	1172.0	1192.7	1192.3	1.211	3.346	70.427	21.214	3.327	0.141	0.283	0.017	0.016	0.010	0.000	0.000	0.000	0.000	1402.29	

# Source Daily Summary

April 2025

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	0.7260	1185.7	1206.7	1206.4	1.144	2.845	69.883	22.403	3.260	0.128	0.289	0.020	0.023	0.005	0.000	0.000	0.000	0.000	1416.27	
2	0.7246	1183.6	1204.6	1204.3	1.128	2.579	70.297	22.211	3.289	0.137	0.308	0.022	0.026	0.004	0.000	0.000	0.000	0.000	1415.32	
3	0.7216	1183.4	1204.3	1204.0	1.099	2.640	70.712	21.904	3.171	0.131	0.293	0.021	0.024	0.005	0.000	0.000	0.000	0.000	1417.76	
4	0.7184	1181.6	1202.5	1202.2	1.066	2.501	71.459	21.257	3.209	0.140	0.313	0.023	0.027	0.006	0.000	0.000	0.000	0.000	1418.73	
5	0.7166	1180.9	1201.8	1201.5	1.052	2.391	71.855	20.973	3.214	0.142	0.315	0.024	0.027	0.006	0.000	0.000	0.000	0.000	1419.72	
6	0.7181	1181.2	1202.1	1201.8	1.061	2.507	71.544	21.143	3.232	0.142	0.315	0.024	0.027	0.006	0.000	0.000	0.000	0.000	1418.52	
7	0.7171	1175.5	1196.3	1196.1	1.061	2.756	71.588	20.949	3.157	0.135	0.300	0.022	0.026	0.006	0.000	0.000	0.000	0.000	1412.72	
8	0.7140	1174.4	1195.2	1194.9	1.062	2.533	72.056	20.856	3.043	0.125	0.276	0.021	0.024	0.005	0.000	0.000	0.000	0.000	1414.43	
9	0.7094	1167.7	1188.3	1188.1	1.026	2.563	72.901	20.066	3.001	0.123	0.273	0.020	0.023	0.005	0.000	0.000	0.000	0.000	1410.91	
10	0.7110	1170.2	1191.0	1190.7	1.035	2.543	72.658	20.254	3.059	0.124	0.278	0.020	0.023	0.005	0.000	0.000	0.000	0.000	1412.43	
11	0.7162	1178.3	1199.2	1198.8	1.072	2.479	71.854	20.920	3.193	0.133	0.297	0.022	0.025	0.005	0.000	0.000	0.000	0.000	1417.05	
12	0.7145	1185.7	1206.7	1206.4	1.081	1.857	72.299	21.090	3.194	0.133	0.292	0.023	0.026	0.004	0.000	0.000	0.000	0.000	1427.62	
13	0.7106	1169.1	1189.8	1189.6	1.043	2.565	72.609	20.377	2.980	0.118	0.262	0.019	0.022	0.005	0.000	0.000	0.000	0.000	1411.43	
14	0.7090	1166.9	1187.6	1187.3	1.026	2.570	72.914	20.101	2.955	0.120	0.267	0.019	0.022	0.005	0.000	0.000	0.000	0.000	1410.42	
15	0.7078	1166.8	1187.5	1187.2	1.018	2.583	73.086	19.915	2.966	0.120	0.266	0.020	0.022	0.004	0.000	0.000	0.000	0.000	1411.48	
16	0.7018	1197.2	1218.4	1218.0	1.026	2.512	73.330	19.729	2.962	0.122	0.270	0.020	0.023	0.005	0.000	0.000	0.000	0.000	1454.31	
17	0.7066	1172.4	1193.1	1192.8	1.024	2.602	73.081	19.937	2.928	0.119	0.263	0.019	0.022	0.005	0.000	0.000	0.000	0.000	1419.46	
18	0.7096	1166.0	1186.6	1186.4	1.023	2.686	72.710	20.240	2.923	0.116	0.257	0.018	0.021	0.004	0.000	0.000	0.000	0.000	1408.73	
19	0.7095	1165.4	1186.1	1185.8	1.024	2.716	72.740	20.158	2.939	0.118	0.262	0.019	0.021	0.004	0.000	0.000	0.000	0.000	1408.08	
20	0.7122	1170.4	1191.1	1190.8	1.043	2.634	72.279	20.624	3.002	0.117	0.259	0.018	0.020	0.003	0.000	0.000	0.000	0.000	1411.44	
21	0.7120	1170.2	1190.9	1190.6	1.011	2.687	72.909	20.059	2.921	0.115	0.256	0.018	0.021	0.003	0.000	0.000	0.000	0.000	1411.35	
22	0.7118	1170.0	1190.7	1190.4	1.006	2.705	73.004	19.966	2.909	0.114	0.254	0.018	0.020	0.003	0.000	0.000	0.000	0.000	1411.31	
23	0.7116	1169.8	1190.5	1190.2	1.006	2.705	73.004	19.966	2.909	0.114	0.254	0.018	0.020	0.003	0.000	0.000	0.000	0.000	1411.27	
24	0.7115	1169.7	1190.4	1190.1	1.006	2.705	73.004	19.966	2.909	0.114	0.254	0.018	0.020	0.003	0.000	0.000	0.000	0.000	1411.25	
25	0.7113	1169.5	1190.2	1189.9	1.006	2.705	73.004	19.966	2.909	0.114	0.254	0.018	0.020	0.003	0.000	0.000	0.000	0.000	1411.22	
26	0.7111	1169.3	1190.0	1189.7	1.006	2.705	73.004	19.966	2.909	0.114	0.254	0.018	0.020	0.003	0.000	0.000	0.000	0.000	1411.18	
27	0.7109	1169.1	1189.8	1189.5	1.006	2.705	73.004	19.966	2.909	0.114	0.254	0.018	0.020	0.003	0.000	0.000	0.000	0.000	1411.14	
28	0.7107	1168.9	1189.6	1189.3	1.018	2.623	72.899	19.771	3.203	0.135	0.301	0.022	0.025	0.005	0.000	0.000	0.000	0.000	1411.03	
29	0.7075	1162.0	1182.6	1182.2	1.001	2.771	73.204	19.590	2.996	0.121	0.270	0.020	0.023	0.003	0.000	0.000	0.000	0.000	1405.90	
30	0.7094	1163.0	1183.6	1183.2	1.006	2.876	72.842	19.809	3.036	0.121	0.267	0.019	0.021	0.003	0.000	0.000	0.000	0.000	1405.28	
Avg	0.7127	1173.0	1194.2	1193.9	1.039	2.608	72.391	20.471	3.043	0.124	0.276	0.020	0.023	0.004	0.000	0.000	0.000	0.000	1414.59	

# Gas Composition and Properties

Effective April 1, 2025

Attachment B  
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Source #: 0602160  
Name: FAIRVIEW BORDER

Component	Mole %	Liquid Content	Mass %
Carbon Dioxide, CO2	1.0476		2.2389
Nitrogen, N2	3.0301		4.1221
Methane, C1	72.2493		56.2867
Ethane, C2	20.0756	5.3727	29.3148
Propane, C3	3.1571	0.8704	6.7606
iso-Butane, iC4	0.1231	0.0403	0.3475
n-Butane, nC4	0.2700	0.0852	0.7621
iso-Pentane, iC5	0.0207	0.0076	0.0725
n-Pentane, nC5	0.0236	0.0086	0.0827
Neo-Pentane, neo			
Hexanes Plus, C6+	0.0029	0.0012	0.0121
Argon, Ar			
Carbon Monoxide, CO			
Hydrogen, H2			
Oxygen, O2			
Helium, He			
Water, H2O			
Hydrogen Sulfide, H2S			
<b>Totals</b>	<b>100.0000</b>	<b>6.3860</b>	<b>100.0000</b>

Property	Total Sample	C6 Plus Fraction
Pressure Base	14.730	
Temperature Base	60.00	
HCDP @ Sample Pressure		
Cricondentherm	-1.290	
HV, Dry @ Base P, T	1185.72	
HV, Sat @ Base P, T	1165.08	
HV, Sat @ Sample P, T	1185.72	
Relative Density	0.7130	
C6+: 100		

**Sample**

Date: 04/01/2025                      Type:

Tech: Wayne Sampson

Pressure:                                      Temp.:

Gauge:    H2O:

Atm. Pressure:                                      H2S:

Remarks:

**Analysis**

Date:    Instrument:

Tech:    Cylinder:

Remarks:

# Gas Composition and Properties

Effective April 1, 2025

Attachment B  
Page 4 of 25

Source #: 0602225  
Name: WATFORD CITY WEST BORDER

Component	Mole %	Liquid Content	Mass %
Carbon Dioxide, CO2	1.1026		2.3152
Nitrogen, N2	3.4041		4.5499
Methane, C1	71.1924		54.4923
Ethane, C2	19.6644	5.2632	28.2117
Propane, C3	3.7606	1.0369	7.9119
iso-Butane, iC4	0.2360	0.0773	0.6545
n-Butane, nC4	0.5201	0.1641	1.4423
iso-Pentane, iC5	0.0501	0.0183	0.1725
n-Pentane, nC5	0.0550	0.0200	0.1893
Neo-Pentane, neo			
Hexanes Plus, C6+	0.0147	0.0060	0.0604
Argon, Ar			
Carbon Monoxide, CO			
Hydrogen, H2			
Oxygen, O2			
Helium, He			
Water, H2O			
Hydrogen Sulfide, H2S			
<b>Totals</b>	<b>100.0000</b>	<b>6.5850</b>	<b>100.0000</b>

Property	Total Sample	C6 Plus Fraction
Pressure Base	14.730	
Temperature Base	60.00	
HCDP @ Sample Pressure		
Cricondentherm	12.338	
HV, Dry @ Base P, T	1197.96	
HV, Sat @ Base P, T	1177.11	
HV, Sat @ Sample P, T	1197.96	
Relative Density	0.7258	
C6+:		

**Sample**

Date: 04/01/2025                      Type:

Tech: Wayne Sampson

Pressure:                                      Temp.:

Gauge:    H2O:

Atm. Pressure:                                      H2S:

Remarks:

**Analysis**

Date:    Instrument:

Tech:    Cylinder:

Remarks:

# Source Daily Summary

April 2025

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	0.7078	1174.5	1195.3	1195.1	0.915	2.172	73.501	19.712	3.174	0.147	0.318	0.025	0.029	0.007	0.000	0.000	0.000	0.000	1420.77	0.38
2	0.7050	1167.6	1188.3	1188.1	0.918	2.316	73.947	19.240	3.071	0.143	0.306	0.024	0.028	0.007	0.000	0.000	0.000	0.000	1415.13	-1.62
3	0.7062	1170.2	1191.0	1190.8	0.922	2.264	73.773	19.401	3.124	0.145	0.310	0.024	0.028	0.007	0.000	0.000	0.000	0.000	1417.15	-0.70
4	0.7209	1150.5	1170.8	1170.6	0.994	4.742	70.198	20.618	3.001	0.119	0.278	0.020	0.024	0.006	0.000	0.000	0.000	0.000	1379.01	-1.11
5	0.7238	1154.6	1175.0	1174.8	1.010	4.743	69.463	21.457	2.914	0.110	0.258	0.018	0.022	0.006	0.000	0.000	0.000	0.000	1381.16	-0.94
6	0.7232	1156.1	1176.5	1176.3	1.016	4.590	69.868	20.956	3.132	0.116	0.275	0.019	0.023	0.006	0.000	0.000	0.000	0.000	1383.47	0.17
7	0.7253	1159.9	1180.4	1180.2	0.996	4.584	69.820	20.600	3.586	0.110	0.258	0.018	0.022	0.005	0.000	0.000	0.000	0.000	1385.97	1.86
8	0.7514	1180.4	1201.3	1201.1	0.969	5.820	66.512	20.710	5.341	0.172	0.411	0.027	0.031	0.007	0.000	0.000	0.000	0.000	1385.82	16.91
9	0.7509	1173.4	1194.2	1193.9	0.921	6.262	66.786	19.807	5.537	0.182	0.437	0.028	0.032	0.007	0.000	0.000	0.000	0.000	1378.10	17.37
10	0.7588	1183.8	1204.8	1204.5	0.946	6.333	65.660	20.425	5.889	0.196	0.475	0.031	0.035	0.009	0.000	0.000	0.000	0.000	1383.05	21.45
11	0.7358	1162.2	1182.8	1182.5	0.874	5.596	69.289	18.620	4.977	0.167	0.410	0.028	0.031	0.008	0.000	0.000	0.000	0.000	1379.14	9.92
12	0.7014	1153.6	1174.0	1173.7	1.043	2.652	73.820	19.556	2.661	0.074	0.166	0.012	0.013	0.003	0.000	0.000	0.000	0.000	1401.90	-10.00
13	0.7297	1156.9	1177.3	1177.1	1.028	5.127	68.945	20.919	3.496	0.127	0.305	0.022	0.026	0.006	0.000	0.000	0.000	0.000	1378.30	3.54
14	0.7222	1141.8	1162.0	1161.7	0.956	5.455	70.163	19.614	3.337	0.120	0.302	0.021	0.025	0.006	0.000	0.000	0.000	0.000	1367.30	-0.14
15	0.7481	1177.5	1198.3	1198.1	0.974	5.675	66.947	20.735	4.982	0.169	0.443	0.030	0.035	0.009	0.000	0.000	0.000	0.000	1385.48	15.55
16	0.7354	1169.6	1190.4	1190.1	0.984	4.947	68.511	20.941	4.037	0.143	0.372	0.027	0.031	0.008	0.000	0.000	0.000	0.000	1388.16	8.30
17	0.7315	1160.3	1180.8	1180.6	0.957	5.194	69.215	19.998	4.089	0.144	0.347	0.023	0.027	0.006	0.000	0.000	0.000	0.000	1380.68	6.72
18	0.7214	1156.0	1176.4	1176.2	1.037	4.390	70.124	21.059	2.949	0.116	0.276	0.020	0.023	0.006	0.000	0.000	0.000	0.000	1385.13	-0.73
19	0.7162	1141.6	1161.8	1161.6	0.857	5.042	71.840	18.002	3.760	0.133	0.317	0.021	0.024	0.005	0.000	0.000	0.000	0.000	1372.90	-1.63
20	0.7562	1180.9	1201.8	1201.6	0.950	6.257	66.031	20.284	5.754	0.193	0.461	0.030	0.033	0.008	0.000	0.000	0.000	0.000	1382.06	20.08
21	0.7518	1175.8	1196.6	1196.4	0.931	6.187	66.676	19.937	5.572	0.187	0.444	0.028	0.030	0.008	0.000	0.000	0.000	0.000	1380.07	18.03
22	0.7560	1180.0	1200.9	1200.7	0.947	6.301	66.039	20.243	5.753	0.191	0.458	0.029	0.033	0.008	0.000	0.000	0.000	0.000	1381.14	19.89
23	0.7467	1175.6	1196.4	1196.1	0.975	5.655	67.131	20.620	4.988	0.166	0.403	0.026	0.029	0.007	0.000	0.000	0.000	0.000	1384.58	14.56
24	0.7443	1171.7	1192.4	1192.2	0.954	5.697	67.542	20.234	4.945	0.165	0.401	0.026	0.029	0.007	0.000	0.000	0.000	0.000	1382.27	13.47
25	0.7459	1172.9	1193.7	1193.4	0.948	5.781	67.373	20.175	5.075	0.170	0.414	0.027	0.030	0.007	0.000	0.000	0.000	0.000	1382.19	14.63
26	0.7545	1178.7	1199.6	1199.3	0.952	6.230	66.205	20.284	5.634	0.185	0.444	0.028	0.032	0.007	0.000	0.000	0.000	0.000	1381.03	18.90
27	0.7578	1181.8	1202.7	1202.4	0.948	6.359	65.813	20.270	5.885	0.193	0.463	0.030	0.033	0.008	0.000	0.000	0.000	0.000	1381.60	20.72
28	0.7471	1175.2	1196.0	1195.8	0.963	5.734	67.164	20.428	5.035	0.176	0.427	0.030	0.034	0.008	0.000	0.000	0.000	0.000	1383.77	15.33
29	0.7317	1167.1	1187.8	1187.6	1.022	4.699	68.891	21.177	3.659	0.143	0.346	0.025	0.030	0.007	0.000	0.000	0.000	0.000	1388.61	6.34
30	0.7518	1180.1	1201.0	1200.7	0.965	5.876	66.538	20.577	5.347	0.181	0.444	0.030	0.034	0.008	0.000	0.000	0.000	0.000	1385.11	17.89
Avg	0.7353	1168.0	1188.3	1188.1	0.962	5.089	68.793	20.220	4.357	0.153	0.366	0.025	0.029	0.007	0.000	0.000	0.000	0.000	1386.03	8.84

