



A Subsidiary of MDU Resources Group, Inc.

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August 22, 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 – June 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 July 2024.
2. Attachment B consists of copies of the monthly Heating Value Test Reports received from our suppliers for the month of June 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 June 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
Jun-24

<u>Town</u>	<u>Heat Zone</u>	<u>Therm Factor</u>
MDU-303-ALEXANDER	025	1.1340
MDU-308-ARNEGARD	025	1.1340
MDU-314-APPLE VALLEY	271	1.1588
MDU-318-BEACH	032	1.0572
MDU-319-BELFIELD	032	1.0650
MDU-323-BERTHOLD	262	1.1325
MDU-327-BISMARCK	028	1.4582
MDU-330-BOWMAN	034	0.9568
MDU-337-BURLINGTON	262	1.1569
MDU-343-CARRINGTON	273	1.1569
MDU-344-CLEVELAND	272	1.1497
MDU-364-CAVALIER	273	1.1813
MDU-365-DAWSON	271	1.1507
MDU-368-DES LACS	262	1.1406
MDU-369-DICKINSON	031	1.0371
MDU-374-FT TOTTEN	273	1.1650
MDU-375-DEVILS LAKE	273	1.1650
MDU-379-BARLOW	273	1.1569
MDU-384-EPPING	264	1.1070
MDU-387-ELDRIDGE	272	1.1578
MDU-407-GLADSTONE	031	1.0371
MDU-411-GLEN ULLIN	031	1.0446
MDU-413-GOLVA	032	1.0417
MDU-416-GARRISON	262	1.1406
MDU-417-GRAFTON	273	1.1894
MDU-403-GWINNER	601	1.1320
MDU-429-HEBRON	031	1.0446
MDU-432-HETTINGER	903	2.4049
MDU-449-JAMESTOWN	272	1.1660
MDU-459-KILLDEER	033	1.1051
MDU-463-LANGDON	273	1.1569
MDU-469-LEFOR	031	1.0371
MDU-474-LIGNITE	263	1.0759
MDU-475-LINTON	802	1.0652
MDU-478-LINCOLN	028	1.1578
MDU-488-MCKENZIE	271	1.1588
MDU-494-MEDINA	271	1.1507
MDU-498-MANDAN	028	1.1578
MDU-500-MARMARTH	034	0.9639
MDU-505-MINOT	262	1.1569
MDU-510-MOTT	031	1.0371
MDU-512-MAX	262	1.1325
MDU-513-MILNOR	601	1.1320
MDU-522-NEW ENGLAND	031	1.0296
MDU-524-NEW SALEM	028	1.1334
MDU-532-NEW ROCKFORD	273	1.1569
MDU-539-PARK RIVER	273	1.1813
MDU-540-PALERMO	262	1.1325
MDU-558-RAY	264	1.1032

MDU-561-REGENT	031	1.0371
MDU-563-RHAME	034	0.9497
MDU-564-RICHARDTON	031	1.0296
MDU-568-ROSS	261	1.1206
MDU-572-RUTHVILLE	262	1.1569
MDU-574-SANBORN	272	1.1660
MDU-583-SENTINEL BUTTE	032	1.0572
MDU-588-SOUTH HEART	031	1.0296
MDU-717-SPIRITWOOD	272	1.1660
MDU-590-SPRINGBROOK	264	1.1032
MDU-591-STANLEY	261	1.1287
MDU-593-STEELE	271	1.1507
MDU-594-STERLING	028	1.1578
MDU-598-SHEYENNE	273	1.1650
MDU-605-SURREY	262	1.1569
MDU-610-TAPPEN	271	1.1507
MDU-611-TAYLOR	031	1.0296
MDU-616-TIOGA	260	1.1187
MDU-619-TURTLE LAKE	262	1.1406
MDU-620-TRENTON	024	1.1263
MDU-624-UNDERWOOD	262	1.1406
MDU-625-VALLEY CITY	272	1.1741
MDU-629-WALHALLA	273	1.1813
MDU-632-WATFORD CITY	610	1.0503
MDU-636-WHEELOCK	264	1.4764
MDU-637-WHITE EARTH	261	1.1306
MDU-642-WILLISTON	024	1.1263
MDU-646-WASHBURN	262	1.1487
MDU-647-WILTON	262	1.1287
MDU-664-RIVERDALE	262	1.1415
MDU-691-FAIRVIEW	241	1.1149
MDU-712-MINOT AFB	262	1.1569
MDU-718-FAIRMOUNT	600	1.1287
MDU-732-NEKOMA	273	1.1569
MDU-732-MSR SITE	273	1.1569

Source Daily Summary

June 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	0.7199	1169.9	1190.6	1189.9	1.170	3.201	70.925	21.137	3.109	0.136	0.278	0.019	0.017	0.010	0.000	0.000	0.000	0.000	1403.27	
2	0.7188	1167.5	1188.2	1187.4	1.142	3.287	71.145	20.830	3.129	0.137	0.283	0.019	0.018	0.010	0.000	0.000	0.000	0.000	1401.43	
3	0.7173	1163.7	1184.3	1183.5	1.156	3.348	71.386	20.586	3.067	0.134	0.277	0.018	0.017	0.010	0.000	0.000	0.000	0.000	1398.42	
4	0.7201	1167.6	1188.3	1187.4	1.232	3.261	70.851	21.170	3.039	0.134	0.271	0.017	0.016	0.009	0.000	0.000	0.000	0.000	1400.36	
5	0.7187	1168.7	1189.4	1188.5	1.198	3.121	71.088	21.141	3.000	0.134	0.273	0.018	0.017	0.009	0.000	0.000	0.000	0.000	1402.93	
6	0.7194	1172.9	1193.7	1192.9	1.095	3.086	70.762	21.673	2.954	0.127	0.260	0.017	0.016	0.009	0.000	0.000	0.000	0.000	1407.32	
7	0.7185	1171.7	1192.4	1191.7	1.135	3.017	70.981	21.501	2.928	0.128	0.265	0.018	0.018	0.009	0.000	0.000	0.000	0.000	1406.72	
8	0.7220	1171.7	1192.5	1191.7	1.220	3.209	70.605	21.352	3.151	0.138	0.280	0.019	0.017	0.010	0.000	0.000	0.000	0.000	1403.41	
9	0.7182	1172.2	1192.9	1192.2	1.134	2.958	71.242	21.157	3.027	0.139	0.292	0.020	0.020	0.010	0.000	0.000	0.000	0.000	1407.62	
10	0.7168	1169.9	1190.6	1190.0	1.146	2.945	71.273	21.354	2.844	0.128	0.266	0.018	0.018	0.009	0.000	0.000	0.000	0.000	1406.31	
11	0.7204	1172.8	1193.6	1192.7	1.177	3.056	70.785	21.497	3.022	0.135	0.281	0.019	0.018	0.010	0.000	0.000	0.000	0.000	1406.30	
12	0.7199	1171.8	1192.5	1191.6	1.101	3.190	70.853	21.290	3.119	0.131	0.271	0.018	0.017	0.010	0.000	0.000	0.000	0.000	1405.51	
13	0.7188	1170.4	1191.1	1190.3	1.122	3.143	71.125	21.037	3.104	0.136	0.284	0.019	0.019	0.010	0.000	0.000	0.000	0.000	1404.88	
14	0.7181	1167.3	1188.0	1187.0	1.156	3.213	71.223	20.902	3.038	0.136	0.284	0.019	0.019	0.010	0.000	0.000	0.000	0.000	1401.86	
15	0.7215	1169.3	1190.0	1188.9	1.215	3.320	70.729	21.097	3.157	0.142	0.291	0.020	0.018	0.010	0.000	0.000	0.000	0.000	1400.93	
16	0.7196	1168.3	1189.0	1188.1	1.191	3.236	71.132	20.807	3.133	0.144	0.302	0.022	0.022	0.012	0.000	0.000	0.000	0.000	1401.61	
17	0.7194	1167.0	1187.7	1187.0	1.194	3.294	70.935	21.102	3.029	0.133	0.272	0.018	0.016	0.009	0.000	0.000	0.000	0.000	1400.29	
18	0.7165	1168.3	1189.0	1188.5	1.148	3.014	71.276	21.307	2.827	0.125	0.260	0.017	0.016	0.008	0.000	0.000	0.000	0.000	1404.66	
19	0.7144	1164.2	1184.8	1184.1	1.130	3.089	71.852	20.545	2.930	0.131	0.276	0.019	0.018	0.009	0.000	0.000	0.000	0.000	1401.78	
20	0.7177	1166.2	1186.8	1185.9	1.163	3.235	71.343	20.722	3.067	0.137	0.286	0.020	0.019	0.010	0.000	0.000	0.000	0.000	1400.88	
21	0.7175	1168.7	1189.4	1188.6	1.127	3.099	71.220	21.143	2.964	0.130	0.270	0.019	0.018	0.009	0.000	0.000	0.000	0.000	1404.10	
22	0.7195	1172.9	1193.6	1192.8	1.133	3.038	70.995	21.288	3.075	0.136	0.287	0.020	0.019	0.010	0.000	0.000	0.000	0.000	1407.20	
23	0.7218	1174.2	1194.9	1193.8	1.176	3.111	70.641	21.462	3.120	0.141	0.297	0.021	0.020	0.010	0.000	0.000	0.000	0.000	1406.48	
24	0.7223	1173.4	1194.2	1193.2	1.201	3.160	70.594	21.400	3.156	0.142	0.296	0.020	0.020	0.010	0.000	0.000	0.000	0.000	1405.19	
25	0.7194	1174.6	1195.4	1194.4	1.110	2.951	71.467	20.540	3.401	0.154	0.322	0.023	0.022	0.011	0.000	0.000	0.000	0.000	1409.40	
26	0.7152	1172.1	1192.9	1191.9	1.033	2.830	71.925	20.545	3.194	0.135	0.286	0.020	0.021	0.010	0.000	0.000	0.000	0.000	1410.52	
27	0.7144	1169.2	1189.9	1189.0	1.027	2.934	72.333	19.828	3.366	0.147	0.311	0.021	0.022	0.010	0.000	0.000	0.000	0.000	1407.85	
28	0.7097	1166.0	1186.7	1185.9	0.956	2.798	72.770	20.017	3.000	0.129	0.281	0.020	0.021	0.009	0.000	0.000	0.000	0.000	1408.65	
29	0.7089	1167.6	1188.3	1187.5	0.925	2.678	72.670	20.473	2.835	0.116	0.257	0.019	0.020	0.008	0.000	0.000	0.000	0.000	1411.32	
30	0.7082	1165.5	1186.2	1185.2	0.915	2.755	72.808	20.251	2.844	0.117	0.261	0.019	0.021	0.009	0.000	0.000	0.000	0.000	1409.49	
Avg	0.7178	1170.0	1190.2	1189.4	1.128	3.086	71.298	20.972	3.054	0.134	0.281	0.019	0.019	0.010	0.000	0.000	0.000	0.000	1404.89	

Source Daily Summary

June 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	0.7069	1164.8	1185.5	1185.0	0.957	2.603	73.008	20.301	2.706	0.118	0.261	0.019	0.022	0.004	0.000	0.000	0.000	0.000	1410.02	
2	0.7028	1156.0	1176.5	1176.0	0.927	2.809	73.859	19.185	2.793	0.120	0.263	0.019	0.022	0.003	0.000	0.000	0.000	0.000	1403.31	
3	0.7006	1153.9	1174.4	1173.9	0.949	2.696	73.988	19.474	2.499	0.111	0.244	0.018	0.021	0.002	0.000	0.000	0.000	0.000	1403.01	
4	0.7058	1167.5	1188.1	1187.6	0.994	2.294	72.885	21.058	2.396	0.105	0.230	0.017	0.019	0.003	0.000	0.000	0.000	0.000	1414.22	
5	0.7075	1169.8	1190.6	1190.0	1.000	2.299	72.641	21.206	2.469	0.108	0.237	0.017	0.020	0.003	0.000	0.000	0.000	0.000	1415.40	
6	0.7081	1170.0	1190.7	1190.2	1.011	2.333	72.591	21.152	2.518	0.110	0.244	0.018	0.021	0.003	0.000	0.000	0.000	0.000	1414.94	
7	0.7055	1165.8	1186.4	1186.0	1.014	2.337	73.046	20.749	2.480	0.105	0.229	0.017	0.019	0.003	0.000	0.000	0.000	0.000	1412.50	
8	0.7032	1161.9	1182.4	1182.1	0.992	2.387	73.892	19.570	2.698	0.129	0.284	0.021	0.024	0.004	0.000	0.000	0.000	0.000	1410.05	
9	0.7051	1166.9	1187.5	1187.1	0.980	2.281	73.163	20.699	2.475	0.112	0.247	0.019	0.021	0.003	0.000	0.000	0.000	0.000	1414.24	
10	0.7056	1167.8	1188.5	1188.1	0.993	2.255	72.903	21.111	2.367	0.104	0.228	0.017	0.019	0.002	0.000	0.000	0.000	0.000	1414.84	
11	0.7076	1168.0	1188.7	1188.1	1.005	2.412	72.636	21.079	2.479	0.109	0.241	0.018	0.020	0.003	0.000	0.000	0.000	0.000	1413.09	
12	0.7099	1170.1	1190.9	1190.3	0.986	2.522	72.548	20.705	2.807	0.119	0.267	0.020	0.023	0.003	0.000	0.000	0.000	0.000	1413.39	
13	0.7076	1164.9	1185.6	1185.0	0.958	2.668	72.919	20.258	2.768	0.119	0.265	0.019	0.022	0.003	0.000	0.000	0.000	0.000	1409.37	
14	0.7044	1160.3	1180.8	1180.3	0.950	2.661	73.320	20.088	2.581	0.111	0.248	0.018	0.021	0.003	0.000	0.000	0.000	0.000	1406.98	
15	0.7078	1166.8	1187.5	1186.9	0.977	2.544	72.889	20.480	2.638	0.125	0.288	0.025	0.030	0.006	0.000	0.000	0.000	0.000	1411.43	
16	0.7048	1161.4	1182.0	1181.5	0.976	2.594	73.272	20.199	2.542	0.113	0.253	0.020	0.025	0.007	0.000	0.000	0.000	0.000	1407.91	
17	0.7058	1163.8	1184.4	1183.9	1.009	2.492	72.871	20.872	2.380	0.105	0.228	0.019	0.020	0.002	0.000	0.000	0.000	0.000	1409.79	
18	0.7030	1162.0	1182.6	1182.2	0.984	2.380	73.334	20.625	2.312	0.103	0.222	0.018	0.020	0.003	0.000	0.000	0.000	0.000	1410.39	
19	0.7004	1155.0	1175.4	1175.0	0.950	2.613	74.067	19.455	2.519	0.110	0.244	0.018	0.021	0.003	0.000	0.000	0.000	0.000	1404.46	
20	0.7027	1157.5	1178.0	1177.4	0.945	2.681	73.588	19.874	2.514	0.110	0.246	0.018	0.021	0.002	0.000	0.000	0.000	0.000	1405.23	
21	0.7059	1165.6	1186.3	1185.8	0.982	2.432	72.907	20.843	2.455	0.107	0.232	0.019	0.021	0.002	0.000	0.000	0.000	0.000	1411.90	
22	0.7101	1172.3	1193.1	1192.6	1.004	2.379	72.335	21.229	2.649	0.114	0.249	0.019	0.022	0.002	0.000	0.000	0.000	0.000	1415.89	
23	0.7097	1168.6	1189.3	1188.6	1.044	2.514	72.219	21.358	2.479	0.107	0.238	0.018	0.021	0.002	0.000	0.000	0.000	0.000	1411.72	
24	0.7115	1172.1	1192.9	1192.2	1.025	2.491	72.166	21.165	2.735	0.116	0.256	0.020	0.023	0.003	0.000	0.000	0.000	0.000	1414.22	
25	0.7094	1172.5	1193.3	1192.7	0.990	2.321	72.521	21.039	2.749	0.106	0.232	0.018	0.021	0.003	0.000	0.000	0.000	0.000	1416.83	
26	0.7125	1174.5	1195.3	1194.8	0.990	2.498	72.042	21.161	2.912	0.111	0.244	0.018	0.021	0.003	0.000	0.000	0.000	0.000	1416.06	
27	0.7056	1164.3	1184.9	1184.4	0.955	2.525	73.200	20.213	2.729	0.106	0.232	0.018	0.020	0.002	0.000	0.000	0.000	0.000	1410.56	
28	0.7060	1165.0	1185.7	1185.2	0.949	2.527	73.079	20.366	2.701	0.106	0.233	0.017	0.020	0.002	0.000	0.000	0.000	0.000	1411.08	
29	0.7063	1164.9	1185.5	1185.0	0.953	2.554	73.032	20.374	2.712	0.106	0.232	0.017	0.019	0.002	0.000	0.000	0.000	0.000	1410.66	
30	0.7067	1164.5	1185.1	1184.5	0.942	2.630	73.025	20.242	2.768	0.111	0.240	0.019	0.021	0.002	0.000	0.000	0.000	0.000	1409.79	
Avg	0.7063	1165.0	1185.9	1185.4	0.980	2.491	72.998	20.538	2.594	0.111	0.245	0.019	0.021	0.003	0.000	0.000	0.000	0.000	1411.11	

