



A Subsidiary of MDU Resources Group, Inc.

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

June 14, 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 – April 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 May 2024.
2. Attachment B consists of copies of the monthly Heating Value Test Reports received from our suppliers for the month of April 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 April 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
May-24

<u>Town</u>	<u>Heat Zone</u>	<u>Therm Factor</u>
MDU-303-ALEXANDER	025	1.1277
MDU-308-ARNEGARD	025	1.1277
MDU-314-APPLE VALLEY	271	1.1501
MDU-318-BEACH	032	1.0313
MDU-319-BELFIELD	032	1.0389
MDU-323-BERTHOLD	262	1.1287
MDU-327-BISMARCK	028	1.1067
MDU-330-BOWMAN	034	0.9421
MDU-337-BURLINGTON	262	1.1530
MDU-343-CARRINGTON	273	1.1492
MDU-344-CLEVELAND	272	1.1411
MDU-364-CAVALIER	273	1.1734
MDU-365-DAWSON	271	1.1420
MDU-368-DES LACS	262	1.1368
MDU-369-DICKINSON	031	1.0756
MDU-374-FT TOTTEN	273	1.1572
MDU-375-DEVILS LAKE	273	1.1572
MDU-379-BARLOW	273	1.1492
MDU-384-EPPING	264	1.1070
MDU-387-ELDRIDGE	272	1.1492
MDU-407-GLADSTONE	031	1.0756
MDU-411-GLEN ULLIN	031	1.0833
MDU-413-GOLVA	032	1.0162
MDU-416-GARRISON	262	1.1368
MDU-417-GRAFTON	273	1.1815
MDU-403-GWINNER	601	1.4317
MDU-429-HEBRON	031	1.0833
MDU-432-HETTINGER	903	2.4049
MDU-449-JAMESTOWN	272	1.1572
MDU-459-KILLDEER	033	1.1079
MDU-463-LANGDON	273	1.1492
MDU-469-LEFOR	031	1.0756
MDU-474-LIGNITE	263	1.0759
MDU-475-LINTON	802	1.0749
MDU-478-LINCOLN	028	1.1067
MDU-488-MCKENZIE	271	1.1501
MDU-494-MEDINA	271	1.1420
MDU-498-MANDAN	028	1.1067
MDU-500-MARMARTH	034	0.9491
MDU-505-MINOT	262	1.1287
MDU-510-MOTT	031	1.0756
MDU-512-MAX	262	1.1287
MDU-513-MILNOR	601	1.1291
MDU-522-NEW ENGLAND	031	1.0678
MDU-524-NEW SALEM	028	1.0833
MDU-532-NEW ROCKFORD	273	1.1492
MDU-539-PARK RIVER	273	1.1734
MDU-540-PALERMO	262	1.1287
MDU-558-RAY	264	1.1070

MDU-561-REGENT	031	1.0756
MDU-563-RHAME	034	0.9351
MDU-564-RICHARDTON	031	1.0678
MDU-568-ROSS	261	1.1206
MDU-572-RUTHVILLE	262	1.1530
MDU-574-SANBORN	272	1.1572
MDU-583-SENTINEL BUTTE	032	1.3422
MDU-588-SOUTH HEART	031	1.0756
MDU-717-SPIRITWOOD	272	1.4317
MDU-590-SPRINGBROOK	264	1.1070
MDU-591-STANLEY	261	1.1287
MDU-593-STEELE	271	1.1420
MDU-594-STERLING	028	1.1067
MDU-598-SHEYENNE	273	1.1572
MDU-605-SURREY	262	1.1530
MDU-610-TAPPEN	271	1.1420
MDU-611-TAYLOR	031	1.0678
MDU-616-TIOGA	260	1.1131
MDU-619-TURTLE LAKE	262	1.1368
MDU-620-TRENTON	024	1.1235
MDU-624-UNDERWOOD	262	1.1368
MDU-625-VALLEY CITY	272	1.1653
MDU-629-WALHALLA	273	1.1734
MDU-632-WATFORD CITY	610	1.0560
MDU-636-WHEELOCK	264	1.0990
MDU-637-WHITE EARTH	261	1.1287
MDU-642-WILLISTON	024	1.1235
MDU-646-WASHBURN	262	1.1449
MDU-647-WILTON	262	1.1287
MDU-664-RIVERDALE	262	1.1368
MDU-691-FAIRVIEW	241	1.1282
MDU-712-MINOT AFB	262	1.1530
MDU-718-FAIRMOUNT	600	1.1267
MDU-732-NEKOMA	273	1.1492
MDU-732-MSR SITE	273	1.1492

Source Daily Summary

April 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	0.7150	1163.8	1184.4	1183.9	1.129	3.158	71.404	21.177	2.777	0.113	0.219	0.012	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1400.73
2	0.7150	1163.8	1184.4	1183.9	1.129	3.158	71.404	21.177	2.777	0.113	0.219	0.012	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1400.73
3	0.7150	1163.8	1184.4	1183.9	1.129	3.158	71.404	21.177	2.777	0.113	0.219	0.012	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1400.73
4	0.7150	1163.8	1184.4	1183.9	1.129	3.158	71.404	21.177	2.777	0.113	0.219	0.012	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1400.73
5	0.7150	1163.8	1184.4	1183.9	1.129	3.158	71.404	21.177	2.777	0.113	0.219	0.012	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1400.73
6	0.7150	1163.8	1184.4	1183.9	1.129	3.158	71.404	21.177	2.777	0.113	0.219	0.012	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1400.73
7	0.7150	1163.8	1184.4	1183.9	1.129	3.158	71.404	21.177	2.777	0.113	0.219	0.012	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1400.73
8	0.7150	1163.8	1184.4	1183.9	1.129	3.158	71.404	21.177	2.777	0.113	0.219	0.012	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1400.73
9	0.7150	1163.8	1184.4	1183.9	1.129	3.158	71.404	21.177	2.777	0.113	0.219	0.012	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1400.73
10	0.7150	1163.8	1184.4	1183.9	1.129	3.158	71.404	21.177	2.777	0.113	0.219	0.012	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1400.73
11	0.7150	1163.8	1184.4	1183.9	1.129	3.158	71.404	21.177	2.777	0.113	0.219	0.012	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1400.73
12	0.7150	1163.8	1184.4	1183.9	1.129	3.158	71.404	21.177	2.777	0.113	0.219	0.012	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1400.73
13	0.7150	1163.8	1184.4	1183.9	1.129	3.158	71.404	21.177	2.777	0.113	0.219	0.012	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1400.73
14	0.7150	1163.8	1184.4	1183.9	1.129	3.158	71.404	21.177	2.777	0.113	0.219	0.012	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1400.73
15	0.7150	1163.8	1184.4	1183.9	1.129	3.158	71.404	21.177	2.777	0.113	0.219	0.012	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1400.73
16	0.7150	1163.8	1184.4	1183.9	1.129	3.158	71.404	21.177	2.777	0.113	0.219	0.012	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1400.73
17	0.7150	1163.8	1184.4	1183.9	1.129	3.158	71.404	21.177	2.777	0.113	0.219	0.012	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1400.73
18	0.7150	1163.8	1184.4	1183.9	1.129	3.158	71.404	21.177	2.777	0.113	0.219	0.012	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1400.73
19	0.7150	1163.8	1184.4	1183.9	1.129	3.158	71.404	21.177	2.777	0.113	0.219	0.012	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1400.73
20	0.7150	1163.8	1184.4	1183.9	1.129	3.158	71.404	21.177	2.777	0.113	0.219	0.012	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1400.73
21	0.7150	1163.8	1184.4	1183.9	1.129	3.158	71.404	21.177	2.777	0.113	0.219	0.012	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1400.73
22	0.7150	1163.8	1184.4	1183.9	1.129	3.158	71.404	21.177	2.777	0.113	0.219	0.012	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1400.73
23	0.7150	1163.8	1184.4	1183.9	1.129	3.158	71.404	21.177	2.777	0.113	0.219	0.012	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1400.73
24	0.7150	1163.8	1184.4	1183.9	1.129	3.158	71.404	21.177	2.777	0.113	0.219	0.012	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1400.73
25	0.7150	1163.8	1184.4	1183.9	1.129	3.158	71.404	21.177	2.777	0.113	0.219	0.012	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1400.73
26	0.7150	1163.8	1184.4	1183.9	1.129	3.158	71.404	21.177	2.777	0.113	0.219	0.012	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1400.73
27	0.7150	1163.8	1184.4	1183.9	1.129	3.158	71.404	21.177	2.777	0.113	0.219	0.012	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1400.73
28	0.7150	1163.8	1184.4	1183.9	1.129	3.158	71.404	21.177	2.777	0.113	0.219	0.012	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1400.73
29	0.7150	1163.8	1184.4	1183.9	1.129	3.158	71.404	21.177	2.777	0.113	0.219	0.012	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1400.73
30	0.7150	1163.8	1184.4	1183.9	1.129	3.158	71.404	21.177	2.777	0.113	0.219	0.012	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1400.73
Avg	0.7150	1164.0	1184.4	1183.9	1.129	3.158	71.404	21.177	2.777	0.113	0.219	0.012	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1400.73

Source Daily Summary

April 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	0.7014	1158.9	1179.4	1179.2	1.003	2.384	73.733	20.155	2.373	0.101	0.218	0.016	0.018	0.000	0.000	0.000	0.000	0.000	1408.27	
2	0.7015	1159.1	1179.6	1179.4	0.999	2.392	73.604	20.370	2.283	0.100	0.218	0.016	0.018	0.000	0.000	0.000	0.000	0.000	1408.41	
3	0.7019	1160.8	1181.4	1181.1	1.002	2.319	73.461	20.661	2.207	0.100	0.217	0.016	0.018	0.000	0.000	0.000	0.000	0.000	1410.10	
4	0.7008	1158.9	1179.5	1179.2	1.018	2.311	73.443	20.891	2.017	0.091	0.198	0.015	0.016	0.000	0.000	0.000	0.000	0.000	1408.88	
5	0.7050	1159.4	1179.9	1179.6	1.078	2.586	72.875	20.883	2.234	0.096	0.213	0.016	0.018	0.000	0.000	0.000	0.000	0.000	1405.21	
6	0.7017	1157.4	1177.9	1177.6	1.078	2.397	73.406	20.695	2.095	0.093	0.203	0.015	0.017	0.000	0.000	0.000	0.000	0.000	1406.12	
7	0.7014	1158.0	1178.5	1178.2	1.061	2.358	73.474	20.670	2.106	0.094	0.204	0.015	0.017	0.000	0.000	0.000	0.000	0.000	1407.13	
8	0.6998	1154.2	1174.7	1174.4	1.022	2.490	73.791	20.220	2.144	0.095	0.206	0.015	0.017	0.000	0.000	0.000	0.000	0.000	1404.22	
9	0.7026	1159.7	1180.2	1180.0	1.058	2.372	73.293	20.777	2.160	0.096	0.210	0.015	0.018	0.000	0.000	0.000	0.000	0.000	1407.99	
10	0.7043	1161.7	1182.3	1182.0	1.064	2.393	73.151	20.730	2.298	0.102	0.224	0.017	0.020	0.000	0.000	0.000	0.000	0.000	1408.80	
11	0.7020	1159.4	1179.9	1179.7	1.046	2.344	73.413	20.710	2.143	0.097	0.212	0.016	0.018	0.000	0.000	0.000	0.000	0.000	1408.33	
12	0.7008	1159.1	1179.6	1179.4	1.025	2.284	73.540	20.751	2.064	0.095	0.207	0.016	0.018	0.001	0.000	0.000	0.000	0.000	1409.14	
13	0.7024	1161.0	1181.6	1181.3	1.026	2.312	73.339	20.817	2.153	0.099	0.217	0.016	0.019	0.003	0.000	0.000	0.000	0.000	1409.92	
14	0.7011	1160.1	1180.7	1180.4	1.013	2.272	73.498	20.786	2.085	0.097	0.211	0.016	0.018	0.002	0.000	0.000	0.000	0.000	1410.04	
15	0.7047	1164.6	1185.3	1185.0	1.020	2.318	73.329	20.465	2.426	0.117	0.265	0.023	0.028	0.009	0.000	0.000	0.000	0.000	1411.93	
16	0.7055	1164.2	1184.8	1184.6	1.041	2.391	73.068	20.661	2.451	0.108	0.237	0.018	0.020	0.004	0.000	0.000	0.000	0.000	1410.58	
17	0.7098	1169.4	1190.1	1189.8	1.058	2.450	72.442	21.027	2.596	0.116	0.259	0.021	0.025	0.006	0.000	0.000	0.000	0.000	1412.59	
18	0.7116	1169.0	1189.7	1189.4	1.053	2.652	72.399	20.491	2.982	0.118	0.260	0.019	0.022	0.005	0.000	0.000	0.000	0.000	1410.29	
19	0.7039	1157.9	1178.5	1178.2	1.065	2.585	72.956	20.927	2.141	0.091	0.200	0.015	0.017	0.003	0.000	0.000	0.000	0.000	1404.63	
20	0.7035	1156.3	1176.8	1176.5	1.015	2.728	73.178	20.409	2.322	0.097	0.214	0.015	0.017	0.003	0.000	0.000	0.000	0.000	1402.98	
21	0.7062	1162.3	1182.9	1182.6	1.036	2.572	73.048	20.452	2.434	0.117	0.277	0.024	0.030	0.009	0.000	0.000	0.000	0.000	1407.67	
22	0.7021	1158.7	1179.2	1178.9	1.022	2.440	73.310	20.753	2.141	0.094	0.205	0.015	0.017	0.003	0.000	0.000	0.000	0.000	1407.30	
23	0.7025	1157.0	1177.5	1177.2	1.012	2.597	73.436	20.266	2.330	0.101	0.220	0.016	0.019	0.003	0.000	0.000	0.000	0.000	1404.81	
24	0.7034	1155.9	1176.4	1176.1	0.985	2.783	73.394	19.985	2.469	0.107	0.236	0.017	0.020	0.004	0.000	0.000	0.000	0.000	1402.63	
25	0.7048	1161.2	1181.8	1181.5	1.026	2.529	73.030	20.698	2.349	0.103	0.226	0.017	0.019	0.003	0.000	0.000	0.000	0.000	1407.70	
26	0.7047	1163.7	1184.4	1184.0	1.041	2.343	73.008	20.973	2.276	0.101	0.219	0.017	0.019	0.003	0.000	0.000	0.000	0.000	1410.86	
27	0.7015	1156.6	1177.0	1176.7	1.014	2.521	73.696	20.052	2.350	0.103	0.224	0.017	0.019	0.003	0.000	0.000	0.000	0.000	1405.31	
28	0.7029	1152.1	1172.5	1172.2	0.955	3.013	73.450	19.704	2.500	0.106	0.233	0.017	0.019	0.004	0.000	0.000	0.000	0.000	1398.49	
29	0.7047	1161.0	1181.5	1181.2	1.030	2.531	73.005	20.761	2.309	0.101	0.222	0.017	0.019	0.004	0.000	0.000	0.000	0.000	1407.48	
30	0.7065	1164.7	1185.3	1184.9	1.063	2.425	72.690	21.143	2.320	0.101	0.219	0.017	0.020	0.003	0.000	0.000	0.000	0.000	1410.15	
Avg	0.7035	1160.0	1180.6	1180.3	1.031	2.470	73.249	20.596	2.292	0.101	0.222	0.017	0.019	0.003	0.000	0.000	0.000	0.000	1407.60	