# Source Daily Summary

April 2025

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	0.7603	1186.9	1208.0	1207.8	0.939	6.289	65.493	20.541	5.969	0.200	0.490	0.033	0.037	0.010	0.000	0.000	0.000	0.000	1385.38	
2	0.7590	1184.3	1205.3	1205.1	0.941	6.325	65.609	20.510	5.869	0.196	0.473	0.032	0.036	0.009	0.000	0.000	0.000	0.000	1383.48	
3	0.7578	1182.1	1203.0	1202.8	0.940	6.356	65.737	20.430	5.806	0.192	0.463	0.031	0.035	0.009	0.000	0.000	0.000	0.000	1381.91	
4	0.7578	1181.8	1202.7	1202.5	0.939	6.370	65.747	20.405	5.811	0.192	0.462	0.031	0.034	0.009	0.000	0.000	0.000	0.000	1381.61	
5	0.7407	1167.9	1188.6	1188.4	0.980	5.561	67.443	21.247	4.207	0.147	0.355	0.024	0.029	0.008	0.000	0.000	0.000	0.000	1381.12	
6	0.7219	1148.6	1168.9	1168.7	1.018	4.926	69.581	21.362	2.715	0.107	0.249	0.017	0.021	0.006	0.000	0.000	0.000	0.000	1375.75	
7	0.7469	1171.8	1192.6	1192.4	0.964	5.924	66.907	20.671	4.931	0.160	0.382	0.025	0.028	0.007	0.000	0.000	0.000	0.000	1379.94	
8	0.7560	1180.3	1201.2	1200.9	0.944	6.283	65.928	20.481	5.669	0.185	0.441	0.029	0.032	0.008	0.000	0.000	0.000	0.000	1381.47	
9	0.7565	1180.5	1201.4	1201.2	0.939	6.328	65.947	20.301	5.767	0.190	0.458	0.030	0.033	0.008	0.000	0.000	0.000	0.000	1381.30	
10	0.7552	1178.3	1199.2	1198.9	0.949	6.325	66.072	20.301	5.654	0.185	0.446	0.029	0.033	0.008	0.000	0.000	0.000	0.000	1379.93	
11	0.7586	1184.3	1205.2	1204.8	0.948	6.285	65.671	20.499	5.849	0.194	0.477	0.032	0.036	0.009	0.000	0.000	0.000	0.000	1383.75	
12	0.7552	1177.6	1198.5	1198.2	0.948	6.366	66.049	20.272	5.686	0.181	0.435	0.027	0.030	0.007	0.000	0.000	0.000	0.000	1379.15	
13	0.7538	1174.9	1195.7	1195.5	0.946	6.406	66.257	20.092	5.616	0.182	0.437	0.027	0.030	0.007	0.000	0.000	0.000	0.000	1377.23	
14	0.7534	1173.8	1194.6	1194.4	0.946	6.437	66.293	20.066	5.578	0.173	0.441	0.028	0.031	0.007	0.000	0.000	0.000	0.000	1376.28	
15	0.7535	1174.2	1195.0	1194.7	0.944	6.428	66.261	20.114	5.578	0.172	0.440	0.027	0.030	0.007	0.000	0.000	0.000	0.000	1376.61	
16	0.7561	1184.0	1205.0	1204.7	0.954	6.057	66.031	20.566	5.631	0.187	0.491	0.033	0.039	0.010	0.000	0.000	0.000	0.000	1385.78	
17	0.7306	1160.4	1180.9	1180.7	0.983	5.069	68.927	20.840	3.687	0.130	0.312	0.021	0.025	0.006	0.000	0.000	0.000	0.000	1381.63	
18	0.7544	1176.7	1197.5	1197.3	0.948	6.346	66.218	20.161	5.627	0.185	0.447	0.028	0.032	0.008	0.000	0.000	0.000	0.000	1378.75	
19	0.7490	1171.6	1192.3	1192.1	0.935	6.174	67.014	19.830	5.374	0.178	0.430	0.027	0.031	0.008	0.000	0.000	0.000	0.000	1377.75	
20	0.7498	1172.7	1193.5	1193.2	0.935	6.180	66.880	19.920	5.413	0.181	0.428	0.027	0.030	0.007	0.000	0.000	0.000	0.000	1378.34	
21	0.7546	1177.9	1198.7	1198.4	0.949	6.289	66.204	20.215	5.650	0.186	0.442	0.028	0.031	0.008	0.000	0.000	0.000	0.000	1379.96	
22	0.7551	1178.7	1199.6	1199.4	0.949	6.293	66.126	20.243	5.684	0.188	0.450	0.029	0.032	0.008	0.000	0.000	0.000	0.000	1380.48	
23	0.7542	1177.9	1198.7	1198.5	0.949	6.261	66.254	20.203	5.634	0.184	0.448	0.028	0.032	0.007	0.000	0.000	0.000	0.000	1380.28	
24	0.7539	1177.7	1198.6	1198.3	0.948	6.243	66.280	20.215	5.627	0.182	0.441	0.027	0.030	0.007	0.000	0.000	0.000	0.000	1380.39	
25	0.7549	1179.2	1200.1	1199.8	0.950	6.238	66.166	20.284	5.655	0.186	0.452	0.029	0.032	0.008	0.000	0.000	0.000	0.000	1381.27	
26	0.7550	1178.6	1199.5	1199.2	0.949	6.283	66.171	20.203	5.686	0.188	0.451	0.029	0.032	0.008	0.000	0.000	0.000	0.000	1380.51	
27	0.7552	1178.3	1199.1	1198.7	0.949	6.327	66.113	20.208	5.708	0.185	0.443	0.028	0.032	0.007	0.000	0.000	0.000	0.000	1379.86	
28	0.7561	1180.9	1201.8	1201.6	0.947	6.257	66.019	20.303	5.765	0.189	0.451	0.029	0.032	0.008	0.000	0.000	0.000	0.000	1382.09	
29	0.7488	1174.1	1194.9	1194.6	0.968	5.950	66.849	20.450	5.122	0.173	0.420	0.028	0.032	0.008	0.000	0.000	0.000	0.000	1380.95	
30	0.7585	1184.9	1205.9	1205.6	0.948	6.236	65.745	20.429	5.892	0.196	0.480	0.031	0.035	0.008	0.000	0.000	0.000	0.000	1384.59	
Avg	0.7524	1177.0	1197.5	1197.3	0.951	6.160	66.400	20.379	5.429	0.179	0.434	0.028	0.032	0.008	0.000	0.000	0.000	0.000	1380.58	

# Source Daily Summary

April 2025

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	0.7603	1184.4	1205.3	1205.1	0.951	6.431	65.467	20.417	5.971	0.202	0.486	0.032	0.036	0.009	0.000	0.000	0.000	0.000	1382.34	
2	0.7594	1182.6	1203.5	1203.3	0.953	6.448	65.566	20.365	5.928	0.197	0.472	0.031	0.034	0.008	0.000	0.000	0.000	0.000	1381.12	
3	0.7563	1177.4	1198.2	1198.0	0.958	6.468	65.905	20.232	5.745	0.186	0.440	0.028	0.030	0.007	0.000	0.000	0.000	0.000	1377.86	
4	0.7560	1177.4	1198.3	1198.0	0.961	6.437	65.948	20.233	5.729	0.186	0.440	0.028	0.030	0.007	0.000	0.000	0.000	0.000	1378.13	
5	0.7557	1176.5	1197.4	1197.1	0.957	6.473	65.957	20.217	5.713	0.184	0.435	0.027	0.030	0.007	0.000	0.000	0.000	0.000	1377.32	
6	0.7552	1175.4	1196.2	1195.9	0.960	6.487	66.032	20.165	5.675	0.184	0.435	0.027	0.029	0.006	0.000	0.000	0.000	0.000	1376.49	
7	0.7561	1176.3	1197.1	1196.9	0.957	6.523	65.897	20.205	5.731	0.186	0.438	0.027	0.030	0.006	0.000	0.000	0.000	0.000	1376.71	
8	0.7564	1177.8	1198.6	1198.4	0.959	6.459	65.905	20.219	5.758	0.189	0.447	0.028	0.031	0.006	0.000	0.000	0.000	0.000	1378.17	
9	0.7589	1182.6	1203.5	1203.3	0.959	6.394	65.645	20.364	5.892	0.198	0.475	0.031	0.034	0.007	0.000	0.000	0.000	0.000	1381.55	
10	0.7554	1175.8	1196.7	1196.4	0.959	6.475	66.042	20.129	5.708	0.185	0.437	0.027	0.030	0.007	0.000	0.000	0.000	0.000	1376.87	
11	0.7562	1177.3	1198.1	1197.8	0.960	6.465	65.918	20.212	5.761	0.183	0.435	0.028	0.031	0.006	0.000	0.000	0.000	0.000	1377.80	
12	0.7559	1176.6	1197.4	1197.1	0.958	6.480	66.025	20.064	5.771	0.189	0.448	0.028	0.030	0.006	0.000	0.000	0.000	0.000	1377.28	
13	0.7576	1180.2	1201.1	1200.8	0.957	6.424	65.864	20.150	5.864	0.198	0.473	0.030	0.034	0.007	0.000	0.000	0.000	0.000	1379.91	
14	0.7585	1181.6	1202.5	1202.3	0.958	6.415	65.759	20.207	5.909	0.201	0.478	0.031	0.035	0.008	0.000	0.000	0.000	0.000	1380.81	
15	0.7567	1178.9	1199.8	1199.5	0.960	6.413	65.964	20.120	5.819	0.194	0.461	0.029	0.032	0.007	0.000	0.000	0.000	0.000	1379.23	
16	0.7555	1177.7	1198.6	1198.3	0.965	6.364	66.120	20.107	5.735	0.191	0.452	0.029	0.032	0.007	0.000	0.000	0.000	0.000	1378.95	
17	0.7564	1178.4	1199.2	1199.0	0.957	6.419	65.975	20.149	5.788	0.191	0.453	0.028	0.031	0.007	0.000	0.000	0.000	0.000	1378.90	
18	0.7554	1177.1	1197.9	1197.7	0.960	6.399	66.115	20.085	5.738	0.189	0.447	0.028	0.031	0.007	0.000	0.000	0.000	0.000	1378.32	
19	0.7560	1178.9	1199.7	1199.5	0.961	6.352	66.039	20.190	5.724	0.197	0.469	0.029	0.032	0.007	0.000	0.000	0.000	0.000	1379.78	
20	0.7568	1179.2	1200.1	1199.8	0.960	6.401	65.934	20.185	5.793	0.193	0.463	0.030	0.033	0.007	0.000	0.000	0.000	0.000	1379.53	
21	0.7557	1178.7	1199.5	1199.2	0.962	6.332	66.089	20.163	5.741	0.190	0.456	0.029	0.032	0.007	0.000	0.000	0.000	0.000	1379.86	
22	0.7567	1180.1	1201.0	1200.7	0.961	6.340	65.966	20.212	5.793	0.194	0.464	0.030	0.033	0.007	0.000	0.000	0.000	0.000	1380.60	
23	0.7572	1180.7	1201.6	1201.3	0.960	6.349	65.923	20.199	5.833	0.196	0.470	0.030	0.033	0.007	0.000	0.000	0.000	0.000	1380.88	
24	0.7592	1183.8	1204.8	1204.5	0.963	6.338	65.702	20.294	5.931	0.203	0.493	0.032	0.036	0.008	0.000	0.000	0.000	0.000	1382.73	
25	0.7583	1181.1	1202.0	1201.7	0.961	6.428	65.735	20.252	5.891	0.195	0.468	0.030	0.034	0.007	0.000	0.000	0.000	0.000	1380.34	
26	0.7566	1179.4	1200.3	1200.0	0.960	6.371	65.964	20.195	5.794	0.192	0.456	0.029	0.032	0.007	0.000	0.000	0.000	0.000	1379.91	
27	0.7594	1184.0	1205.0	1204.6	0.956	6.355	65.618	20.371	5.952	0.199	0.477	0.031	0.034	0.007	0.000	0.000	0.000	0.000	1382.81	
28	0.7590	1183.7	1204.7	1204.4	0.957	6.336	65.677	20.359	5.920	0.199	0.478	0.032	0.035	0.008	0.000	0.000	0.000	0.000	1382.82	
29	0.7579	1181.7	1202.6	1202.3	0.960	6.351	65.805	20.290	5.863	0.193	0.465	0.031	0.035	0.008	0.000	0.000	0.000	0.000	1381.44	
30	0.7554	1177.6	1198.4	1198.2	0.963	6.366	66.083	20.170	5.728	0.185	0.441	0.027	0.030	0.006	0.000	0.000	0.000	0.000	1378.89	
Avg	0.7570	1179.0	1200.3	1200.0	0.959	6.410	65.888	20.217	5.807	0.192	0.458	0.029	0.032	0.007	0.000	0.000	0.000	0.000	1379.58	