Gas Composition and Properties

Effective June 1, 2024

Source #: 0602160
Name: FAIRVIEW BORDER

Component	Mole %	Liquid Content	Mass %	Property	Total Sample	C6 Plus Fraction
Carbon Dioxide, CO2	0.9553		2.0655	Pressure Base	14.730	
Nitrogen, N2	2.6977		3.7127	Temperature Base	60.00	
Methane, C1	73.2650		57.7428	HCDP @ Sample Pressure	-20.330	
Ethane, C2	20.0412	5.3632	29.6055	Cricondentherm	-6.462	
Propane, C3	2.6667	0.7351	5.7770	HV, Dry @ Base P, T	1180.71	
iso-Butane, iC4	0.1012	0.0331	0.2890	HV, Sat @ Base P, T	1160.16	
n-Butane, nC4	0.2336	0.0737	0.6670	HV, Sat @ Sample P, T	1180.71	
iso-Pentane, iC5	0.0185	0.0068	0.0656	Relative Density	0.7048	
n-Pentane, nC5	0.0190	0.0069	0.0673			
Neo-Pentane, neo						
Hexanes Plus, C6+	0.0018	0.0007	0.0076			
Argon, Ar						
Carbon Monoxide, CO						
Hydrogen, H2						
Oxygen, O2						
Helium, He						
Water, H2O						
Hydrogen Sulfide, H2S						
Totals	100.0000	6.2200	100.0000			

C6+: 100

Sample

Date: 06/01/2024 Type:
Tech: Tipton, Joshua
Pressure: 420 psi Temp.: °F
Gauge: Gauge H2O:
Atm. Pressure: H2S:

Remarks:

Analysis

Date: 06/01/2024 Instrument:
Tech: Tipton, Joshua Cylinder: 100

Remarks:

Source Daily Summary

June 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	0.7378	1171.6	1192.3	1192.0	0.948	5.110	68.498	20.340	4.460	0.173	0.402	0.028	0.032	0.008	0.000	0.000	0.000	0.000	1388.21	11.30
2	0.7352	1166.4	1187.1	1186.8	0.948	5.175	68.893	19.992	4.364	0.169	0.394	0.027	0.031	0.007	0.000	0.000	0.000	0.000	1384.56	10.00
3	0.7420	1168.9	1189.6	1189.3	0.939	5.677	67.955	19.919	4.859	0.182	0.406	0.026	0.030	0.007	0.000	0.000	0.000	0.000	1381.13	12.90
4	0.7469	1170.0	1190.7	1190.3	0.935	6.075	67.288	19.804	5.232	0.188	0.415	0.026	0.029	0.007	0.000	0.000	0.000	0.000	1377.80	15.29
5	0.7431	1169.0	1189.7	1189.4	0.921	5.795	67.903	19.675	5.052	0.183	0.408	0.026	0.030	0.007	0.000	0.000	0.000	0.000	1380.33	13.39
6	0.7351	1167.1	1187.8	1187.5	0.953	5.114	68.874	20.062	4.423	0.162	0.358	0.023	0.025	0.006	0.000	0.000	0.000	0.000	1385.89	7.65
7	0.6948	1112.3	1132.0	1131.7	0.697	5.063	75.490	15.000	3.282	0.129	0.294	0.019	0.021	0.005	0.000	0.000	0.000	0.000	1358.18	-11.82
8	0.7291	1147.6	1167.9	1167.5	0.848	5.900	70.065	18.046	4.526	0.170	0.387	0.024	0.027	0.006	0.000	0.000	0.000	0.000	1367.82	6.11
9	0.7209	1157.5	1178.0	1177.6	0.977	4.340	70.582	20.338	3.281	0.131	0.301	0.020	0.023	0.006	0.000	0.000	0.000	0.000	1387.78	-0.40
10	0.7328	1165.5	1186.1	1185.8	0.948	5.011	69.027	20.347	4.093	0.157	0.358	0.024	0.028	0.007	0.000	0.000	0.000	0.000	1385.68	7.78
11	0.7482	1173.8	1194.5	1194.2	0.932	5.974	67.154	19.963	5.278	0.194	0.439	0.028	0.032	0.007	0.000	0.000	0.000	0.000	1381.04	16.38
12	0.7483	1170.4	1191.1	1190.8	0.933	6.186	67.300	19.432	5.421	0.202	0.458	0.029	0.032	0.007	0.000	0.000	0.000	0.000	1377.00	16.81
13	0.7491	1179.5	1200.4	1200.1	0.946	5.685	66.976	20.454	5.257	0.187	0.429	0.028	0.031	0.007	0.000	0.000	0.000	0.000	1387.07	16.68
14	0.7463	1176.3	1197.2	1196.8	0.942	5.623	67.280	20.455	5.051	0.174	0.410	0.027	0.031	0.007	0.000	0.000	0.000	0.000	1385.82	15.14
15	0.7507	1180.9	1201.8	1201.4	0.940	5.764	66.768	20.483	5.327	0.188	0.455	0.031	0.035	0.008	0.000	0.000	0.000	0.000	1387.16	17.72
16	0.7513	1177.0	1197.8	1197.5	0.931	6.068	66.819	19.925	5.528	0.194	0.463	0.030	0.034	0.008	0.000	0.000	0.000	0.000	1381.91	18.42
17	0.7514	1177.7	1198.6	1198.2	0.934	6.028	66.774	20.023	5.531	0.189	0.451	0.029	0.033	0.008	0.000	0.000	0.000	0.000	1382.70	18.25
18	0.7576	1183.9	1204.9	1204.6	0.926	6.237	65.968	20.208	5.887	0.205	0.491	0.032	0.036	0.009	0.000	0.000	0.000	0.000	1384.34	21.52
19	0.7503	1178.3	1199.1	1198.8	0.924	5.902	67.330	19.419	5.598	0.212	0.525	0.037	0.042	0.011	0.000	0.000	0.000	0.000	1384.36	20.08
20	0.7441	1171.9	1192.7	1192.3	0.930	5.701	68.227	19.095	5.242	0.206	0.511	0.036	0.041	0.010	0.000	0.000	0.000	0.000	1382.62	17.27
21	0.7685	1200.6	1221.9	1221.5	0.923	6.244	64.910	20.368	6.547	0.256	0.639	0.046	0.054	0.015	0.000	0.000	0.000	0.000	1393.82	29.38
22	0.7504	1176.7	1197.5	1197.2	0.910	6.029	67.196	19.485	5.579	0.212	0.505	0.034	0.039	0.010	0.000	0.000	0.000	0.000	1382.46	19.29
23	0.7398	1165.0	1185.6	1185.2	0.923	5.735	68.582	19.065	5.019	0.182	0.429	0.027	0.031	0.007	0.000	0.000	0.000	0.000	1378.56	13.06
24	0.7484	1171.4	1192.2	1191.8	0.891	6.196	67.398	19.263	5.471	0.205	0.497	0.033	0.037	0.008	0.000	0.000	0.000	0.000	1378.06	17.97
25	0.7441	1177.1	1197.9	1197.6	0.936	5.377	67.804	20.229	4.938	0.188	0.452	0.031	0.036	0.009	0.000	0.000	0.000	0.000	1388.93	14.75
26	0.7452	1172.9	1193.7	1193.3	0.930	5.741	67.528	20.062	5.085	0.174	0.414	0.028	0.031	0.008	0.000	0.000	0.000	0.000	1382.98	14.52
27	0.7233	1157.5	1178.0	1177.6	0.873	4.723	70.832	18.951	4.093	0.142	0.333	0.022	0.026	0.005	0.000	0.000	0.000	0.000	1385.05	3.99
28	0.7418	1175.2	1196.0	1195.6	0.928	5.295	67.963	20.364	4.808	0.178	0.406	0.024	0.027	0.006	0.000	0.000	0.000	0.000	1388.66	13.14
29	0.7554	1178.4	1199.3	1199.0	0.923	6.372	66.241	19.985	5.663	0.227	0.516	0.031	0.034	0.008	0.000	0.000	0.000	0.000	1379.90	20.50
30	0.7559	1178.6	1199.5	1199.1	0.921	6.410	66.151	20.022	5.678	0.227	0.519	0.030	0.034	0.008	0.000	0.000	0.000	0.000	1379.66	20.64
Avg	0.7429	1171.0	1191.4	1191.0	0.920	5.685	67.993	19.693	5.019	0.186	0.436	0.029	0.032	0.008	0.000	0.000	0.000	0.000	1382.32	13.92

Source Daily Summary

June 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	0.7502	1173.4	1194.2	1193.7	0.941	6.169	66.830	19.985	5.368	0.196	0.443	0.028	0.032	0.008	0.000	0.000	0.000	0.000	1378.81	
2	0.7584	1182.1	1203.0	1202.6	0.934	6.418	65.855	20.064	5.939	0.218	0.495	0.032	0.036	0.009	0.000	0.000	0.000	0.000	1381.38	
3	0.7538	1173.8	1194.6	1194.1	0.927	6.503	66.411	19.707	5.738	0.203	0.446	0.027	0.030	0.007	0.000	0.000	0.000	0.000	1375.88	
4	0.7530	1171.2	1191.9	1191.4	0.930	6.586	66.440	19.686	5.666	0.199	0.432	0.026	0.029	0.007	0.000	0.000	0.000	0.000	1373.51	
5	0.7560	1177.2	1198.1	1197.6	0.929	6.492	66.109	19.895	5.851	0.206	0.452	0.028	0.031	0.007	0.000	0.000	0.000	0.000	1377.97	
6	0.7565	1177.7	1198.5	1198.0	0.928	6.514	66.045	19.899	5.881	0.207	0.458	0.028	0.031	0.008	0.000	0.000	0.000	0.000	1378.00	
7	0.7497	1171.4	1192.1	1191.7	0.893	6.308	67.248	19.150	5.651	0.208	0.472	0.029	0.033	0.008	0.000	0.000	0.000	0.000	1376.91	
8	0.7287	1146.5	1166.8	1166.3	0.923	5.822	69.465	19.324	3.933	0.147	0.334	0.021	0.024	0.006	0.000	0.000	0.000	0.000	1366.87	
9	0.7426	1166.4	1187.0	1186.5	0.949	5.873	67.741	19.996	4.799	0.176	0.403	0.026	0.030	0.007	0.000	0.000	0.000	0.000	1377.59	
10	0.7248	1155.8	1176.3	1175.9	0.963	4.828	69.796	20.576	3.341	0.132	0.308	0.022	0.027	0.006	0.000	0.000	0.000	0.000	1381.78	
11	0.7487	1172.8	1193.6	1193.0	0.929	6.082	66.982	20.043	5.299	0.188	0.416	0.026	0.029	0.007	0.000	0.000	0.000	0.000	1379.48	
12	0.7439	1162.8	1183.4	1182.8	0.931	6.235	68.103	18.718	5.247	0.209	0.487	0.031	0.034	0.007	0.000	0.000	0.000	0.000	1372.13	
13	0.7581	1179.5	1200.4	1199.9	0.938	6.535	65.861	19.932	5.987	0.211	0.469	0.029	0.032	0.007	0.000	0.000	0.000	0.000	1378.73	
14	0.7578	1178.6	1199.5	1198.9	0.936	6.571	65.892	19.887	5.969	0.201	0.474	0.030	0.033	0.007	0.000	0.000	0.000	0.000	1377.87	
15	0.7585	1181.1	1202.1	1201.4	0.931	6.488	65.733	20.147	5.966	0.199	0.465	0.030	0.033	0.008	0.000	0.000	0.000	0.000	1380.21	
16	0.7595	1183.1	1204.0	1203.6	0.928	6.468	65.770	19.962	6.073	0.211	0.509	0.033	0.037	0.009	0.000	0.000	0.000	0.000	1381.55	
17	0.7556	1178.7	1199.6	1199.3	0.928	6.368	66.206	19.922	5.843	0.197	0.468	0.029	0.032	0.008	0.000	0.000	0.000	0.000	1380.04	
18	0.7585	1183.6	1204.6	1204.2	0.930	6.343	65.842	20.134	5.978	0.205	0.492	0.032	0.036	0.009	0.000	0.000	0.000	0.000	1383.04	
19	0.7638	1192.2	1213.3	1212.8	0.918	6.334	65.285	20.305	6.282	0.227	0.557	0.038	0.044	0.012	0.000	0.000	0.000	0.000	1388.22	
20	0.7641	1192.7	1213.8	1213.3	0.921	6.321	65.297	20.318	6.202	0.239	0.598	0.043	0.049	0.014	0.000	0.000	0.000	0.000	1388.61	
21	0.7643	1194.1	1215.2	1214.7	0.923	6.251	65.395	20.203	6.257	0.246	0.615	0.044	0.051	0.014	0.000	0.000	0.000	0.000	1390.00	
22	0.7604	1187.4	1208.4	1207.8	0.925	6.292	65.790	20.047	6.072	0.228	0.552	0.038	0.044	0.012	0.000	0.000	0.000	0.000	1385.75	
23	0.7560	1179.5	1200.3	1199.6	0.926	6.361	66.239	19.866	5.815	0.213	0.501	0.032	0.037	0.009	0.000	0.000	0.000	0.000	1380.55	
24	0.7546	1176.6	1197.5	1196.8	0.926	6.402	66.343	19.878	5.673	0.206	0.496	0.032	0.035	0.008	0.000	0.000	0.000	0.000	1378.52	
25	0.7549	1178.2	1199.0	1198.5	0.932	6.333	66.246	20.158	5.487	0.219	0.539	0.036	0.041	0.010	0.000	0.000	0.000	0.000	1380.01	
26	0.7586	1184.3	1205.3	1204.8	0.931	6.306	65.749	20.377	5.843	0.210	0.502	0.034	0.038	0.010	0.000	0.000	0.000	0.000	1383.79	
27	0.7399	1169.6	1190.3	1189.8	0.929	5.449	68.258	19.982	4.765	0.163	0.391	0.026	0.030	0.007	0.000	0.000	0.000	0.000	1383.94	
28	0.7396	1160.3	1180.8	1180.4	0.856	6.103	68.527	18.811	5.008	0.193	0.440	0.026	0.029	0.007	0.000	0.000	0.000	0.000	1373.05	
29	0.7540	1176.2	1197.0	1196.6	0.923	6.382	66.366	19.955	5.595	0.219	0.493	0.028	0.031	0.007	0.000	0.000	0.000	0.000	1378.52	
30	0.7538	1176.4	1197.3	1196.7	0.922	6.350	66.447	19.902	5.577	0.222	0.508	0.030	0.033	0.008	0.000	0.000	0.000	0.000	1378.97	
Avg	0.7526	1176.0	1196.9	1196.4	0.927	6.250	66.609	19.894	5.570	0.203	0.474	0.030	0.034	0.008	0.000	0.000	0.000	0.000	1379.72	