Gas Composition and Properties

Effective April 1, 2024

Source #: 0602160
Name: FAIRVIEW BORDER

Component	Mole %	Liquid Content	Mass %
Carbon Dioxide, CO2	0.9356		2.0095
Nitrogen, N2	3.1235		4.2703
Methane, C1	71.9999		56.3712
Ethane, C2	21.0254	5.6267	30.8544
Propane, C3	2.6204	0.7224	5.6392
iso-Butane, iC4	0.0882	0.0289	0.2502
n-Butane, nC4	0.1812	0.0572	0.5140
iso-Pentane, iC5	0.0133	0.0049	0.0468
n-Pentane, nC5	0.0119	0.0043	0.0419
Neo-Pentane, neo			
Hexanes Plus, C6+	0.0006	0.0002	0.0025
Argon, Ar			
Carbon Monoxide, CO			
Hydrogen, H2			
Oxygen, O2			
Helium, He			
Water, H2O			
Hydrogen Sulfide, H2S			
Totals	100.0000	6.4440	100.0000

Property	Total Sample	C6 Plus Fraction
Pressure Base	14.730	
Temperature Base	60.00	
HCDP @ Sample Pressure	-18.664	
Cricondentherm	-7.094	
HV, Dry @ Base P, T	1181.54	
HV, Sat @ Base P, T	1160.98	
HV, Sat @ Sample P, T	1181.54	
Relative Density	0.7095	
C6+: 100		

Sample

Date: 04/01/2024 Type:

Tech: Tipton, Joshua

Pressure: 480 psi Temp.: °F

Gauge: Gauge H2O:

Atm. Pressure: H2S:

Remarks:

Analysis

Date: 04/01/2024 Instrument:

Tech: Tipton, Joshua Cylinder: 343

Remarks:

Source Daily Summary

April 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	0.7066	1145.0	1165.3	1165.1	0.938	3.822	73.007	18.911	2.929	0.114	0.249	0.015	0.016	0.000	0.000	0.000	0.000	0.000	1386.75	-8.88
2	0.6857	1134.9	1155.0	1154.8	0.969	2.447	75.547	19.438	1.402	0.058	0.122	0.008	0.009	0.000	0.000	0.000	0.000	0.000	1394.74	-22.21
3	0.7143	1151.2	1171.5	1171.4	0.930	4.173	71.860	19.292	3.299	0.131	0.280	0.016	0.018	0.000	0.000	0.000	0.000	0.000	1386.70	-3.92
4	0.7526	1169.6	1190.4	1190.2	0.903	6.678	66.807	19.027	5.811	0.227	0.494	0.026	0.028	0.000	0.000	0.000	0.000	0.000	1372.11	18.50
5	0.7402	1166.1	1186.7	1186.5	0.926	5.699	68.344	19.502	4.867	0.194	0.420	0.023	0.025	0.000	0.000	0.000	0.000	0.000	1379.73	10.80
6	0.7013	1141.7	1161.9	1161.7	0.913	3.560	73.675	18.938	2.551	0.106	0.227	0.014	0.016	0.000	0.000	0.000	0.000	0.000	1387.80	-11.30
7	0.7206	1141.5	1161.8	1161.6	0.767	5.591	71.734	16.817	4.471	0.180	0.394	0.022	0.024	0.000	0.000	0.000	0.000	0.000	1368.84	3.04
8	0.7165	1152.7	1173.1	1172.9	0.888	4.350	71.669	19.070	3.532	0.143	0.310	0.018	0.021	0.000	0.000	0.000	0.000	0.000	1386.37	-1.95
9	0.7377	1159.1	1179.6	1179.4	0.844	6.015	69.197	18.006	5.199	0.212	0.469	0.027	0.030	0.000	0.000	0.000	0.000	0.000	1373.72	11.62
10	0.6876	1141.3	1161.5	1161.3	0.964	2.233	75.137	20.162	1.295	0.061	0.127	0.010	0.011	0.000	0.000	0.000	0.000	0.000	1400.70	-21.13
11	0.6927	1139.3	1159.5	1159.3	0.919	2.893	74.717	19.302	1.884	0.081	0.178	0.013	0.014	0.000	0.000	0.000	0.000	0.000	1393.29	-17.20
12	0.6711	1108.6	1128.3	1128.1	0.747	2.990	78.605	15.802	1.595	0.073	0.162	0.012	0.013	0.001	0.000	0.000	0.000	0.000	1377.08	-26.43
13	0.7068	1152.0	1172.4	1172.2	0.961	3.381	72.387	20.547	2.395	0.091	0.206	0.014	0.015	0.003	0.000	0.000	0.000	0.000	1395.04	-10.39
14	0.7569	1179.0	1199.8	1199.6	0.913	6.501	65.993	19.955	5.888	0.200	0.477	0.031	0.035	0.009	0.000	0.000	0.000	0.000	1379.10	20.81
15	0.7553	1177.2	1198.0	1197.8	0.914	6.458	66.183	19.939	5.766	0.198	0.469	0.031	0.034	0.008	0.000	0.000	0.000	0.000	1378.48	19.91
16	0.7513	1172.9	1193.7	1193.5	0.907	6.350	66.706	19.793	5.550	0.188	0.440	0.028	0.031	0.007	0.000	0.000	0.000	0.000	1377.18	17.63
17	0.7249	1160.9	1181.4	1181.2	0.931	4.580	70.085	20.232	3.689	0.132	0.303	0.020	0.022	0.005	0.000	0.000	0.000	0.000	1388.07	1.74
18	0.7507	1171.8	1192.6	1192.4	0.893	6.381	66.954	19.444	5.584	0.199	0.471	0.031	0.035	0.008	0.000	0.000	0.000	0.000	1376.48	18.07
19	0.7505	1170.3	1191.0	1190.8	0.893	6.459	66.887	19.480	5.568	0.193	0.453	0.029	0.031	0.007	0.000	0.000	0.000	0.000	1374.81	17.48
20	0.7567	1176.2	1197.0	1196.8	0.915	6.648	65.925	19.970	5.782	0.207	0.482	0.030	0.033	0.008	0.000	0.000	0.000	0.000	1376.02	20.27
21	0.7444	1172.3	1193.0	1192.8	0.923	5.722	67.544	20.206	4.947	0.178	0.415	0.027	0.030	0.007	0.000	0.000	0.000	0.000	1383.00	13.74
22	0.7375	1169.0	1189.7	1189.5	0.918	5.282	68.481	20.190	4.525	0.165	0.380	0.025	0.028	0.006	0.000	0.000	0.000	0.000	1385.50	10.56
23	0.7560	1177.9	1198.8	1198.6	0.916	6.471	66.206	19.775	5.851	0.220	0.491	0.029	0.033	0.008	0.000	0.000	0.000	0.000	1378.75	20.58
24	0.7603	1182.6	1203.6	1203.4	0.913	6.592	65.685	19.850	6.141	0.228	0.512	0.033	0.037	0.009	0.000	0.000	0.000	0.000	1380.31	23.08
25	0.7594	1180.8	1201.7	1201.5	0.912	6.624	65.734	19.855	6.089	0.214	0.495	0.032	0.036	0.009	0.000	0.000	0.000	0.000	1378.98	22.31
26	0.7574	1177.6	1198.4	1198.2	0.915	6.627	65.941	19.823	5.934	0.204	0.480	0.032	0.036	0.009	0.000	0.000	0.000	0.000	1377.05	21.09
27	0.7583	1180.2	1201.1	1200.9	0.917	6.545	65.840	19.953	5.969	0.217	0.487	0.030	0.034	0.008	0.000	0.000	0.000	0.000	1379.33	21.50
28	0.7519	1178.5	1199.4	1199.1	0.924	6.045	66.633	20.207	5.455	0.203	0.461	0.030	0.034	0.008	0.000	0.000	0.000	0.000	1383.18	18.43
29	0.7526	1174.2	1195.0	1194.8	0.900	6.402	66.675	19.579	5.701	0.205	0.466	0.030	0.034	0.008	0.000	0.000	0.000	0.000	1377.53	19.05
30	0.7508	1172.8	1193.5	1193.3	0.912	6.307	66.760	19.840	5.480	0.194	0.440	0.028	0.031	0.007	0.000	0.000	0.000	0.000	1377.48	17.43
Avg	0.7336	1163.0	1183.2	1182.9	0.906	5.327	69.231	19.430	4.505	0.167	0.379	0.024	0.026	0.005	0.000	0.000	0.000	0.000	1381.80	7.47

Source Daily Summary

April 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	0.7538	1172.7	1193.5	1193.3	0.900	6.602	66.632	19.233	5.860	0.223	0.495	0.026	0.029	0.000	0.000	0.000	0.000	0.000	1374.69	
2	0.7547	1175.2	1196.0	1195.8	0.903	6.530	66.506	19.379	5.912	0.224	0.491	0.026	0.029	0.000	0.000	0.000	0.000	0.000	1376.77	
3	0.7520	1173.4	1194.1	1193.9	0.906	6.385	66.809	19.479	5.670	0.217	0.477	0.027	0.029	0.000	0.000	0.000	0.000	0.000	1377.09	
4	0.7529	1171.5	1192.2	1192.0	0.904	6.584	66.801	19.116	5.814	0.227	0.497	0.027	0.030	0.000	0.000	0.000	0.000	0.000	1374.04	
5	0.7524	1169.4	1190.1	1189.8	0.902	6.678	66.764	19.136	5.762	0.224	0.482	0.025	0.027	0.000	0.000	0.000	0.000	0.000	1371.97	
6	0.7543	1173.4	1194.2	1194.0	0.902	6.604	66.523	19.341	5.856	0.229	0.492	0.025	0.028	0.000	0.000	0.000	0.000	0.000	1375.05	
7	0.7487	1170.8	1191.6	1191.4	0.883	6.267	67.405	19.098	5.587	0.221	0.483	0.027	0.029	0.000	0.000	0.000	0.000	0.000	1377.16	
8	0.7553	1176.4	1197.2	1197.0	0.901	6.517	66.435	19.438	5.918	0.232	0.502	0.027	0.029	0.000	0.000	0.000	0.000	0.000	1377.61	
9	0.7498	1171.6	1192.3	1192.0	0.895	6.310	67.261	19.126	5.634	0.225	0.491	0.028	0.030	0.000	0.000	0.000	0.000	0.000	1376.99	
10	0.7559	1175.3	1196.1	1195.9	0.904	6.637	66.448	19.214	5.960	0.235	0.533	0.032	0.036	0.000	0.000	0.000	0.000	0.000	1375.75	
11	0.7563	1178.0	1198.9	1198.7	0.909	6.503	66.142	19.832	5.841	0.212	0.492	0.032	0.036	0.000	0.000	0.000	0.000	0.000	1378.59	
12	0.7431	1165.7	1186.3	1186.0	0.893	6.050	67.859	19.468	5.070	0.178	0.420	0.027	0.030	0.005	0.000	0.000	0.000	0.000	1376.24	
13	0.7533	1172.8	1193.5	1193.2	0.912	6.542	66.473	19.667	5.674	0.196	0.468	0.029	0.033	0.008	0.000	0.000	0.000	0.000	1375.13	
14	0.7557	1177.8	1198.7	1198.3	0.913	6.458	66.152	19.924	5.808	0.198	0.474	0.031	0.034	0.008	0.000	0.000	0.000	0.000	1378.85	
15	0.7557	1177.8	1198.6	1198.3	0.914	6.457	66.134	19.968	5.781	0.200	0.472	0.031	0.035	0.008	0.000	0.000	0.000	0.000	1378.81	
16	0.7567	1178.2	1199.1	1198.8	0.912	6.513	66.024	19.956	5.848	0.201	0.473	0.031	0.034	0.008	0.000	0.000	0.000	0.000	1378.43	
17	0.7562	1177.8	1198.7	1198.5	0.913	6.499	66.029	20.017	5.811	0.197	0.463	0.030	0.033	0.008	0.000	0.000	0.000	0.000	1378.44	
18	0.7473	1168.1	1188.8	1188.6	0.889	6.293	67.386	19.323	5.411	0.188	0.442	0.029	0.032	0.008	0.000	0.000	0.000	0.000	1375.24	
19	0.7499	1171.8	1192.5	1192.3	0.893	6.308	67.002	19.570	5.506	0.193	0.456	0.030	0.034	0.008	0.000	0.000	0.000	0.000	1377.13	
20	0.7562	1176.6	1197.4	1197.2	0.915	6.566	66.020	19.993	5.751	0.204	0.481	0.030	0.033	0.008	0.000	0.000	0.000	0.000	1377.02	
21	0.7534	1174.9	1195.7	1195.4	0.917	6.410	66.374	19.998	5.569	0.199	0.463	0.030	0.033	0.008	0.000	0.000	0.000	0.000	1377.63	
22	0.7183	1161.8	1182.4	1182.1	0.930	3.903	70.960	20.598	3.155	0.122	0.282	0.020	0.023	0.006	0.000	0.000	0.000	0.000	1395.32	
23	0.7530	1172.3	1193.1	1192.8	0.916	6.521	66.529	19.648	5.664	0.204	0.457	0.027	0.029	0.007	0.000	0.000	0.000	0.000	1374.96	
24	0.7592	1182.6	1203.6	1203.2	0.914	6.481	65.861	19.868	6.047	0.231	0.518	0.032	0.036	0.009	0.000	0.000	0.000	0.000	1381.34	
25	0.7580	1180.8	1201.7	1201.2	0.914	6.491	65.920	19.919	5.977	0.212	0.489	0.032	0.036	0.009	0.000	0.000	0.000	0.000	1380.21	
26	0.7578	1180.1	1201.0	1200.7	0.914	6.508	65.998	19.834	5.934	0.214	0.516	0.034	0.039	0.009	0.000	0.000	0.000	0.000	1379.65	
27	0.7572	1178.9	1199.8	1199.5	0.916	6.525	65.980	19.899	5.921	0.212	0.476	0.030	0.033	0.008	0.000	0.000	0.000	0.000	1378.79	
28	0.7593	1182.3	1203.2	1203.0	0.918	6.508	65.733	20.033	6.010	0.222	0.500	0.031	0.035	0.008	0.000	0.000	0.000	0.000	1380.87	
29	0.7580	1179.0	1199.9	1199.6	0.917	6.589	65.854	19.935	5.939	0.212	0.480	0.031	0.035	0.009	0.000	0.000	0.000	0.000	1378.20	
30	0.7571	1178.1	1199.0	1198.7	0.916	6.566	65.956	19.922	5.884	0.209	0.475	0.031	0.034	0.008	0.000	0.000	0.000	0.000	1377.93	
Avg	0.7530	1175.0	1195.6	1195.4	0.908	6.393	66.599	19.664	5.686	0.209	0.475	0.029	0.032	0.005	0.000	0.000	0.000	0.000	1377.86	