# Gas Composition and Properties

Effective October 1, 2021

Attachment B  
Page 8 of 25

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:

# Gas Composition and Properties

Effective April 1, 2025

Attachment B  
Page 9 of 25

Source #: 3002013  
Name: EPPING BORDER

Component	Mole %	Liquid Content	Mass %	Property	Total Sample	C6 Plus Fraction
Carbon Dioxide, CO2	1.0193		2.1919	Pressure Base	14.730	
Nitrogen, N2	2.6692		3.6536	Temperature Base	60.00	
Methane, C1	73.0156		57.2345	HCDP @ Sample Pressure		
Ethane, C2	19.8526	5.3129	29.1680	Cricondentherm	-2.755	
Propane, C3	3.0084	0.8294	6.4819	HV, Dry @ Base P, T	1185.58	
iso-Butane, iC4	0.1184	0.0388	0.3363	HV, Sat @ Base P, T	1164.95	
n-Butane, nC4	0.2689	0.0848	0.7637	HV, Sat @ Sample P, T	1185.58	
iso-Pentane, iC5	0.0206	0.0075	0.0726	Relative Density	0.7086	
n-Pentane, nC5	0.0237	0.0086	0.0836			
Neo-Pentane, neo						
Hexanes Plus, C6+	0.0033	0.0014	0.0139			
Argon, Ar						
Carbon Monoxide, CO						
Hydrogen, H2						
Oxygen, O2						
Helium, He						
Water, H2O						
Hydrogen Sulfide, H2S						
				C6+: 100		
<b>Totals</b>	<b>100.0000</b>	<b>6.2840</b>	<b>100.0000</b>			

**Sample**

Date: 04/01/2025                      Type:

Tech: Wayne Sampson

Pressure:                                      Temp.:

Gauge:    H2O:

Atm. Pressure:                                      H2S:

Remarks:

**Analysis**

Date:    Instrument:

Tech:    Cylinder:

Remarks:

\*\*\* End of Report \*\*\*

# Source Daily Summary

April 2025

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	0.7260	1165.1	1185.7	1185.5	1.011	4.310	69.805	20.905	3.470	0.131	0.313	0.023	0.027	0.007	0.000	0.000	0.000	0.000	1391.54	
2	0.7237	1161.3	1181.9	1181.7	1.032	4.292	69.776	21.375	3.095	0.116	0.269	0.019	0.022	0.005	0.000	0.000	0.000	0.000	1389.31	
3	0.7213	1157.5	1178.0	1177.8	1.023	4.305	70.239	20.945	3.053	0.116	0.271	0.020	0.023	0.005	0.000	0.000	0.000	0.000	1387.08	
4	0.7231	1158.9	1179.4	1179.2	1.023	4.393	70.110	20.767	3.225	0.128	0.301	0.021	0.025	0.005	0.000	0.000	0.000	0.000	1386.98	
5	0.7232	1152.8	1173.2	1173.0	1.013	4.789	69.487	21.476	2.821	0.109	0.257	0.019	0.023	0.006	0.000	0.000	0.000	0.000	1379.62	
6	0.7234	1157.5	1178.0	1177.8	1.007	4.533	69.715	21.282	3.038	0.113	0.265	0.019	0.022	0.006	0.000	0.000	0.000	0.000	1385.02	
7	0.7227	1155.5	1175.9	1175.7	1.022	4.572	69.898	20.999	3.092	0.110	0.261	0.019	0.022	0.005	0.000	0.000	0.000	0.000	1383.22	
8	0.7294	1168.2	1188.9	1188.7	1.030	4.405	69.200	21.227	3.720	0.112	0.261	0.018	0.022	0.005	0.000	0.000	0.000	0.000	1392.07	
9	0.7211	1155.8	1176.3	1176.1	1.036	4.380	70.086	21.157	2.930	0.109	0.257	0.018	0.021	0.005	0.000	0.000	0.000	0.000	1385.15	
10	0.7252	1158.9	1179.4	1179.2	1.025	4.590	69.515	21.249	3.192	0.114	0.267	0.019	0.023	0.005	0.000	0.000	0.000	0.000	1384.95	
11	0.7305	1158.8	1179.3	1179.0	1.022	5.100	68.651	21.300	3.503	0.113	0.268	0.018	0.021	0.005	0.000	0.000	0.000	0.000	1379.77	
12	0.7305	1165.0	1185.6	1185.4	1.030	4.704	69.062	21.056	3.617	0.138	0.335	0.024	0.028	0.007	0.000	0.000	0.000	0.000	1387.20	
13	0.7261	1152.9	1173.3	1173.1	1.032	5.034	69.256	21.094	3.134	0.118	0.283	0.020	0.024	0.006	0.000	0.000	0.000	0.000	1376.88	
14	0.7265	1151.6	1172.0	1171.8	1.033	5.147	69.234	20.933	3.194	0.116	0.292	0.021	0.025	0.006	0.000	0.000	0.000	0.000	1374.99	
15	0.7255	1150.5	1170.9	1170.6	1.021	5.137	69.406	20.815	3.154	0.117	0.297	0.021	0.025	0.006	0.000	0.000	0.000	0.000	1374.63	
16	0.7222	1158.5	1179.0	1178.8	1.038	4.315	70.043	21.138	3.027	0.111	0.280	0.020	0.024	0.006	0.000	0.000	0.000	0.000	1387.34	
17	0.7236	1162.3	1182.8	1182.6	1.035	4.221	69.825	21.402	3.066	0.118	0.282	0.020	0.024	0.006	0.000	0.000	0.000	0.000	1390.49	
18	0.7235	1161.4	1182.0	1181.7	1.039	4.251	69.860	21.327	3.077	0.117	0.279	0.020	0.024	0.006	0.000	0.000	0.000	0.000	1389.65	
19	0.7217	1157.6	1178.1	1177.9	1.029	4.334	70.142	21.015	3.041	0.116	0.275	0.019	0.023	0.006	0.000	0.000	0.000	0.000	1386.78	
20	0.7265	1166.1	1186.7	1186.5	1.040	4.246	69.606	21.253	3.388	0.124	0.293	0.021	0.025	0.006	0.000	0.000	0.000	0.000	1392.32	
21	0.7234	1162.3	1182.9	1182.7	1.037	4.188	69.850	21.443	3.033	0.119	0.279	0.020	0.024	0.006	0.000	0.000	0.000	0.000	1390.86	
22	0.7213	1156.0	1176.4	1176.2	1.041	4.377	70.154	21.018	2.981	0.114	0.267	0.019	0.023	0.005	0.000	0.000	0.000	0.000	1385.20	
23	0.7255	1163.8	1184.5	1184.2	1.034	4.299	69.666	21.250	3.301	0.119	0.283	0.019	0.023	0.006	0.000	0.000	0.000	0.000	1390.62	
24	0.7259	1166.4	1187.1	1186.8	1.036	4.177	69.501	21.642	3.191	0.119	0.286	0.020	0.023	0.005	0.000	0.000	0.000	0.000	1393.31	
25	0.7212	1158.5	1179.0	1178.7	1.035	4.228	70.084	21.324	2.916	0.107	0.258	0.019	0.022	0.005	0.000	0.000	0.000	0.000	1388.25	
26	0.7246	1163.8	1184.5	1184.2	1.027	4.229	69.808	21.196	3.314	0.113	0.266	0.019	0.023	0.005	0.000	0.000	0.000	0.000	1391.45	
27	0.7263	1166.2	1186.9	1186.6	1.026	4.243	69.613	21.225	3.466	0.113	0.267	0.019	0.023	0.005	0.000	0.000	0.000	0.000	1392.68	
28	0.7270	1168.5	1189.2	1189.0	1.016	4.176	70.146	20.289	3.785	0.154	0.369	0.027	0.032	0.007	0.000	0.000	0.000	0.000	1394.75	
29	0.7241	1161.4	1182.0	1181.8	1.041	4.300	70.036	20.928	3.143	0.139	0.341	0.027	0.034	0.010	0.000	0.000	0.000	0.000	1389.09	
30	0.7230	1160.6	1181.1	1180.9	1.039	4.257	70.018	21.153	3.041	0.127	0.307	0.023	0.027	0.007	0.000	0.000	0.000	0.000	1389.08	
Avg	0.7246	1160.0	1180.7	1180.4	1.029	4.451	69.727	21.139	3.200	0.119	0.284	0.020	0.024	0.006	0.000	0.000	0.000	0.000	1387.01	

# Source Daily Summary

April 2025

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	0.7458	1173.1	1193.9	1193.0	0.927	5.794	67.691	19.572	5.330	0.178	0.440	0.028	0.030	0.009	0.000	0.000	0.000	0.000	1382.44	
2	0.7534	1179.9	1200.8	1200.2	0.913	6.117	66.543	19.979	5.722	0.189	0.467	0.029	0.031	0.009	0.000	0.000	0.000	0.000	1383.39	
3	0.7533	1177.7	1198.5	1198.0	0.910	6.247	66.411	20.071	5.675	0.182	0.443	0.026	0.028	0.008	0.000	0.000	0.000	0.000	1380.91	
4	0.7531	1177.2	1198.1	1197.6	0.912	6.250	66.447	20.040	5.665	0.182	0.442	0.026	0.028	0.008	0.000	0.000	0.000	0.000	1380.59	
5	0.7542	1178.3	1199.2	1198.7	0.908	6.293	66.295	20.077	5.733	0.184	0.447	0.027	0.028	0.008	0.000	0.000	0.000	0.000	1380.86	
6	0.7532	1176.6	1197.5	1196.9	0.908	6.306	66.426	19.993	5.680	0.182	0.443	0.026	0.027	0.009	0.000	0.000	0.000	0.000	1379.74	
7	0.7538	1176.6	1197.5	1197.0	0.909	6.358	66.338	19.988	5.715	0.184	0.446	0.026	0.027	0.008	0.000	0.000	0.000	0.000	1379.24	
8	0.7554	1180.6	1201.5	1201.0	0.909	6.266	66.187	20.102	5.816	0.190	0.464	0.028	0.030	0.009	0.000	0.000	0.000	0.000	1382.42	
9	0.7577	1185.0	1205.9	1205.3	0.909	6.213	65.948	20.236	5.927	0.199	0.492	0.031	0.034	0.010	0.000	0.000	0.000	0.000	1385.42	
10	0.7549	1179.8	1200.7	1200.0	0.909	6.272	66.243	20.076	5.786	0.188	0.459	0.028	0.029	0.009	0.000	0.000	0.000	0.000	1381.86	
11	0.7552	1179.9	1200.8	1200.1	0.911	6.282	66.213	20.063	5.827	0.185	0.454	0.027	0.029	0.009	0.000	0.000	0.000	0.000	1381.84	
12	0.7553	1180.2	1201.1	1200.4	0.907	6.283	66.303	19.906	5.855	0.196	0.480	0.029	0.031	0.009	0.000	0.000	0.000	0.000	1382.02	
13	0.7549	1179.8	1200.7	1200.1	0.907	6.271	66.335	19.930	5.816	0.194	0.477	0.029	0.031	0.009	0.000	0.000	0.000	0.000	1381.93	
14	0.7570	1183.6	1204.5	1204.0	0.906	6.239	66.066	20.104	5.923	0.200	0.490	0.030	0.032	0.010	0.000	0.000	0.000	0.000	1384.41	
15	0.7553	1181.0	1201.9	1201.4	0.909	6.233	66.282	19.996	5.841	0.194	0.476	0.029	0.031	0.009	0.000	0.000	0.000	0.000	1382.96	
16	0.7537	1179.1	1199.9	1199.3	0.914	6.192	66.492	19.928	5.754	0.190	0.463	0.028	0.029	0.009	0.000	0.000	0.000	0.000	1382.17	
17	0.7539	1178.4	1199.2	1198.8	0.908	6.264	66.395	19.981	5.743	0.187	0.456	0.027	0.029	0.009	0.000	0.000	0.000	0.000	1381.16	
18	0.7544	1180.0	1200.9	1200.0	0.911	6.202	66.371	20.021	5.777	0.189	0.463	0.028	0.029	0.009	0.000	0.000	0.000	0.000	1382.65	
19	0.7544	1180.3	1201.2	1200.3	0.912	6.191	66.365	20.054	5.740	0.195	0.477	0.028	0.030	0.009	0.000	0.000	0.000	0.000	1382.91	
20	0.7551	1181.0	1201.9	1200.9	0.910	6.211	66.291	20.045	5.807	0.192	0.474	0.029	0.031	0.009	0.000	0.000	0.000	0.000	1383.14	
21	0.7535	1179.2	1200.1	1199.2	0.911	6.166	66.502	19.981	5.724	0.188	0.462	0.028	0.030	0.009	0.000	0.000	0.000	0.000	1382.57	
22	0.7546	1180.8	1201.7	1200.7	0.911	6.173	66.356	20.058	5.769	0.191	0.472	0.029	0.031	0.009	0.000	0.000	0.000	0.000	1383.39	
23	0.7555	1182.3	1203.2	1202.1	0.908	6.172	66.279	20.048	5.844	0.196	0.483	0.029	0.032	0.009	0.000	0.000	0.000	0.000	1384.30	
24	0.7560	1182.7	1203.7	1202.5	0.912	6.186	66.203	20.086	5.857	0.198	0.487	0.030	0.032	0.009	0.000	0.000	0.000	0.000	1384.36	
25	0.7567	1182.9	1203.8	1202.6	0.909	6.246	66.088	20.094	5.915	0.195	0.482	0.030	0.032	0.009	0.000	0.000	0.000	0.000	1383.91	
26	0.7540	1179.4	1200.3	1199.1	0.911	6.207	66.407	19.996	5.767	0.188	0.458	0.028	0.029	0.008	0.000	0.000	0.000	0.000	1382.28	
27	0.7571	1184.5	1205.5	1204.4	0.907	6.192	66.069	20.116	5.961	0.197	0.487	0.030	0.032	0.009	0.000	0.000	0.000	0.000	1385.41	
28	0.7583	1187.1	1208.1	1207.0	0.907	6.144	65.919	20.256	5.996	0.201	0.499	0.032	0.035	0.010	0.000	0.000	0.000	0.000	1387.35	
29	0.7564	1183.8	1204.7	1203.6	0.910	6.167	66.121	20.164	5.899	0.193	0.475	0.030	0.032	0.009	0.000	0.000	0.000	0.000	1385.17	
30	0.7540	1179.5	1200.4	1199.3	0.913	6.192	66.404	20.031	5.757	0.186	0.455	0.027	0.029	0.008	0.000	0.000	0.000	0.000	1382.46	
Avg	0.7547	1180.0	1201.2	1200.4	0.910	6.211	66.333	20.033	5.787	0.190	0.467	0.028	0.030	0.009	0.000	0.000	0.000	0.000	1382.78	