Source Daily Summary

June 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	0.7567	1175.9	1196.7	1196.3	0.936	6.629	66.070	19.697	5.915	0.214	0.472	0.029	0.032	0.006	0.000	0.000	0.000	0.000	1375.73	
2	0.7564	1175.4	1196.3	1195.9	0.934	6.631	66.121	19.650	5.911	0.214	0.472	0.029	0.032	0.006	0.000	0.000	0.000	0.000	1375.48	
3	0.7555	1173.7	1194.5	1194.1	0.935	6.656	66.158	19.683	5.844	0.208	0.455	0.027	0.030	0.004	0.000	0.000	0.000	0.000	1374.25	
4	0.7577	1178.0	1198.9	1198.5	0.933	6.596	65.926	19.816	5.977	0.215	0.471	0.029	0.032	0.005	0.000	0.000	0.000	0.000	1377.34	
5	0.7595	1181.2	1202.1	1201.7	0.933	6.573	65.728	19.900	6.085	0.222	0.489	0.031	0.034	0.006	0.000	0.000	0.000	0.000	1379.38	
6	0.7566	1176.7	1197.6	1197.2	0.933	6.575	66.135	19.658	5.927	0.219	0.484	0.029	0.033	0.006	0.000	0.000	0.000	0.000	1376.78	
7	0.7553	1173.9	1194.6	1194.2	0.931	6.629	66.270	19.561	5.873	0.210	0.461	0.028	0.031	0.006	0.000	0.000	0.000	0.000	1374.64	
8	0.7557	1174.8	1195.6	1195.1	0.930	6.616	66.173	19.675	5.877	0.210	0.457	0.027	0.030	0.006	0.000	0.000	0.000	0.000	1375.30	
9	0.7532	1169.5	1190.2	1189.8	0.935	6.692	66.723	19.057	5.816	0.219	0.490	0.029	0.032	0.006	0.000	0.000	0.000	0.000	1371.39	
10	0.7480	1158.3	1178.8	1178.5	0.942	6.879	67.556	18.231	5.602	0.223	0.502	0.029	0.031	0.005	0.000	0.000	0.000	0.000	1362.99	
11	0.7593	1178.9	1199.7	1199.3	0.944	6.685	65.669	19.872	6.085	0.215	0.469	0.028	0.030	0.003	0.000	0.000	0.000	0.000	1376.78	
12	0.7587	1176.9	1197.8	1197.3	0.946	6.742	65.744	19.781	6.052	0.213	0.462	0.027	0.029	0.004	0.000	0.000	0.000	0.000	1375.08	
13	0.7610	1181.7	1202.7	1202.2	0.941	6.670	65.469	19.991	6.154	0.211	0.491	0.031	0.034	0.006	0.000	0.000	0.000	0.000	1378.64	
14	0.7577	1178.6	1199.4	1199.0	0.934	6.562	65.978	19.775	5.980	0.208	0.490	0.031	0.035	0.006	0.000	0.000	0.000	0.000	1377.96	
15	0.7582	1181.5	1202.4	1201.9	0.937	6.430	65.893	19.992	5.980	0.207	0.490	0.031	0.034	0.006	0.000	0.000	0.000	0.000	1380.86	
16	0.7604	1184.9	1205.9	1205.5	0.940	6.421	65.637	20.109	6.090	0.215	0.511	0.034	0.038	0.007	0.000	0.000	0.000	0.000	1382.91	
17	0.7587	1182.0	1202.9	1202.5	0.936	6.444	65.842	19.996	6.002	0.208	0.496	0.033	0.037	0.007	0.000	0.000	0.000	0.000	1381.05	
18	0.7638	1189.2	1210.3	1209.9	0.924	6.497	65.215	20.233	6.275	0.227	0.543	0.037	0.041	0.008	0.000	0.000	0.000	0.000	1384.86	
19	0.7675	1196.2	1217.3	1216.9	0.928	6.413	64.854	20.436	6.399	0.250	0.615	0.044	0.050	0.011	0.000	0.000	0.000	0.000	1389.59	
20	0.7643	1191.2	1212.3	1211.9	0.932	6.414	65.193	20.383	6.123	0.245	0.606	0.043	0.050	0.011	0.000	0.000	0.000	0.000	1386.70	
21	0.7615	1186.5	1207.6	1207.1	0.932	6.433	65.622	20.017	6.098	0.235	0.566	0.040	0.046	0.010	0.000	0.000	0.000	0.000	1383.81	
22	0.7560	1176.8	1197.6	1197.2	0.933	6.512	66.199	19.769	5.797	0.211	0.502	0.032	0.037	0.008	0.000	0.000	0.000	0.000	1377.43	
23	0.7561	1177.3	1198.2	1197.7	0.936	6.493	66.096	19.998	5.650	0.220	0.528	0.034	0.038	0.007	0.000	0.000	0.000	0.000	1377.88	
24	0.7584	1181.8	1202.7	1202.2	0.938	6.431	65.815	20.244	5.678	0.233	0.571	0.039	0.043	0.008	0.000	0.000	0.000	0.000	1381.04	
25	0.7589	1182.1	1203.0	1202.5	0.936	6.456	65.717	20.216	5.878	0.212	0.504	0.034	0.039	0.008	0.000	0.000	0.000	0.000	1381.00	
26	0.7567	1178.0	1198.8	1198.4	0.931	6.514	65.991	20.038	5.716	0.228	0.511	0.030	0.034	0.007	0.000	0.000	0.000	0.000	1378.13	
27	0.7545	1174.5	1195.3	1194.8	0.924	6.534	66.295	19.822	5.637	0.225	0.501	0.028	0.031	0.004	0.000	0.000	0.000	0.000	1376.03	
28	0.7566	1178.4	1199.2	1198.8	0.926	6.486	66.077	19.948	5.731	0.235	0.527	0.031	0.035	0.005	0.000	0.000	0.000	0.000	1378.70	
29	0.7563	1178.0	1198.8	1198.3	0.926	6.483	66.107	19.951	5.701	0.234	0.526	0.031	0.034	0.006	0.000	0.000	0.000	0.000	1378.50	
30	0.7546	1173.9	1194.7	1194.2	0.922	6.575	66.276	19.803	5.643	0.222	0.495	0.029	0.032	0.005	0.000	0.000	0.000	0.000	1375.31	
Avg	0.7578	1179.0	1199.7	1199.3	0.934	6.556	65.952	19.843	5.917	0.220	0.505	0.032	0.035	0.006	0.000	0.000	0.000	0.000	1378.18	

Gas Composition and Properties

Effective October 1, 2021

Attachment B
Page 8 of 24

Source #: 2501030
Name: LIGNITE PLANT

Component	Mole %	Liquid Content	Mass %	Property	Total Sample	C6 Plus Fraction
Carbon Dioxide, CO2	0.2283		0.5237	Pressure Base	14.730	
Nitrogen, N2	2.9631		4.3268	Temperature Base	60.00	
Methane, C1	79.4957		66.4767	HCDP @ Sample Pressure		
Ethane, C2	15.2390	4.0765	23.8852	Cricondentherm	-32.804	
Propane, C3	2.0456	0.5637	4.7019	HV, Dry @ Base P, T	1130.73	
iso-Butane, iC4	0.0244	0.0080	0.0739	HV, Sat @ Base P, T	1111.05	
n-Butane, nC4	0.0039	0.0012	0.0118	HV, Sat @ Sample P, T	1130.73	
iso-Pentane, iC5				Relative Density	0.6640	
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						
				C6+: 100		
Totals	100.0000	4.6490	100.0000			

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

June 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	0.7184	1163.0	1183.6	1183.3	0.960	3.790	71.038	20.614	3.092	0.130	0.314	0.024	0.029	0.007	0.000	0.000	0.000	0.000	1396.51	
2	0.7167	1159.5	1180.0	1179.7	0.960	3.850	71.263	20.438	2.989	0.129	0.311	0.024	0.029	0.007	0.000	0.000	0.000	0.000	1393.86	
3	0.7156	1158.2	1178.7	1178.4	0.967	3.815	71.449	20.330	2.936	0.130	0.314	0.024	0.029	0.007	0.000	0.000	0.000	0.000	1393.39	
4	0.7167	1142.4	1162.6	1162.3	1.016	4.821	70.370	20.965	2.416	0.105	0.255	0.021	0.025	0.006	0.000	0.000	0.000	0.000	1373.29	
5	0.7217	1148.6	1168.9	1168.6	1.014	4.908	69.655	21.284	2.747	0.101	0.244	0.019	0.023	0.006	0.000	0.000	0.000	0.000	1375.99	
6	0.7231	1151.0	1171.3	1171.0	1.016	4.890	69.612	21.099	2.992	0.100	0.243	0.019	0.022	0.006	0.000	0.000	0.000	0.000	1377.49	
7	0.7200	1146.2	1166.5	1166.2	1.012	4.894	69.972	21.003	2.735	0.098	0.241	0.018	0.022	0.006	0.000	0.000	0.000	0.000	1374.79	
8	0.7175	1141.4	1161.6	1161.3	1.021	4.947	70.180	21.041	2.419	0.100	0.245	0.019	0.023	0.006	0.000	0.000	0.000	0.000	1371.29	
9	0.7157	1139.5	1159.7	1159.3	1.031	4.874	70.335	21.193	2.178	0.099	0.243	0.019	0.023	0.006	0.000	0.000	0.000	0.000	1370.81	
10	0.7119	1151.6	1172.0	1171.7	0.972	3.871	71.704	20.441	2.564	0.116	0.278	0.022	0.027	0.007	0.000	0.000	0.000	0.000	1388.98	
11	0.7193	1159.1	1179.6	1179.2	0.958	4.126	70.670	20.751	3.005	0.128	0.305	0.023	0.027	0.007	0.000	0.000	0.000	0.000	1390.83	
12	0.7203	1161.2	1181.8	1181.4	0.958	4.087	70.621	20.727	3.090	0.133	0.321	0.025	0.030	0.008	0.000	0.000	0.000	0.000	1392.46	
13	0.7206	1166.5	1187.2	1186.8	0.966	3.778	70.583	21.085	3.092	0.127	0.307	0.024	0.030	0.008	0.000	0.000	0.000	0.000	1398.53	
14	0.7226	1171.7	1192.5	1192.1	0.961	3.659	70.322	21.318	3.249	0.126	0.307	0.023	0.028	0.007	0.000	0.000	0.000	0.000	1402.80	
15	0.7237	1169.4	1190.1	1189.7	0.963	3.902	70.102	21.254	3.286	0.127	0.307	0.024	0.029	0.007	0.000	0.000	0.000	0.000	1398.92	
16	0.7224	1163.0	1183.6	1183.2	0.960	4.182	70.224	20.941	3.199	0.127	0.308	0.024	0.029	0.007	0.000	0.000	0.000	0.000	1392.49	
17	0.7162	1157.3	1177.8	1177.5	0.954	3.946	71.448	20.026	3.147	0.126	0.299	0.022	0.026	0.007	0.000	0.000	0.000	0.000	1391.72	
18	0.7200	1167.0	1187.7	1187.3	0.970	3.694	70.302	21.727	2.902	0.113	0.254	0.015	0.017	0.004	0.000	0.000	0.000	0.000	1399.64	
19	0.7037	1131.0	1151.0	1150.7	0.963	4.363	73.655	17.637	2.929	0.123	0.289	0.018	0.020	0.004	0.000	0.000	0.000	0.000	1372.07	
20	0.6966	1119.8	1139.6	1139.3	0.949	4.392	75.201	16.011	2.959	0.129	0.310	0.021	0.023	0.004	0.000	0.000	0.000	0.000	1365.45	
21	0.7029	1137.8	1158.0	1157.6	0.949	3.893	73.744	18.158	2.796	0.122	0.287	0.021	0.025	0.004	0.000	0.000	0.000	0.000	1381.19	
22	0.7066	1149.7	1170.0	1169.7	0.927	3.556	73.085	19.077	2.920	0.117	0.272	0.019	0.023	0.004	0.000	0.000	0.000	0.000	1391.93	
23	0.6993	1142.3	1162.5	1162.1	0.918	3.323	74.770	17.496	3.064	0.117	0.266	0.019	0.022	0.004	0.000	0.000	0.000	0.000	1390.16	
24	0.7134	1156.2	1176.7	1176.3	0.936	3.774	71.991	19.644	3.233	0.114	0.264	0.018	0.021	0.004	0.000	0.000	0.000	0.000	1393.17	
25	0.7064	1147.6	1167.9	1167.5	0.933	3.652	72.877	19.454	2.652	0.113	0.269	0.020	0.024	0.005	0.000	0.000	0.000	0.000	1389.57	
26	0.7133	1158.3	1178.8	1178.4	0.928	3.656	71.776	20.233	2.978	0.114	0.269	0.019	0.022	0.005	0.000	0.000	0.000	0.000	1395.71	
27	0.7128	1155.0	1175.5	1175.1	0.931	3.799	71.967	19.787	3.097	0.111	0.264	0.019	0.022	0.005	0.000	0.000	0.000	0.000	1392.32	
28	0.7171	1163.5	1184.1	1183.7	0.898	3.739	71.558	19.781	3.605	0.112	0.263	0.018	0.021	0.004	0.000	0.000	0.000	0.000	1398.22	
29	0.7168	1164.5	1185.2	1184.8	0.922	3.611	71.601	19.946	3.463	0.121	0.286	0.020	0.023	0.005	0.000	0.000	0.000	0.000	1399.79	
30	0.7100	1154.1	1174.5	1174.2	0.921	3.607	72.578	19.408	3.020	0.122	0.292	0.022	0.026	0.005	0.000	0.000	0.000	0.000	1393.92	
Avg	0.7147	1153.0	1173.6	1173.3	0.961	4.047	71.488	20.096	2.959	0.118	0.281	0.021	0.025	0.006	0.000	0.000	0.000	0.000	1388.24	