Source Daily Summary

April 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	0.7558	1174.3	1195.1	1194.8	0.915	6.681	66.367	19.257	5.991	0.232	0.501	0.027	0.029	0.000	0.000	0.000	0.000	0.000	1374.57	
2	0.7556	1174.0	1194.7	1194.5	0.918	6.673	66.373	19.307	5.936	0.233	0.501	0.028	0.031	0.000	0.000	0.000	0.000	0.000	1374.43	
3	0.7525	1168.0	1188.7	1188.5	0.918	6.747	66.858	18.868	5.830	0.229	0.495	0.027	0.029	0.000	0.000	0.000	0.000	0.000	1370.28	
4	0.7521	1166.7	1187.3	1187.1	0.913	6.799	66.803	18.965	5.765	0.225	0.479	0.024	0.027	0.000	0.000	0.000	0.000	0.000	1369.08	
5	0.7541	1170.4	1191.1	1190.9	0.911	6.763	66.532	19.160	5.864	0.230	0.489	0.025	0.027	0.000	0.000	0.000	0.000	0.000	1371.59	
6	0.7619	1185.1	1206.1	1205.8	0.911	6.596	65.680	19.599	6.323	0.262	0.568	0.030	0.032	0.000	0.000	0.000	0.000	0.000	1381.66	
7	0.7572	1176.2	1197.0	1196.8	0.913	6.689	66.209	19.336	6.028	0.243	0.522	0.028	0.031	0.000	0.000	0.000	0.000	0.000	1375.64	
8	0.7557	1173.6	1194.4	1194.1	0.913	6.712	66.345	19.283	5.962	0.235	0.496	0.026	0.028	0.000	0.000	0.000	0.000	0.000	1373.92	
9	0.7524	1165.7	1186.3	1186.1	0.915	6.876	67.032	18.490	5.829	0.245	0.546	0.031	0.034	0.000	0.000	0.000	0.000	0.000	1367.69	
10	0.7577	1176.7	1197.5	1197.3	0.919	6.698	66.051	19.544	5.970	0.228	0.520	0.033	0.036	0.000	0.000	0.000	0.000	0.000	1375.76	
11	0.7541	1170.9	1191.6	1191.4	0.924	6.714	66.302	19.655	5.680	0.200	0.464	0.029	0.033	0.000	0.000	0.000	0.000	0.000	1372.20	
12	0.7540	1171.1	1191.8	1191.6	0.925	6.687	66.339	19.626	5.695	0.198	0.465	0.029	0.032	0.004	0.000	0.000	0.000	0.000	1372.56	
13	0.7554	1173.4	1194.2	1193.9	0.927	6.672	66.195	19.667	5.789	0.203	0.477	0.030	0.034	0.007	0.000	0.000	0.000	0.000	1374.01	
14	0.7563	1176.6	1197.4	1197.2	0.929	6.563	66.048	19.889	5.824	0.201	0.473	0.031	0.034	0.007	0.000	0.000	0.000	0.000	1376.89	
15	0.7576	1177.7	1198.6	1198.3	0.926	6.620	65.904	19.876	5.903	0.209	0.488	0.032	0.035	0.007	0.000	0.000	0.000	0.000	1377.04	
16	0.7566	1176.1	1196.9	1196.6	0.925	6.629	65.971	19.898	5.840	0.201	0.469	0.029	0.032	0.007	0.000	0.000	0.000	0.000	1376.00	
17	0.7575	1177.4	1198.2	1198.0	0.930	6.622	65.877	19.950	5.854	0.208	0.486	0.032	0.035	0.007	0.000	0.000	0.000	0.000	1376.74	
18	0.7579	1176.8	1197.7	1197.4	0.931	6.691	65.815	19.922	5.868	0.209	0.490	0.032	0.035	0.008	0.000	0.000	0.000	0.000	1375.76	
19	0.7579	1177.2	1198.0	1197.8	0.928	6.678	65.796	19.975	5.835	0.214	0.502	0.031	0.034	0.007	0.000	0.000	0.000	0.000	1376.14	
20	0.7559	1174.0	1194.8	1194.6	0.927	6.685	66.044	19.848	5.738	0.208	0.480	0.030	0.032	0.007	0.000	0.000	0.000	0.000	1374.25	
21	0.7530	1169.3	1190.0	1189.7	0.928	6.705	66.395	19.650	5.617	0.193	0.448	0.028	0.030	0.007	0.000	0.000	0.000	0.000	1371.31	
22	0.7548	1167.9	1188.6	1188.3	0.919	6.961	66.294	19.247	5.832	0.211	0.473	0.028	0.030	0.006	0.000	0.000	0.000	0.000	1368.14	
23	0.7586	1178.5	1199.4	1199.1	0.928	6.660	65.890	19.694	6.012	0.233	0.513	0.030	0.033	0.007	0.000	0.000	0.000	0.000	1377.03	
24	0.7586	1178.4	1199.3	1199.0	0.927	6.669	65.856	19.733	6.020	0.223	0.497	0.031	0.035	0.008	0.000	0.000	0.000	0.000	1376.93	
25	0.7579	1177.1	1198.0	1197.6	0.926	6.688	65.877	19.786	5.947	0.211	0.489	0.032	0.036	0.007	0.000	0.000	0.000	0.000	1376.01	
26	0.7580	1177.5	1198.3	1198.0	0.927	6.668	65.921	19.730	5.964	0.214	0.499	0.033	0.037	0.007	0.000	0.000	0.000	0.000	1376.40	
27	0.7588	1178.5	1199.3	1199.1	0.931	6.678	65.768	19.849	5.986	0.223	0.493	0.031	0.034	0.007	0.000	0.000	0.000	0.000	1376.82	
28	0.7583	1177.2	1198.1	1197.8	0.929	6.714	65.792	19.839	5.956	0.215	0.483	0.031	0.034	0.007	0.000	0.000	0.000	0.000	1375.80	
29	0.7584	1177.9	1198.8	1198.5	0.927	6.687	65.792	19.858	5.958	0.217	0.489	0.031	0.035	0.007	0.000	0.000	0.000	0.000	1376.47	
30	0.7571	1175.0	1195.8	1195.5	0.923	6.748	65.925	19.751	5.907	0.210	0.469	0.029	0.032	0.007	0.000	0.000	0.000	0.000	1374.24	
Avg	0.7564	1175.0	1195.4	1195.2	0.923	6.699	66.135	19.575	5.891	0.219	0.492	0.030	0.032	0.004	0.000	0.000	0.000	0.000	1374.51	

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

April 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	0.7238	1176.6	1197.5	1197.3	0.954	3.483	70.165	21.597	3.331	0.125	0.297	0.022	0.026	0.000	0.000	0.000	0.000	0.000	1407.49	
2	0.7231	1179.3	1200.2	1200.0	0.955	3.252	70.268	21.774	3.292	0.123	0.289	0.021	0.025	0.000	0.000	0.000	0.000	0.000	1411.40	
3	0.7186	1171.2	1191.9	1191.7	0.949	3.335	70.841	21.445	2.980	0.121	0.284	0.021	0.025	0.000	0.000	0.000	0.000	0.000	1406.06	
4	0.7244	1177.7	1198.5	1198.3	0.956	3.470	70.032	21.753	3.310	0.129	0.302	0.022	0.025	0.000	0.000	0.000	0.000	0.000	1408.19	
5	0.7238	1177.5	1198.4	1198.2	0.954	3.426	70.098	21.788	3.260	0.128	0.299	0.022	0.026	0.000	0.000	0.000	0.000	0.000	1408.62	
6	0.7200	1172.9	1193.7	1193.5	0.948	3.363	70.640	21.519	3.075	0.122	0.286	0.021	0.024	0.000	0.000	0.000	0.000	0.000	1406.76	
7	0.7225	1175.9	1196.7	1196.5	0.948	3.415	70.291	21.703	3.172	0.127	0.297	0.022	0.025	0.000	0.000	0.000	0.000	0.000	1407.89	
8	0.7201	1171.3	1192.0	1191.8	0.946	3.472	70.662	21.351	3.100	0.126	0.297	0.022	0.025	0.000	0.000	0.000	0.000	0.000	1404.72	
9	0.7226	1174.3	1195.1	1194.9	0.950	3.514	70.306	21.525	3.228	0.128	0.301	0.022	0.026	0.000	0.000	0.000	0.000	0.000	1405.92	
10	0.7175	1170.2	1191.0	1190.7	0.952	3.284	71.016	21.385	2.908	0.121	0.286	0.022	0.026	0.000	0.000	0.000	0.000	0.000	1406.02	
11	0.7186	1170.3	1191.1	1190.8	0.948	3.390	70.898	21.269	3.035	0.124	0.290	0.021	0.025	0.000	0.000	0.000	0.000	0.000	1405.02	
12	0.7180	1168.7	1189.4	1189.2	0.941	3.437	71.032	21.082	3.044	0.123	0.290	0.022	0.026	0.004	0.000	0.000	0.000	0.000	1403.69	
13	0.7201	1171.5	1192.2	1192.0	0.945	3.459	70.789	21.103	3.238	0.123	0.289	0.022	0.026	0.006	0.000	0.000	0.000	0.000	1404.96	
14	0.7225	1171.7	1192.5	1192.3	0.948	3.666	70.466	21.047	3.376	0.130	0.310	0.023	0.027	0.006	0.000	0.000	0.000	0.000	1402.93	
15	0.7238	1172.6	1193.4	1193.1	0.955	3.728	70.195	21.249	3.376	0.130	0.310	0.024	0.028	0.007	0.000	0.000	0.000	0.000	1402.69	
16	0.7233	1171.8	1192.5	1192.3	0.956	3.728	70.241	21.238	3.359	0.126	0.296	0.022	0.027	0.006	0.000	0.000	0.000	0.000	1402.20	
17	0.7213	1168.5	1189.2	1188.9	0.957	3.743	70.480	21.148	3.194	0.125	0.296	0.023	0.027	0.006	0.000	0.000	0.000	0.000	1400.14	
18	0.7242	1176.4	1197.2	1197.0	0.955	3.534	70.150	21.454	3.436	0.125	0.291	0.022	0.026	0.007	0.000	0.000	0.000	0.000	1406.82	
19	0.7250	1177.8	1198.7	1198.5	0.937	3.537	70.394	20.827	3.816	0.132	0.306	0.021	0.024	0.006	0.000	0.000	0.000	0.000	1407.84	
20	0.7258	1178.0	1198.9	1198.6	0.949	3.602	69.921	21.536	3.477	0.136	0.322	0.024	0.028	0.006	0.000	0.000	0.000	0.000	1407.20	
21	0.7216	1174.3	1195.1	1194.8	0.944	3.432	70.458	21.514	3.163	0.127	0.303	0.023	0.027	0.006	0.000	0.000	0.000	0.000	1406.86	
22	0.7232	1175.3	1196.1	1195.8	0.947	3.517	70.280	21.450	3.311	0.129	0.307	0.024	0.028	0.006	0.000	0.000	0.000	0.000	1406.48	
23	0.7264	1181.2	1202.1	1201.9	0.948	3.457	69.835	21.750	3.516	0.130	0.307	0.023	0.027	0.007	0.000	0.000	0.000	0.000	1410.46	
24	0.7253	1181.8	1202.8	1202.5	0.946	3.315	69.951	21.911	3.383	0.129	0.311	0.022	0.025	0.006	0.000	0.000	0.000	0.000	1412.30	
25	0.7253	1175.7	1196.5	1196.2	0.957	3.672	69.923	21.576	3.368	0.131	0.314	0.024	0.029	0.007	0.000	0.000	0.000	0.000	1404.96	
26	0.7250	1174.7	1195.5	1195.3	0.954	3.712	69.937	21.520	3.394	0.127	0.301	0.022	0.026	0.006	0.000	0.000	0.000	0.000	1404.05	
27	0.7273	1177.5	1198.4	1198.1	0.960	3.745	69.621	21.669	3.500	0.133	0.316	0.023	0.027	0.006	0.000	0.000	0.000	0.000	1405.26	
28	0.7243	1174.4	1195.2	1195.0	0.948	3.672	70.095	21.414	3.368	0.134	0.314	0.022	0.026	0.006	0.000	0.000	0.000	0.000	1404.43	
29	0.7188	1166.7	1187.4	1187.1	0.947	3.628	70.849	21.099	2.970	0.132	0.316	0.024	0.028	0.007	0.000	0.000	0.000	0.000	1400.50	
30	0.7193	1165.2	1185.9	1185.6	0.948	3.762	70.790	20.964	3.024	0.134	0.317	0.024	0.029	0.007	0.000	0.000	0.000	0.000	1398.25	
Avg	0.7225	1174.0	1194.8	1194.6	0.950	3.525	70.354	21.422	3.267	0.128	0.302	0.022	0.026	0.004	0.000	0.000	0.000	0.000	1405.67	