# Source Daily Summary

April 2025

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	0.7503	1175.9	1196.7	1195.8	0.961	5.996	66.992	19.843	5.506	0.186	0.444	0.029	0.031	0.011	0.000	0.000	0.000	0.000	1381.55	
2	0.7471	1172.5	1193.3	1192.4	0.969	5.893	67.420	19.721	5.321	0.180	0.427	0.028	0.030	0.011	0.000	0.000	0.000	0.000	1380.52	
3	0.7547	1179.0	1199.8	1198.9	0.954	6.231	66.263	20.134	5.703	0.191	0.452	0.029	0.031	0.010	0.000	0.000	0.000	0.000	1381.14	
4	0.7539	1176.1	1196.9	1196.0	0.952	6.339	66.248	20.157	5.633	0.182	0.425	0.027	0.028	0.010	0.000	0.000	0.000	0.000	1378.47	
5	0.7543	1176.5	1197.4	1196.6	0.951	6.354	66.188	20.173	5.657	0.184	0.429	0.027	0.028	0.010	0.000	0.000	0.000	0.000	1378.60	
6	0.7553	1177.3	1198.2	1197.4	0.949	6.398	66.042	20.225	5.705	0.185	0.431	0.027	0.028	0.010	0.000	0.000	0.000	0.000	1378.65	
7	0.7548	1176.5	1197.3	1196.2	0.951	6.397	66.113	20.185	5.677	0.184	0.429	0.027	0.028	0.010	0.000	0.000	0.000	0.000	1378.14	
8	0.7551	1175.9	1196.8	1195.7	0.950	6.458	66.066	20.152	5.694	0.185	0.431	0.027	0.028	0.009	0.000	0.000	0.000	0.000	1377.26	
9	0.7565	1179.7	1200.6	1200.3	0.948	6.367	65.939	20.245	5.797	0.190	0.447	0.028	0.029	0.009	0.000	0.000	0.000	0.000	1380.31	
10	0.7581	1182.6	1203.6	1203.5	0.947	6.336	65.784	20.324	5.862	0.198	0.472	0.032	0.034	0.011	0.000	0.000	0.000	0.000	1382.33	
11	0.7558	1178.4	1199.3	1199.2	0.947	6.380	66.035	20.175	5.760	0.189	0.445	0.028	0.030	0.009	0.000	0.000	0.000	0.000	1379.49	
12	0.7566	1179.5	1200.3	1200.2	0.950	6.383	65.932	20.219	5.821	0.187	0.441	0.028	0.029	0.009	0.000	0.000	0.000	0.000	1380.02	
13	0.7563	1178.8	1199.7	1199.6	0.947	6.399	66.039	20.076	5.816	0.195	0.459	0.029	0.031	0.009	0.000	0.000	0.000	0.000	1379.53	
14	0.7556	1178.0	1198.9	1198.8	0.947	6.387	66.127	20.052	5.765	0.194	0.457	0.030	0.031	0.010	0.000	0.000	0.000	0.000	1379.18	
15	0.7577	1181.7	1202.7	1202.6	0.945	6.353	65.879	20.190	5.888	0.200	0.471	0.030	0.032	0.011	0.000	0.000	0.000	0.000	1381.67	
16	0.7561	1179.3	1200.2	1200.1	0.949	6.351	66.071	20.096	5.809	0.195	0.458	0.030	0.031	0.009	0.000	0.000	0.000	0.000	1380.25	
17	0.7546	1177.6	1198.4	1198.3	0.954	6.309	66.258	20.061	5.714	0.190	0.445	0.028	0.030	0.010	0.000	0.000	0.000	0.000	1379.57	
18	0.7543	1175.9	1196.8	1196.6	0.947	6.388	66.250	20.032	5.698	0.187	0.434	0.027	0.028	0.010	0.000	0.000	0.000	0.000	1377.99	
19	0.7504	1169.6	1190.3	1187.1	0.950	6.409	66.690	19.841	5.489	0.172	0.395	0.023	0.023	0.008	0.000	0.000	0.000	0.000	1374.08	
20	0.7547	1180.2	1201.1	1180.8	0.912	6.223	66.326	20.026	5.785	0.191	0.470	0.028	0.030	0.009	0.000	0.000	0.000	0.000	1382.56	
21	0.7535	1179.2	1200.1	1181.5	0.911	6.166	66.502	19.981	5.724	0.188	0.462	0.028	0.030	0.009	0.000	0.000	0.000	0.000	1382.57	
22	0.7544	1179.3	1200.1	1196.2	0.918	6.239	66.339	20.045	5.735	0.190	0.465	0.029	0.031	0.009	0.000	0.000	0.000	0.000	1381.77	
23	0.7556	1179.2	1200.0	1199.9	0.952	6.304	66.121	20.167	5.736	0.193	0.458	0.029	0.031	0.010	0.000	0.000	0.000	0.000	1380.59	
24	0.7563	1180.3	1201.2	1201.1	0.949	6.308	66.057	20.156	5.797	0.197	0.465	0.030	0.032	0.010	0.000	0.000	0.000	0.000	1381.23	
25	0.7566	1180.8	1201.7	1201.6	0.950	6.302	66.022	20.178	5.812	0.197	0.467	0.030	0.032	0.010	0.000	0.000	0.000	0.000	1381.55	
26	0.7569	1180.1	1201.0	1200.9	0.948	6.371	65.959	20.151	5.846	0.194	0.459	0.030	0.031	0.010	0.000	0.000	0.000	0.000	1380.55	
27	0.7554	1179.0	1199.9	1199.7	0.951	6.301	66.145	20.140	5.754	0.190	0.450	0.029	0.031	0.008	0.000	0.000	0.000	0.000	1380.52	
28	0.7568	1181.9	1202.8	1202.7	0.929	6.287	66.016	20.151	5.888	0.196	0.461	0.030	0.032	0.008	0.000	0.000	0.000	0.000	1382.67	
29	0.7581	1183.5	1204.5	1204.3	0.945	6.288	65.821	20.283	5.920	0.198	0.472	0.031	0.033	0.008	0.000	0.000	0.000	0.000	1383.34	
30	0.7590	1185.2	1206.2	1206.0	0.947	6.258	65.716	20.375	5.952	0.199	0.477	0.032	0.035	0.009	0.000	0.000	0.000	0.000	1384.59	
Avg	0.7551	1179.0	1199.5	1197.7	0.946	6.306	66.179	20.118	5.742	0.190	0.450	0.029	0.030	0.010	0.000	0.000	0.000	0.000	1380.36	

# Source Daily Summary

April 2025

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	0.7502	1175.6	1196.4	1196.2	0.961	6.009	67.000	19.820	5.506	0.187	0.445	0.030	0.031	0.011	0.000	0.000	0.000	0.000	1381.25	
2	0.7468	1171.8	1192.6	1192.2	0.968	5.910	67.456	19.685	5.306	0.179	0.427	0.028	0.030	0.011	0.000	0.000	0.000	0.000	1379.96	
3	0.7550	1179.3	1200.2	1199.6	0.955	6.236	66.230	20.144	5.716	0.192	0.455	0.030	0.032	0.011	0.000	0.000	0.000	0.000	1381.28	
4	0.7545	1176.9	1197.7	1197.1	0.953	6.344	66.170	20.187	5.667	0.184	0.430	0.027	0.028	0.010	0.000	0.000	0.000	0.000	1378.86	
5	0.7545	1176.9	1197.7	1197.1	0.952	6.349	66.165	20.188	5.666	0.184	0.430	0.027	0.028	0.010	0.000	0.000	0.000	0.000	1378.82	
6	0.7558	1178.2	1199.1	1198.5	0.948	6.390	65.984	20.256	5.734	0.186	0.436	0.027	0.029	0.010	0.000	0.000	0.000	0.000	1379.27	
7	0.7547	1176.4	1197.2	1196.4	0.951	6.400	66.117	20.179	5.676	0.184	0.429	0.027	0.028	0.009	0.000	0.000	0.000	0.000	1378.07	
8	0.7554	1176.5	1197.4	1196.5	0.951	6.453	66.027	20.173	5.711	0.186	0.434	0.027	0.029	0.009	0.000	0.000	0.000	0.000	1377.64	
9	0.7560	1178.6	1199.5	1199.3	0.949	6.380	65.979	20.238	5.765	0.188	0.438	0.027	0.028	0.009	0.000	0.000	0.000	0.000	1379.59	
10	0.7549	1177.3	1198.2	1197.9	0.954	6.351	66.071	20.282	5.674	0.182	0.423	0.026	0.027	0.008	0.000	0.000	0.000	0.000	1379.02	
11	0.7562	1179.9	1200.8	1200.1	0.957	6.312	65.859	20.469	5.750	0.181	0.417	0.024	0.025	0.007	0.000	0.000	0.000	0.000	1380.80	
12	0.7725	1209.0	1230.4	1230.3	0.946	6.078	63.935	21.459	6.753	0.227	0.530	0.032	0.032	0.009	0.000	0.000	0.000	0.000	1399.76	
13	0.7399	1149.8	1170.1	1170.1	0.956	6.627	67.738	19.405	4.853	0.128	0.267	0.011	0.010	0.004	0.000	0.000	0.000	0.000	1360.33	
14	0.7396	1149.5	1169.9	1169.9	0.957	6.607	67.776	19.421	4.821	0.128	0.265	0.011	0.010	0.004	0.000	0.000	0.000	0.000	1360.39	
15	0.7418	1153.6	1174.0	1174.0	0.955	6.573	67.509	19.560	4.959	0.134	0.282	0.012	0.011	0.005	0.000	0.000	0.000	0.000	1363.12	
16	0.7406	1151.8	1172.2	1172.2	0.959	6.567	67.671	19.477	4.897	0.131	0.273	0.012	0.010	0.004	0.000	0.000	0.000	0.000	1362.06	
17	0.7403	1152.3	1172.7	1172.7	0.963	6.502	67.726	19.496	4.881	0.131	0.274	0.011	0.010	0.005	0.000	0.000	0.000	0.000	1362.94	
18	0.7501	1168.6	1189.3	1189.0	0.953	6.441	66.647	19.912	5.452	0.167	0.378	0.021	0.021	0.007	0.000	0.000	0.000	0.000	1373.08	
19	0.7547	1176.9	1197.7	1192.1	0.949	6.367	66.195	20.078	5.728	0.187	0.434	0.027	0.028	0.009	0.000	0.000	0.000	0.000	1378.70	
20	0.7549	1180.5	1201.4	1180.3	0.912	6.220	66.305	20.036	5.796	0.191	0.471	0.029	0.031	0.009	0.000	0.000	0.000	0.000	1382.77	
21	0.7535	1179.2	1200.1	1181.2	0.911	6.166	66.502	19.981	5.724	0.188	0.462	0.028	0.030	0.009	0.000	0.000	0.000	0.000	1382.57	
22	0.7530	1174.9	1195.7	1190.5	0.919	6.373	66.431	19.955	5.635	0.183	0.443	0.026	0.028	0.008	0.000	0.000	0.000	0.000	1377.92	
23	0.7449	1160.2	1180.8	1180.7	0.959	6.451	67.190	19.773	5.127	0.147	0.321	0.015	0.014	0.003	0.000	0.000	0.000	0.000	1368.10	
24	0.7453	1160.8	1181.4	1181.3	0.956	6.457	67.181	19.720	5.170	0.151	0.329	0.016	0.015	0.005	0.000	0.000	0.000	0.000	1368.44	
25	0.7468	1163.3	1183.9	1183.9	0.957	6.442	67.025	19.777	5.256	0.156	0.347	0.017	0.017	0.005	0.000	0.000	0.000	0.000	1370.02	
26	0.7495	1167.0	1187.7	1187.6	0.952	6.479	66.721	19.830	5.436	0.165	0.372	0.020	0.020	0.006	0.000	0.000	0.000	0.000	1371.88	
27	0.7492	1167.9	1188.6	1188.2	0.955	6.395	66.779	19.872	5.412	0.166	0.375	0.020	0.021	0.005	0.000	0.000	0.000	0.000	1373.17	
28	0.7580	1182.6	1203.6	1203.4	0.950	6.320	65.799	20.305	5.896	0.202	0.458	0.029	0.032	0.009	0.000	0.000	0.000	0.000	1382.46	
29	0.7584	1184.0	1204.9	1204.7	0.946	6.288	65.786	20.297	5.935	0.199	0.474	0.032	0.034	0.009	0.000	0.000	0.000	0.000	1383.58	
30	0.7594	1185.9	1206.9	1206.7	0.947	6.255	65.669	20.398	5.970	0.201	0.481	0.033	0.036	0.010	0.000	0.000	0.000	0.000	1384.99	
Avg	0.7515	1172.0	1192.9	1191.0	0.950	6.358	66.521	20.013	5.529	0.174	0.400	0.023	0.024	0.008	0.000	0.000	0.000	0.000	1376.03	