Source Daily Summary

June 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	0.7559	1179.1	1200.0	1199.1	0.891	6.433	66.340	19.552	6.007	0.218	0.493	0.029	0.030	0.008	0.000	0.000	0.000	0.000	1380.18	
2	0.7541	1175.8	1196.6	1195.7	0.889	6.464	66.564	19.420	5.910	0.213	0.477	0.027	0.029	0.007	0.000	0.000	0.000	0.000	1377.97	
3	0.7541	1175.7	1196.5	1195.6	0.891	6.473	66.520	19.474	5.903	0.209	0.469	0.026	0.028	0.007	0.000	0.000	0.000	0.000	1377.79	
4	0.7569	1181.3	1202.2	1201.4	0.888	6.395	66.184	19.709	6.049	0.218	0.491	0.029	0.030	0.008	0.000	0.000	0.000	0.000	1381.87	
5	0.7581	1183.1	1204.1	1203.2	0.888	6.390	66.054	19.763	6.109	0.223	0.503	0.030	0.032	0.008	0.000	0.000	0.000	0.000	1382.95	
6	0.7555	1179.0	1199.9	1199.0	0.889	6.400	66.432	19.507	5.985	0.220	0.501	0.029	0.031	0.008	0.000	0.000	0.000	0.000	1380.47	
7	0.7540	1176.0	1196.8	1196.0	0.887	6.446	66.583	19.416	5.921	0.210	0.473	0.027	0.029	0.007	0.000	0.000	0.000	0.000	1378.31	
8	0.7551	1178.0	1198.9	1198.0	0.885	6.428	66.424	19.540	5.969	0.213	0.477	0.028	0.029	0.007	0.000	0.000	0.000	0.000	1379.65	
9	0.7510	1170.0	1190.7	1189.8	0.891	6.530	67.143	18.842	5.804	0.220	0.504	0.029	0.030	0.007	0.000	0.000	0.000	0.000	1373.91	
10	0.7466	1159.9	1180.5	1179.6	0.899	6.710	67.902	18.059	5.613	0.226	0.525	0.029	0.030	0.007	0.000	0.000	0.000	0.000	1366.20	
11	0.7584	1181.5	1202.4	1201.5	0.901	6.497	65.989	19.672	6.172	0.218	0.488	0.028	0.029	0.007	0.000	0.000	0.000	0.000	1380.79	
12	0.7562	1176.7	1197.6	1196.6	0.902	6.584	66.226	19.509	6.040	0.209	0.469	0.026	0.027	0.007	0.000	0.000	0.000	0.000	1377.16	
13	0.7596	1183.7	1204.6	1203.6	0.897	6.486	65.814	19.824	6.186	0.211	0.509	0.031	0.033	0.009	0.000	0.000	0.000	0.000	1382.19	
14	0.7559	1180.0	1200.9	1199.9	0.890	6.377	66.355	19.598	5.999	0.207	0.504	0.030	0.032	0.008	0.000	0.000	0.000	0.000	1381.27	
15	0.7573	1184.2	1205.2	1204.2	0.894	6.243	66.174	19.849	6.049	0.208	0.509	0.032	0.034	0.009	0.000	0.000	0.000	0.000	1384.92	
16	0.7586	1185.9	1206.9	1205.9	0.895	6.258	66.011	19.929	6.094	0.212	0.523	0.033	0.035	0.010	0.000	0.000	0.000	0.000	1385.70	
17	0.7572	1183.6	1204.6	1203.7	0.893	6.270	66.156	19.879	6.013	0.207	0.508	0.031	0.034	0.009	0.000	0.000	0.000	0.000	1384.34	
18	0.7624	1191.2	1212.3	1211.4	0.879	6.319	65.547	20.072	6.312	0.226	0.558	0.036	0.039	0.012	0.000	0.000	0.000	0.000	1388.36	
19	0.7666	1199.3	1220.6	1219.7	0.881	6.215	65.140	20.289	6.478	0.251	0.639	0.044	0.049	0.015	0.000	0.000	0.000	0.000	1394.02	
20	0.7635	1194.3	1215.5	1214.6	0.886	6.220	65.492	20.186	6.242	0.246	0.623	0.043	0.047	0.014	0.000	0.000	0.000	0.000	1391.04	
21	0.7578	1184.2	1205.2	1204.3	0.889	6.293	66.204	19.725	6.025	0.226	0.552	0.035	0.039	0.011	0.000	0.000	0.000	0.000	1384.48	
22	0.7556	1180.4	1201.4	1200.4	0.889	6.319	66.412	19.670	5.888	0.215	0.530	0.032	0.034	0.009	0.000	0.000	0.000	0.000	1382.08	
23	0.7547	1179.0	1199.9	1199.0	0.893	6.323	66.443	19.817	5.667	0.222	0.554	0.035	0.037	0.010	0.000	0.000	0.000	0.000	1381.17	
24	0.7564	1182.3	1203.3	1202.3	0.897	6.269	66.252	19.973	5.715	0.230	0.575	0.037	0.040	0.012	0.000	0.000	0.000	0.000	1383.53	
25	0.7569	1182.8	1203.7	1202.9	0.893	6.296	66.106	20.013	5.893	0.211	0.511	0.032	0.034	0.010	0.000	0.000	0.000	0.000	1383.59	
26	0.7552	1179.7	1200.6	1199.8	0.889	6.336	66.326	19.884	5.739	0.230	0.528	0.028	0.030	0.008	0.000	0.000	0.000	0.000	1381.47	
27	0.7524	1175.0	1195.8	1194.9	0.886	6.364	66.684	19.674	5.596	0.222	0.510	0.027	0.028	0.007	0.000	0.000	0.000	0.000	1378.52	
28	0.7552	1179.9	1200.8	1200.0	0.886	6.318	66.410	19.783	5.751	0.235	0.544	0.031	0.033	0.009	0.000	0.000	0.000	0.000	1381.83	
29	0.7554	1180.6	1201.5	1200.6	0.885	6.303	66.348	19.876	5.736	0.235	0.545	0.030	0.032	0.009	0.000	0.000	0.000	0.000	1382.35	
30	0.7530	1175.4	1196.2	1195.3	0.881	6.401	66.598	19.682	5.648	0.222	0.506	0.027	0.029	0.007	0.000	0.000	0.000	0.000	1378.49	
Avg	0.7563	1181.0	1201.5	1200.6	0.890	6.379	66.294	19.673	5.950	0.220	0.520	0.031	0.033	0.009	0.000	0.000	0.000	0.000	1381.55	

Source Daily Summary

June 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	0.7559	1179.1	1200.0	1198.9	0.891	6.433	66.340	19.552	6.008	0.218	0.493	0.029	0.030	0.008	0.000	0.000	0.000	0.000	1380.18	
2	0.7546	1176.6	1197.4	1196.3	0.892	6.460	66.502	19.450	5.936	0.214	0.480	0.028	0.029	0.007	0.000	0.000	0.000	0.000	1378.42	
3	0.7565	1176.8	1197.7	1196.6	0.953	6.530	66.148	19.681	5.940	0.216	0.468	0.028	0.030	0.007	0.000	0.000	0.000	0.000	1377.02	
4	0.7557	1175.7	1196.6	1195.4	0.930	6.556	66.186	19.715	5.886	0.211	0.454	0.027	0.028	0.007	0.000	0.000	0.000	0.000	1376.46	
5	0.7583	1181.0	1201.9	1200.8	0.927	6.485	65.906	19.870	6.049	0.219	0.474	0.029	0.031	0.009	0.000	0.000	0.000	0.000	1380.20	
6	0.7594	1182.8	1203.8	1202.7	0.927	6.473	65.782	19.931	6.104	0.223	0.486	0.030	0.032	0.010	0.000	0.000	0.000	0.000	1381.40	
7	0.7567	1178.3	1199.2	1198.1	0.928	6.494	66.206	19.609	5.984	0.222	0.487	0.029	0.031	0.010	0.000	0.000	0.000	0.000	1378.57	
8	0.7559	1176.8	1197.6	1196.5	0.926	6.522	66.232	19.633	5.943	0.214	0.463	0.028	0.030	0.009	0.000	0.000	0.000	0.000	1377.46	
9	0.7563	1177.4	1198.3	1197.2	0.925	6.515	66.160	19.715	5.944	0.213	0.461	0.028	0.030	0.009	0.000	0.000	0.000	0.000	1377.91	
10	0.7535	1171.8	1192.5	1191.4	0.930	6.589	66.695	19.167	5.841	0.221	0.487	0.029	0.031	0.009	0.000	0.000	0.000	0.000	1373.83	
11	0.7473	1158.5	1179.0	1177.9	0.938	6.806	67.721	18.151	5.579	0.228	0.508	0.030	0.031	0.007	0.000	0.000	0.000	0.000	1363.87	
12	0.7592	1180.1	1201.0	1199.8	0.943	6.599	65.765	19.827	6.109	0.219	0.474	0.028	0.029	0.008	0.000	0.000	0.000	0.000	1378.37	
13	0.7574	1176.3	1197.2	1196.0	0.942	6.665	65.922	19.752	6.001	0.209	0.448	0.026	0.027	0.008	0.000	0.000	0.000	0.000	1375.57	
14	0.7609	1183.1	1204.0	1202.9	0.938	6.583	65.547	19.970	6.180	0.214	0.494	0.032	0.034	0.009	0.000	0.000	0.000	0.000	1380.33	
15	0.7873	1177.2	1198.0	1196.8	1.027	6.213	64.039	21.856	5.528	0.194	0.461	0.029	0.030	0.008	0.000	0.000	0.000	0.000	1358.17	
16	0.7587	1184.1	1205.0	1203.9	0.933	6.323	65.874	20.064	6.032	0.209	0.490	0.032	0.034	0.010	0.000	0.000	0.000	0.000	1383.47	
17	0.7602	1186.1	1207.1	1206.0	0.935	6.336	65.707	20.109	6.111	0.215	0.507	0.034	0.036	0.010	0.000	0.000	0.000	0.000	1384.49	
18	0.7589	1183.9	1204.9	1203.8	0.934	6.352	65.844	20.049	6.036	0.211	0.495	0.032	0.035	0.010	0.000	0.000	0.000	0.000	1383.11	
19	0.7627	1189.0	1210.1	1208.9	0.919	6.419	65.412	20.138	6.270	0.225	0.531	0.036	0.039	0.012	0.000	0.000	0.000	0.000	1385.57	
20	0.7680	1199.1	1220.3	1219.2	0.919	6.303	64.839	20.481	6.485	0.252	0.614	0.044	0.049	0.014	0.000	0.000	0.000	0.000	1392.48	
21	0.7645	1193.3	1214.5	1213.4	0.925	6.318	65.221	20.383	6.206	0.246	0.599	0.043	0.047	0.013	0.000	0.000	0.000	0.000	1388.97	
22	0.7615	1188.3	1209.3	1208.2	0.927	6.342	65.642	20.043	6.162	0.236	0.556	0.038	0.042	0.011	0.000	0.000	0.000	0.000	1385.78	
23	0.7573	1179.2	1200.1	1198.7	0.930	6.408	66.511	19.844	5.817	0.215	0.229	0.015	0.016	0.015	0.000	0.000	0.000	0.000	1379.02	
24	0.7571	1179.2	1200.1	1198.8	0.931	6.400	66.433	19.975	5.697	0.221	0.289	0.019	0.021	0.014	0.000	0.000	0.000	0.000	1379.20	
25	0.7575	1181.5	1202.4	1201.2	0.935	6.365	65.966	20.195	5.664	0.231	0.555	0.038	0.041	0.011	0.000	0.000	0.000	0.000	1381.56	
26	0.7587	1183.6	1204.5	1203.4	0.933	6.358	65.769	20.239	5.915	0.212	0.495	0.033	0.036	0.010	0.000	0.000	0.000	0.000	1382.87	
27	0.7565	1179.2	1200.1	1199.0	0.929	6.424	66.063	20.035	5.743	0.231	0.508	0.029	0.031	0.008	0.000	0.000	0.000	0.000	1379.77	
28	0.7543	1175.7	1196.5	1195.4	0.926	6.441	66.337	19.881	5.629	0.225	0.496	0.028	0.029	0.007	0.000	0.000	0.000	0.000	1377.60	
29	0.7567	1179.8	1200.7	1199.6	0.925	6.408	66.104	19.975	5.750	0.237	0.526	0.032	0.034	0.010	0.000	0.000	0.000	0.000	1380.29	
30	0.7561	1179.1	1199.9	1198.8	0.925	6.404	66.167	19.953	5.720	0.235	0.523	0.031	0.033	0.009	0.000	0.000	0.000	0.000	1379.94	
Avg	0.7588	1180.0	1201.3	1200.2	0.931	6.451	65.968	19.908	5.942	0.221	0.485	0.030	0.033	0.010	0.000	0.000	0.000	0.000	1379.40	

Source Daily Summary

June 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	0.7561	1179.5	1200.4	1199.5	0.890	6.428	66.319	19.564	6.018	0.218	0.494	0.029	0.031	0.008	0.000	0.000	0.000	0.000	1380.42	
2	0.7546	1176.5	1197.3	1196.6	0.892	6.461	66.505	19.447	5.936	0.214	0.480	0.028	0.029	0.007	0.000	0.000	0.000	0.000	1378.38	
3	0.7562	1176.9	1197.7	1196.9	0.928	6.534	66.182	19.675	5.932	0.216	0.467	0.028	0.030	0.007	0.000	0.000	0.000	0.000	1377.33	
4	0.7554	1175.3	1196.1	1195.4	0.930	6.560	66.213	19.702	5.869	0.210	0.452	0.027	0.029	0.007	0.000	0.000	0.000	0.000	1376.16	
5	0.7580	1180.4	1201.3	1200.6	0.928	6.490	65.941	19.852	6.030	0.218	0.472	0.029	0.031	0.009	0.000	0.000	0.000	0.000	1379.83	
6	0.7594	1182.8	1203.8	1203.0	0.928	6.474	65.782	19.931	6.103	0.223	0.486	0.030	0.032	0.010	0.000	0.000	0.000	0.000	1381.36	
7	0.7566	1178.2	1199.1	1198.3	0.929	6.494	66.212	19.606	5.979	0.222	0.487	0.030	0.031	0.010	0.000	0.000	0.000	0.000	1378.51	
8	0.7560	1176.9	1197.8	1197.0	0.927	6.521	66.223	19.635	5.947	0.214	0.465	0.028	0.030	0.009	0.000	0.000	0.000	0.000	1377.53	
9	0.7564	1177.6	1198.4	1197.6	0.926	6.514	66.149	19.720	5.948	0.214	0.462	0.028	0.030	0.009	0.000	0.000	0.000	0.000	1377.98	
10	0.7541	1173.0	1193.7	1192.9	0.931	6.577	66.607	19.227	5.878	0.222	0.490	0.029	0.031	0.009	0.000	0.000	0.000	0.000	1374.63	
11	0.7471	1158.1	1178.6	1177.7	0.939	6.811	67.755	18.123	5.567	0.228	0.509	0.030	0.031	0.008	0.000	0.000	0.000	0.000	1363.56	
12	0.7586	1178.9	1199.8	1198.8	0.944	6.612	65.852	19.764	6.073	0.218	0.472	0.028	0.029	0.008	0.000	0.000	0.000	0.000	1377.53	
13	0.7577	1176.9	1197.7	1197.0	0.943	6.656	65.896	19.762	6.019	0.211	0.451	0.027	0.028	0.008	0.000	0.000	0.000	0.000	1375.96	
14	0.7625	1185.7	1206.7	1205.8	0.953	6.549	65.482	19.852	6.341	0.227	0.524	0.031	0.032	0.008	0.000	0.000	0.000	0.000	1381.92	
15	0.7729	1184.4	1205.4	1204.4	1.090	6.270	63.104	22.753	6.019	0.211	0.487	0.029	0.030	0.007	0.000	0.000	0.000	0.000	1371.64	
16	0.7620	1186.2	1207.2	1206.4	0.949	6.481	65.544	19.891	6.320	0.225	0.518	0.031	0.032	0.008	0.000	0.000	0.000	0.000	1382.92	
17	0.7620	1187.3	1208.3	1207.6	0.946	6.416	65.528	20.011	6.279	0.224	0.521	0.032	0.034	0.009	0.000	0.000	0.000	0.000	1384.25	
18	0.7588	1183.7	1204.6	1203.9	0.934	6.354	65.864	20.038	6.027	0.211	0.495	0.032	0.035	0.010	0.000	0.000	0.000	0.000	1382.93	
19	0.7623	1188.3	1209.3	1208.6	0.920	6.427	65.455	20.114	6.247	0.224	0.527	0.036	0.038	0.012	0.000	0.000	0.000	0.000	1385.06	
20	0.7680	1199.1	1220.3	1219.6	0.920	6.301	64.844	20.477	6.481	0.253	0.616	0.045	0.049	0.015	0.000	0.000	0.000	0.000	1392.49	
21	0.7646	1193.5	1214.6	1213.9	0.925	6.315	65.220	20.379	6.212	0.246	0.599	0.043	0.047	0.013	0.000	0.000	0.000	0.000	1389.05	
22	0.7610	1187.2	1208.2	1207.4	0.928	6.355	65.715	19.996	6.128	0.235	0.551	0.038	0.042	0.012	0.000	0.000	0.000	0.000	1385.01	
23	0.7573	1179.2	1200.1	1199.1	0.931	6.408	66.502	19.844	5.816	0.215	0.229	0.015	0.016	0.024	0.000	0.000	0.000	0.000	1379.01	
24	0.7571	1179.1	1200.0	1199.1	0.932	6.401	66.431	19.970	5.694	0.221	0.290	0.019	0.021	0.021	0.000	0.000	0.000	0.000	1379.14	
25	0.7578	1182.1	1203.1	1202.3	0.936	6.356	65.930	20.210	5.688	0.232	0.558	0.038	0.041	0.012	0.000	0.000	0.000	0.000	1382.00	
26	0.7587	1183.4	1204.3	1203.6	0.933	6.369	65.762	20.236	5.915	0.212	0.495	0.033	0.035	0.009	0.000	0.000	0.000	0.000	1382.64	
27	0.7567	1179.6	1200.5	1199.7	0.930	6.418	66.036	20.060	5.747	0.231	0.510	0.029	0.031	0.008	0.000	0.000	0.000	0.000	1380.03	
28	0.7544	1175.8	1196.6	1195.8	0.926	6.441	66.330	19.882	5.632	0.226	0.497	0.028	0.030	0.007	0.000	0.000	0.000	0.000	1377.66	
29	0.7566	1179.5	1200.4	1199.7	0.926	6.411	66.117	19.967	5.741	0.236	0.526	0.032	0.034	0.010	0.000	0.000	0.000	0.000	1380.12	
30	0.7555	1177.9	1198.7	1197.9	0.926	6.416	66.244	19.908	5.684	0.233	0.518	0.031	0.032	0.009	0.000	0.000	0.000	0.000	1379.11	
Avg	0.7585	1181.0	1201.7	1200.9	0.935	6.461	65.925	19.920	5.976	0.223	0.488	0.030	0.032	0.010	0.000	0.000	0.000	0.000	1379.81	