Source Daily Summary

April 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	0.7544	1176.2	1197.0	1196.3	0.867	6.495	66.707	19.114	6.011	0.232	0.520	0.026	0.028	0.000	0.000	0.000	0.000	0.000	1378.24	
2	0.7555	1178.4	1199.2	1198.4	0.868	6.469	66.543	19.250	6.057	0.235	0.522	0.027	0.029	0.000	0.000	0.000	0.000	0.000	1379.71	
3	0.7525	1173.1	1193.9	1193.1	0.869	6.509	66.985	18.915	5.918	0.231	0.517	0.027	0.029	0.000	0.000	0.000	0.000	0.000	1376.27	
4	0.7521	1171.5	1192.2	1191.5	0.868	6.569	66.991	18.909	5.869	0.232	0.511	0.025	0.026	0.000	0.000	0.000	0.000	0.000	1374.77	
5	0.7530	1172.8	1193.5	1192.7	0.865	6.578	66.840	19.024	5.897	0.233	0.512	0.025	0.026	0.000	0.000	0.000	0.000	0.000	1375.45	
6	0.7561	1178.8	1199.7	1198.9	0.865	6.502	66.514	19.173	6.106	0.245	0.538	0.027	0.029	0.000	0.000	0.000	0.000	0.000	1379.67	
7	0.7565	1179.7	1200.5	1199.7	0.866	6.492	66.461	19.213	6.118	0.247	0.546	0.028	0.029	0.000	0.000	0.000	0.000	0.000	1380.26	
8	0.7556	1178.0	1198.9	1198.0	0.869	6.498	66.518	19.247	6.052	0.239	0.524	0.026	0.027	0.000	0.000	0.000	0.000	0.000	1379.20	
9	0.7541	1175.7	1196.5	1195.7	0.873	6.491	66.954	18.785	6.008	0.251	0.572	0.032	0.034	0.000	0.000	0.000	0.000	0.000	1377.86	
10	0.7557	1177.8	1198.7	1197.9	0.870	6.519	66.413	19.418	5.976	0.222	0.518	0.031	0.033	0.000	0.000	0.000	0.000	0.000	1378.89	
11	0.7542	1176.0	1196.8	1196.0	0.874	6.488	66.443	19.645	5.794	0.204	0.490	0.030	0.032	0.000	0.000	0.000	0.000	0.000	1378.09	
12	0.7528	1173.9	1194.7	1193.9	0.875	6.487	66.626	19.529	5.734	0.199	0.485	0.029	0.031	0.005	0.000	0.000	0.000	0.000	1376.87	
13	0.7540	1175.8	1196.6	1195.8	0.876	6.480	66.514	19.532	5.833	0.202	0.492	0.030	0.032	0.008	0.000	0.000	0.000	0.000	1378.01	
14	0.7558	1180.2	1201.1	1200.2	0.877	6.376	66.261	19.806	5.912	0.203	0.493	0.031	0.033	0.009	0.000	0.000	0.000	0.000	1381.55	
15	0.7559	1179.4	1200.3	1199.5	0.878	6.426	66.270	19.727	5.919	0.207	0.498	0.031	0.034	0.009	0.000	0.000	0.000	0.000	1380.62	
16	0.7546	1177.0	1197.8	1197.0	0.876	6.462	66.393	19.652	5.870	0.200	0.480	0.029	0.031	0.008	0.000	0.000	0.000	0.000	1378.90	
17	0.7547	1177.5	1198.3	1197.5	0.879	6.439	66.378	19.699	5.849	0.201	0.486	0.029	0.031	0.008	0.000	0.000	0.000	0.000	1379.36	
18	0.7507	1174.4	1195.2	1194.4	0.888	6.239	66.967	19.562	5.595	0.198	0.482	0.030	0.032	0.008	0.000	0.000	0.000	0.000	1379.38	
19	0.7449	1167.8	1188.5	1187.8	0.891	6.086	67.790	19.234	5.293	0.189	0.455	0.027	0.028	0.007	0.000	0.000	0.000	0.000	1377.04	
20	0.7516	1173.6	1194.4	1193.6	0.883	6.379	66.771	19.606	5.611	0.203	0.482	0.029	0.030	0.008	0.000	0.000	0.000	0.000	1377.65	
21	0.7508	1172.2	1192.9	1192.1	0.886	6.388	66.887	19.502	5.608	0.196	0.468	0.028	0.030	0.008	0.000	0.000	0.000	0.000	1376.68	
22	0.7546	1173.7	1194.5	1193.6	0.874	6.665	66.484	19.264	5.940	0.212	0.496	0.028	0.029	0.008	0.000	0.000	0.000	0.000	1375.02	
23	0.7565	1179.3	1200.2	1199.4	0.879	6.490	66.314	19.475	6.018	0.231	0.524	0.030	0.032	0.009	0.000	0.000	0.000	0.000	1379.92	
24	0.7586	1183.2	1204.1	1203.3	0.876	6.452	66.058	19.628	6.149	0.230	0.530	0.032	0.035	0.010	0.000	0.000	0.000	0.000	1382.54	
25	0.7575	1180.9	1201.8	1201.0	0.877	6.490	66.165	19.575	6.072	0.218	0.525	0.033	0.035	0.009	0.000	0.000	0.000	0.000	1380.84	
26	0.7569	1180.1	1201.0	1200.2	0.878	6.480	66.268	19.514	6.034	0.217	0.529	0.034	0.036	0.010	0.000	0.000	0.000	0.000	1380.45	
27	0.7574	1181.1	1202.0	1201.1	0.880	6.472	66.092	19.723	6.032	0.224	0.508	0.029	0.032	0.008	0.000	0.000	0.000	0.000	1381.07	
28	0.7581	1181.7	1202.6	1201.7	0.880	6.499	65.972	19.790	6.057	0.219	0.510	0.031	0.034	0.008	0.000	0.000	0.000	0.000	1381.19	
29	0.7574	1180.6	1201.5	1200.6	0.879	6.490	66.089	19.726	6.020	0.218	0.505	0.031	0.033	0.009	0.000	0.000	0.000	0.000	1380.67	
30	0.7557	1177.1	1198.0	1197.0	0.876	6.556	66.229	19.653	5.933	0.208	0.478	0.029	0.030	0.008	0.000	0.000	0.000	0.000	1378.07	
Avg	0.7546	1177.0	1197.7	1196.9	0.875	6.466	66.530	19.430	5.909	0.218	0.507	0.029	0.031	0.005	0.000	0.000	0.000	0.000	1378.81	

Source Daily Summary

April 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	0.7543	1172.2	1192.9	1191.9	0.898	6.694	66.654	19.011	5.943	0.233	0.510	0.028	0.029	0.000	0.000	0.000	0.000	0.000	1373.52	
2	0.7559	1176.0	1196.8	1195.8	0.905	6.595	66.430	19.254	6.016	0.235	0.508	0.027	0.029	0.000	0.000	0.000	0.000	0.000	1376.57	
3	0.7576	1179.3	1200.2	1199.1	0.906	6.554	66.202	19.422	6.105	0.240	0.513	0.028	0.030	0.000	0.000	0.000	0.000	0.000	1378.86	
4	0.7546	1174.1	1194.9	1193.9	0.907	6.587	66.630	19.126	5.952	0.235	0.505	0.028	0.030	0.000	0.000	0.000	0.000	0.000	1375.55	
5	0.7535	1171.2	1192.0	1190.9	0.906	6.665	66.716	19.056	5.869	0.235	0.499	0.026	0.027	0.000	0.000	0.000	0.000	0.000	1373.12	
6	0.7542	1172.0	1192.8	1191.8	0.904	6.682	66.582	19.166	5.882	0.235	0.496	0.026	0.027	0.000	0.000	0.000	0.000	0.000	1373.47	
7	0.7579	1179.2	1200.1	1199.1	0.904	6.586	66.196	19.365	6.118	0.248	0.526	0.028	0.029	0.000	0.000	0.000	0.000	0.000	1378.53	
8	0.7582	1179.6	1200.5	1199.5	0.904	6.588	66.168	19.366	6.136	0.250	0.530	0.029	0.030	0.000	0.000	0.000	0.000	0.000	1378.76	
9	0.7568	1177.2	1198.1	1197.1	0.906	6.604	66.267	19.383	6.038	0.241	0.507	0.026	0.028	0.000	0.000	0.000	0.000	0.000	1377.19	
10	0.7548	1172.6	1193.3	1192.6	0.908	6.699	66.687	18.894	5.966	0.248	0.536	0.031	0.032	0.000	0.000	0.000	0.000	0.000	1373.53	
11	0.7554	1175.9	1196.7	1195.6	0.909	6.554	66.457	19.358	5.922	0.228	0.506	0.032	0.034	0.000	0.000	0.000	0.000	0.000	1376.84	
12	0.7568	1177.9	1198.7	1197.7	0.912	6.563	66.051	19.819	5.882	0.212	0.487	0.031	0.033	0.008	0.000	0.000	0.000	0.000	1377.88	
13	0.7545	1173.7	1194.5	1193.4	0.913	6.592	66.313	19.699	5.737	0.202	0.471	0.030	0.032	0.011	0.000	0.000	0.000	0.000	1375.19	
14	0.7553	1175.2	1196.1	1195.0	0.914	6.575	66.254	19.678	5.821	0.205	0.478	0.030	0.032	0.012	0.000	0.000	0.000	0.000	1376.22	
15	0.7578	1180.6	1201.5	1200.4	0.915	6.482	65.930	19.947	5.954	0.207	0.484	0.032	0.034	0.013	0.000	0.000	0.000	0.000	1380.19	
16	0.7569	1179.6	1200.4	1199.4	0.917	6.458	66.013	19.984	5.868	0.204	0.473	0.033	0.036	0.014	0.000	0.000	0.000	0.000	1379.82	
17	0.7550	1174.8	1195.6	1194.6	0.916	6.571	66.197	19.826	5.771	0.196	0.452	0.029	0.030	0.013	0.000	0.000	0.000	0.000	1376.00	
18	0.7572	1179.0	1199.9	1198.8	0.917	6.520	65.941	19.986	5.880	0.205	0.477	0.031	0.032	0.012	0.000	0.000	0.000	0.000	1378.89	
19	0.7520	1174.0	1194.8	1193.7	0.927	6.326	66.713	19.702	5.591	0.200	0.467	0.030	0.032	0.012	0.000	0.000	0.000	0.000	1377.75	
20	0.7463	1167.4	1188.1	1187.0	0.930	6.186	67.529	19.354	5.296	0.192	0.444	0.028	0.029	0.011	0.000	0.000	0.000	0.000	1375.27	
21	0.7530	1173.2	1193.9	1192.9	0.921	6.473	66.513	19.741	5.609	0.205	0.466	0.029	0.031	0.012	0.000	0.000	0.000	0.000	1375.92	
22	0.7526	1172.5	1193.2	1192.2	0.924	6.474	66.560	19.704	5.613	0.199	0.456	0.029	0.030	0.011	0.000	0.000	0.000	0.000	1375.47	
23	0.7566	1174.7	1195.5	1194.4	0.913	6.734	66.099	19.545	5.944	0.213	0.481	0.029	0.030	0.011	0.000	0.000	0.000	0.000	1374.36	
24	0.7568	1176.9	1197.7	1196.7	0.917	6.613	66.135	19.592	5.953	0.228	0.493	0.029	0.030	0.011	0.000	0.000	0.000	0.000	1376.77	
25	0.7606	1184.0	1204.9	1203.9	0.916	6.531	65.721	19.818	6.169	0.239	0.525	0.033	0.036	0.011	0.000	0.000	0.000	0.000	1381.65	
26	0.7595	1181.7	1202.6	1201.6	0.914	6.575	65.766	19.840	6.108	0.220	0.498	0.033	0.035	0.011	0.000	0.000	0.000	0.000	1379.95	
27	0.7596	1181.8	1202.8	1201.7	0.917	6.574	65.836	19.741	6.081	0.227	0.537	0.036	0.039	0.013	0.000	0.000	0.000	0.000	1379.99	
28	0.7572	1177.7	1198.5	1198.3	0.919	6.598	65.997	19.779	5.948	0.216	0.472	0.029	0.030	0.012	0.000	0.000	0.000	0.000	1377.32	
29	0.7602	1182.8	1203.8	1203.6	0.919	6.565	65.656	19.947	6.101	0.229	0.505	0.032	0.034	0.012	0.000	0.000	0.000	0.000	1380.61	
30	0.7579	1178.6	1199.5	1199.3	0.917	6.608	65.903	19.825	5.976	0.216	0.479	0.031	0.033	0.011	0.000	0.000	0.000	0.000	1377.83	
Avg	0.7560	1177.0	1197.3	1196.4	0.913	6.561	66.271	19.564	5.908	0.221	0.493	0.030	0.031	0.007	0.000	0.000	0.000	0.000	1377.10	

Source Daily Summary

April 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	0.7547	1172.8	1193.6	1192.8	0.899	6.686	66.607	19.047	5.957	0.234	0.512	0.028	0.030	0.000	0.000	0.000	0.000	0.000	1373.93	
2	0.7560	1176.1	1197.0	1196.2	0.906	6.593	66.422	19.256	6.021	0.236	0.509	0.028	0.029	0.000	0.000	0.000	0.000	0.000	1376.66	
3	0.7572	1178.5	1199.3	1198.8	0.907	6.562	66.251	19.396	6.077	0.239	0.510	0.028	0.030	0.000	0.000	0.000	0.000	0.000	1378.31	
4	0.7540	1172.9	1193.7	1193.1	0.908	6.600	66.710	19.073	5.919	0.234	0.500	0.028	0.029	0.000	0.000	0.000	0.000	0.000	1374.71	
5	0.7531	1170.3	1191.1	1190.4	0.907	6.675	66.763	19.036	5.841	0.233	0.493	0.025	0.026	0.000	0.000	0.000	0.000	0.000	1372.50	
6	0.7543	1172.1	1192.9	1192.2	0.905	6.682	66.576	19.169	5.883	0.236	0.498	0.026	0.027	0.000	0.000	0.000	0.000	0.000	1373.50	
7	0.7584	1180.1	1201.0	1200.3	0.904	6.577	66.142	19.387	6.149	0.250	0.531	0.029	0.030	0.000	0.000	0.000	0.000	0.000	1379.13	
8	0.7582	1179.7	1200.6	1199.8	0.905	6.588	66.165	19.364	6.139	0.250	0.531	0.029	0.030	0.000	0.000	0.000	0.000	0.000	1378.77	
9	0.7569	1177.3	1198.2	1197.5	0.907	6.605	66.258	19.384	6.041	0.242	0.509	0.027	0.028	0.000	0.000	0.000	0.000	0.000	1377.24	
10	0.7553	1173.2	1193.9	1193.3	0.910	6.702	66.655	18.880	5.990	0.251	0.547	0.032	0.034	0.000	0.000	0.000	0.000	0.000	1373.82	
11	0.7551	1175.1	1196.0	1195.2	0.910	6.570	66.499	19.315	5.906	0.228	0.507	0.032	0.034	0.000	0.000	0.000	0.000	0.000	1376.27	
12	0.7572	1178.5	1199.4	1198.6	0.913	6.559	66.009	19.836	5.905	0.214	0.491	0.032	0.034	0.008	0.000	0.000	0.000	0.000	1378.30	
13	0.7549	1174.4	1195.2	1194.4	0.914	6.587	66.264	19.722	5.760	0.203	0.476	0.030	0.032	0.011	0.000	0.000	0.000	0.000	1375.64	
14	0.7555	1175.6	1196.4	1195.6	0.915	6.573	66.232	19.688	5.831	0.206	0.480	0.031	0.032	0.012	0.000	0.000	0.000	0.000	1376.42	
15	0.7579	1180.6	1201.5	1200.8	0.916	6.483	65.924	19.948	5.957	0.208	0.485	0.032	0.034	0.013	0.000	0.000	0.000	0.000	1380.21	
16	0.7562	1178.3	1199.1	1198.4	0.918	6.469	66.083	19.956	5.829	0.201	0.465	0.031	0.033	0.014	0.000	0.000	0.000	0.000	1378.95	
17	0.7573	1179.8	1200.7	1200.2	0.919	6.478	65.960	19.994	5.888	0.205	0.475	0.031	0.033	0.018	0.000	0.000	0.000	0.000	1379.74	
18	0.7566	1177.9	1198.8	1198.6	0.917	6.528	66.014	19.943	5.847	0.204	0.472	0.030	0.032	0.012	0.000	0.000	0.000	0.000	1378.20	
19	0.7513	1173.0	1193.7	1193.5	0.928	6.322	66.809	19.655	5.548	0.199	0.464	0.031	0.033	0.012	0.000	0.000	0.000	0.000	1377.17	
20	0.7458	1166.6	1187.2	1187.0	0.931	6.189	67.607	19.300	5.273	0.191	0.442	0.028	0.029	0.011	0.000	0.000	0.000	0.000	1374.73	
21	0.7526	1172.5	1193.3	1192.8	0.922	6.480	66.556	19.713	5.589	0.204	0.465	0.029	0.031	0.012	0.000	0.000	0.000	0.000	1375.48	
22	0.7528	1172.6	1193.4	1192.6	0.925	6.483	66.536	19.707	5.621	0.199	0.457	0.029	0.031	0.011	0.000	0.000	0.000	0.000	1375.43	
23	0.7573	1175.8	1196.7	1195.9	0.913	6.728	66.017	19.583	5.983	0.216	0.490	0.029	0.030	0.011	0.000	0.000	0.000	0.000	1375.08	
24	0.7571	1177.3	1198.2	1197.3	0.918	6.610	66.107	19.604	5.966	0.229	0.496	0.029	0.031	0.011	0.000	0.000	0.000	0.000	1377.02	
25	0.7610	1184.8	1205.7	1204.9	0.917	6.525	65.673	19.837	6.192	0.242	0.532	0.034	0.036	0.011	0.000	0.000	0.000	0.000	1382.15	
26	0.7599	1182.4	1203.3	1202.5	0.915	6.568	65.729	19.855	6.128	0.222	0.502	0.033	0.036	0.011	0.000	0.000	0.000	0.000	1380.37	
27	0.7597	1181.9	1202.8	1202.1	0.918	6.573	65.833	19.742	6.080	0.227	0.538	0.037	0.039	0.013	0.000	0.000	0.000	0.000	1380.02	
28	0.7577	1178.6	1199.5	1199.3	0.920	6.587	65.944	19.802	5.979	0.219	0.478	0.029	0.031	0.012	0.000	0.000	0.000	0.000	1377.97	
29	0.7606	1183.4	1204.4	1204.2	0.921	6.560	65.620	19.958	6.121	0.231	0.510	0.032	0.035	0.012	0.000	0.000	0.000	0.000	1380.98	
30	0.7584	1179.4	1200.3	1200.0	0.919	6.606	65.851	19.844	6.000	0.218	0.485	0.032	0.034	0.012	0.000	0.000	0.000	0.000	1378.26	
Avg	0.7561	1177.0	1197.6	1196.9	0.914	6.558	66.261	19.567	5.914	0.222	0.495	0.030	0.032	0.008	0.000	0.000	0.000	0.000	1377.23	