# Source Daily Summary

April 2025

Source #: 662  
Name: MAPLETON-WAHPETON

<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	0.5886	1027.9	1046.1	1045.8	0.561	0.434	93.668	5.232	0.099	0.004	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1363.48	-90.88
2	0.5886	1027.9	1046.1	1045.8	0.561	0.434	93.668	5.232	0.099	0.004	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1363.48	-90.88
3	0.5882	1027.3	1045.5	1045.3	0.558	0.434	93.750	5.154	0.098	0.004	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1363.21	-91.24
4	0.5878	1026.0	1044.2	1044.0	0.562	0.474	93.808	5.058	0.092	0.003	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1361.90	-91.76
5	0.5876	1024.5	1042.7	1042.5	0.583	0.505	93.881	4.936	0.089	0.003	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1360.28	-92.29
6	0.5877	1025.4	1043.6	1043.4	0.569	0.487	93.839	5.012	0.088	0.003	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1361.25	-92.02
7	0.5881	1026.3	1044.5	1044.3	0.573	0.461	93.778	5.086	0.096	0.004	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1362.01	-91.53
8	0.5878	1025.8	1043.9	1043.8	0.577	0.458	93.850	5.007	0.101	0.004	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1361.67	-91.78
9	0.5897	1028.8	1047.0	1046.8	0.570	0.471	93.542	5.233	0.160	0.011	0.011	0.002	0.001	0.000	0.000	0.000	0.000	0.000	1363.36	-89.12
10	0.5884	1028.0	1046.2	1046.0	0.556	0.416	93.705	5.217	0.099	0.004	0.003	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1363.89	-90.88
11	0.5878	1027.8	1046.0	1045.8	0.555	0.373	93.823	5.150	0.092	0.004	0.003	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1364.32	-91.27
12	0.5874	1026.7	1044.9	1044.7	0.561	0.389	93.916	5.036	0.091	0.004	0.003	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1363.38	-91.77
13	0.5870	1026.0	1044.2	1044.0	0.558	0.399	93.994	4.949	0.091	0.004	0.003	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1362.89	-92.16
14	0.5864	1026.3	1044.4	1044.3	0.527	0.373	94.093	4.905	0.093	0.004	0.003	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1363.93	-92.45
15	0.5872	1028.2	1046.4	1046.3	0.506	0.363	93.919	5.102	0.103	0.004	0.003	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1365.59	-91.50
16	0.5874	1028.2	1046.4	1046.2	0.515	0.369	93.897	5.099	0.111	0.005	0.003	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1365.33	-91.33
17	0.5858	1025.5	1043.6	1043.4	0.517	0.372	93.947	4.939	0.103	0.004	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1363.54	-92.11
18	0.5866	1025.0	1043.2	1043.0	0.573	0.399	94.097	4.829	0.094	0.004	0.003	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1362.05	-92.59
19	0.5865	1024.6	1042.8	1042.6	0.588	0.396	94.119	4.794	0.095	0.004	0.003	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1361.58	-92.68
20	0.5864	1025.3	1043.5	1043.3	0.565	0.377	94.125	4.827	0.098	0.004	0.003	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1362.65	-92.58
21	0.5883	1028.9	1047.1	1046.9	0.547	0.363	93.791	5.145	0.137	0.008	0.008	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1365.19	-90.27
22	0.5881	1029.0	1047.2	1047.1	0.539	0.348	93.790	5.199	0.115	0.005	0.004	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1365.62	-90.67
23	0.5879	1028.5	1046.7	1046.5	0.534	0.345	93.814	5.192	0.107	0.004	0.003	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1365.11	-90.91
24	0.5881	1028.2	1046.4	1046.2	0.523	0.338	93.766	5.253	0.111	0.005	0.003	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1364.51	-90.60
25	0.5876	1029.1	1047.3	1047.1	0.515	0.335	93.853	5.187	0.102	0.005	0.003	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1366.26	-91.05
26	0.5881	1030.7	1049.0	1048.8	0.482	0.331	93.725	5.341	0.111	0.005	0.004	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1367.88	-90.32
27	0.5880	1029.9	1048.1	1048.0	0.498	0.347	93.766	5.265	0.114	0.005	0.003	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1366.89	-90.59
28	0.5878	1029.8	1048.0	1047.8	0.494	0.342	93.799	5.247	0.111	0.005	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1366.97	-90.77
29	0.5880	1030.0	1048.3	1048.1	0.497	0.348	93.750	5.281	0.115	0.005	0.003	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1366.97	-90.52
30	0.5888	1030.9	1049.2	1049.1	0.497	0.365	93.585	5.432	0.113	0.005	0.003	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1367.31	-89.90
Avg	0.5877	1028.0	1045.7	1045.6	0.542	0.395	93.835	5.111	0.104	0.005	0.003	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1364.08	-91.28

# Source Daily Summary

April 2025

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	0.6568	1078.6	1097.7	1097.3	1.095	2.963	80.535	14.640	0.716	0.016	0.030	0.002	0.002	0.002	0.000	0.000	0.000	0.000	1354.40	
2	0.6613	1083.0	1102.2	1101.8	1.143	3.041	79.682	15.342	0.741	0.016	0.030	0.002	0.002	0.002	0.000	0.000	0.000	0.000	1355.36	
3	0.6637	1086.0	1105.3	1104.9	1.151	3.069	79.129	15.917	0.690	0.014	0.025	0.001	0.001	0.002	0.000	0.000	0.000	0.000	1356.71	
4	0.6783	1106.0	1125.6	1125.3	0.936	3.550	76.806	17.115	1.458	0.039	0.083	0.005	0.005	0.003	0.000	0.000	0.000	0.000	1366.79	
5	0.6791	1107.8	1127.4	1127.0	0.890	3.588	76.641	17.242	1.500	0.041	0.084	0.005	0.005	0.003	0.000	0.000	0.000	0.000	1368.07	
6	0.6929	1117.6	1137.4	1136.9	0.876	4.295	75.378	16.331	2.805	0.086	0.200	0.012	0.012	0.005	0.000	0.000	0.000	0.000	1366.63	
7	0.7113	1131.9	1151.9	1151.5	0.939	5.060	72.819	16.929	3.808	0.120	0.286	0.017	0.017	0.005	0.000	0.000	0.000	0.000	1366.10	
8	0.7365	1160.8	1181.4	1180.9	0.903	5.704	68.981	18.902	4.913	0.158	0.384	0.023	0.024	0.007	0.000	0.000	0.000	0.000	1376.77	
9	0.7575	1184.5	1205.5	1205.0	0.909	6.221	65.966	20.226	5.914	0.198	0.489	0.031	0.034	0.010	0.000	0.000	0.000	0.000	1385.09	
10	0.7552	1180.3	1201.2	1200.6	0.909	6.271	66.204	20.100	5.799	0.189	0.462	0.028	0.030	0.009	0.000	0.000	0.000	0.000	1382.17	
11	0.7490	1173.3	1194.1	1193.4	0.915	6.102	67.151	19.614	5.551	0.176	0.430	0.026	0.027	0.008	0.000	0.000	0.000	0.000	1379.75	
12	0.7554	1180.4	1201.3	1200.6	0.907	6.281	66.284	19.922	5.862	0.195	0.480	0.029	0.031	0.009	0.000	0.000	0.000	0.000	1382.14	
13	0.7548	1179.6	1200.5	1200.0	0.907	6.270	66.349	19.926	5.810	0.194	0.475	0.029	0.031	0.009	0.000	0.000	0.000	0.000	1381.83	
14	0.7088	1131.1	1151.2	1150.7	0.966	4.823	73.368	16.657	3.721	0.123	0.298	0.018	0.020	0.007	0.000	0.000	0.000	0.000	1367.43	
15	0.7350	1158.6	1179.1	1178.6	0.932	5.664	69.328	18.556	4.910	0.161	0.392	0.023	0.025	0.008	0.000	0.000	0.000	0.000	1375.40	
16	0.7432	1167.7	1188.3	1187.7	0.926	5.888	68.075	19.177	5.279	0.173	0.422	0.025	0.027	0.008	0.000	0.000	0.000	0.000	1378.46	
17	0.6821	1101.8	1121.3	1120.9	0.990	4.069	77.346	14.834	2.476	0.077	0.182	0.011	0.011	0.004	0.000	0.000	0.000	0.000	1357.80	
18	0.6870	1105.8	1125.4	1125.0	0.992	4.278	76.544	15.216	2.665	0.082	0.195	0.011	0.012	0.004	0.000	0.000	0.000	0.000	1358.07	
19	0.7227	1145.3	1165.6	1165.1	0.950	5.287	71.140	17.810	4.275	0.143	0.346	0.020	0.022	0.007	0.000	0.000	0.000	0.000	1371.24	
20	0.7312	1155.0	1175.4	1174.8	0.937	5.518	69.893	18.354	4.713	0.154	0.377	0.023	0.024	0.007	0.000	0.000	0.000	0.000	1374.75	
21	0.7535	1179.2	1200.1	1199.6	0.911	6.169	66.496	19.983	5.724	0.188	0.463	0.028	0.030	0.009	0.000	0.000	0.000	0.000	1382.53	
22	0.7501	1176.0	1196.9	1196.4	0.917	6.034	67.031	19.753	5.561	0.184	0.454	0.028	0.030	0.009	0.000	0.000	0.000	0.000	1381.97	
23	0.7452	1171.3	1192.0	1191.5	0.919	5.866	67.814	19.354	5.364	0.179	0.440	0.027	0.029	0.009	0.000	0.000	0.000	0.000	1380.84	
24	0.7560	1182.8	1203.7	1203.2	0.912	6.182	66.205	20.091	5.854	0.197	0.487	0.030	0.032	0.009	0.000	0.000	0.000	0.000	1384.43	
25	0.7563	1182.3	1203.2	1202.7	0.910	6.249	66.132	20.073	5.894	0.194	0.478	0.030	0.032	0.009	0.000	0.000	0.000	0.000	1383.51	
26	0.7540	1179.3	1200.2	1199.7	0.911	6.210	66.414	19.991	5.764	0.188	0.458	0.028	0.029	0.008	0.000	0.000	0.000	0.000	1382.18	
27	0.7569	1184.0	1204.9	1204.4	0.907	6.202	66.095	20.099	5.945	0.196	0.484	0.030	0.032	0.009	0.000	0.000	0.000	0.000	1385.00	
28	0.7581	1186.9	1207.9	1207.5	0.907	6.144	65.941	20.245	5.988	0.201	0.498	0.032	0.035	0.010	0.000	0.000	0.000	0.000	1387.21	
29	0.7564	1183.6	1204.6	1204.1	0.910	6.172	66.126	20.161	5.893	0.192	0.475	0.030	0.032	0.009	0.000	0.000	0.000	0.000	1385.04	
30	0.7538	1179.2	1200.1	1199.6	0.913	6.195	66.417	20.030	5.746	0.185	0.452	0.027	0.029	0.008	0.000	0.000	0.000	0.000	1382.26	
Avg	0.7267	1151.0	1171.7	1171.2	0.943	5.312	70.410	18.420	4.378	0.142	0.345	0.021	0.022	0.007	0.000	0.000	0.000	0.000	1374.66	

# Source Daily Summary

April 2025

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	0.6742	1098.1	1117.5	1117.2	1.220	3.226	77.023	17.777	0.714	0.016	0.024	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1360.95
2	0.6763	1101.9	1121.5	1121.2	1.208	3.206	76.513	18.388	0.651	0.014	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1363.65
3	0.6757	1106.4	1126.0	1125.7	0.901	3.338	76.725	17.975	0.995	0.024	0.039	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1369.77
4	0.6771	1110.7	1130.4	1130.2	0.774	3.395	76.481	18.137	1.134	0.029	0.048	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1373.78
5	0.6851	1124.9	1144.8	1144.5	0.715	3.376	74.999	19.513	1.295	0.037	0.062	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.000	1383.10
6	0.6914	1135.1	1155.2	1154.8	0.837	3.166	73.544	21.345	1.030	0.028	0.047	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1389.26
7	0.6897	1133.0	1153.1	1152.8	0.774	3.221	74.160	20.444	1.287	0.039	0.068	0.003	0.003	0.000	0.000	0.000	0.000	0.000	0.000	1388.48
8	0.6948	1139.2	1159.4	1159.1	0.965	3.043	72.643	22.554	0.748	0.017	0.028	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1390.91
9	0.6451	1064.7	1083.6	1083.3	0.996	2.856	82.872	12.475	0.751	0.019	0.031	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1349.02
10	0.6449	1064.3	1083.2	1082.9	1.001	2.844	83.051	12.193	0.853	0.022	0.036	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1348.86
11	0.6530	1074.9	1094.0	1093.6	1.034	2.914	81.255	14.036	0.713	0.018	0.031	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1353.72
12	0.6469	1064.4	1083.3	1082.9	1.042	2.971	82.581	12.565	0.781	0.021	0.039	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1346.83
13	0.6457	1062.9	1081.7	1081.4	1.038	2.960	82.813	12.361	0.769	0.021	0.037	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1346.09
14	0.6603	1084.9	1104.1	1103.8	1.055	2.960	79.767	15.468	0.700	0.018	0.031	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1358.68
15	0.6636	1090.2	1109.5	1109.1	1.064	2.946	79.035	16.254	0.658	0.016	0.027	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1361.74
16	0.6451	1062.2	1081.0	1080.7	1.035	2.940	82.860	12.417	0.697	0.018	0.032	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1345.98
17	0.6870	1126.5	1146.5	1146.2	1.064	2.923	73.809	21.558	0.516	0.010	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1383.10
18	0.6852	1123.9	1143.8	1143.6	1.066	2.918	74.475	20.977	0.539	0.010	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1381.72
19	0.6460	1063.0	1081.9	1081.6	1.048	2.962	82.680	12.556	0.704	0.018	0.032	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1346.01
20	0.6467	1065.0	1083.8	1083.5	1.026	2.938	82.598	12.622	0.761	0.020	0.036	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1347.79
21	0.6513	1071.4	1090.3	1090.1	1.036	2.970	81.676	13.480	0.780	0.021	0.038	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1351.01
22	0.6607	1087.0	1106.3	1106.0	1.047	2.885	79.703	15.600	0.716	0.018	0.032	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1360.90
23	0.6498	1070.1	1089.1	1088.8	1.035	2.905	82.006	13.208	0.788	0.021	0.038	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1351.05
24	0.6524	1074.4	1093.4	1093.1	1.037	2.885	81.463	13.789	0.770	0.020	0.036	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1353.71
25	0.6654	1093.4	1112.7	1112.4	1.052	2.932	78.706	16.572	0.692	0.017	0.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1364.00
26	0.6488	1068.8	1087.8	1087.5	1.023	2.912	82.198	13.011	0.795	0.022	0.039	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1350.41
27	0.6473	1066.6	1085.5	1085.0	1.020	2.908	82.496	12.738	0.778	0.021	0.038	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1349.17
28	0.6648	1085.5	1104.7	1104.2	0.999	3.428	79.803	14.029	1.576	0.049	0.105	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.000	1354.95
29	0.6734	1094.3	1113.7	1113.3	0.987	3.714	78.526	14.586	1.971	0.063	0.139	0.008	0.008	0.000	0.000	0.000	0.000	0.000	0.000	1357.21
30	0.6838	1105.8	1125.4	1125.0	0.970	4.014	76.908	15.410	2.423	0.078	0.177	0.010	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1361.03
Avg	0.6644	1090.0	1109.8	1109.5	1.002	3.089	79.112	15.801	0.919	0.025	0.046	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1361.43