Source Daily Summary

June 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	0.7562	1179.5	1200.4	1199.6	0.891	6.434	66.304	19.571	6.022	0.218	0.493	0.029	0.030	0.008	0.000	0.000	0.000	0.000	1380.37	
2	0.7547	1176.9	1197.7	1196.9	0.890	6.451	66.502	19.452	5.943	0.215	0.482	0.028	0.029	0.008	0.000	0.000	0.000	0.000	1378.70	
3	0.7542	1175.8	1196.6	1195.8	0.891	6.472	66.504	19.490	5.903	0.210	0.469	0.026	0.028	0.007	0.000	0.000	0.000	0.000	1377.88	
4	0.7570	1181.3	1202.2	1201.5	0.888	6.399	66.175	19.712	6.052	0.218	0.490	0.028	0.030	0.008	0.000	0.000	0.000	0.000	1381.82	
5	0.7581	1183.3	1204.2	1203.4	0.888	6.389	66.037	19.781	6.112	0.222	0.502	0.030	0.032	0.008	0.000	0.000	0.000	0.000	1383.05	
6	0.7556	1179.2	1200.1	1199.3	0.889	6.395	66.434	19.499	5.992	0.221	0.503	0.029	0.031	0.008	0.000	0.000	0.000	0.000	1380.60	
7	0.7543	1176.6	1197.5	1196.7	0.887	6.438	66.547	19.436	5.940	0.211	0.476	0.028	0.029	0.007	0.000	0.000	0.000	0.000	1378.74	
8	0.7551	1178.1	1198.9	1198.1	0.886	6.424	66.421	19.548	5.968	0.212	0.476	0.027	0.029	0.007	0.000	0.000	0.000	0.000	1379.72	
9	0.7518	1171.5	1192.2	1191.4	0.891	6.511	67.023	18.948	5.838	0.220	0.503	0.029	0.030	0.007	0.000	0.000	0.000	0.000	1374.98	
10	0.7465	1160.0	1180.5	1179.8	0.898	6.707	67.923	18.030	5.619	0.228	0.529	0.029	0.031	0.007	0.000	0.000	0.000	0.000	1366.26	
11	0.7579	1180.7	1201.6	1200.6	0.901	6.510	66.050	19.623	6.148	0.218	0.488	0.027	0.029	0.007	0.000	0.000	0.000	0.000	1380.16	
12	0.7566	1177.5	1198.4	1197.4	0.902	6.573	66.181	19.534	6.067	0.211	0.471	0.026	0.028	0.007	0.000	0.000	0.000	0.000	1377.71	
13	0.7595	1183.5	1204.5	1203.6	0.897	6.491	65.816	19.819	6.184	0.211	0.508	0.031	0.033	0.009	0.000	0.000	0.000	0.000	1382.04	
14	0.7563	1180.5	1201.4	1200.4	0.890	6.385	66.299	19.626	6.015	0.208	0.506	0.030	0.032	0.008	0.000	0.000	0.000	0.000	1381.45	
15	0.7572	1184.2	1205.2	1204.1	0.894	6.237	66.181	19.852	6.046	0.207	0.508	0.031	0.034	0.009	0.000	0.000	0.000	0.000	1384.96	
16	0.7589	1186.6	1207.6	1206.8	0.895	6.248	65.965	19.960	6.115	0.213	0.525	0.033	0.035	0.010	0.000	0.000	0.000	0.000	1386.22	
17	0.7575	1184.2	1205.1	1204.4	0.893	6.265	66.122	19.897	6.029	0.208	0.510	0.032	0.034	0.009	0.000	0.000	0.000	0.000	1384.67	
18	0.7624	1191.3	1212.4	1211.7	0.880	6.315	65.542	20.078	6.314	0.226	0.559	0.036	0.039	0.011	0.000	0.000	0.000	0.000	1388.47	
19	0.7668	1199.7	1220.9	1220.1	0.881	6.210	65.122	20.300	6.489	0.251	0.640	0.044	0.049	0.015	0.000	0.000	0.000	0.000	1394.26	
20	0.7633	1193.9	1215.1	1214.2	0.887	6.226	65.507	20.188	6.224	0.245	0.621	0.042	0.047	0.014	0.000	0.000	0.000	0.000	1390.74	
21	0.7587	1186.0	1207.0	1206.2	0.889	6.276	66.102	19.773	6.078	0.230	0.564	0.037	0.040	0.012	0.000	0.000	0.000	0.000	1385.65	
22	0.7554	1180.3	1201.2	1200.3	0.889	6.319	66.425	19.666	5.883	0.214	0.528	0.032	0.034	0.009	0.000	0.000	0.000	0.000	1381.97	
23	0.7548	1179.2	1200.1	1199.0	0.893	6.320	66.431	19.820	5.681	0.222	0.553	0.034	0.037	0.010	0.000	0.000	0.000	0.000	1381.32	
24	0.7567	1182.9	1203.9	1202.8	0.896	6.265	66.212	20.001	5.720	0.232	0.583	0.038	0.041	0.012	0.000	0.000	0.000	0.000	1383.90	
25	0.7573	1183.6	1204.6	1203.6	0.894	6.285	66.056	20.044	5.920	0.211	0.513	0.032	0.035	0.010	0.000	0.000	0.000	0.000	1384.16	
26	0.7552	1179.7	1200.6	1199.7	0.890	6.335	66.318	19.899	5.734	0.229	0.527	0.028	0.030	0.008	0.000	0.000	0.000	0.000	1381.47	
27	0.7528	1175.8	1196.6	1195.8	0.887	6.355	66.628	19.715	5.617	0.223	0.512	0.027	0.029	0.007	0.000	0.000	0.000	0.000	1379.07	
28	0.7553	1180.2	1201.1	1200.3	0.886	6.314	66.385	19.809	5.753	0.235	0.545	0.031	0.033	0.009	0.000	0.000	0.000	0.000	1382.04	
29	0.7554	1180.6	1201.5	1200.7	0.886	6.301	66.353	19.871	5.739	0.235	0.545	0.030	0.032	0.009	0.000	0.000	0.000	0.000	1382.37	
30	0.7534	1176.1	1197.0	1196.0	0.881	6.394	66.549	19.709	5.670	0.223	0.510	0.028	0.029	0.007	0.000	0.000	0.000	0.000	1378.99	
Avg	0.7565	1181.0	1201.9	1201.0	0.890	6.375	66.271	19.688	5.960	0.221	0.521	0.031	0.033	0.009	0.000	0.000	0.000	0.000	1381.79	

Source Daily Summary

June 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	0.6612	1089.5	1108.8	1108.3	0.988	2.864	80.114	14.794	1.108	0.042	0.080	0.005	0.005	0.000	0.000	0.000	0.000	0.000	1363.60	
2	0.6561	1083.8	1103.0	1102.7	0.996	2.722	80.778	14.606	0.818	0.027	0.050	0.001	0.002	0.000	0.000	0.000	0.000	0.000	1361.77	
3	0.6547	1083.4	1102.5	1102.1	0.971	2.655	81.018	14.486	0.802	0.025	0.042	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1362.65	
4	0.6601	1092.8	1112.2	1111.8	0.961	2.606	79.917	15.629	0.821	0.025	0.040	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1368.88	
5	0.6553	1085.2	1104.4	1104.1	0.980	2.592	80.770	14.893	0.710	0.020	0.034	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1364.29	
6	0.6548	1082.6	1101.8	1101.4	0.999	2.666	80.871	14.729	0.682	0.019	0.033	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1361.64	
7	0.6559	1083.3	1102.5	1102.2	1.004	2.717	80.711	14.777	0.729	0.021	0.039	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1361.40	
8	0.6551	1082.5	1101.6	1101.3	0.983	2.728	80.960	14.446	0.809	0.025	0.047	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1361.11	
9	0.6517	1079.1	1098.2	1097.8	0.981	2.616	81.569	14.040	0.729	0.022	0.042	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1360.42	
10	0.6517	1080.0	1099.1	1098.7	0.977	2.561	81.673	14.079	0.654	0.019	0.035	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1361.52	
11	0.6503	1078.1	1097.2	1096.8	0.977	2.554	81.722	14.067	0.628	0.018	0.033	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1360.61	
12	0.6519	1080.0	1099.1	1098.6	0.979	2.585	81.453	14.256	0.669	0.020	0.035	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1361.31	
13	0.6539	1081.9	1101.0	1100.6	0.988	2.643	81.122	14.450	0.734	0.022	0.040	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1361.64	
14	0.6576	1085.5	1104.7	1104.2	0.965	2.813	80.569	14.611	0.953	0.029	0.056	0.002	0.002	0.000	0.000	0.000	0.000	0.000	1362.23	
15	0.6590	1087.2	1106.5	1106.0	0.960	2.842	80.479	14.497	1.115	0.034	0.068	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1363.00	
16	0.6600	1090.2	1109.5	1109.1	0.957	2.758	80.142	15.059	0.983	0.031	0.063	0.002	0.003	0.000	0.000	0.000	0.000	0.000	1365.73	
17	0.6600	1090.1	1109.4	1109.0	0.962	2.758	80.134	15.072	0.976	0.030	0.063	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1365.60	
18	0.6585	1088.6	1107.9	1107.5	0.963	2.707	80.453	14.805	0.971	0.031	0.064	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1365.24	
19	0.6636	1093.1	1112.4	1112.0	0.975	2.891	79.656	15.185	1.163	0.041	0.080	0.005	0.005	0.000	0.000	0.000	0.000	0.000	1365.63	
20	0.6656	1096.2	1115.6	1115.1	0.952	2.918	79.439	15.212	1.319	0.048	0.098	0.006	0.006	0.000	0.000	0.000	0.000	0.000	1367.52	
21	0.6749	1105.8	1125.4	1124.8	0.943	3.233	77.966	15.943	1.693	0.062	0.141	0.009	0.010	0.000	0.000	0.000	0.000	0.000	1369.80	
22	0.6756	1106.4	1126.0	1125.4	0.939	3.260	77.916	15.884	1.778	0.063	0.142	0.009	0.010	0.000	0.000	0.000	0.000	0.000	1369.91	
23	0.6688	1098.5	1118.0	1117.4	0.961	3.073	78.794	15.650	1.371	0.045	0.097	0.005	0.005	0.000	0.000	0.000	0.000	0.000	1367.03	
24	0.6625	1092.3	1111.6	1111.1	0.960	2.865	79.747	15.231	1.086	0.034	0.072	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1365.70	
25	0.6555	1082.1	1101.3	1100.8	0.969	2.808	80.915	14.360	0.868	0.025	0.052	0.002	0.001	0.000	0.000	0.000	0.000	0.000	1360.25	
26	0.6565	1084.4	1103.6	1103.1	0.961	2.772	80.853	14.349	0.966	0.030	0.064	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1362.14	
27	0.6642	1091.1	1110.5	1109.9	0.970	3.074	79.653	14.870	1.288	0.042	0.092	0.005	0.005	0.000	0.000	0.000	0.000	0.000	1362.58	
28	0.6675	1093.9	1113.3	1112.7	0.959	3.233	79.228	14.885	1.516	0.053	0.113	0.006	0.006	0.000	0.000	0.000	0.000	0.000	1362.63	
29	0.6721	1098.4	1117.9	1117.3	0.961	3.383	78.490	15.292	1.667	0.061	0.131	0.007	0.007	0.000	0.000	0.000	0.000	0.000	1363.58	
30	0.6739	1099.6	1119.1	1118.4	0.972	3.469	78.212	15.384	1.739	0.067	0.141	0.008	0.008	0.000	0.000	0.000	0.000	0.000	1363.16	
Avg	0.6603	1089.0	1108.1	1107.7	0.971	2.846	80.177	14.851	1.045	0.034	0.070	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1363.75	