Source Daily Summary

April 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	0.6920	1141.9	1162.1	1161.8	0.371	3.505	73.966	20.083	1.935	0.046	0.086	0.005	0.005	0.000	0.000	0.000	0.000	0.000	1397.07	
2	0.6952	1146.5	1166.8	1166.4	0.306	3.629	73.414	20.399	2.095	0.051	0.097	0.005	0.005	0.000	0.000	0.000	0.000	0.000	1399.45	
3	0.6877	1126.9	1146.9	1146.5	0.494	3.826	74.726	19.082	1.724	0.046	0.091	0.005	0.006	0.000	0.000	0.000	0.000	0.000	1383.09	
4	0.6718	1109.8	1129.5	1129.0	0.710	3.049	77.490	17.613	1.064	0.025	0.045	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1377.99	
5	0.6621	1089.8	1109.1	1108.7	0.972	2.959	79.777	15.141	1.055	0.029	0.061	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1363.07	
6	0.6925	1118.4	1138.2	1137.7	0.928	4.131	75.612	16.193	2.774	0.106	0.232	0.012	0.013	0.000	0.000	0.000	0.000	0.000	1367.97	
7	0.6562	1084.1	1103.3	1102.9	0.987	2.734	80.679	14.760	0.772	0.021	0.042	0.002	0.003	0.000	0.000	0.000	0.000	0.000	1361.93	
8	0.6816	1110.2	1129.9	1129.5	0.978	3.532	76.780	16.619	1.877	0.064	0.137	0.007	0.007	0.000	0.000	0.000	0.000	0.000	1368.67	
9	0.7198	1141.0	1161.2	1160.7	0.913	5.330	71.694	17.322	4.144	0.169	0.384	0.021	0.022	0.000	0.000	0.000	0.000	0.000	1369.14	
10	0.7273	1149.5	1169.8	1169.4	0.904	5.534	70.486	17.982	4.495	0.167	0.385	0.023	0.024	0.000	0.000	0.000	0.000	0.000	1372.07	
11	0.7222	1144.2	1164.4	1164.0	0.916	5.369	71.006	18.071	4.121	0.142	0.335	0.020	0.021	0.000	0.000	0.000	0.000	0.000	1370.42	
12	0.7395	1161.2	1181.7	1181.2	0.888	5.995	68.556	18.849	5.057	0.174	0.423	0.025	0.027	0.005	0.000	0.000	0.000	0.000	1374.31	
13	0.7542	1176.2	1197.0	1196.4	0.876	6.472	66.491	19.553	5.841	0.203	0.493	0.030	0.032	0.009	0.000	0.000	0.000	0.000	1378.32	
14	0.7558	1180.2	1201.1	1200.5	0.877	6.377	66.257	19.804	5.915	0.203	0.493	0.031	0.033	0.009	0.000	0.000	0.000	0.000	1381.55	
15	0.7559	1179.7	1200.6	1200.0	0.878	6.420	66.259	19.738	5.925	0.208	0.499	0.031	0.033	0.009	0.000	0.000	0.000	0.000	1380.82	
16	0.6967	1121.1	1140.9	1140.5	0.954	4.318	74.770	16.787	2.820	0.094	0.224	0.014	0.015	0.005	0.000	0.000	0.000	0.000	1367.13	
17	0.6592	1083.6	1102.8	1102.4	1.032	2.976	80.116	14.995	0.802	0.023	0.048	0.003	0.003	0.002	0.000	0.000	0.000	0.000	1358.24	
18	0.6557	1081.3	1100.4	1100.0	1.019	2.808	80.691	14.755	0.664	0.019	0.039	0.002	0.002	0.002	0.000	0.000	0.000	0.000	1358.94	
19	0.6518	1078.4	1097.5	1097.1	0.984	2.671	81.450	14.179	0.655	0.018	0.037	0.002	0.002	0.002	0.000	0.000	0.000	0.000	1359.34	
20	0.6610	1091.3	1110.6	1110.3	1.003	2.723	79.625	15.873	0.711	0.019	0.039	0.002	0.002	0.002	0.000	0.000	0.000	0.000	1366.03	
21	0.6685	1099.3	1118.8	1118.3	1.010	2.929	78.342	16.629	1.000	0.026	0.055	0.003	0.003	0.002	0.000	0.000	0.000	0.000	1368.35	
22	0.7303	1151.6	1172.0	1171.4	0.914	5.671	69.792	18.533	4.523	0.158	0.364	0.019	0.020	0.006	0.000	0.000	0.000	0.000	1371.83	
23	0.7511	1173.3	1194.1	1193.6	0.885	6.338	67.022	19.276	5.713	0.216	0.487	0.027	0.028	0.008	0.000	0.000	0.000	0.000	1377.87	
24	0.7582	1182.6	1203.6	1203.0	0.877	6.451	66.098	19.616	6.126	0.229	0.526	0.032	0.034	0.010	0.000	0.000	0.000	0.000	1382.23	
25	0.7573	1180.6	1201.5	1200.8	0.877	6.490	66.171	19.594	6.057	0.216	0.517	0.032	0.035	0.010	0.000	0.000	0.000	0.000	1380.64	
26	0.7570	1180.2	1201.1	1200.7	0.877	6.486	66.266	19.492	6.040	0.219	0.538	0.034	0.037	0.010	0.000	0.000	0.000	0.000	1380.49	
27	0.7571	1180.4	1201.3	1200.8	0.880	6.478	66.131	19.704	6.016	0.221	0.502	0.029	0.031	0.008	0.000	0.000	0.000	0.000	1380.63	
28	0.7581	1181.6	1202.5	1202.1	0.880	6.499	65.979	19.789	6.053	0.219	0.508	0.031	0.033	0.008	0.000	0.000	0.000	0.000	1381.12	
29	0.7570	1180.0	1200.9	1200.4	0.879	6.496	66.129	19.706	5.999	0.217	0.501	0.031	0.033	0.009	0.000	0.000	0.000	0.000	1380.23	
30	0.7559	1177.6	1198.5	1198.0	0.876	6.548	66.205	19.669	5.943	0.209	0.481	0.029	0.031	0.008	0.000	0.000	0.000	0.000	1378.40	
Avg	0.7130	1140.0	1160.3	1159.8	0.865	4.825	72.266	17.994	3.597	0.125	0.289	0.017	0.018	0.004	0.000	0.000	0.000	0.000	1374.58	

Source Daily Summary

April 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	0.6822	1126.8	1146.7	1146.5	0.456	3.383	75.133	19.801	1.153	0.027	0.043	0.002	0.002	0.000	0.000	0.000	0.000	0.000	1388.35	
2	0.6828	1133.8	1153.9	1153.7	0.404	3.093	74.816	20.622	1.006	0.022	0.035	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1396.39	
3	0.6830	1140.4	1160.6	1160.5	0.255	2.936	74.456	21.470	0.841	0.017	0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1404.36	
4	0.6838	1145.7	1165.9	1165.7	0.166	2.828	74.119	22.108	0.746	0.014	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1410.00	
5	0.6856	1153.9	1174.3	1174.1	0.003	2.742	73.358	23.355	0.523	0.009	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1418.31	
6	0.6856	1151.0	1171.4	1171.2	0.000	2.922	73.278	23.300	0.484	0.007	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1414.78	
7	0.6856	1151.1	1171.5	1171.2	0.000	2.924	73.286	23.274	0.499	0.007	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1414.77	
8	0.6716	1116.9	1136.7	1136.4	0.578	2.807	76.977	18.905	0.691	0.015	0.027	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1386.85	
9	0.6595	1088.1	1107.4	1107.1	0.989	2.796	79.966	15.426	0.759	0.022	0.041	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1363.56	
10	0.6580	1085.2	1104.4	1104.2	0.998	2.820	80.238	15.161	0.719	0.022	0.041	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1361.45	
11	0.6747	1124.3	1144.2	1144.0	0.430	2.874	76.176	19.791	0.688	0.014	0.026	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1392.78	
12	0.6871	1153.3	1173.8	1173.4	0.000	2.924	73.111	23.323	0.625	0.008	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1416.03	
13	0.6682	1111.4	1131.1	1130.8	0.594	2.790	77.691	18.207	0.672	0.016	0.030	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1383.58	
14	0.6582	1085.3	1104.5	1104.2	0.999	2.832	80.150	15.279	0.678	0.021	0.041	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1361.37	
15	0.6609	1087.2	1106.4	1106.1	1.022	2.938	79.629	15.649	0.698	0.022	0.042	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1360.93	
16	0.6600	1085.6	1104.8	1104.6	1.031	2.931	79.813	15.471	0.693	0.020	0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1359.94	
17	0.6646	1097.0	1116.4	1116.1	0.876	2.908	78.763	16.657	0.738	0.020	0.036	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1369.31	
18	0.6857	1152.3	1172.7	1172.4	0.051	2.783	73.542	22.913	0.681	0.011	0.018	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1416.13	
19	0.6737	1124.1	1144.0	1143.7	0.435	2.783	76.379	19.702	0.662	0.014	0.024	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1393.57	
20	0.6618	1092.6	1111.9	1111.7	1.001	2.716	79.458	16.070	0.698	0.019	0.037	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1366.88	
21	0.6683	1101.0	1120.5	1120.2	1.005	2.809	78.252	17.047	0.826	0.021	0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1370.68	
22	0.6706	1104.1	1123.6	1123.4	1.012	2.833	77.868	17.304	0.917	0.022	0.041	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1372.09	
23	0.6724	1105.6	1125.1	1124.9	1.029	2.888	77.458	17.687	0.877	0.021	0.039	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1372.07	
24	0.6683	1101.7	1121.3	1121.0	0.995	2.782	78.201	17.170	0.795	0.019	0.037	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1371.57	
25	0.6702	1103.0	1122.5	1122.2	1.009	2.865	77.895	17.299	0.871	0.021	0.039	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1371.15	
26	0.6740	1109.1	1128.8	1128.5	1.017	2.835	77.264	17.828	0.989	0.023	0.043	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1374.91	
27	0.6678	1098.5	1117.9	1117.7	1.051	2.854	78.526	16.544	0.951	0.025	0.048	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1367.94	
28	0.6627	1092.0	1111.3	1111.1	1.019	2.807	79.520	15.668	0.917	0.024	0.044	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1365.21	
29	0.6620	1091.1	1110.4	1110.2	1.015	2.809	79.609	15.611	0.892	0.023	0.042	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1364.74	
30	0.6549	1081.1	1100.2	1100.0	1.003	2.769	80.953	14.423	0.787	0.023	0.042	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1359.53	
Avg	0.6715	1113.0	1132.8	1132.6	0.681	2.866	77.196	18.435	0.769	0.018	0.033	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1382.31	