# Source Daily Summary

April 2025

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	0.6688	1101.8	1121.3	1121.2	0.513	3.553	78.373	15.930	1.505	0.044	0.074	0.005	0.004	0.000	0.000	0.000	0.000	0.000	1371.11	
2	0.6654	1094.9	1114.3	1113.8	0.584	3.552	79.057	15.252	1.428	0.044	0.073	0.005	0.005	0.000	0.000	0.000	0.000	0.000	1365.91	
3	0.6737	1109.9	1129.6	1129.1	0.487	3.553	77.692	16.350	1.745	0.058	0.102	0.007	0.006	0.000	0.000	0.000	0.000	0.000	1376.25	
4	0.6744	1111.2	1130.9	1130.1	0.497	3.527	77.562	16.497	1.743	0.058	0.102	0.007	0.006	0.000	0.000	0.000	0.000	0.000	1377.10	
5	0.6748	1110.7	1130.3	1129.8	0.533	3.547	77.505	16.494	1.749	0.058	0.102	0.007	0.006	0.000	0.000	0.000	0.000	0.000	1375.99	
6	0.6735	1106.1	1125.7	1124.1	0.636	3.544	77.760	16.246	1.655	0.054	0.094	0.006	0.005	0.000	0.000	0.000	0.000	0.000	1371.69	
7	0.6744	1105.2	1124.8	1124.3	0.773	3.473	77.588	16.463	1.563	0.048	0.083	0.005	0.003	0.000	0.000	0.000	0.000	0.000	1369.70	
8	0.6736	1102.5	1122.1	1121.6	0.762	3.582	77.790	16.086	1.635	0.050	0.086	0.005	0.004	0.000	0.000	0.000	0.000	0.000	1367.13	
9	0.6833	1120.6	1140.5	1140.1	0.795	3.348	75.737	18.463	1.521	0.047	0.081	0.004	0.004	0.000	0.000	0.000	0.000	0.000	1379.62	
10	0.6821	1119.8	1139.6	1139.2	0.741	3.364	76.036	18.112	1.598	0.051	0.089	0.005	0.004	0.000	0.000	0.000	0.000	0.000	1379.81	
11	0.6725	1101.4	1120.9	1120.5	0.941	3.278	77.863	16.488	1.312	0.041	0.070	0.004	0.003	0.000	0.000	0.000	0.000	0.000	1366.83	
12	0.6802	1114.9	1134.6	1134.3	0.847	3.322	76.293	18.021	1.388	0.045	0.077	0.004	0.003	0.000	0.000	0.000	0.000	0.000	1375.74	
13	0.6826	1120.9	1140.8	1140.4	0.761	3.304	76.130	17.933	1.702	0.057	0.103	0.006	0.005	0.000	0.000	0.000	0.000	0.000	1380.80	
14	0.6856	1126.0	1146.0	1145.5	0.792	3.231	75.559	18.536	1.712	0.058	0.102	0.006	0.005	0.000	0.000	0.000	0.000	0.000	1384.01	
15	0.6826	1121.4	1141.2	1140.8	0.685	3.397	76.158	17.772	1.805	0.061	0.110	0.007	0.005	0.000	0.000	0.000	0.000	0.000	1381.28	
16	0.6827	1121.7	1141.5	1141.2	0.738	3.312	75.890	18.350	1.553	0.053	0.094	0.006	0.005	0.000	0.000	0.000	0.000	0.000	1381.55	
17	0.6838	1124.2	1144.1	1143.4	0.550	3.537	76.014	17.643	2.042	0.072	0.129	0.007	0.006	0.000	0.000	0.000	0.000	0.000	1383.60	
18	0.6851	1125.2	1145.2	1144.7	0.730	3.333	75.411	18.783	1.595	0.051	0.088	0.005	0.004	0.000	0.000	0.000	0.000	0.000	1383.50	
19	0.6895	1129.9	1149.9	1149.5	0.917	3.184	74.170	20.475	1.161	0.033	0.055	0.003	0.002	0.000	0.000	0.000	0.000	0.000	1384.75	
20	0.6743	1106.8	1126.4	1126.0	0.902	3.178	77.285	17.374	1.158	0.036	0.061	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1371.71	
21	0.6743	1107.4	1127.0	1126.6	0.775	3.338	77.504	16.779	1.470	0.046	0.080	0.004	0.003	0.000	0.000	0.000	0.000	0.000	1372.37	
22	0.6782	1115.4	1135.2	1134.8	0.732	3.276	76.692	17.690	1.476	0.045	0.081	0.005	0.003	0.000	0.000	0.000	0.000	0.000	1378.40	
23	0.6829	1121.6	1141.5	1141.1	0.762	3.302	75.592	18.857	1.380	0.038	0.063	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1381.22	
24	0.6889	1131.6	1151.6	1151.2	0.685	3.366	74.352	19.870	1.599	0.045	0.076	0.004	0.003	0.000	0.000	0.000	0.000	0.000	1387.44	
25	0.6912	1133.7	1153.8	1153.4	0.831	3.238	73.843	20.730	1.263	0.034	0.056	0.003	0.002	0.000	0.000	0.000	0.000	0.000	1387.77	
26	0.6851	1122.7	1142.6	1142.2	0.969	3.126	74.881	19.996	0.959	0.026	0.041	0.002	0.001	0.000	0.000	0.000	0.000	0.000	1380.43	
27	0.6631	1086.3	1105.6	1105.2	1.052	3.142	79.466	15.319	0.943	0.028	0.046	0.002	0.002	0.000	0.000	0.000	0.000	0.000	1357.69	
28	0.6765	1111.2	1130.9	1130.5	0.646	3.499	77.025	16.932	1.736	0.054	0.098	0.006	0.005	0.000	0.000	0.000	0.000	0.000	1374.90	
29	0.6820	1120.1	1140.0	1139.6	0.598	3.542	76.227	17.597	1.857	0.059	0.109	0.006	0.005	0.000	0.000	0.000	0.000	0.000	1380.45	
30	0.6841	1117.1	1136.9	1136.5	0.856	3.533	75.833	17.944	1.671	0.051	0.101	0.006	0.005	0.000	0.000	0.000	0.000	0.000	1374.63	
Avg	0.6790	1115.0	1134.5	1134.0	0.736	3.383	76.576	17.633	1.531	0.048	0.084	0.005	0.004	0.000	0.000	0.000	0.000	0.000	1376.78	

# Source Daily Summary

April 2025

Source #: 111  
Name: LITTLE KNIFE 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	0.6969	1140.9	1161.1	1158.8	1.146	2.863	72.061	23.463	0.452	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1390.92	-24.80
2	0.6959	1139.6	1159.8	1157.4	1.139	2.863	72.251	23.285	0.447	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1390.26	-25.30
3	0.6969	1141.3	1161.6	1160.0	1.123	2.875	72.053	23.466	0.468	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1391.39	-24.71
4	0.6983	1142.9	1163.1	1161.8	1.138	2.889	71.800	23.681	0.477	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1391.91	-24.06
5	0.6982	1142.8	1163.1	1161.4	1.137	2.888	71.819	23.656	0.485	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1391.89	-24.05
6	0.6981	1142.5	1162.7	1161.2	1.153	2.874	71.847	23.629	0.481	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1391.56	-24.12
7	0.6983	1142.6	1162.9	1161.4	1.140	2.900	71.786	23.680	0.479	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1391.60	-24.04
8	0.6979	1142.5	1162.7	1161.3	1.131	2.886	71.867	23.622	0.479	0.006	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1391.78	-24.20
9	0.6986	1143.1	1163.4	1161.8	1.126	2.921	71.724	23.722	0.491	0.006	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1391.88	-23.86
10	0.6984	1143.2	1163.4	1161.9	1.117	2.911	71.767	23.699	0.489	0.007	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1392.17	-23.91
11	0.6982	1142.3	1162.5	1160.9	1.142	2.908	71.844	23.586	0.504	0.006	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1391.28	-24.05
12	0.6973	1141.1	1161.3	1160.0	1.132	2.914	71.989	23.480	0.470	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1390.71	-24.63
13	0.6972	1141.0	1161.2	1159.6	1.124	2.915	71.983	23.506	0.457	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1390.78	-24.70
14	0.6972	1140.8	1161.0	1159.2	1.138	2.915	72.002	23.461	0.469	0.006	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1390.42	-24.67
15	0.6978	1141.7	1161.9	1160.4	1.134	2.922	71.883	23.568	0.477	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1390.92	-24.35
16	0.6982	1142.1	1162.3	1160.5	1.142	2.920	71.821	23.624	0.478	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1391.03	-24.19
17	0.6973	1140.7	1160.9	1159.4	1.136	2.926	71.977	23.482	0.464	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1390.30	-24.68
18	0.6969	1140.3	1160.5	1158.8	1.136	2.921	72.056	23.405	0.467	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1390.07	-24.85
19	0.6970	1140.6	1160.8	1159.3	1.137	2.903	72.057	23.411	0.477	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1390.47	-24.74
20	0.6969	1140.1	1160.3	1158.4	1.139	2.919	72.076	23.378	0.473	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1389.97	-24.86
21	0.6975	1141.0	1161.2	1159.4	1.150	2.912	71.952	23.501	0.470	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1390.36	-24.55
22	0.6971	1140.7	1160.9	1159.3	1.127	2.931	72.008	23.445	0.473	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1390.35	-24.71
23	0.6977	1141.8	1162.0	1160.6	1.128	2.911	71.922	23.538	0.487	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1391.18	-24.36
24	0.6982	1142.1	1162.4	1160.6	1.130	2.937	71.821	23.597	0.500	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1391.08	-24.09
25	0.6983	1142.5	1162.7	1161.0	1.120	2.937	71.797	23.632	0.499	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1391.43	-24.03
26	0.6980	1141.3	1161.5	1159.8	1.141	2.946	71.858	23.558	0.481	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1390.33	-24.33
27	0.6976	1141.2	1161.4	1159.8	1.127	2.941	71.930	23.494	0.492	0.006	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1390.56	-24.41
28	0.6977	1141.4	1161.6	1160.0	1.124	2.948	71.891	23.536	0.485	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1390.62	-24.38
29	0.6977	1141.6	1161.9	1160.4	1.126	2.927	71.918	23.515	0.499	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1390.96	-24.31
30	0.6975	1140.8	1161.0	1159.2	1.126	2.956	71.947	23.469	0.486	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1390.18	-24.53
Avg	0.6976	1142.0	1161.8	1160.1	1.134	2.912	71.924	23.536	0.479	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1390.95	-24.42