Source Daily Summary

June 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	0.6842	1123.2	1143.1	1142.5	0.562	3.620	75.853	17.821	1.934	0.066	0.128	0.008	0.007	0.001	0.000	0.000	0.000	0.000	1381.97	
2	0.6816	1119.2	1139.1	1138.5	0.637	3.506	76.479	17.223	1.946	0.066	0.127	0.008	0.007	0.001	0.000	0.000	0.000	0.000	1379.66	
3	0.6754	1110.4	1130.0	1129.5	0.691	3.380	77.581	16.426	1.724	0.062	0.121	0.007	0.007	0.001	0.000	0.000	0.000	0.000	1375.01	
4	0.6792	1114.6	1134.4	1133.8	0.579	3.644	76.890	16.739	1.942	0.066	0.124	0.008	0.007	0.001	0.000	0.000	0.000	0.000	1376.45	
5	0.6798	1114.9	1134.7	1134.1	0.610	3.636	76.772	16.859	1.920	0.065	0.123	0.008	0.007	0.001	0.000	0.000	0.000	0.000	1376.22	
6	0.6865	1127.5	1147.5	1146.9	0.590	3.533	75.644	17.888	2.114	0.073	0.141	0.009	0.008	0.001	0.000	0.000	0.000	0.000	1384.88	
7	0.6855	1126.8	1146.7	1146.2	0.612	3.450	75.709	18.033	1.991	0.064	0.124	0.008	0.007	0.001	0.000	0.000	0.000	0.000	1384.99	
8	0.6827	1123.2	1143.1	1142.6	0.639	3.358	76.053	17.997	1.780	0.055	0.104	0.006	0.006	0.001	0.000	0.000	0.000	0.000	1383.52	
9	0.6805	1120.1	1139.9	1139.4	0.716	3.228	76.660	17.402	1.801	0.060	0.117	0.008	0.007	0.001	0.000	0.000	0.000	0.000	1381.84	
10	0.6776	1115.7	1135.4	1134.9	0.757	3.168	77.120	17.122	1.649	0.057	0.112	0.007	0.007	0.001	0.000	0.000	0.000	0.000	1379.29	
11	0.6797	1120.0	1139.9	1139.3	0.680	3.210	76.679	17.533	1.716	0.057	0.110	0.007	0.007	0.001	0.000	0.000	0.000	0.000	1382.61	
12	0.6860	1128.1	1148.0	1147.5	0.642	3.368	75.757	17.944	2.077	0.067	0.128	0.008	0.008	0.001	0.000	0.000	0.000	0.000	1386.12	
13	0.6795	1117.5	1137.3	1136.8	0.701	3.317	76.794	17.209	1.799	0.056	0.109	0.007	0.007	0.001	0.000	0.000	0.000	0.000	1379.67	
14	0.6808	1119.1	1138.9	1138.4	0.694	3.345	76.540	17.446	1.782	0.059	0.116	0.007	0.007	0.001	0.000	0.000	0.000	0.000	1380.39	
15	0.6792	1116.0	1135.8	1135.2	0.656	3.440	76.954	16.845	1.902	0.063	0.123	0.008	0.007	0.001	0.000	0.000	0.000	0.000	1378.21	
16	0.6821	1120.9	1140.8	1140.2	0.604	3.497	76.414	17.269	2.009	0.064	0.124	0.008	0.009	0.001	0.000	0.000	0.000	0.000	1381.23	
17	0.6775	1113.6	1133.3	1132.7	0.689	3.386	76.979	17.153	1.634	0.050	0.097	0.006	0.006	0.000	0.000	0.000	0.000	0.000	1376.84	
18	0.6863	1127.8	1147.8	1147.2	0.677	3.362	75.536	18.307	1.922	0.062	0.120	0.008	0.007	0.000	0.000	0.000	0.000	0.000	1385.49	
19	0.6870	1128.2	1148.2	1147.5	0.620	3.491	75.580	17.956	2.120	0.072	0.142	0.009	0.009	0.000	0.000	0.000	0.000	0.000	1385.26	
20	0.6817	1117.8	1137.6	1136.8	0.609	3.644	76.645	16.739	2.127	0.074	0.145	0.010	0.009	0.000	0.000	0.000	0.000	0.000	1377.80	
21	0.6807	1116.3	1136.1	1135.3	0.623	3.617	76.838	16.592	2.092	0.074	0.145	0.010	0.009	0.000	0.000	0.000	0.000	0.000	1376.99	
22	0.6812	1118.2	1138.0	1137.3	0.601	3.581	76.775	16.656	2.155	0.073	0.142	0.009	0.009	0.000	0.000	0.000	0.000	0.000	1378.84	
23	0.6791	1113.8	1133.6	1132.9	0.626	3.608	77.304	16.020	2.193	0.077	0.152	0.010	0.010	0.000	0.000	0.000	0.000	0.000	1375.58	
24	0.6775	1110.1	1129.8	1129.1	0.625	3.689	77.583	15.680	2.183	0.075	0.146	0.010	0.010	0.000	0.000	0.000	0.000	0.000	1372.58	
25	0.6722	1104.4	1123.9	1123.3	0.612	3.561	78.506	15.047	2.049	0.070	0.137	0.009	0.009	0.000	0.000	0.000	0.000	0.000	1370.84	
26	0.6735	1106.5	1126.1	1125.5	0.647	3.500	78.508	14.874	2.229	0.076	0.148	0.010	0.010	0.000	0.000	0.000	0.000	0.000	1372.12	
27	0.6717	1104.9	1124.5	1123.7	0.561	3.559	78.947	14.307	2.363	0.080	0.160	0.011	0.011	0.000	0.000	0.000	0.000	0.000	1371.95	
28	0.6673	1098.2	1117.7	1116.8	0.548	3.567	79.713	13.665	2.255	0.077	0.154	0.010	0.010	0.000	0.000	0.000	0.000	0.000	1368.23	
29	0.6640	1096.1	1115.5	1114.7	0.485	3.490	80.045	13.719	2.049	0.063	0.130	0.009	0.010	0.000	0.000	0.000	0.000	0.000	1368.88	
30	0.6615	1091.1	1110.4	1109.6	0.479	3.561	80.584	13.077	2.087	0.064	0.130	0.009	0.010	0.000	0.000	0.000	0.000	0.000	1365.29	
Avg	0.6787	1115.0	1135.2	1134.6	0.626	3.477	77.115	16.585	1.985	0.066	0.129	0.008	0.008	0.001	0.000	0.000	0.000	0.000	1377.96	

Source Daily Summary

June 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	0.6848	1152.0	1172.4	1170.9	0.000	2.793	73.541	23.078	0.572	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1416.71	-27.10
2	0.6847	1151.4	1171.8	1170.4	0.000	2.812	73.592	22.987	0.589	0.007	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1416.19	-27.07
3	0.6842	1152.0	1172.4	1171.0	0.000	2.728	73.665	23.042	0.548	0.007	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1417.45	-27.33
4	0.6832	1150.7	1171.1	1169.5	0.000	2.721	73.808	22.953	0.504	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1416.80	-28.01
5	0.6828	1150.0	1170.4	1168.7	0.000	2.727	73.877	22.885	0.497	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1416.34	-28.25
6	0.6840	1151.8	1172.2	1170.5	0.000	2.727	73.777	22.850	0.625	0.008	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1417.34	-27.05
7	0.6845	1152.5	1172.9	1171.4	0.000	2.730	73.680	22.943	0.625	0.008	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1417.69	-26.82
8	0.6843	1152.3	1172.7	1171.1	0.000	2.723	73.751	22.856	0.648	0.008	0.013	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1417.64	-26.80
9	0.6840	1151.8	1172.2	1170.7	0.000	2.725	73.768	22.881	0.606	0.007	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1417.33	-27.18
10	0.6845	1150.4	1170.8	1169.1	0.000	2.860	73.642	22.867	0.612	0.007	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1415.08	-27.19
11	0.6850	1149.9	1170.3	1168.7	0.000	2.931	73.512	22.948	0.591	0.007	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1414.04	-27.21
12	0.6856	1151.0	1171.4	1169.7	0.000	2.926	73.400	23.051	0.603	0.007	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1414.70	-26.77
13	0.6847	1149.4	1169.7	1168.1	0.000	2.938	73.547	22.930	0.568	0.007	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1413.64	-27.50
14	0.6858	1151.4	1171.8	1170.2	0.000	2.920	73.347	23.122	0.594	0.007	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1414.98	-26.81
15	0.6862	1152.2	1172.6	1171.1	0.000	2.911	73.338	23.066	0.661	0.008	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1415.52	-26.17
16	0.6854	1150.3	1170.6	1168.8	0.000	2.948	73.481	22.916	0.632	0.008	0.013	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1414.05	-26.80
17	0.6851	1150.0	1170.4	1169.0	0.000	2.934	73.518	22.917	0.609	0.008	0.013	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1414.08	-26.99
18	0.6845	1148.9	1169.3	1167.7	0.000	2.947	73.624	22.811	0.597	0.008	0.013	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1413.31	-27.39
19	0.6845	1149.4	1169.7	1168.2	0.000	2.920	73.606	22.869	0.588	0.007	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1413.85	-27.49
20	0.6841	1148.3	1168.7	1166.9	0.000	2.943	73.674	22.800	0.561	0.007	0.012	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1413.02	-27.75
21	0.6839	1147.2	1167.6	1165.7	0.000	2.996	73.602	22.906	0.483	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1411.84	-28.36
22	0.6838	1147.9	1168.3	1166.6	0.000	2.941	73.640	22.922	0.483	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1412.82	-28.33
23	0.6838	1147.9	1168.2	1166.4	0.000	2.944	73.643	22.913	0.486	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1412.77	-28.33
24	0.6834	1147.2	1167.5	1165.8	0.000	2.950	73.710	22.845	0.480	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1412.30	-28.55
25	0.6841	1147.9	1168.2	1166.5	0.000	2.975	73.564	22.968	0.478	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1412.40	-28.26
26	0.6838	1148.0	1168.3	1166.5	0.000	2.943	73.622	22.950	0.470	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1412.82	-28.37
27	0.6828	1146.4	1166.7	1165.1	0.000	2.944	73.798	22.792	0.452	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1411.94	-28.95
28	0.6828	1146.5	1166.8	1165.0	0.000	2.942	73.804	22.781	0.459	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1412.01	-28.91
29	0.6831	1146.9	1167.3	1165.3	0.000	2.937	73.756	22.831	0.462	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1412.31	-28.75
30	0.6835	1147.8	1168.2	1166.5	0.000	2.922	73.685	22.905	0.473	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1412.97	-28.46
Avg	0.6842	1150.0	1170.0	1168.4	0.000	2.879	73.632	22.919	0.552	0.007	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1414.46	-27.63

Source Daily Summary

June 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	0.6490	1059.4	1078.1	1077.4	0.990	3.556	82.062	12.524	0.796	0.024	0.042	0.004	0.002	0.000	0.000	0.000	0.000	0.000	1338.28	
2	0.6490	1059.4	1078.1	1077.4	0.990	3.556	82.062	12.524	0.796	0.024	0.042	0.004	0.002	0.000	0.000	0.000	0.000	0.000	1338.28	
3	0.6490	1059.4	1078.1	1077.4	0.990	3.556	82.062	12.524	0.796	0.024	0.042	0.004	0.002	0.000	0.000	0.000	0.000	0.000	1338.28	
4	0.6269	1039.6	1058.0	1057.2	0.516	3.463	85.891	9.440	0.667	0.009	0.014	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1336.25	
5	0.6314	1036.6	1055.0	1054.2	0.764	3.591	85.291	9.616	0.679	0.021	0.034	0.002	0.002	0.000	0.000	0.000	0.000	0.000	1327.70	
6	0.6399	1041.6	1060.0	1059.2	0.902	3.702	83.767	10.796	0.764	0.024	0.040	0.002	0.002	0.001	0.000	0.000	0.000	0.000	1325.10	
7	0.6399	1046.5	1065.0	1064.1	0.895	3.670	83.768	10.836	0.762	0.024	0.040	0.002	0.002	0.001	0.000	0.000	0.000	0.000	1331.35	
8	0.6368	1045.2	1063.7	1062.9	0.836	3.505	84.361	10.473	0.764	0.022	0.034	0.002	0.002	0.001	0.000	0.000	0.000	0.000	1332.92	
9	0.6438	1055.2	1073.9	1072.9	0.911	3.442	83.113	11.607	0.870	0.020	0.032	0.002	0.002	0.001	0.000	0.000	0.000	0.000	1338.36	
10	0.6445	1056.7	1075.4	1074.5	0.923	3.398	82.964	11.809	0.848	0.020	0.032	0.002	0.002	0.001	0.000	0.000	0.000	0.000	1339.53	
11	0.6452	1057.8	1076.5	1075.4	0.943	3.370	82.847	11.926	0.854	0.021	0.033	0.002	0.002	0.001	0.000	0.000	0.000	0.000	1340.16	
12	0.6411	1052.7	1071.3	1070.5	0.902	3.357	83.542	11.388	0.756	0.019	0.030	0.002	0.002	0.001	0.000	0.000	0.000	0.000	1337.95	
13	0.6353	1045.6	1064.1	1063.2	0.815	3.370	84.617	10.423	0.723	0.018	0.028	0.002	0.002	0.001	0.000	0.000	0.000	0.000	1335.05	
14	0.6406	1051.9	1070.6	1069.3	0.896	3.363	83.661	11.249	0.775	0.019	0.031	0.002	0.002	0.001	0.000	0.000	0.000	0.000	1337.55	
15	0.6374	1046.7	1065.3	1064.0	0.851	3.447	84.270	10.591	0.784	0.020	0.031	0.002	0.002	0.001	0.000	0.000	0.000	0.000	1334.25	
16	0.6335	1041.6	1060.1	1059.2	0.800	3.470	84.908	10.083	0.689	0.018	0.027	0.002	0.002	0.001	0.000	0.000	0.000	0.000	1331.84	
17	0.6355	1044.7	1063.2	1062.4	0.814	3.444	84.583	10.365	0.742	0.018	0.028	0.002	0.002	0.001	0.000	0.000	0.000	0.000	1333.72	
18	0.6361	1046.3	1064.8	1064.2	0.813	3.410	84.528	10.387	0.805	0.020	0.031	0.002	0.002	0.001	0.000	0.000	0.000	0.000	1335.04	
19	0.6420	1054.2	1072.9	1072.0	0.882	3.374	83.400	11.487	0.802	0.019	0.031	0.002	0.002	0.002	0.000	0.000	0.000	0.000	1339.02	
20	0.6408	1053.3	1071.9	1071.1	0.872	3.335	83.617	11.332	0.786	0.020	0.031	0.002	0.002	0.002	0.000	0.000	0.000	0.000	1339.07	
21	0.6012	1001.2	1019.0	1018.1	0.436	3.438	90.800	4.951	0.345	0.014	0.014	0.001	0.001	0.001	0.000	0.000	0.000	0.000	1314.16	
22	0.5722	963.0	980.0	979.1	0.109	3.539	96.023	0.306	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.59	
23	0.5722	963.1	980.1	979.0	0.110	3.529	96.031	0.306	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.75	
24	0.5721	963.1	980.1	979.0	0.110	3.525	96.035	0.306	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.80	
25	0.5721	963.1	980.2	979.1	0.111	3.524	96.036	0.306	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.82	
26	0.5722	963.0	980.1	979.1	0.109	3.533	96.030	0.305	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.71	
27	0.5722	962.9	980.0	979.0	0.108	3.545	96.020	0.304	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.50	
28	0.5722	962.9	979.9	979.1	0.108	3.546	96.019	0.303	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.47	
29	0.5721	963.1	980.1	979.4	0.109	3.528	96.034	0.305	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.78	
30	0.5721	963.1	980.2	979.1	0.109	3.524	96.039	0.305	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.85	
Avg	0.6183	1022.0	1040.2	1039.3	0.624	3.487	87.679	7.636	0.531	0.016	0.022	0.002	0.001	0.001	0.000	0.000	0.000	0.000	1322.84	

June-24

ZONE 550

MANDAN BORDER

NBPL - St Anthony

WBI - Mandan Border

Weighted

Start Date	End Date	MCF	DK	BTU	MCF	DK	BTU Zone 28	AVG BTU	
6/1/2024	6/2/2024	0	0	0	896	1,075	1200.4	1200.400	6/1/2024
6/2/2024	6/3/2024	0	0	0	864	1,036	1197.7	1197.700	6/2/2024
6/3/2024	6/4/2024	0	0	0	928	1,111	1196.6	1196.600	6/3/2024
6/4/2024	6/5/2024	0	0	0	1,016	1,221	1202.2	1202.200	6/4/2024
6/5/2024	6/6/2024	0	0	0	1,020	1,229	1204.2	1204.200	6/5/2024
6/6/2024	6/7/2024	0	0	0	1,046	1,255	1200.1	1200.100	6/6/2024
6/7/2024	6/8/2024	268	296	1100.2	944	1,131	1197.5	1175.985	6/7/2024
6/8/2024	6/9/2024	0	0	0	899	1,078	1198.9	1198.900	6/8/2024
6/9/2024	6/10/2024	38	42	1095.3	888	1,059	1192.2	1188.224	6/9/2024
6/10/2024	6/11/2024	4,075	4,464	1,096	1,043	1,231	1180.5	1112.822	6/10/2024
6/11/2024	6/12/2024	6,052	6,623	1,094	946	1,137	1201.6	1108.805	6/11/2024
6/12/2024	6/13/2024	797	875	1,098	931	1,115	1198.4	1152.185	6/12/2024
6/13/2024	6/14/2024	6,316	6,946	1,100	907	1,092	1204.5	1112.860	6/13/2024
6/14/2024	6/15/2024	6,273	6,878	1,097	814	978	1201.4	1108.726	6/14/2024
6/15/2024	6/16/2024	1,205	1,322	1,100	729	878	1205.2	1139.841	6/15/2024
6/16/2024	6/17/2024	0	0	0	866	1,046	1207.6	1207.600	6/16/2024
6/17/2024	6/18/2024	2,245	2,474	1,103	1,133	1,366	1205.1	1137.444	6/17/2024
6/18/2024	6/19/2024	8,766	9,637	1,100	1,311	1,589	1212.4	1114.710	6/18/2024
6/19/2024	6/20/2024	3,747	4,131	1,103	983	1,199	1220.9	1127.106	6/19/2024
6/20/2024	6/21/2024	1,707	1,882	1,104	891	1,083	1215.1	1142.037	6/20/2024
6/21/2024	6/22/2024	3,426	3,781	1,104	855	1,033	1207	1124.571	6/21/2024
6/22/2024	6/23/2024	0	0	0	763	916	1201.2	1201.200	6/22/2024
6/23/2024	6/24/2024	0	0	0	729	875	1200.1	1200.100	6/23/2024
6/24/2024	6/25/2024	781	855	1,095	813	979	1203.9	1150.298	6/24/2024
6/25/2024	6/26/2024	1,978	2,165	1,097	813	979	1204.6	1128.627	6/25/2024
6/26/2024	6/27/2024	7,638	8,353	1,094	882	1,058	1200.6	1105.304	6/26/2024
6/27/2024	6/28/2024	5,047	5,520	1,097	990	1,184	1196.6	1112.999	6/27/2024
6/28/2024	6/29/2024	1,442	1,579	1,096	903	1,084	1201.1	1136.594	6/28/2024
6/29/2024	6/30/2024	0	0	0	903	1,085	1201.5	1201.500	6/29/2024
6/30/2024	7/1/2024	0	0	0	820	981	1197	1197.000	6/30/2024
		61,801	67,823	659.1000	27,526	33,083	1201.8700	1159.5546	