Source Daily Summary

April 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	0.6831	1125.8	1145.8	1145.3	0.625	3.260	75.791	18.496	1.713	0.040	0.066	0.004	0.004	0.000	0.000	0.000	0.000	0.000	1386.32	
2	0.6772	1114.3	1134.1	1133.9	0.829	3.102	76.892	17.657	1.413	0.036	0.063	0.004	0.004	0.000	0.000	0.000	0.000	0.000	1378.10	
3	0.6742	1110.0	1129.7	1129.3	0.745	3.212	77.377	17.158	1.415	0.032	0.055	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1375.76	
4	0.6783	1113.4	1133.1	1132.8	0.754	3.373	76.967	17.018	1.738	0.051	0.090	0.005	0.004	0.000	0.000	0.000	0.000	0.000	1375.80	
5	0.6749	1110.0	1129.7	1129.5	0.508	3.636	77.398	16.531	1.789	0.047	0.083	0.004	0.004	0.000	0.000	0.000	0.000	0.000	1375.02	
6	0.6768	1115.7	1135.5	1135.2	0.345	3.710	76.781	17.250	1.823	0.034	0.053	0.002	0.002	0.000	0.000	0.000	0.000	0.000	1380.25	
7	0.6810	1121.0	1140.9	1140.5	0.460	3.609	76.230	17.631	1.948	0.045	0.072	0.003	0.002	0.000	0.000	0.000	0.000	0.000	1382.50	
8	0.6814	1126.6	1146.6	1146.2	0.353	3.464	75.817	18.535	1.731	0.037	0.058	0.002	0.002	0.000	0.000	0.000	0.000	0.000	1389.06	
9	0.6831	1131.3	1151.3	1150.9	0.285	3.450	75.220	19.396	1.545	0.037	0.062	0.003	0.002	0.000	0.000	0.000	0.000	0.000	1393.02	
10	0.6814	1121.8	1141.7	1141.2	0.450	3.611	76.076	17.878	1.853	0.046	0.079	0.003	0.002	0.000	0.000	0.000	0.000	0.000	1383.07	
11	0.6814	1119.7	1139.5	1139.3	0.573	3.551	76.242	17.632	1.854	0.050	0.089	0.005	0.004	0.000	0.000	0.000	0.000	0.000	1380.52	
12	0.6783	1111.8	1131.5	1131.2	0.759	3.466	76.797	17.235	1.598	0.048	0.086	0.005	0.005	0.000	0.000	0.000	0.000	0.000	1373.82	
13	0.6824	1124.7	1144.7	1144.3	0.547	3.379	75.852	18.410	1.661	0.049	0.090	0.005	0.005	0.000	0.000	0.000	0.000	0.000	1385.68	
14	0.6837	1124.2	1144.1	1143.7	0.657	3.367	76.022	17.878	1.865	0.067	0.127	0.008	0.008	0.001	0.000	0.000	0.000	0.000	1383.71	
15	0.6834	1122.9	1142.8	1142.4	0.688	3.374	76.098	17.781	1.848	0.065	0.129	0.009	0.008	0.001	0.000	0.000	0.000	0.000	1382.35	
16	0.6833	1122.4	1142.3	1141.9	0.639	3.463	76.011	17.844	1.862	0.058	0.109	0.007	0.006	0.001	0.000	0.000	0.000	0.000	1381.94	
17	0.6941	1139.3	1159.5	1159.1	0.570	3.556	74.252	19.084	2.318	0.071	0.132	0.008	0.007	0.001	0.000	0.000	0.000	0.000	1391.71	
18	0.6966	1141.3	1161.5	1161.4	0.664	3.531	73.994	19.146	2.412	0.080	0.153	0.010	0.010	0.002	0.000	0.000	0.000	0.000	1391.59	
19	0.6949	1142.2	1162.5	1162.2	0.522	3.530	73.850	19.712	2.200	0.062	0.112	0.006	0.005	0.000	0.000	0.000	0.000	0.000	1394.49	
20	0.6912	1134.5	1154.6	1154.2	0.547	3.611	74.538	19.002	2.116	0.062	0.112	0.006	0.005	0.000	0.000	0.000	0.000	0.000	1388.80	
21	0.6901	1132.4	1152.5	1152.0	0.565	3.613	74.851	18.605	2.165	0.065	0.122	0.007	0.006	0.001	0.000	0.000	0.000	0.000	1387.27	
22	0.6879	1129.0	1149.0	1148.6	0.572	3.595	75.229	18.345	2.053	0.065	0.124	0.008	0.007	0.001	0.000	0.000	0.000	0.000	1385.39	
23	0.6847	1125.0	1145.0	1144.5	0.572	3.544	75.574	18.308	1.841	0.053	0.098	0.005	0.005	0.000	0.000	0.000	0.000	0.000	1383.68	
24	0.6855	1126.0	1145.9	1145.5	0.539	3.606	75.619	18.013	2.038	0.060	0.112	0.006	0.006	0.001	0.000	0.000	0.000	0.000	1384.09	
25	0.6846	1124.4	1144.3	1143.9	0.539	3.621	75.748	17.919	1.985	0.061	0.114	0.007	0.006	0.001	0.000	0.000	0.000	0.000	1383.01	
26	0.6832	1122.5	1142.4	1142.0	0.588	3.532	76.019	17.759	1.916	0.060	0.112	0.007	0.006	0.001	0.000	0.000	0.000	0.000	1382.08	
27	0.6855	1125.4	1145.3	1144.9	0.689	3.421	75.720	18.036	1.929	0.065	0.125	0.008	0.007	0.001	0.000	0.000	0.000	0.000	1383.28	
28	0.6869	1126.6	1146.5	1146.0	0.683	3.482	75.696	17.783	2.113	0.075	0.148	0.009	0.009	0.001	0.000	0.000	0.000	0.000	1383.37	
29	0.6801	1114.7	1134.4	1134.0	0.551	3.771	76.667	16.843	1.969	0.064	0.121	0.007	0.007	0.001	0.000	0.000	0.000	0.000	1375.58	
30	0.6813	1119.0	1138.8	1138.3	0.466	3.746	76.265	17.394	1.970	0.054	0.095	0.005	0.004	0.000	0.000	0.000	0.000	0.000	1379.76	
Avg	0.6837	1124.0	1143.8	1143.5	0.576	3.506	75.853	18.009	1.889	0.055	0.100	0.006	0.005	0.000	0.000	0.000	0.000	0.000	1383.37	

Source Daily Summary

April 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	0.6858	1154.3	1174.7	1172.6	0.000	2.740	73.303	23.420	0.523	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1418.59	-26.69
2	0.6848	1152.9	1173.4	1171.2	0.000	2.730	73.498	23.245	0.512	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1417.94	-27.20
3	0.6841	1152.0	1172.4	1170.5	0.000	2.723	73.657	23.079	0.526	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1417.48	-27.50
4	0.6847	1152.9	1173.4	1171.6	0.000	2.727	73.514	23.223	0.521	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1417.98	-27.18
5	0.6848	1150.9	1171.3	1169.6	0.000	2.859	73.496	23.102	0.521	0.007	0.013	0.001	0.002	0.000	0.000	0.000	0.000	0.000	1415.39	-27.27
6	0.6848	1149.6	1169.9	1168.5	0.000	2.941	73.440	23.107	0.498	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1413.75	-27.70
7	0.6862	1152.0	1172.4	1170.5	0.000	2.927	73.297	23.170	0.554	0.014	0.031	0.003	0.004	0.000	0.000	0.000	0.000	0.000	1415.23	-26.08
8	0.6853	1150.6	1171.0	1168.8	0.000	2.921	73.335	23.240	0.490	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1414.56	-27.46
9	0.6869	1153.0	1173.5	1172.1	0.000	2.927	73.206	23.167	0.678	0.008	0.013	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1415.83	-25.83
10	0.6866	1152.5	1172.9	1171.3	0.000	2.927	73.250	23.147	0.661	0.007	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1415.52	-26.17
11	0.6866	1152.6	1173.0	1171.3	0.000	2.922	73.275	23.107	0.673	0.008	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1415.61	-26.01
12	0.6869	1153.1	1173.5	1171.7	0.000	2.919	73.238	23.128	0.692	0.008	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1415.92	-25.79
13	0.6881	1155.1	1175.5	1174.1	0.000	2.907	73.230	22.958	0.838	0.020	0.043	0.002	0.002	0.000	0.000	0.000	0.000	0.000	1417.16	-24.12
14	0.6868	1153.6	1174.0	1172.5	0.000	2.887	73.246	23.155	0.689	0.008	0.015	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1416.56	-25.69
15	0.6855	1153.3	1173.7	1172.1	0.000	2.777	73.498	23.038	0.669	0.007	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1417.62	-26.32
16	0.6858	1154.3	1174.7	1172.9	0.000	2.746	73.474	23.070	0.686	0.009	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1418.50	-25.91
17	0.6860	1154.6	1175.0	1173.5	0.000	2.744	73.446	23.098	0.688	0.009	0.015	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1418.68	-25.80
18	0.6862	1154.2	1174.7	1173.1	0.000	2.790	73.363	23.154	0.669	0.008	0.014	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1417.99	-25.84
19	0.6858	1154.3	1174.8	1173.2	0.000	2.739	73.494	23.047	0.696	0.009	0.015	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1418.60	-25.86
20	0.6856	1154.3	1174.7	1172.9	0.000	2.727	73.534	23.009	0.706	0.008	0.014	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1418.71	-25.88
21	0.6857	1154.4	1174.9	1173.0	0.000	2.727	73.542	22.980	0.724	0.009	0.015	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1418.78	-25.74
22	0.6855	1151.7	1172.1	1170.4	0.000	2.874	73.485	22.960	0.665	0.007	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1415.65	-26.59
23	0.6857	1151.2	1171.6	1169.6	0.000	2.924	73.446	22.945	0.663	0.008	0.013	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1414.81	-26.47
24	0.6852	1150.4	1170.7	1169.0	0.000	2.923	73.532	22.884	0.640	0.008	0.013	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1414.38	-26.82
25	0.6856	1151.1	1171.5	1170.0	0.000	2.925	73.470	22.921	0.649	0.010	0.020	0.002	0.002	0.001	0.000	0.000	0.000	0.000	1414.75	-26.24
26	0.6857	1151.3	1171.7	1169.9	0.000	2.922	73.425	22.990	0.635	0.009	0.017	0.001	0.002	0.001	0.000	0.000	0.000	0.000	1414.89	-26.38
27	0.6856	1150.9	1171.3	1169.7	0.000	2.931	73.448	22.944	0.654	0.008	0.013	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1414.60	-26.56
28	0.6865	1152.4	1172.9	1171.1	0.000	2.922	73.297	23.082	0.676	0.008	0.013	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1415.55	-26.00
29	0.6859	1151.5	1171.9	1170.3	0.000	2.924	73.385	23.019	0.656	0.007	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1414.99	-26.53
30	0.6862	1152.3	1172.7	1171.2	0.000	2.901	73.342	23.076	0.658	0.008	0.014	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1415.72	-26.16
Avg	0.6858	1153.0	1173.0	1171.3	0.000	2.852	73.405	23.082	0.637	0.008	0.014	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1416.39	-26.33

Source Daily Summary

April 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	0.6394	1060.0	1078.8	1078.4	0.426	3.469	83.675	11.398	0.950	0.029	0.046	0.004	0.003	0.000	0.000	0.000	0.000	0.000	1348.91	
2	0.5737	965.7	982.8	982.4	0.121	3.498	95.755	0.577	0.038	0.009	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1297.53	
3	0.5721	963.2	980.3	979.8	0.110	3.512	96.051	0.303	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1296.05	
4	0.5721	963.2	980.3	979.8	0.113	3.507	96.052	0.305	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1296.07	
5	0.5721	963.3	980.3	979.9	0.113	3.504	96.054	0.306	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1296.12	
6	0.5721	963.2	980.2	979.8	0.113	3.515	96.045	0.305	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.93	
7	0.5722	963.0	980.1	979.8	0.113	3.526	96.034	0.305	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.73	
8	0.5721	963.1	980.2	979.9	0.113	3.517	96.042	0.305	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.88	
9	0.5721	963.2	980.2	979.8	0.112	3.517	96.042	0.306	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.91	
10	0.5721	963.2	980.2	979.9	0.112	3.515	96.045	0.305	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.96	
11	0.5718	962.7	979.8	979.4	0.112	3.509	96.033	0.305	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.70	
12	0.5721	963.3	980.4	979.9	0.113	3.499	96.058	0.307	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1296.22	
13	0.5721	963.4	980.4	979.9	0.113	3.496	96.061	0.307	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1296.28	
14	0.5721	963.3	980.4	979.8	0.114	3.501	96.056	0.306	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1296.17	
15	0.5721	963.2	980.3	979.7	0.113	3.508	96.050	0.306	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1296.06	
16	0.5721	963.2	980.3	979.8	0.112	3.508	96.053	0.305	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1296.09	
17	0.5721	963.1	980.2	979.8	0.110	3.523	96.039	0.305	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.84	
18	0.5724	962.7	979.7	979.4	0.111	3.569	95.986	0.310	0.016	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.03	
19	0.5721	963.2	980.3	979.9	0.111	3.514	96.047	0.305	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1296.00	
20	0.5721	963.2	980.3	979.9	0.112	3.511	96.049	0.305	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1296.04	
21	0.5721	963.1	980.1	979.5	0.111	3.526	96.035	0.304	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.77	
22	0.5721	963.1	980.2	979.7	0.111	3.524	96.038	0.305	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.83	
23	0.5721	963.1	980.1	979.6	0.110	3.526	96.036	0.304	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.80	
24	0.5834	973.2	990.5	989.9	0.162	3.887	93.884	1.902	0.146	0.010	0.008	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1296.80	
25	0.6550	1072.5	1091.5	1090.7	0.856	3.530	80.985	13.472	1.088	0.025	0.039	0.002	0.002	0.001	0.000	0.000	0.000	0.000	1348.58	
26	0.6590	1076.6	1095.7	1095.0	0.926	3.540	80.315	13.990	1.162	0.024	0.038	0.002	0.002	0.000	0.000	0.000	0.000	0.000	1349.73	
27	0.6592	1076.0	1095.0	1094.4	0.936	3.582	80.314	13.906	1.194	0.025	0.039	0.002	0.002	0.000	0.000	0.000	0.000	0.000	1348.74	
28	0.6603	1079.1	1098.2	1097.7	0.935	3.501	80.113	14.172	1.208	0.026	0.041	0.002	0.002	0.000	0.000	0.000	0.000	0.000	1351.46	
29	0.6432	1053.6	1072.2	1071.5	0.864	3.556	83.199	11.430	0.885	0.023	0.038	0.002	0.002	0.000	0.000	0.000	0.000	0.000	1336.91	
30	0.6251	1030.0	1048.2	1047.7	0.698	3.545	86.429	8.675	0.599	0.020	0.030	0.002	0.002	0.000	0.000	0.000	0.000	0.000	1325.73	
Avg	0.5904	987.0	1004.6	1004.1	0.276	3.531	92.719	3.198	0.253	0.012	0.009	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1307.30	