# Source Daily Summary

April 2025

Source #: 011  
Name: BAKER STN-MARM/BOWMAN 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	0.6535	1078.8	1097.9	1096.3	0.656	3.289	81.262	13.584	1.093	0.037	0.064	0.006	0.005	0.003	0.000	0.000	0.000	0.000	1358.20	-42.47
2	0.6499	1071.1	1090.1	1088.6	0.691	3.375	81.888	12.948	0.989	0.035	0.059	0.005	0.005	0.003	0.000	0.000	0.000	0.000	1352.16	-45.38
3	0.6453	1072.6	1091.6	1090.0	0.679	2.871	82.816	12.610	0.922	0.034	0.055	0.006	0.005	0.003	0.000	0.000	0.000	0.000	1358.85	-47.12
4	0.6447	1072.3	1091.2	1089.6	0.675	2.840	82.958	12.487	0.936	0.033	0.056	0.005	0.005	0.003	0.000	0.000	0.000	0.000	1359.05	-47.16
5	0.6465	1075.4	1094.4	1092.5	0.677	2.813	82.587	12.897	0.925	0.034	0.055	0.005	0.005	0.003	0.000	0.000	0.000	0.000	1361.15	-46.47
6	0.6510	1086.4	1105.6	1103.3	0.666	2.585	81.969	13.481	1.181	0.037	0.067	0.006	0.005	0.003	0.000	0.000	0.000	0.000	1370.26	-41.52
7	0.6469	1080.2	1099.3	1097.2	0.680	2.550	82.672	12.953	1.040	0.033	0.058	0.006	0.005	0.003	0.000	0.000	0.000	0.000	1366.83	-44.76
8	0.6459	1078.9	1098.0	1095.7	0.679	2.544	82.802	12.891	0.981	0.033	0.057	0.005	0.005	0.003	0.000	0.000	0.000	0.000	1366.16	-45.73
9	0.5763	982.6	1000.0	998.0	0.179	2.615	95.505	1.583	0.100	0.012	0.005	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1317.30	-112.08
10	0.5761	982.4	999.8	997.4	0.176	2.611	95.556	1.533	0.105	0.012	0.006	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1317.27	-111.42
11	0.5685	972.0	989.2	985.3	0.122	2.616	96.936	0.304	0.013	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1312.00	-120.16
12	0.5680	973.3	990.5	987.6	0.124	2.486	97.068	0.302	0.012	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1314.31	-118.96
13	0.5679	973.4	990.6	989.3	0.126	2.472	97.079	0.302	0.012	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1314.51	-118.89
14	0.5679	973.4	990.6	989.1	0.125	2.477	97.076	0.301	0.012	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1314.43	-118.89
15	0.5687	971.4	988.6	986.1	0.119	2.674	96.888	0.297	0.013	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1310.97	-119.63
16	0.5689	971.5	988.7	986.4	0.122	2.681	96.855	0.319	0.014	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1310.88	-120.11
17	0.6337	1061.2	1080.0	1078.8	0.412	2.867	85.199	10.260	1.140	0.042	0.070	0.005	0.004	0.001	0.000	0.000	0.000	0.000	1356.54	-58.36
18	0.6695	1113.6	1133.3	1132.1	0.699	2.617	78.595	16.438	1.505	0.048	0.086	0.006	0.005	0.001	0.000	0.000	0.000	0.000	1385.02	-30.16
19	0.6834	1131.9	1151.9	1150.0	0.955	2.421	75.503	19.950	1.079	0.032	0.052	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1393.44	-26.65
20	0.6706	1112.2	1131.9	1130.1	0.929	2.458	78.324	16.905	1.263	0.040	0.073	0.004	0.004	0.001	0.000	0.000	0.000	0.000	1382.17	-31.68
21	0.6799	1124.9	1144.8	1143.2	1.053	2.372	76.338	19.049	1.097	0.031	0.054	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1388.35	-28.51
22	0.6433	1075.7	1094.8	1093.0	0.619	2.582	83.194	12.581	0.932	0.032	0.051	0.004	0.003	0.001	0.000	0.000	0.000	0.000	1364.77	-50.15
23	0.6180	1037.0	1055.4	1053.3	0.472	2.785	87.843	8.208	0.623	0.024	0.036	0.003	0.003	0.002	0.000	0.000	0.000	0.000	1342.44	-67.36
24	0.6214	1041.8	1060.2	1058.7	0.505	2.765	87.228	8.765	0.663	0.025	0.039	0.004	0.003	0.002	0.000	0.000	0.000	0.000	1344.93	-64.52
25	0.6267	1040.1	1058.6	1056.5	0.828	2.872	86.334	9.325	0.590	0.018	0.028	0.002	0.002	0.001	0.000	0.000	0.000	0.000	1337.07	-65.76
26	0.6392	1053.4	1072.1	1070.0	1.154	2.747	84.141	11.274	0.640	0.016	0.025	0.002	0.001	0.000	0.000	0.000	0.000	0.000	1340.88	-56.90
27	0.6449	1061.5	1080.3	1076.7	1.251	2.640	83.146	12.234	0.683	0.017	0.026	0.002	0.001	0.000	0.000	0.000	0.000	0.000	1345.21	-52.82
28	0.6465	1063.8	1082.6	1081.1	1.265	2.631	82.855	12.495	0.705	0.019	0.028	0.002	0.001	0.000	0.000	0.000	0.000	0.000	1346.45	-51.55
29	0.6454	1062.0	1080.8	1077.8	1.259	2.647	83.089	12.236	0.720	0.019	0.028	0.002	0.002	0.000	0.000	0.000	0.000	0.000	1345.29	-52.20
30	0.6456	1062.3	1081.1	1078.7	1.287	2.603	83.079	12.259	0.724	0.018	0.027	0.002	0.002	0.000	0.000	0.000	0.000	0.000	1345.52	-52.06
Avg	0.6271	1049.0	1067.1	1065.1	0.639	2.684	86.226	9.692	0.690	0.024	0.037	0.003	0.003	0.001	0.000	0.000	0.000	0.000	1347.41	-66.31

# Gas Composition and Properties

Effective April 1, 2025

Attachment B  
Page 20 of 25

Source #: 2702230  
Name: WATFORD CITY EAST BORDER

Component	Mole %	Liquid Content	Mass %	Property	Total Sample	C6 Plus Fraction
Carbon Dioxide, CO2	1.2948		3.1836	Pressure Base	14.730	
Nitrogen, N2	2.5407		3.9763	Temperature Base	60.00	
Methane, C1	88.1820		79.0344	HCDP @ Sample Pressure		
Ethane, C2	7.5123	2.0086	12.6199	Cricondentherm	-73.128	
Propane, C3	0.4366	0.1203	1.0756	HV, Dry @ Base P, T	1040.45	4755.9000
iso-Butane, iC4	0.0119	0.0039	0.0386	HV, Sat @ Base P, T	1022.34	
n-Butane, nC4	0.0202	0.0064	0.0656	HV, Sat @ Sample P, T	1040.45	
iso-Pentane, iC5				Relative Density	0.6192	0.66406
n-Pentane, nC5	0.0015	0.0005	0.0060			
Neo-Pentane, neo						
Hexanes Plus, C6+						
Argon, Ar						
Carbon Monoxide, CO						
Hydrogen, H2						
Oxygen, O2						
Helium, He						
Water, H2O						
Hydrogen Sulfide, H2S						
				C6+: 100		
<b>Totals</b>	<b>100.0000</b>	<b>2.1400</b>	<b>100.0000</b>			

**Sample**

Date: 04/01/2025                      Type:

Tech: Wayne Sampson

Pressure:                                      Temp.:

Gauge:    H2O:

Atm. Pressure:                                      H2S:

Remarks:

**Analysis**

Date:    Instrument:

Tech:    Cylinder:

Remarks:

April-25

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	
4/1/2025	4/2/2025	585	629	1077.4	4,628	5,079	1097.7	1095.422	4/1/2025
4/2/2025	4/3/2025	1,299	1,396	1074.9	4,658	5,133	1102.2	1096.247	4/2/2025
4/3/2025	4/4/2025	8,860	9,541	1076.3	3,852	4,259	1105.3	1085.088	4/3/2025
4/4/2025	4/5/2025	14	15	1074.5	4,629	5,236	1125.6	1125.446	4/4/2025
4/5/2025	4/6/2025	0	0	0	3,466	3,903	1127.4	1127.400	4/5/2025
4/6/2025	4/7/2025	0	0	0	3,407	3,852	1137.4	1137.400	4/6/2025
4/7/2025	4/8/2025	0	0	0	4,194	4,846	1151.9	1151.900	4/7/2025
4/8/2025	4/9/2025	823	878	1065.7	2,852	3,360	1181.4	1155.489	4/8/2025
4/9/2025	4/10/2025	948	1,013	1070.4	2,411	2,911	1205.5	1167.371	4/9/2025
4/10/2025	4/11/2025	0	0	0	2,333	2,807	1201.2	1201.200	4/10/2025
4/11/2025	4/12/2025	0	0	0	1,424	1,697	1194.1	1194.100	4/11/2025
4/12/2025	4/13/2025	0	0	0	1,258	1,512	1201.3	1201.300	4/12/2025
4/13/2025	4/14/2025	0	0	0	2,768	3,324	1200.5	1200.500	4/13/2025
4/14/2025	4/15/2025	28	30	1075.8	3,598	4,126	1151.2	1150.618	4/14/2025
4/15/2025	4/16/2025	0	0	0	2,266	2,665	1179.1	1179.100	4/15/2025
4/16/2025	4/17/2025	438	471	1076.4	1,771	2,104	1188.3	1166.112	4/16/2025
4/17/2025	4/18/2025	1,262	1,359	1076.8	3,121	3,494	1121.3	1108.487	4/17/2025
4/18/2025	4/19/2025	10	11	1077	3,759	4,249	1125.4	1125.272	4/18/2025
4/19/2025	4/20/2025	1	1	1074.6	2,321	2,676	1165.6	1165.561	4/19/2025
4/20/2025	4/21/2025	0	0	0	1,579	1,848	1175.4	1175.400	4/20/2025
4/21/2025	4/22/2025	0	0	0	2,098	2,518	1200.1	1200.100	4/21/2025
4/22/2025	4/23/2025	954	1,036	1085.5	2,603	3,108	1196.9	1167.022	4/22/2025
4/23/2025	4/24/2025	908	985	1084.7	2,503	2,974	1192	1163.437	4/23/2025
4/24/2025	4/25/2025	23	25	1084.6	2,473	2,974	1203.7	1202.603	4/24/2025
4/25/2025	4/26/2025	0	0	0	1,739	2,093	1203.2	1203.200	4/25/2025
4/26/2025	4/27/2025	0	0	0	2,260	2,713	1200.2	1200.200	4/26/2025
4/27/2025	4/28/2025	0	0	0	1,406	1,694	1204.9	1204.900	4/27/2025
4/28/2025	4/29/2025	0	0	0	2,984	3,606	1207.9	1207.900	4/28/2025
4/29/2025	4/30/2025	0	0	0	1,579	1,903	1204.6	1204.600	4/29/2025
4/30/2025	5/1/2025	0	0	0	1,751	2,103	1200.1	1200.100	4/30/2025
		16,153	17,390	502.4867	81,691	94,767	1171.7133	1165.4491	



# Alliance Pipeline

DAILY ANALYSIS --- USA  
 ND07MD1 --- Hankinson Sales  
 April 2025

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	1,141.911	0.6492	85.5388	9.7650	2.8681	0.2822	0.4122	0.0504	0.0426	0.0166	0.6192	0.3951	0.0098
2	1,143.486	0.6509	85.2797	9.8827	2.9295	0.2856	0.4226	0.0514	0.0435	0.0169	0.6766	0.4021	0.0094
3	1,144.593	0.6532	84.8489	10.0960	2.9957	0.2829	0.4246	0.0512	0.0437	0.0174	0.8223	0.4081	0.0093
4	1,151.005	0.6584	84.2643	10.2125	3.2308	0.3155	0.5266	0.0512	0.0419	0.0161	0.9215	0.4105	0.0092
5	1,154.303	0.6606	84.0024	10.3391	3.3308	0.3256	0.5504	0.0524	0.0421	0.0158	0.9233	0.4093	0.0088
6	1,155.238	0.6617	83.8686	10.3639	3.3750	0.3277	0.5689	0.0557	0.0410	0.0150	0.9558	0.4195	0.0089
7	1,152.840	0.6591	84.2672	10.1642	3.2879	0.3236	0.5484	0.0568	0.0427	0.0155	0.8763	0.4085	0.0090
8	1,152.550	0.6586	84.3225	10.1694	3.2685	0.3195	0.5409	0.0560	0.0421	0.0153	0.8578	0.3987	0.0093
9	1,152.434	0.6585	84.3240	10.1760	3.2662	0.3213	0.5329	0.0543	0.0431	0.0161	0.8563	0.4006	0.0092
10	1,151.113	0.6579	84.3746	10.1731	3.2187	0.3158	0.5238	0.0540	0.0416	0.0157	0.8703	0.4031	0.0094
11	1,153.150	0.6594	84.2118	10.2171	3.2793	0.3240	0.5533	0.0551	0.0429	0.0161	0.8855	0.4056	0.0092
12	1,153.399	0.6598	84.1105	10.2991	3.2827	0.3249	0.5461	0.0546	0.0422	0.0160	0.9086	0.4058	0.0097
13	1,155.668	0.6605	84.0574	10.3044	3.3731	0.3300	0.5569	0.0539	0.0403	0.0158	0.8682	0.3903	0.0096
14	1,150.105	0.6566	84.5109	10.1653	3.1553	0.3088	0.5164	0.0514	0.0403	0.0154	0.8476	0.3788	0.0098
15	1,151.654	0.6581	84.3402	10.1970	3.2271	0.3127	0.5389	0.0528	0.0395	0.0154	0.8769	0.3899	0.0095
16	1,153.315	0.6594	84.2220	10.1969	3.2911	0.3250	0.5522	0.0568	0.0441	0.0164	0.8862	0.4002	0.0092
17	1,153.447	0.6590	84.3013	10.1509	3.2947	0.3270	0.5461	0.0581	0.0458	0.0179	0.8556	0.3932	0.0095
18	1,154.150	0.6591	84.3405	10.1282	3.2844	0.3345	0.5632	0.0604	0.0471	0.0181	0.8276	0.3862	0.0098
19	1,155.990	0.6611	84.0759	10.2154	3.3572	0.3408	0.5899	0.0626	0.0470	0.0172	0.8791	0.4065	0.0086
20	1,155.633	0.6612	84.0571	10.2240	3.3609	0.3416	0.5824	0.0613	0.0455	0.0154	0.8766	0.4261	0.0090
21	1,155.508	0.6613	84.0752	10.1769	3.3623	0.3437	0.5893	0.0627	0.0476	0.0167	0.8933	0.4235	0.0089
22	1,157.569	0.6624	83.9166	10.3093	3.4094	0.3442	0.5934	0.0625	0.0476	0.0159	0.8568	0.4350	0.0092
23	1,157.863	0.6632	83.7905	10.3408	3.4159	0.3495	0.6114	0.0634	0.0479	0.0166	0.9215	0.4337	0.0088
24	1,157.037	0.6625	83.8962	10.2869	3.3963	0.3460	0.6032	0.0626	0.0477	0.0164	0.9091	0.4272	0.0084
25	1,155.708	0.6608	84.0928	10.2441	3.3424	0.3388	0.5794	0.0604	0.0461	0.0159	0.8693	0.4018	0.0089
26	1,158.159	0.6626	83.8672	10.3213	3.4397	0.3452	0.5961	0.0620	0.0474	0.0163	0.8917	0.4044	0.0087
27	1,156.564	0.6617	83.9892	10.2624	3.3845	0.3411	0.5862	0.0620	0.0483	0.0172	0.8937	0.4067	0.0086
28	1,156.424	0.6621	83.9326	10.2689	3.3751	0.3437	0.5974	0.0630	0.0495	0.0175	0.9279	0.4155	0.0089
29	1,156.591	0.6626	83.8898	10.2483	3.3988	0.3484	0.6030	0.0631	0.0494	0.0181	0.9377	0.4339	0.0095
30	1,157.597	0.6638	83.7029	10.3099	3.4539	0.3504	0.6159	0.0637	0.0480	0.0170	0.9956	0.4341	0.0086
<b>Volume</b>	<b>1,153.266</b>	<b>0.6593</b>	<b>84.2345</b>	<b>10.2018</b>	<b>3.2811</b>	<b>0.3262</b>	<b>0.5496</b>	<b>0.0572</b>	<b>0.0444</b>	<b>0.0164</b>	<b>0.8720</b>	<b>0.4074</b>	<b>0.0092</b>
<b>Weight Avg Energy</b>	<b>1,153.281</b>	<b>0.6593</b>	<b>84.2331</b>	<b>10.2022</b>	<b>3.2817</b>	<b>0.3263</b>	<b>0.5498</b>	<b>0.0572</b>	<b>0.0444</b>	<b>0.0164</b>	<b>0.8723</b>	<b>0.4074</b>	<b>0.0092</b>