Alliance Pipeline

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

DAY	Heating Value (BTU/ft3)	Relative Density	C1 Mol%	C2 Mol%	C3 Mol%	IC4 Mol%	NC4 Mol%	IC5 Mol%	NC5 Mol%	C6+ Mol%	N2 Mol%	CO2 Mol%	Hel Mol%
1	1,143.641	0.6547	84.8931	9.6725	3.0705	0.3241	0.5168	0.0534	0.0406	0.0154	0.9680	0.4365	0.0092
2	1,142.500	0.6535	85.1238	9.5137	3.0314	0.3219	0.5123	0.0579	0.0462	0.0186	0.9333	0.4317	0.0092
3	1,144.882	0.6548	84.9905	9.5790	3.0981	0.3309	0.5279	0.0588	0.0469	0.0185	0.9036	0.4369	0.0088
4	1,147.380	0.6558	84.8027	9.7514	3.1341	0.3329	0.5364	0.0596	0.0475	0.0190	0.9077	0.3998	0.0091
5	1,148.606	0.6560	84.7985	9.7566	3.1520	0.3369	0.5453	0.0617	0.0504	0.0208	0.8969	0.3711	0.0098
6	1,148.266	0.6563	84.7385	9.7688	3.1474	0.3368	0.5497	0.0619	0.0503	0.0214	0.9486	0.3669	0.0097
7	1,147.933	0.6557	84.8087	9.7805	3.1267	0.3307	0.5380	0.0607	0.0495	0.0200	0.9062	0.3691	0.0098
8	1,148.556	0.6563	84.6923	9.8512	3.1465	0.3289	0.5420	0.0596	0.0493	0.0204	0.9352	0.3649	0.0096
9	1,147.979	0.6564	84.7130	9.7757	3.1433	0.3372	0.5500	0.0617	0.0506	0.0198	0.9711	0.3679	0.0097
10	1,147.028	0.6560	84.8495	9.5887	3.1567	0.3414	0.5616	0.0634	0.0512	0.0208	0.9942	0.3639	0.0086
11	1,146.031	0.6545	85.0862	9.4654	3.1168	0.3412	0.5578	0.0632	0.0506	0.0203	0.9353	0.3547	0.0086
12	1,147.361	0.6557	84.8080	9.7339	3.1160	0.3376	0.5470	0.0622	0.0491	0.0195	0.9620	0.3549	0.0099
13	1,146.977	0.6553	84.8764	9.6967	3.1068	0.3331	0.5413	0.0622	0.0513	0.0208	0.9388	0.3626	0.0100
14	1,148.120	0.6557	84.8744	9.6864	3.1201	0.3423	0.5561	0.0631	0.0535	0.0228	0.9119	0.3593	0.0102
15	1,148.173	0.6557	84.9066	9.6431	3.1304	0.3411	0.5635	0.0652	0.0535	0.0216	0.9079	0.3574	0.0097
16	1,148.062	0.6556	84.8683	9.7202	3.0982	0.3399	0.5575	0.0651	0.0526	0.0216	0.9172	0.3496	0.0097
17	1,146.788	0.6545	84.9994	9.6826	3.0593	0.3376	0.5351	0.0631	0.0519	0.0210	0.8866	0.3532	0.0101
18	1,145.456	0.6533	85.1754	9.5804	3.0245	0.3354	0.5263	0.0617	0.0516	0.0215	0.8662	0.3472	0.0098
19	1,146.621	0.6542	85.1081	9.5502	3.0883	0.3400	0.5439	0.0628	0.0521	0.0209	0.8679	0.3560	0.0098
20	1,147.403	0.6549	85.0354	9.5560	3.1079	0.3434	0.5588	0.0664	0.0546	0.0224	0.8942	0.3509	0.0100
21	1,147.422	0.6552	84.9470	9.6331	3.1045	0.3421	0.5558	0.0641	0.0517	0.0219	0.9098	0.3603	0.0097
22	1,148.132	0.6564	84.7288	9.7678	3.1363	0.3362	0.5529	0.0639	0.0523	0.0217	0.9572	0.3731	0.0099
23	1,149.456	0.6569	84.6466	9.8360	3.1663	0.3402	0.5569	0.0636	0.0517	0.0208	0.9541	0.3539	0.0100
24	1,148.711	0.6564	84.5962	9.9951	3.0765	0.3357	0.5394	0.0615	0.0507	0.0219	0.9768	0.3353	0.0109
25	1,147.004	0.6547	84.8927	9.7852	3.0313	0.3382	0.5359	0.0632	0.0526	0.0233	0.9436	0.3238	0.0103
26	1,146.061	0.6544	84.9171	9.7795	3.0151	0.3344	0.5282	0.0606	0.0496	0.0218	0.9502	0.3333	0.0103
27	1,144.084	0.6532	85.1422	9.5894	2.9819	0.3318	0.5324	0.0597	0.0488	0.0214	0.9178	0.3636	0.0109
28	1,143.307	0.6532	85.2319	9.4665	2.9877	0.3371	0.5337	0.0616	0.0503	0.0214	0.8969	0.4026	0.0101
29	1,141.968	0.6524	85.2948	9.4642	2.9131	0.3392	0.5266	0.0628	0.0514	0.0222	0.9309	0.3850	0.0097
30	1,145.472	0.6544	85.0300	9.6365	3.0036	0.3485	0.5329	0.0643	0.0541	0.0250	0.9094	0.3856	0.0102
Volume	1,146.641	0.6551	84.9197	9.6763	3.0864	0.3365	0.5420	0.0620	0.0505	0.0209	0.9265	0.3692	0.0098
Weight Avg Energy	1,146.644	0.6551	84.9195	9.6765	3.0865	0.3365	0.5421	0.0620	0.0505	0.0209	0.9265	0.3691	0.0098



Alliance Pipeline

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

DAY	Heating Value (BTU/ft3)	Relative Density	C1 Mol%	C2 Mol%	C3 Mol%	IC4 Mol%	NC4 Mol%	IC5 Mol%	NC5 Mol%	C6+ Mol%	N2 Mol%	CO2 Mol%	Hel Mol%
1	1,143.571	0.6546	84.9235	9.6451	3.0646	0.3252	0.5195	0.0546	0.0418	0.0162	0.9683	0.4322	0.0092
2	1,142.629	0.6537	85.0912	9.5321	3.0356	0.3222	0.5120	0.0582	0.0463	0.0188	0.9326	0.4417	0.0093
3	1,144.790	0.6547	85.0043	9.5747	3.0944	0.3301	0.5277	0.0586	0.0468	0.0183	0.9010	0.4355	0.0087
4	1,148.090	0.6561	84.7654	9.7816	3.1486	0.3344	0.5387	0.0598	0.0480	0.0195	0.9028	0.3922	0.0091
5	1,148.713	0.6561	84.7931	9.7553	3.1549	0.3378	0.5466	0.0619	0.0507	0.0211	0.8988	0.3699	0.0098
6	1,148.031	0.6562	84.7484	9.7544	3.1461	0.3360	0.5497	0.0618	0.0501	0.0212	0.9535	0.3691	0.0097
7	1,147.972	0.6556	84.8169	9.7835	3.1237	0.3305	0.5376	0.0605	0.0497	0.0200	0.9042	0.3636	0.0098
8	1,148.970	0.6567	84.6367	9.8730	3.1614	0.3304	0.5461	0.0600	0.0496	0.0204	0.9506	0.3622	0.0096
9	1,147.861	0.6564	84.7209	9.7628	3.1440	0.3370	0.5494	0.0622	0.0509	0.0200	0.9692	0.3742	0.0095
10	1,146.640	0.6556	84.8983	9.5549	3.1472	0.3416	0.5611	0.0632	0.0509	0.0206	0.9925	0.3611	0.0086
11	1,146.298	0.6547	85.0516	9.5018	3.1188	0.3399	0.5565	0.0631	0.0507	0.0204	0.9330	0.3555	0.0088
12	1,147.319	0.6556	84.8197	9.7234	3.1169	0.3380	0.5466	0.0622	0.0491	0.0196	0.9594	0.3553	0.0099
13	1,146.722	0.6550	84.9219	9.6788	3.0937	0.3323	0.5390	0.0624	0.0518	0.0210	0.9282	0.3610	0.0100
14	1,148.678	0.6561	84.8210	9.7146	3.1362	0.3433	0.5605	0.0632	0.0535	0.0228	0.9156	0.3590	0.0102
15	1,147.945	0.6555	84.9222	9.6358	3.1236	0.3408	0.5617	0.0650	0.0534	0.0216	0.9094	0.3568	0.0096
16	1,147.988	0.6554	84.8808	9.7227	3.0924	0.3399	0.5551	0.0652	0.0523	0.0214	0.9095	0.3508	0.0099
17	1,146.809	0.6546	84.9889	9.6783	3.0610	0.3397	0.5365	0.0638	0.0523	0.0212	0.8954	0.3530	0.0100
18	1,144.933	0.6530	85.2365	9.5274	3.0131	0.3370	0.5263	0.0627	0.0517	0.0214	0.8645	0.3496	0.0098
19	1,146.935	0.6544	85.0865	9.5567	3.0977	0.3410	0.5473	0.0632	0.0524	0.0210	0.8687	0.3557	0.0098
20	1,147.694	0.6552	84.9912	9.5757	3.1188	0.3443	0.5611	0.0664	0.0547	0.0224	0.9001	0.3554	0.0100
21	1,147.233	0.6552	84.9520	9.6356	3.0968	0.3414	0.5533	0.0641	0.0518	0.0221	0.9115	0.3616	0.0096
22	1,148.307	0.6565	84.7091	9.7833	3.1396	0.3366	0.5535	0.0637	0.0522	0.0215	0.9570	0.3735	0.0099
23	1,150.530	0.6576	84.5411	9.9074	3.1910	0.3418	0.5616	0.0639	0.0519	0.0209	0.9666	0.3434	0.0102
24	1,148.524	0.6562	84.6239	9.9743	3.0705	0.3356	0.5401	0.0616	0.0511	0.0221	0.9754	0.3344	0.0108
25	1,146.617	0.6545	84.9240	9.7649	3.0240	0.3369	0.5333	0.0629	0.0521	0.0234	0.9435	0.3248	0.0102
26	1,146.235	0.6544	84.9050	9.7906	3.0181	0.3348	0.5292	0.0604	0.0495	0.0216	0.9474	0.3332	0.0103
27	1,143.708	0.6531	85.1800	9.5589	2.9735	0.3318	0.5321	0.0598	0.0489	0.0215	0.9133	0.3694	0.0108
28	1,143.579	0.6534	85.2037	9.4773	2.9991	0.3375	0.5358	0.0615	0.0504	0.0214	0.8998	0.4034	0.0101
29	1,141.833	0.6523	85.3064	9.4589	2.9062	0.3398	0.5262	0.0628	0.0515	0.0223	0.9293	0.3868	0.0097
30	1,145.748	0.6546	85.0071	9.6473	3.0119	0.3489	0.5344	0.0646	0.0544	0.0254	0.9090	0.3868	0.0102
Volume	1,146.824	0.6551	84.9119	9.6799	3.0919	0.3369	0.5431	0.0621	0.0507	0.0210	0.9257	0.3671	0.0098
Weight Avg Energy	1,146.827	0.6551	84.9117	9.6801	3.0920	0.3369	0.5431	0.0621	0.0507	0.0210	0.9257	0.3671	0.0098

June-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		
6/1/2024	6/2/2024	71	84	1187	93	100	1080.6	1126.663	6/1/2024
6/2/2024	6/3/2024	74	88	1187	148	160	1080.6	1116.067	6/2/2024
6/3/2024	6/4/2024	64	76	1187	122	132	1080.6	1117.211	6/3/2024
6/4/2024	6/5/2024	106	126	1187	118	128	1080.6	1130.950	6/4/2024
6/5/2024	6/6/2024	120	143	1187	133	144	1080.6	1131.066	6/5/2024
6/6/2024	6/7/2024	89	106	1187	131	142	1080.6	1123.644	6/6/2024
6/7/2024	6/8/2024	40	48	1187	114	123	1080.6	1108.236	6/7/2024
6/8/2024	6/9/2024	9	11	1187	123	133	1080.6	1087.855	6/8/2024
6/9/2024	6/10/2024	18	22	1187	115	124	1080.6	1095.000	6/9/2024
6/10/2024	6/11/2024	32	39	1187	150	162	1080.6	1099.308	6/10/2024
6/11/2024	6/12/2024	34	40	1187	120	129	1080.6	1104.091	6/11/2024
6/12/2024	6/13/2024	60	72	1187	120	130	1080.6	1116.067	6/12/2024
6/13/2024	6/14/2024	64	76	1187	98	106	1080.6	1122.635	6/13/2024
6/14/2024	6/15/2024	45	53	1187	112	122	1080.6	1111.097	6/14/2024
6/15/2024	6/16/2024	38	46	1187	90	97	1080.6	1112.188	6/15/2024
6/16/2024	6/17/2024	102	121	1187	122	132	1080.6	1129.050	6/16/2024
6/17/2024	6/18/2024	133	158	1187	227	245	1080.6	1119.909	6/17/2024
6/18/2024	6/19/2024	147	175	1187	245	264	1080.6	1120.500	6/18/2024
6/19/2024	6/20/2024	63	75	1187	128	138	1080.6	1115.695	6/19/2024
6/20/2024	6/21/2024	68	80	1187	104	112	1080.6	1122.665	6/20/2024
6/21/2024	6/22/2024	53	63	1187	115	124	1080.6	1114.167	6/21/2024
6/22/2024	6/23/2024	5	6	1187	90	97	1080.6	1086.200	6/22/2024
6/23/2024	6/24/2024	6	7	1187	76	83	1080.6	1088.385	6/23/2024
6/24/2024	6/25/2024	46	54	1187	93	101	1080.6	1115.812	6/24/2024
6/25/2024	6/26/2024	50	59	1187	86	93	1080.6	1119.718	6/25/2024
6/26/2024	6/27/2024	30	36	1187	105	114	1080.6	1104.244	6/26/2024
6/27/2024	6/28/2024	5	6	1187	103	111	1080.6	1085.526	6/27/2024
6/28/2024	6/29/2024	25	30	1187	120	130	1080.6	1098.945	6/28/2024
6/29/2024	6/30/2024	29	34	1187	96	104	1080.6	1105.285	6/29/2024
6/30/2024	7/1/2024	37	44	1187	96	103	1080.6	1110.200	6/30/2024
		1,663	1,978	1187.0000	3,593	3,883	1080.6000	1111.2792	