April-24

ZONE 550

MANDAN BORDER

NBPL - St Anthony

WBI - Mandan Border

Weighted

Start Date	End Date	NBPL - St Anthony			WBI - Mandan Border			AVG BTU	
		MCF	DK	BTU	MCF	DK	BTU Zone 28		
4/1/2024	4/2/2024	0	0	0	3,609	4,193	1162.1	1162.100	4/1/2024
4/2/2024	4/3/2024	3,149	3,492	1,109	3,387	3,950	1166.8	1138.808	4/2/2024
4/3/2024	4/4/2024	6,176	6,825	1,105	2,832	3,248	1146.9	1117.899	4/3/2024
4/4/2024	4/5/2024	0	0	0	2,749	3,096	1129.5	1129.500	4/4/2024
4/5/2024	4/6/2024	0	0	0	2,626	2,915	1109.1	1109.100	4/5/2024
4/6/2024	4/7/2024	0	0	0	2,241	2,546	1138.2	1138.200	4/6/2024
4/7/2024	4/8/2024	0	0	0	3,725	4,110	1103.3	1103.300	4/7/2024
4/8/2024	4/9/2024	0	0	0	3,222	3,635	1129.9	1129.900	4/8/2024
4/9/2024	4/10/2024	0	0	0	2,276	2,627	1161.2	1161.200	4/9/2024
4/10/2024	4/11/2024	0	0	0	3,058	3,583	1169.8	1169.800	4/10/2024
4/11/2024	4/12/2024	0	0	0	3,043	3,541	1164.4	1164.400	4/11/2024
4/12/2024	4/13/2024	0	0	0	1,857	2,186	1181.7	1181.700	4/12/2024
4/13/2024	4/14/2024	0	0	0	1,195	1,432	1197	1197.000	4/13/2024
4/14/2024	4/15/2024	0	0	0	1,215	1,459	1201.1	1201.100	4/14/2024
4/15/2024	4/16/2024	0	0	0	1,845	2,217	1200.6	1200.600	4/15/2024
4/16/2024	4/17/2024	0	0	0	3,071	3,498	1140.9	1140.900	4/16/2024
4/17/2024	4/18/2024	0	0	0	3,370	3,715	1102.8	1102.800	4/17/2024
4/18/2024	4/19/2024	0	0	0	5,024	5,528	1100.4	1100.400	4/18/2024
4/19/2024	4/20/2024	0	0	0	4,980	5,465	1097.5	1097.500	4/19/2024
4/20/2024	4/21/2024	0	0	0	3,335	3,705	1110.6	1110.600	4/20/2024
4/21/2024	4/22/2024	0	0	0	2,012	2,251	1118.8	1118.800	4/21/2024
4/22/2024	4/23/2024	0	0	0	2,040	2,401	1172	1172.000	4/22/2024
4/23/2024	4/24/2024	0	0	0	2,230	2,666	1194.1	1194.100	4/23/2024
4/24/2024	4/25/2024	0	0	0	1,473	1,773	1203.6	1203.600	4/24/2024
4/25/2024	4/26/2024	0	0	0	1,116	1,341	1201.5	1201.500	4/25/2024
4/26/2024	4/27/2024	0	0	0	2,040	2,451	1201.1	1201.100	4/26/2024
4/27/2024	4/28/2024	0	0	0	2,112	2,537	1201.3	1201.300	4/27/2024
4/28/2024	4/29/2024	0	0	0	2,903	3,492	1202.5	1202.500	4/28/2024
4/29/2024	4/30/2024	332	364	1097.1	2,141	2,572	1200.9	1186.965	4/29/2024
4/30/2024	5/1/2024	1,501	1,647	1,099	2,622	3,143	1198.5	1162.094	4/30/2024
		11,158	12,328	146.9633	79,349	91,276	1160.2700	1156.6922	



Alliance Pipeline

DAILY ANALYSIS --- USA
ND07MD1 --- Hankinson Sales
April 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	1,147.946	0.6563	84.5971	9.9735	3.1259	0.3319	0.5197	0.0563	0.0423	0.0152	0.9443	0.3835	0.0103
2	1,148.450	0.6566	84.5733	9.9712	3.1470	0.3338	0.5255	0.0563	0.0422	0.0153	0.9438	0.3815	0.0101
3	1,146.177	0.6550	84.7811	9.8738	3.0840	0.3261	0.5063	0.0542	0.0407	0.0151	0.9273	0.3811	0.0104
4	1,147.602	0.6561	84.6218	9.9332	3.1324	0.3301	0.5257	0.0546	0.0403	0.0146	0.9654	0.3717	0.0101
5	1,148.476	0.6565	84.5632	9.9839	3.1370	0.3349	0.5305	0.0554	0.0417	0.0156	0.9622	0.3657	0.0101
6	1,150.837	0.6587	84.3480	9.9967	3.2172	0.3521	0.5689	0.0605	0.0454	0.0175	1.0127	0.3713	0.0097
7	1,152.183	0.6592	84.2679	10.0944	3.2413	0.3500	0.5583	0.0604	0.0469	0.0209	0.9789	0.3717	0.0093
8	1,150.978	0.6594	84.2041	10.0537	3.2715	0.3440	0.5562	0.0578	0.0434	0.0193	1.0576	0.3832	0.0094
9	1,148.115	0.6568	84.5285	9.9582	3.1484	0.3365	0.5264	0.0572	0.0429	0.0181	1.0023	0.3719	0.0096
10	1,149.579	0.6582	84.3727	9.9888	3.2088	0.3400	0.5525	0.0575	0.0427	0.0178	1.0308	0.3785	0.0099
11	1,147.069	0.6550	84.8425	9.8190	3.0981	0.3317	0.5169	0.0564	0.0433	0.0184	0.8897	0.3739	0.0103
12	1,147.121	0.6553	84.8171	9.8021	3.1148	0.3301	0.5230	0.0571	0.0436	0.0183	0.9086	0.3755	0.0099
13	1,147.598	0.6561	84.6600	9.9041	3.1179	0.3360	0.5229	0.0570	0.0431	0.0185	0.9555	0.3753	0.0097
14	1,146.584	0.6551	84.7912	9.8561	3.0752	0.3276	0.5173	0.0571	0.0441	0.0187	0.9358	0.3673	0.0097
15	1,147.278	0.6557	84.7055	9.9049	3.0864	0.3328	0.5265	0.0566	0.0431	0.0186	0.9436	0.3720	0.0100
16	1,148.734	0.6572	84.5666	9.8728	3.1755	0.3402	0.5513	0.0584	0.0443	0.0185	0.9798	0.3824	0.0101
17	1,148.800	0.6571	84.5876	9.8535	3.1875	0.3397	0.5489	0.0583	0.0441	0.0186	0.9756	0.3765	0.0099
18	1,147.421	0.6556	84.7693	9.8232	3.1206	0.3345	0.5255	0.0571	0.0440	0.0187	0.9272	0.3699	0.0099
19	1,147.380	0.6557	84.7514	9.8117	3.1246	0.3367	0.5303	0.0575	0.0444	0.0184	0.9465	0.3688	0.0097
20	1,146.438	0.6551	84.8072	9.8037	3.0977	0.3332	0.5191	0.0567	0.0425	0.0165	0.9439	0.3697	0.0098
21	1,147.266	0.6557	84.7136	9.8810	3.1055	0.3359	0.5240	0.0567	0.0425	0.0155	0.9413	0.3740	0.0100
22	1,143.794	0.6527	85.0998	9.7359	2.9853	0.3227	0.4903	0.0537	0.0409	0.0150	0.8813	0.3648	0.0103
23	1,148.715	0.6569	84.5514	9.9357	3.1637	0.3394	0.5430	0.0559	0.0412	0.0152	0.9690	0.3754	0.0102
24	1,149.455	0.6577	84.4861	9.9050	3.2182	0.3436	0.5550	0.0560	0.0420	0.0151	0.9963	0.3728	0.0099
25	1,145.498	0.6549	84.8330	9.7501	3.0920	0.3322	0.5249	0.0531	0.0414	0.0151	0.9850	0.3633	0.0099
26	1,150.471	0.6590	84.2735	10.0019	3.2604	0.3441	0.5646	0.0569	0.0425	0.0148	1.0460	0.3856	0.0097
27	1,150.663	0.6587	84.2883	10.0768	3.2372	0.3424	0.5464	0.0545	0.0424	0.0158	1.0013	0.3849	0.0100
28	1,149.024	0.6576	84.4567	9.9642	3.1939	0.3382	0.5443	0.0552	0.0417	0.0152	0.9958	0.3850	0.0099
29	1,145.981	0.6545	84.8799	9.8009	3.0616	0.3307	0.5156	0.0566	0.0428	0.0157	0.9167	0.3694	0.0101
30	1,146.755	0.6555	84.7677	9.7960	3.1214	0.3344	0.5232	0.0574	0.0446	0.0159	0.9576	0.3720	0.0100
Volume	1,148.080	0.6565	84.6168	9.9041	3.1451	0.3362	0.5328	0.0566	0.0429	0.0169	0.9641	0.3746	0.0099
Weight Avg Energy	1,148.084	0.6565	84.6165	9.9043	3.1452	0.3362	0.5328	0.0566	0.0429	0.0169	0.9641	0.3746	0.0099



Alliance Pipeline

DAILY ANALYSIS --- USA
ND14MD1 --- Milnor Sales

April 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	1,147.943	0.6563	84.6005	9.9742	3.1242	0.3321	0.5195	0.0563	0.0422	0.0152	0.9420	0.3836	0.0102
2	1,148.432	0.6566	84.5787	9.9579	3.1514	0.3338	0.5269	0.0563	0.0423	0.0154	0.9458	0.3815	0.0101
3	1,145.850	0.6547	84.8028	9.8663	3.0757	0.3249	0.5028	0.0537	0.0402	0.0149	0.9292	0.3792	0.0103
4	1,148.160	0.6565	84.5567	9.9858	3.1355	0.3309	0.5293	0.0549	0.0409	0.0151	0.9711	0.3696	0.0101
5	1,148.652	0.6566	84.5700	9.9672	3.1462	0.3365	0.5338	0.0558	0.0417	0.0154	0.9580	0.3654	0.0100
6	1,151.289	0.6589	84.3185	10.0228	3.2234	0.3535	0.5693	0.0610	0.0459	0.0182	1.0085	0.3694	0.0096
7	1,151.688	0.6590	84.3051	10.0566	3.2438	0.3472	0.5549	0.0600	0.0464	0.0205	0.9801	0.3760	0.0094
8	1,150.067	0.6590	84.2558	10.0167	3.2471	0.3434	0.5526	0.0579	0.0431	0.0191	1.0712	0.3839	0.0093
9	1,149.049	0.6575	84.4350	10.0199	3.1757	0.3362	0.5306	0.0566	0.0426	0.0180	1.0027	0.3730	0.0097
10	1,149.188	0.6577	84.4436	9.9599	3.1919	0.3390	0.5482	0.0575	0.0428	0.0179	1.0119	0.3774	0.0099
11	1,146.872	0.6549	84.8558	9.8038	3.0958	0.3311	0.5163	0.0568	0.0436	0.0185	0.8949	0.3731	0.0102
12	1,147.532	0.6555	84.7745	9.8419	3.1196	0.3301	0.5240	0.0568	0.0434	0.0184	0.9089	0.3728	0.0098
13	1,147.348	0.6558	84.6965	9.8805	3.1095	0.3366	0.5217	0.0574	0.0434	0.0186	0.9545	0.3718	0.0094
14	1,146.760	0.6553	84.7466	9.9001	3.0747	0.3262	0.5161	0.0565	0.0436	0.0185	0.9362	0.3715	0.0101
15	1,147.450	0.6558	84.6968	9.9009	3.0945	0.3339	0.5289	0.0568	0.0431	0.0187	0.9432	0.3732	0.0100
16	1,149.093	0.6577	84.5092	9.8771	3.1979	0.3421	0.5580	0.0586	0.0446	0.0183	0.9998	0.3842	0.0100
17	1,148.526	0.6567	84.6367	9.8441	3.1736	0.3383	0.5429	0.0581	0.0439	0.0187	0.9595	0.3744	0.0100
18	1,147.413	0.6556	84.7682	9.8268	3.1182	0.3344	0.5260	0.0568	0.0440	0.0186	0.9281	0.3690	0.0098
19	1,147.009	0.6556	84.7912	9.7650	3.1243	0.3372	0.5313	0.0578	0.0445	0.0184	0.9481	0.3725	0.0098
20	1,146.323	0.6550	84.8106	9.8217	3.0881	0.3321	0.5149	0.0562	0.0421	0.0161	0.9391	0.3692	0.0098
21	1,147.768	0.6559	84.6746	9.9186	3.1072	0.3376	0.5271	0.0571	0.0427	0.0155	0.9426	0.3672	0.0099
22	1,143.709	0.6527	85.0879	9.7575	2.9747	0.3219	0.4888	0.0536	0.0407	0.0151	0.8855	0.3638	0.0104
23	1,149.074	0.6572	84.5322	9.9257	3.1850	0.3408	0.5467	0.0561	0.0415	0.0152	0.9726	0.3741	0.0101
24	1,148.994	0.6574	84.5224	9.8870	3.2020	0.3430	0.5529	0.0558	0.0419	0.0152	0.9992	0.3705	0.0101
25	1,145.751	0.6550	84.8101	9.7695	3.0988	0.3315	0.5246	0.0530	0.0416	0.0150	0.9809	0.3652	0.0098
26	1,150.510	0.6592	84.2485	10.0097	3.2637	0.3452	0.5654	0.0573	0.0424	0.0148	1.0552	0.3882	0.0098
27	1,150.871	0.6587	84.2924	10.0700	3.2429	0.3435	0.5495	0.0546	0.0423	0.0158	0.9937	0.3853	0.0099
28	1,147.690	0.6565	84.5974	9.8976	3.1541	0.3341	0.5324	0.0546	0.0416	0.0150	0.9780	0.3851	0.0101
29	1,145.970	0.6546	84.8765	9.7959	3.0640	0.3313	0.5158	0.0568	0.0429	0.0160	0.9229	0.3678	0.0101
30	1,147.446	0.6562	84.6741	9.8399	3.1472	0.3350	0.5286	0.0574	0.0449	0.0157	0.9697	0.3776	0.0099
Volume	1,148.076	0.6565	84.6153	9.9054	3.1454	0.3359	0.5325	0.0566	0.0429	0.0169	0.9644	0.3747	0.0099
Weight Avg Energy	1,148.080	0.6565	84.6148	9.9055	3.1456	0.3359	0.5326	0.0566	0.0429	0.0169	0.9647	0.3748	0.0099