# Alliance Pipeline

DAILY ANALYSIS --- USA  
 ND14MD1 --- Milnor Sales  
 April 2025

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	1,141.815	0.6492	85.5230	9.7711	2.8675	0.2819	0.4118	0.0503	0.0425	0.0165	0.6266	0.3989	0.0097
2	1,143.963	0.6513	85.2054	9.9274	2.9439	0.2858	0.4242	0.0515	0.0436	0.0169	0.6898	0.4020	0.0094
3	1,145.269	0.6540	84.7510	10.1159	3.0284	0.2875	0.4355	0.0510	0.0434	0.0172	0.8507	0.4101	0.0093
4	1,151.367	0.6587	84.2409	10.2165	3.2440	0.3165	0.5323	0.0508	0.0418	0.0159	0.9211	0.4110	0.0092
5	1,154.455	0.6606	83.9978	10.3395	3.3352	0.3265	0.5512	0.0529	0.0420	0.0159	0.9259	0.4042	0.0088
6	1,154.841	0.6614	83.9082	10.3475	3.3601	0.3258	0.5659	0.0562	0.0414	0.0149	0.9457	0.4256	0.0088
7	1,152.643	0.6589	84.3023	10.1433	3.2824	0.3237	0.5474	0.0566	0.0427	0.0155	0.8738	0.4032	0.0091
8	1,152.948	0.6588	84.2810	10.2041	3.2785	0.3202	0.5390	0.0557	0.0421	0.0152	0.8518	0.4032	0.0093
9	1,152.338	0.6585	84.3160	10.1883	3.2604	0.3203	0.5315	0.0542	0.0431	0.0161	0.8601	0.4009	0.0092
10	1,151.239	0.6579	84.3749	10.1733	3.2194	0.3163	0.5257	0.0542	0.0418	0.0158	0.8675	0.4018	0.0094
11	1,152.914	0.6592	84.2213	10.2171	3.2720	0.3225	0.5511	0.0548	0.0427	0.0161	0.8894	0.4039	0.0092
12	1,153.966	0.6600	84.0857	10.3079	3.3022	0.3265	0.5485	0.0547	0.0425	0.0162	0.9004	0.4056	0.0098
13	1,155.082	0.6601	84.0989	10.3055	3.3467	0.3271	0.5502	0.0539	0.0397	0.0154	0.8662	0.3866	0.0097
14	1,149.871	0.6563	84.5553	10.1361	3.1473	0.3084	0.5170	0.0516	0.0407	0.0157	0.8397	0.3787	0.0097
15	1,152.465	0.6590	84.2073	10.2541	3.2606	0.3150	0.5450	0.0531	0.0395	0.0154	0.9056	0.3948	0.0095
16	1,153.288	0.6592	84.2663	10.1756	3.2852	0.3259	0.5519	0.0570	0.0444	0.0166	0.8695	0.3983	0.0093
17	1,153.275	0.6589	84.3151	10.1464	3.2882	0.3264	0.5445	0.0583	0.0457	0.0178	0.8560	0.3921	0.0095
18	1,154.389	0.6592	84.3351	10.1193	3.2929	0.3361	0.5682	0.0608	0.0472	0.0181	0.8273	0.3853	0.0096
19	1,156.537	0.6616	84.0032	10.2580	3.3756	0.3414	0.5908	0.0625	0.0472	0.0172	0.8853	0.4101	0.0087
20	1,155.255	0.6609	84.1069	10.1989	3.3446	0.3415	0.5806	0.0619	0.0458	0.0155	0.8701	0.4250	0.0091
21	1,155.929	0.6615	84.0548	10.1897	3.3727	0.3448	0.5913	0.0632	0.0479	0.0167	0.8851	0.4251	0.0087
22	1,156.142	0.6616	84.0408	10.2023	3.3841	0.3427	0.5909	0.0622	0.0474	0.0164	0.8757	0.4289	0.0087
23	1,157.942	0.6633	83.7788	10.3467	3.4167	0.3501	0.6133	0.0633	0.0478	0.0166	0.9236	0.4345	0.0087
24	1,156.957	0.6623	83.9230	10.2777	3.3929	0.3451	0.6013	0.0624	0.0476	0.0164	0.9032	0.4220	0.0084
25	1,155.835	0.6609	84.0796	10.2509	3.3474	0.3393	0.5793	0.0605	0.0461	0.0159	0.8708	0.4013	0.0089
26	1,158.056	0.6626	83.8663	10.3237	3.4370	0.3441	0.5946	0.0620	0.0476	0.0165	0.8946	0.4049	0.0087
27	1,156.816	0.6618	83.9694	10.2696	3.3909	0.3428	0.5889	0.0624	0.0484	0.0171	0.8955	0.4062	0.0087
28	1,156.464	0.6621	83.9198	10.2811	3.3735	0.3435	0.5971	0.0630	0.0498	0.0176	0.9277	0.4181	0.0089
29	1,157.484	0.6634	83.7826	10.2867	3.4371	0.3514	0.6101	0.0633	0.0491	0.0180	0.9529	0.4394	0.0095
30	1,156.675	0.6631	83.7877	10.2849	3.4185	0.3464	0.6064	0.0637	0.0481	0.0170	0.9875	0.4311	0.0086
<b>Volume</b>	<b>1,153.141</b>	<b>0.6592</b>	<b>84.2465</b>	<b>10.1966</b>	<b>3.2769</b>	<b>0.3258</b>	<b>0.5484</b>	<b>0.0573</b>	<b>0.0445</b>	<b>0.0164</b>	<b>0.8699</b>	<b>0.4084</b>	<b>0.0091</b>
<b>Weight Avg Energy</b>	<b>1,153.152</b>	<b>0.6592</b>	<b>84.2459</b>	<b>10.1967</b>	<b>3.2773</b>	<b>0.3259</b>	<b>0.5485</b>	<b>0.0573</b>	<b>0.0445</b>	<b>0.0164</b>	<b>0.8700</b>	<b>0.4084</b>	<b>0.0091</b>

April-25

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		
4/1/2025	4/2/2025	345	413	1198	749	780	1040.5	1090.169	4/1/2025
4/2/2025	4/3/2025	349	418	1198	741	771	1040.5	1090.929	4/2/2025
4/3/2025	4/4/2025	331	396	1198	671	698	1040.5	1092.528	4/3/2025
4/4/2025	4/5/2025	377	452	1198	726	755	1040.5	1094.333	4/4/2025
4/5/2025	4/6/2025	285	342	1198	502	523	1040.5	1097.536	4/5/2025
4/6/2025	4/7/2025	265	318	1198	416	433	1040.5	1101.789	4/6/2025
4/7/2025	4/8/2025	278	333	1198	542	564	1040.5	1093.896	4/7/2025
4/8/2025	4/9/2025	214	256	1198	300	312	1040.5	1106.074	4/8/2025
4/9/2025	4/10/2025	230	275	1198	338	352	1040.5	1104.276	4/9/2025
4/10/2025	4/11/2025	195	234	1198	273	284	1040.5	1106.125	4/10/2025
4/11/2025	4/12/2025	101	121	1198	153	159	1040.5	1103.128	4/11/2025
4/12/2025	4/13/2025	142	171	1198	198	206	1040.5	1106.279	4/12/2025
4/13/2025	4/14/2025	278	333	1198	652	678	1040.5	1087.581	4/13/2025
4/14/2025	4/15/2025	278	332	1198	512	533	1040.5	1095.924	4/14/2025
4/15/2025	4/16/2025	181	216	1198	232	241	1040.5	1109.525	4/15/2025
4/16/2025	4/17/2025	187	225	1198	267	278	1040.5	1105.373	4/16/2025
4/17/2025	4/18/2025	279	335	1198	495	515	1040.5	1097.273	4/17/2025
4/18/2025	4/19/2025	332	397	1198	611	635	1040.5	1095.951	4/18/2025
4/19/2025	4/20/2025	220	263	1198	340	354	1040.5	1102.375	4/19/2025
4/20/2025	4/21/2025	212	254	1198	348	362	1040.5	1100.125	4/20/2025
4/21/2025	4/22/2025	225	269	1198	316	329	1040.5	1106.004	4/21/2025
4/22/2025	4/23/2025	275	329	1198	507	528	1040.5	1095.887	4/22/2025
4/23/2025	4/24/2025	238	285	1198	339	353	1040.5	1105.465	4/23/2025
4/24/2025	4/25/2025	196	235	1198	313	326	1040.5	1101.148	4/24/2025
4/25/2025	4/26/2025	181	217	1198	234	243	1040.5	1109.193	4/25/2025
4/26/2025	4/27/2025	219	263	1198	301	313	1040.5	1106.832	4/26/2025
4/27/2025	4/28/2025	103	124	1198	177	184	1040.5	1098.438	4/27/2025
4/28/2025	4/29/2025	233	279	1198	429	446	1040.5	1095.934	4/28/2025
4/29/2025	4/30/2025	151	181	1198	213	222	1040.5	1105.837	4/29/2025
4/30/2025	5/1/2025	161	192	1198	217	226	1040.5	1107.583	4/30/2025
		7,061	8,458	1198.0000	12,112	12,603	1040.5000	1100.4503	



<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
274	Chromatograph	Kindred – Wahpeton
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	APR25	MAR25	FEB25	JAN25	DEC24	NOV24	OCT24	SEP24	AUG24	JUL24	JUN24	MAY24
MT/ND	211	Sidney Border - MonDak Tfr - Sidney Plt	1187	1193	1186	1173	1183	1183	1184	1182	1191	1194	1192	1190	1187
ND	24	Williston Border - Charbonneau Station	1189	1194	1206	1197	1185	1182	1179	1187	1187	1185	1191	1186	1184
ND	25	Watford City West Border	1195	1198	1201	1206	1191	1193	1186	1194	1194	1197	1192	1187	1201
ND	28	Bismarck Station - Glen Ullin Station	1169	1172	1126	1116	1134	1136	1159	1171	1204	1203	1200	1202	1200
ND	31	Dickinson Brd - Belfield Trf - G Ullin Stn	1121	1110	1131	1129	1137	1139	1144	1111	1106	1111	1115	1108	1106
ND/MT	32	Cabin Creek Station - Belfied Transfer	1132	1135	1130	1133	1134	1130	1135	1139	1128	1135	1110	1135	1144
ND	33	Little Knife Plant	1165	1162	1162	1162	1164	1162	1163	1165	1162	1165	1173	1170	1170
ND	34	Badlands Plant/Bowman Border	1065	1067	1097	1097	1104	1104	1127	1110	1034	980	981	1040	1043
ND	43	Watford City East Border	1090	1041	1041	1094	1107	1107	1110	1112	1112	1117	1085	1081	1075
ND/MT	241	Fairview Border	1183	1186	1191	1182	1183	1181	1180	1185	1183	1182	1185	1181	1172
ND	267	North Tioga Transfer - Nesson Plant	1194	1188	1197	1197	1194	1204	1191	1191	1195	1199	1191	1191	1193
ND	261	Tioga Comp Station - Robinson Lake Plant	1201	1198	1204	1209	1198	1209	1208	1208	1195	1200	1195	1197	1195
ND	262	Minot Bdr - Palermo Bdr - Bismarck Stn	1204	1200	1205	1210	1207	1209	1207	1210	1203	1201	1199	1200	1199
ND	263	Lignite Plant	1131	1131	1131	1131	1131	1131	1131	1131	1131	1131	1131	1131	1131
ND	264	Epping Border	1181	1186	1201	1202	1174	1174	1166	1183	1188	1182	1179	1172	1168
ND	265	Tioga Comp Station - County Line Plant	1183	1181	1184	1190	1191	1191	1180	1175	1179	1181	1183	1174	1188
ND	266	County Line Plant	1185	1182	1186	1193	1189	1192	1182	1177	1181	1183	1187	1174	1188
ND	271	Bismarck Station - Cleveland Station	1196	1201	1195	1158	1182	1190	1200	1212	1204	1203	1200	1202	1201
ND	272	Cleveland Station - Mapleton	1195	1200	1194	1157	1182	1190	1200	1211	1202	1202	1200	1201	1200
ND	273	Cleveland Station - Grafton Border	1194	1193	1194	1157	1182	1189	1199	1211	1202	1202	1200	1202	1199
ND	274	Felton(Viking) - Kindred-Wahpeton	0	1046	1047	1050	1050	1050	0	0	0	0	0	0	0
ND	550	Mandan Border / NBPL-St Anthony	1152	1165	1105	1102	1120	1115	1156	1164	1198	1179	1168	1160	1192
ND	610	MDU-Watford City BTU	1121	1100	1096	1131	1133	1135	1139	1130	1115	1127	1108	1111	1121
ND	802	NBPL - Linton	1095	1076	1080	1085	1093	1093	1100	1099	1103	1108	1100	1100	1104
ND	903	Hettinger Propane	2549	2549	2549	2549	2549	2549	2549	2549	2549	2549	2549	2549	2549
ND	600	Alliance Pipeline - Hankinson	1153	1153	1150	1153	1155	1155	1155	1157	1159	1157	1148	1147	1148
ND	601	Alliance Pipeline - Milnor	1153	1153	1150	1153	1154	1155	1155	1157	1160	1157	1149	1147	1149

<b>THERMAL ZONE VARIANCE DOCUMENTATION</b>		
<b>April 2025</b>		
<b><i>ZONE</i></b>	<b><i>BTU VARIANCE</i></b>	<b><i>REASON</i></b>
28	46	Operational/Blend
31	-21	Operational/Blend
34	-30	Operational/Blend
550	60	Operational/Blend