Tsp	EffDate	EndDate	Device	GasDay	EndDt	BTU	SpecGrav	CriconTherm	WobbeIndex	CO2	N2	Methane	Ethane	Propane	iButane	nButane	iPentane	nPentane	Neopentane	COPlus	Hydrogen	Helium	WaterVapor	TotalSulfur	HydrogenSulfur	Oxygen
NBPL	5/30/2024 0:00	7/24/2024 0:00	GLNU1 - GLEN ULLIN	6/1/2024	6/2/2024	1102	0.6553	-43.1	1361.324029	1.0063	2.6531	80.6957	14.6354	0.7775	0.0326	0.0521	0.0047	0.0036	0	0.0009	0.1158	0.0225	0.3676	0.1121	0.0718	0.0008
NBPL	5/30/2024 0:00	7/24/2024 0:00	GLNU1 - GLEN ULLIN	6/1/2024	6/3/2024	1102	0.6553	-43.1	1361.324029	1.0063	2.6531	80.6957	14.6354	0.7775	0.0326	0.0521	0.0047	0.0036	0	0.0009	0.1158	0.0225	0.3676	0.1121	0.0718	0.0008
NBPL	5/30/2024 0:00	7/24/2024 0:00	GLNU1 - GLEN ULLIN	6/3/2024	6/4/2024	1102	0.6547	-44.6	1361.947679	0.9841	2.6455	80.6451	14.7606	0.746	0.0211	0.0346	0.002	0.0015	0	0.0002	0.1366	0.0228	0.3647	0.1232	0.0756	0.0012
NBPL	5/30/2024 0:00	7/24/2024 0:00	GLNU1 - GLEN ULLIN	6/4/2024	6/5/2024	1108	0.6582	-42.8	1365.717333	0.9807	2.6049	79.9406	15.5633	0.7192	0.0192	0.0324	0.0019	0.0016	0	0	0.1134	0.0229	0.349	0.1214	0.0764	0.0012
NBPL	5/30/2024 0:00	7/24/2024 0:00	GLNU1 - GLEN ULLIN	6/5/2024	6/6/2024	1101	0.6546	-45.3	1360.815723	0.992	2.6901	80.6224	14.8002	0.6991	0.0176	0.032	0.0014	0.0012	0	0	0.1204	0.0238	0.3764	0.1055	0.067	0.0012
NBPL	5/30/2024 0:00	7/24/2024 0:00	GLNU1 - GLEN ULLIN	6/6/2024	6/7/2024	1100	0.655	-45.1	1359.164539	1.0138	2.7522	80.4794	14.8214	0.6952	0.0183	0.0344	0.0019	0.0019	0	0	0.1571	0.0246	0.3791	0.1037	0.0646	0.0012
NBPL	5/30/2024 0:00	7/24/2024 0:00	GLNU1 - GLEN ULLIN	6/7/2024	6/8/2024	1100	0.655	-45.3	1359.164539	1.0128	2.7525	80.5712	14.7866	0.6825	0.0182	0.0348	0.0019	0.0019	0	0	0.1137	0.024	0.3738	0.1033	0.0664	0.0012
NBPL	5/30/2024 0:00	7/24/2024 0:00	GLNU1 - GLEN ULLIN	6/8/2024	6/9/2024	1096	0.6511	-47.8	1358.27187	0.996	2.6576	81.3181	14.2204	0.6304	0.0166	0.0315	0.0017	0.0017	0	0	0.1071	0.0191	0.384	0.1009	0.0662	0.0012
NBPL	5/30/2024 0:00	7/24/2024 0:00	GLNU1 - GLEN ULLIN	6/9/2024	6/10/2024	1095	0.65	-48.1	1358.180344	0.987	2.6306	81.5099	14.0111	0.6477	0.0177	0.0342	0.002	0.002	0	0	0.1364	0.0215	0.4173	0.1092	0.0714	0.0012
NBPL	5/30/2024 0:00	7/24/2024 0:00	GLNU1 - GLEN ULLIN	6/10/2024	6/11/2024	1096	0.6503	-47.9	1359.107087	0.9844	2.6101	81.4007	14.1496	0.6334	0.0172	0.0331	0.0018	0.0019	0	0	0.1388	0.0229	0.4032	0.1127	0.0762	0.0012
NBPL	5/30/2024 0:00	7/24/2024 0:00	GLNU1 - GLEN ULLIN	6/11/2024	6/12/2024	1095	0.6507	-47.8	1357.449606	0.9892	2.6494	81.3433	14.1664	0.6363	0.0174	0.0334	0.0018	0.0019	0	0	0.1368	0.0241	0.4117	0.1132	0.0746	0.0012
NBPL	5/30/2024 0:00	7/24/2024 0:00	GLNU1 - GLEN ULLIN	6/12/2024	6/13/2024	1097	0.6519	-46.5	1358.676729	0.9895	2.6499	81.1451	14.2852	0.7007	0.019	0.0355	0.0021	0.002	0	0	0.1474	0.0237	0.41	0.1101	0.0713	0.0012
NBPL	5/30/2024 0:00	7/24/2024 0:00	GLNU1 - GLEN ULLIN	6/13/2024	6/14/2024	1099	0.6538	-45.5	1359.174551	0.9995	2.7143	80.7683	14.5859	0.7037	0.0191	0.0378	0.0023	0.0024	0	0.0001	0.1467	0.0199	0.3958	0.1111	0.0734	0.0012
NBPL	5/30/2024 0:00	7/24/2024 0:00	GLNU1 - GLEN ULLIN	6/14/2024	6/15/2024	1097	0.6517	-46.7	1358.885195	0.9803	2.6745	81.0715	14.2951	0.703	0.0174	0.0334	0.0018	0.0018	0	0	0.1397	0.0244	0.4059	0.1103	0.0743	0.0012
NBPL	5/30/2024 0:00	7/24/2024 0:00	GLNU1 - GLEN ULLIN	6/15/2024	6/16/2024	1100	0.6535	-45.5	1360.723512	0.9888	2.6439	81.0722	14.4091	0.7487	0.0203	0.0397	0.0022	0.0022	0	0	0.0489	0.0241	0.4066	0.1147	0.0757	0.0012
NBPL	5/30/2024 0:00	7/24/2024 0:00	GLNU1 - GLEN ULLIN	6/16/2024	6/17/2024	1102	0.6538	-45.9	1362.880764	0.9792	2.5592	80.9367	14.7857	0.6399	0.017	0.0335	0.002	0.0022	0	0	0.0269	0.0238	0.3553	0.1013	0.0651	0.0012
NBPL	5/30/2024 0:00	7/24/2024 0:00	GLNU1 - GLEN ULLIN	6/17/2024	6/18/2024	1102	0.654	-45.9	1362.676356	0.9803	2.5738	80.8744	14.8386	0.629	0.0167	0.0325	0.0019	0.002	0	0	0.0265	0.0245	0.3524	0.1124	0.0759	0.0012
NBPL	5/30/2024 0:00	7/24/2024 0:00	GLNU1 - GLEN ULLIN	6/18/2024	6/19/2024	1100	0.6529	-46.7	1361.348606	0.9863	2.5687	81.1419	14.5848	0.629	0.017	0.0321	0.0019	0.0018	0	0	0.0145	0.0221	0.3702	0.0796	0.052	0.0011
NBPL	5/30/2024 0:00	7/24/2024 0:00	GLNU1 - GLEN ULLIN	6/19/2024	6/20/2024	1102	0.6541	-44.8	1362.572187	0.9847	2.5816	80.9964	14.6275	0.6954	0.026	0.0419	0.0037	0.0029	0	0.0006	0.0155	0.0239	0.3665	0.0036	0.0013	0.0012
NBPL	5/30/2024 0:00	7/24/2024 0:00	GLNU1 - GLEN ULLIN	6/20/2024	6/21/2024	1103	0.6545	-45.2	1363.391829	0.9793	2.5606	80.8709	14.8206	0.6674	0.0206	0.0376	0.0027	0.0026	0	0.0001	0.015	0.0229	0.3584	0.0036	0.0014	0.0012
NBPL	5/30/2024 0:00	7/24/2024 0:00	GLNU1 - GLEN ULLIN	6/21/2024	6/22/2024	1103	0.6539	-46	1364.017191	0.9748	2.5384	80.9026	14.8722	0.62	0.0165	0.0314	0.0018	0.0017	0	0	0.0182	0.0226	0.3532	0.0036	0.0015	0.0012
NBPL	5/30/2024 0:00	7/24/2024 0:00	GLNU1 - GLEN ULLIN	6/22/2024	6/23/2024	1102	0.6538	-46.2	1362.884764	0.9857	2.544	80.9094	14.8268	0.6345	0.0155	0.0285	0.001	0.0007	0	0	0.0315	0.0228	0.3787	0.0037	0.0015	0.0012
NBPL	5/30/2024 0:00	7/24/2024 0:00	GLNU1 - GLEN ULLIN	6/23/2024	6/24/2024	1103	0.6551	-45.3	1362.767327	0.991	2.5805	80.6757	15.0047	0.6463	0.0161	0.0308	0.0015	0.0014	0	0	0.029	0.0232	0.3937	0.0038	0.0017	0.0012
NBPL	5/30/2024 0:00	7/24/2024 0:00	GLNU1 - GLEN ULLIN	6/24/2024	6/25/2024	1100	0.6534	-46.8	1360.827635	0.9926	2.6097	80.9704	14.7414	0.6012	0.0141	0.0267	0.0011	0.001	0	0	0.0175	0.0245	0.3949	0.0595	0.064	0.0012
NBPL	5/30/2024 0:00	7/24/2024 0:00	GLNU1 - GLEN ULLIN	6/25/2024	6/26/2024	1095	0.6502	-48.9	1357.971441	0.9776	2.6314	81.6271	14.0568	0.625	0.0133	0.0247	0.0006	0.0006	0	0	0.0215	0.0213	0.3977	0.0666	0.0713	0.001
NBPL	5/30/2024 0:00	7/24/2024 0:00	GLNU1 - GLEN ULLIN	6/26/2024	6/27/2024	1094	0.6488	-49.3	1358.194293	0.9735	2.5717	81.8949	13.8412	0.619	0.0152	0.0286	0.0011	0.0011	0	0	0.04	0.0237	0.4009	0.0646	0.0707	0.0008
NBPL	5/30/2024 0:00	7/24/2024 0:00	GLNU1 - GLEN ULLIN	6/27/2024	6/28/2024	1096	0.6519	-47.5	1357.438191	0.9916	2.7203	81.3218	14.1763	0.6753	0.0165	0.0317	0.0015	0.0015	0	0	0.0399	0.0236	0.3643	0.0627	0.0696	0.0008
NBPL	5/30/2024 0:00	7/24/2024 0:00	GLNU1 - GLEN ULLIN	6/28/2024	6/29/2024	1096	0.651	-47.5	1358.376188	0.9835	2.6665	81.5427	14.0064	0.6864	0.0188	0.037	0.0021	0.0022	0	0	0.0303	0.0241	0.3694	0.0637	0.0686	0.0008
NBPL	5/30/2024 0:00	7/24/2024 0:00	GLNU1 - GLEN ULLIN	6/29/2024	6/30/2024	1096	0.6518	-47.4	1357.542317	1.0003	2.7032	81.3784	14.1611	0.6574	0.0182	0.0359	0.002	0.0021	0	0	0.0181	0.0233	0.369	0.0637	0.0692	0.0008
NBPL	5/30/2024 0:00	7/24/2024 0:00	GLNU1 - GLEN ULLIN	6/30/2024	7/1/2024	1095	0.652	-47.4	1356.095645	1.0134	2.7471	81.3477	14.128	0.6639	0.0186	0.0363	0.0021	0.002	0	0	0.0162	0.0248	0.3494	0.065	0.0702	0.0008

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	JUN24	MAY24	APR24	MAR24	FEB24	JAN24	DEC23	NOV23	OCT23	SEP23	AUG23	JUL23	Zone
MT/ND	211	Sidney Border - MonDak Tfr - Sidney Plt	1191	1190	1187	1184	1185	1187	1179	1192	1195	1194	1196	1198	1199	211
ND	24	Williston Border - Charbonneau Station	1190	1186	1184	1181	1181	1192	1197	1194	1194	1188	1188	1195	1195	24
ND	25	Watford City West Border	1200	1187	1201	1193	1194	1194	1198	1197	1198	1207	1212	1210	1210	25
ND	28	Bismarck Station - Glen Ullin Station	1168	1202	1200	1160	1147	1126	1131	1138	1161	1154	1202	1199	1194	28
ND	31	Dickinson Brd - Belfield Trf - G Ullin Str	1128	1108	1106	1133	1147	1127	1127	1134	1147	1138	1121	1124	1118	31
ND/MT	32	Cabin Creek Station - Belfield Transfer	1131	1135	1144	1144	1116	1118	1122	1132	1138	1135	1135	1134	1124	32
ND	33	Little Knife Plant	1173	1170	1170	1173	1173	1171	1169	1168	1174	1173	1177	1181	1174	33
ND	34	Badlands Plant/Bowman Border	1019	1040	1043	1005	1027	1000	1094	1079	1017	980	984	980	980	34
ND	43	Watford City East Border	1110	1081	1075	1066	1085	1113	1127	1132	1154	1119	1124	1120	1118	43
ND/MT	241	Fairview Border	1189	1181	1172	1182	1186	1192	1185	1192	1198	1192	1195	1200	1193	241
ND	267	North Tioga Transfer - Nesson Plant	1176	1191	1193	1183	1187	1165	1166	1171	1169	1169	1166	1176	1181	267
ND	261	Tioga Comp Station - Robinson Lake Plant	1194	1197	1195	1196	1195	1192	1178	1201	1203	1203	1187	1191	1186	261
ND	262	Minot Bdr - Palermo Bdr - Bismarck Stn	1199	1200	1199	1195	1195	1196	1198	1202	1204	1206	1202	1197	1192	262
ND	263	Lignite Plant	1131	1131	1131	1131	1131	1131	1131	1131	1131	1131	1131	1131	1131	263
ND	264	Epping Border	1188	1172	1168	1176	1172	1193	1204	1206	1206	1191	1183	1195	1190	264
ND	265	Tioga Comp Station - County Line Plant	1178	1174	1188	1195	1192	1179	1169	1183	1175	1171	1174	1170	1165	265
ND	266	County Line Plant	1179	1174	1188	1195	1193	1181	1171	1184	1177	1172	1179	1171	1166	266
ND	271	Bismarck Station - Cleveland Station	1197	1202	1201	1198	1192	1183	1186	1201	1206	1204	1202	1199	1194	271
ND	272	Cleveland Station - Mapleton	1197	1201	1200	1197	1191	1183	1185	1200	1204	1205	1201	1199	1194	272
ND	273	Cleveland Station - Grafton Border	1197	1202	1199	1198	1191	1183	1186	1201	1205	1204	1202	1198	1194	273
ND	550	Mandan Border / NBPL-St Anthony	1157	1160	1192	1157	1146	1126	1124	1138	1161	1142	1188	1173	1172	550
ND	610	MDU-Watford City BTU	1135	1111	1121	1112	1118	1138	1150	1151	1167	1152	1150	1131	1123	610
ND	802	NBPL - Linton	1107	1096	1104	1109	1114	1114	1103	1114	1104	1106	1110	1105	1104	802
ND	903	Hettinger Propane	2549	2549	2549	2549	2549	2549	2549	2549	2549	2549	2549	2549	2549	903
ND	600	Alliance Pipeline - Hankinson	1149	1147	1148	1148	1146	1144	1144	1147	1146	1153	1149	1159	1155	600
ND	601	Alliance Pipeline - Milnor	1149	1147	1149	1148	1146	1144	1144	1147	1147	1154	1149	1160	1155	601

THERMAL ZONE VARIANCE DOCUMENTATION		
June 2024		
<i>ZONE</i>	<i>BTU VARIANCE</i>	<i>REASON</i>
550	-32	Operational