April-24

ZONE 610

Watford City

Watford City West Border

Watford City East Border

Weighted

Start Date	End Date	BTU			BTU			AVG BTU	
		MCF	DK	Zone 25	MCF	DK	Zone 43		
4/1/2024	4/2/2024	256	305	1192.9	605	645	1065.9	1103.661	4/1/2024
4/2/2024	4/3/2024	248	296	1192.9	561	598	1065.9	1104.832	4/2/2024
4/3/2024	4/4/2024	204	243	1192.9	313	334	1065.9	1116.012	4/3/2024
4/4/2024	4/5/2024	212	252	1192.9	415	442	1065.9	1108.841	4/4/2024
4/5/2024	4/6/2024	208	248	1192.9	333	355	1065.9	1114.728	4/5/2024
4/6/2024	4/7/2024	192	230	1192.9	281	300	1065.9	1117.452	4/6/2024
4/7/2024	4/8/2024	229	274	1192.9	479	511	1065.9	1106.978	4/7/2024
4/8/2024	4/9/2024	209	249	1192.9	437	466	1065.9	1106.988	4/8/2024
4/9/2024	4/10/2024	193	230	1192.9	306	326	1065.9	1115.020	4/9/2024
4/10/2024	4/11/2024	245	292	1192.9	553	590	1065.9	1104.891	4/10/2024
4/11/2024	4/12/2024	234	279	1192.9	440	469	1065.9	1109.992	4/11/2024
4/12/2024	4/13/2024	154	184	1192.9	188	200	1065.9	1123.087	4/12/2024
4/13/2024	4/14/2024	129	154	1192.9	181	193	1065.9	1118.748	4/13/2024
4/14/2024	4/15/2024	138	165	1192.9	154	165	1065.9	1125.921	4/14/2024
4/15/2024	4/16/2024	174	208	1192.9	240	255	1065.9	1119.277	4/15/2024
4/16/2024	4/17/2024	199	237	1192.9	422	450	1065.9	1106.597	4/16/2024
4/17/2024	4/18/2024	310	370	1192.9	720	767	1065.9	1104.123	4/17/2024
4/18/2024	4/19/2024	397	474	1192.9	869	927	1065.9	1105.725	4/18/2024
4/19/2024	4/20/2024	362	432	1192.9	909	968	1065.9	1102.072	4/19/2024
4/20/2024	4/21/2024	265	316	1192.9	588	627	1065.9	1105.355	4/20/2024
4/21/2024	4/22/2024	189	225	1192.9	296	315	1065.9	1115.391	4/21/2024
4/22/2024	4/23/2024	218	260	1192.9	409	436	1065.9	1110.056	4/22/2024
4/23/2024	4/24/2024	193	230	1192.9	297	317	1065.9	1115.922	4/23/2024
4/24/2024	4/25/2024	147	175	1192.9	211	225	1065.9	1118.048	4/24/2024
4/25/2024	4/26/2024	122	146	1192.9	221	235	1065.9	1111.072	4/25/2024
4/26/2024	4/27/2024	153	182	1192.9	198	211	1065.9	1121.259	4/26/2024
4/27/2024	4/28/2024	171	204	1192.9	294	313	1065.9	1112.603	4/27/2024
4/28/2024	4/29/2024	197	235	1192.9	339	361	1065.9	1112.577	4/28/2024
4/29/2024	4/30/2024	170	203	1192.9	208	221	1065.9	1123.016	4/29/2024
4/30/2024	5/1/2024	225	268	1192.9	424	452	1065.9	1109.929	4/30/2024
		6,343	7,566	1192.9000	11,891	12,674	1065.9000	1112.3392	

Tsp	EffDate	EndDate	Device	GasDay	EndDt	BTU	SpecGrav	CriconTherm	WobbeIndex	CO2	N2	Methane	Ethane	Propane	iButane	nButane	iPentane	nPentane	NeoPentane	C6Plus	Hydrogen	Helium	WaterVapor	TotalSulfur	HydrogenSulfur	Oxygen
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	4/1/2024	4/2/2024	1109	0.6644	-40.5	1360.556979	1.0586	3.0321	78.7882	16.2613	0.707	0.0201	0.04	0.0022	0.0022	0	0	0.061	0.0274	0.3328	0.0839	0.0609	0.0008
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	4/2/2024	4/3/2024	1108	0.6628	-40.6	1360.96987	1.0431	2.9534	79.1531	15.8793	0.7887	0.0217	0.0428	0.0023	0.0023	0	0	0.087	0.0266	0.3535	0.0765	0.0563	0.0008
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	4/3/2024	4/4/2024	1105	0.6584	-42.4	1361.812659	0.9993	2.8019	80.0444	15.143	0.8217	0.0218	0.0424	0.0024	0.0025	0	0	0.0948	0.0258	0.3625	0.0707	0.0546	0.0008
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	4/4/2024	4/5/2024	1105	0.659	-42.4	1361.192573	0.998	2.8442	79.8295	15.3327	0.794	0.0193	0.0375	0.0021	0.0022	0	0	0.1149	0.0257	0.3725	0.07	0.0555	0.0011
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	4/5/2024	4/6/2024	1101	0.6545	-45.3	1360.919677	0.9691	2.7724	80.6254	14.8121	0.6729	0.0181	0.0364	0.0022	0.0022	0	0	0.1128	0.025	0.3802	0.0697	0.0534	0.0011
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	4/6/2024	4/7/2024	1105	0.6582	-42.6	1362.019543	0.987	2.7909	79.9327	15.263	0.7937	0.0202	0.0391	0.0021	0.0022	0	0	0.1441	0.0251	0.3745	0.083	0.0586	0.0012
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	4/7/2024	4/8/2024	1111	0.6632	-39.9	1364.243208	1.0094	2.8681	78.8706	16.2096	0.7838	0.0196	0.039	0.0022	0.0023	0	0	0.17	0.0256	0.3345	0.0869	0.0618	0.0012
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	4/8/2024	4/9/2024	1103	0.6583	-42.9	1359.451083	1.0001	2.8765	79.8435	15.2836	0.7412	0.0209	0.0417	0.0024	0.0025	0	0	0.162	0.0258	0.3796	0.0716	0.0604	0.0012
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	4/9/2024	4/10/2024	1102	0.6583	-43.3	1358.218579	1.0075	2.9284	79.8534	15.2631	0.7137	0.0201	0.0404	0.0024	0.0025	0	0	0.1426	0.0261	0.3897	0.1244	0.0628	0.0012
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	4/10/2024	4/11/2024	1103	0.6571	-43.8	1360.691835	0.9885	2.816	80.0582	15.2174	0.6884	0.0195	0.0391	0.0023	0.0023	0	0	0.1431	0.0253	0.3604	0.0742	0.0665	0.0012
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	4/11/2024	4/12/2024	1100	0.6538	-46	1360.411289	0.9739	2.7262	80.5884	14.8636	0.6011	0.0173	0.0354	0.0022	0.0023	0	0	0.1648	0.0248	0.3945	0.0744	0.0662	0.0012
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	4/12/2024	4/13/2024	1101	0.6557	-44.7	1359.673794	0.9878	2.7733	80.2953	15.0534	0.6555	0.0189	0.0381	0.0023	0.0023	0	0	0.1481	0.0251	0.4031	0.0956	0.0689	0.0012
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	4/13/2024	4/14/2024	1102	0.6568	-44.1	1359.768645	0.997	2.8535	80.0229	15.1909	0.6639	0.0192	0.0391	0.0024	0.0025	0	0	0.183	0.0258	0.4007	0.0922	0.0699	0.0012
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	4/14/2024	4/15/2024	1104	0.6602	-42.2	1358.724209	1.0277	2.9888	79.3149	15.6585	0.7003	0.0205	0.0419	0.0025	0.0026	0	0	0.2162	0.0263	0.3785	0.0966	0.072	0.0012
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	4/15/2024	4/16/2024	1104	0.6608	-42.1	1358.107214	1.0352	3.0289	79.2344	15.71	0.7042	0.0199	0.0403	0.0024	0.0025	0	0	0.1957	0.0267	0.3741	0.0943	0.0721	0.0012
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	4/16/2024	4/17/2024	1103	0.6597	-42.8	1358.007819	1.0375	3.008	79.5054	15.4774	0.7126	0.0194	0.0386	0.0021	0.0022	0	0	0.1701	0.0269	0.3605	0.0744	0.0711	0.0012
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	4/17/2024	4/18/2024	1101	0.6588	-43.5	1356.471032	1.0373	2.9826	79.6649	15.3896	0.6681	0.0192	0.0385	0.0022	0.0022	0	0	0.1688	0.0268	0.366	0.0716	0.0629	0.0012
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	4/18/2024	4/19/2024	1100	0.6547	-45.5	1359.475905	0.9982	2.7724	80.4969	14.8439	0.6522	0.0175	0.0348	0.002	0.002	0	0	0.1548	0.0255	0.3672	0.0696	0.0563	0.0007
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	4/19/2024	4/20/2024	1103	0.6564	-44.3	1361.417178	0.9902	2.7458	80.1069	15.2672	0.6437	0.0177	0.0353	0.002	0.002	0	0	0.1646	0.0251	0.3536	0.0679	0.0527	0.0004
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	4/20/2024	4/21/2024	1117	0.6671	-37.7	1367.595625	1.017	2.8681	78.0458	17.0087	0.7921	0.0189	0.038	0.0022	0.0022	0	0	0.1815	0.0257	0.3383	0.0709	0.0549	0.001
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	4/21/2024	4/22/2024	1121	0.6701	-35.5	1369.41728	1.0226	2.9111	77.5666	17.3153	0.9141	0.02	0.0399	0.0023	0.0024	0	0	0.1802	0.0259	0.3242	0.0757	0.0614	0.0012
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	4/22/2024	4/23/2024	1123	0.672	-34.7	1369.919727	1.0314	2.9449	77.1873	17.6819	0.8924	0.0201	0.0407	0.0025	0.0026	0	0	0.17	0.0263	0.3302	0.0734	0.0604	0.001
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	4/23/2024	4/24/2024	1122	0.6711	-35.7	1369.617314	1.0353	2.9148	77.3285	17.657	0.8302	0.0183	0.0355	0.0017	0.0017	0	0.0001	0.1509	0.0262	0.3339	0.0689	0.0566	0.0012
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	4/24/2024	4/25/2024	1120	0.6695	-36.3	1368.808622	1.0187	2.92	77.5763	17.3752	0.8252	0.0192	0.0389	0.0024	0.0026	0	0	0.1957	0.0259	0.3611	0.0715	0.0596	0.0012
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	4/25/2024	4/26/2024	1124	0.6723	-34.3	1370.833647	1.0252	2.9691	77.2136	17.671	0.9419	0.0204	0.04	0.0023	0.0024	0	0	0.1483	0.0259	0.3317	0.0794	0.0747	0.0012
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	4/26/2024	4/27/2024	1124	0.6727	-34	1370.436025	1.0478	2.9281	77.3274	17.503	0.9554	0.023	0.0458	0.0026	0.0027	0	0	0.0979	0.0263	0.3092	0.0808	0.0779	0.0012
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	4/27/2024	4/28/2024	1114	0.6662	-37.7	1364.843566	1.0475	2.9037	78.5848	16.3118	0.9414	0.0235	0.0461	0.0025	0.0026	0	0	0.1098	0.0265	0.3688	0.0759	0.0657	0.0012
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	4/28/2024	4/29/2024	1108	0.662	-40.1	1361.79196	1.0293	2.8918	79.282	15.6377	0.9058	0.0222	0.0426	0.0022	0.0022	0	0	0.1581	0.0262	0.392	0.0712	0.0596	0.0012
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	4/29/2024	4/30/2024	1106	0.6597	-41.5	1361.701403	1.0102	2.8607	79.7185	15.3039	0.8634	0.0215	0.0416	0.0022	0.0022	0	0	0.1502	0.0259	0.3823	0.0704	0.0608	0.0012
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	4/30/2024	5/1/2024	1098	0.6551	-44.6	1356.589778	1.0233	2.8811	80.5608	14.4823	0.7916	0.0216	0.0426	0.0023	0.0024	0	0	0.1661	0.026	0.4053	0.0679	0.0605	0.0012

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	APR24	MAR24	FEB24	JAN24	DEC23	NOV23	OCT23	SEP23	AUG23	JUL23	JUN23	MAY23	ZONE
MT/ND	211	Sidney Border - MonDak Trf - Sidney Plt	1192	1184	1185	1187	1179	1192	1195	1194	1196	1198	1199	1195	1200	211
ND	24	Williston Border - Charbonneau Station	1192	1181	1181	1192	1197	1194	1194	1188	1188	1195	1195	1196	1198	24
ND	25	Watford City West Border	1199	1193	1194	1194	1198	1197	1198	1207	1212	1210	1210	1190	1189	25
ND	28	Bismarck Station - Glen Ullin Station	1167	1160	1147	1126	1131	1138	1161	1154	1202	1199	1194	1195	1192	28
ND	31	Dickinson Brd - Belfield Trf - G Ullin Stn	1126	1133	1147	1127	1127	1134	1147	1138	1121	1124	1118	1107	1086	31
ND/MT	32	Cabin Creek Station - Belfied Transfer	1128	1144	1116	1118	1122	1132	1138	1135	1135	1134	1124	1124	1111	32
ND	33	Little Knife Plant	1175	1173	1173	1171	1169	1168	1174	1173	1177	1181	1174	1180	1182	33
ND	34	Badlands Plant/Bowman Border	1017	1005	1027	1000	1094	1079	1017	980	984	980	980	1040	1021	34
ND	43	Watford City East Border	1107	1066	1085	1113	1127	1132	1154	1119	1124	1120	1118	1081	1042	43
ND/MT	241	Fairview Border	1192	1182	1186	1192	1185	1192	1198	1192	1195	1200	1193	1189	1200	241
ND	267	North Tioga Transfer - Nesson Plant	1176	1183	1187	1165	1166	1171	1169	1169	1166	1176	1181	1185	1188	267
ND	261	Tioga Comp Station - Robinson Lake Plant	1192	1196	1195	1192	1178	1201	1203	1203	1187	1191	1186	1189	1188	261
ND	262	Minot Bdr - Palermo Bdr - Bismarck Stn	1198	1195	1195	1196	1198	1202	1204	1206	1202	1197	1192	1193	1190	262
ND	263	Lignite Plant	1131	1131	1131	1131	1131	1131	1131	1131	1131	1131	1131	1131	1131	263
ND	264	Epping Border	1191	1176	1172	1193	1204	1206	1206	1191	1183	1195	1190	1181	1195	264
ND	265	Tioga Comp Station - County Line Plant	1176	1195	1192	1179	1169	1183	1175	1171	1174	1170	1165	1168	1176	265
ND	266	County Line Plant	1178	1195	1193	1181	1171	1184	1177	1172	1179	1171	1166	1168	1178	266
ND	271	Bismarck Station - Cleveland Station	1196	1198	1192	1183	1186	1201	1206	1204	1202	1199	1194	1195	1192	271
ND	272	Cleveland Station - Mapleton	1195	1197	1191	1183	1185	1200	1204	1205	1201	1199	1194	1194	1191	272
ND	273	Cleveland Station - Grafton Border	1196	1198	1191	1183	1186	1201	1205	1204	1202	1198	1194	1194	1192	273
ND	550	Mandan Border / NBPL-St Anthony	1148	1157	1146	1126	1124	1138	1161	1142	1188	1173	1172	1160	1085	550
ND	610	MDU-Watford City BTU	1129	1112	1118	1138	1150	1151	1167	1152	1150	1131	1123	1091	1065	610
ND	802	NBPL - Linton	1105	1109	1114	1114	1103	1114	1104	1106	1110	1105	1104	1102	1080	802
ND	903	Hettinger Propane	2549	2549	2549	2549	2549	2549	2549	2549	2549	2549	2549	2549	2549	903
ND	600	Alliance Pipeline - Hankinson	1150	1148	1146	1144	1144	1147	1146	1153	1149	1159	1155	1157	1154	600
ND	601	Alliance Pipeline - Milnor	1151	1148	1146	1144	1144	1147	1147	1154	1149	1160	1155	1157	1155	601

THERMAL ZONE VARIANCE DOCUMENTATION		
April 2024		
<i>ZONE</i>	<i>BTU VARIANCE</i>	<i>REASON</i>
32	28	Operational/Blend
34	-22	Operational/Blend