



A Subsidiary of MDU Resources Group, Inc.

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July 15, 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 – May 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 June 2024.
2. Attachment B consists of copies of the monthly Heating Value Test Reports received from our suppliers for the month of May 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 May 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	1.1268
MDU-308-ARNEGARD	025	1.1268
MDU-314-APPLE VALLEY	271	1.1559
MDU-318-BEACH	032	1.0572
MDU-319-BELFIELD	032	1.0650
MDU-323-BERTHOLD	262	1.1287
MDU-327-BISMARCK	028	1.1192
MDU-330-BOWMAN	034	0.9219
MDU-337-BURLINGTON	262	1.1530
MDU-343-CARRINGTON	273	1.1559
MDU-344-CLEVELAND	272	1.1468
MDU-364-CAVALIER	273	1.1803
MDU-365-DAWSON	271	1.1478
MDU-368-DES LACS	262	1.1368
MDU-369-DICKINSON	031	1.0624
MDU-374-FT TOTTEN	273	1.1640
MDU-375-DEVILS LAKE	273	1.1640
MDU-379-BARLOW	273	1.1559
MDU-384-EPPING	264	1.1107
MDU-387-ELDRIDGE	272	1.1549
MDU-407-GLADSTONE	031	1.0624
MDU-411-GLEN ULLIN	031	1.0701
MDU-413-GOLVA	032	1.0417
MDU-416-GARRISON	262	1.1368
MDU-417-GRAFTON	273	1.1884
MDU-403-GWINNER	601	1.1310
MDU-429-HEBRON	031	1.0701
MDU-432-HETTINGER	903	2.4049
MDU-449-JAMESTOWN	272	1.1631
MDU-459-KILLDEER	033	1.1079
MDU-463-LANGDON	273	1.1559
MDU-469-LEFOR	031	1.0624
MDU-474-LIGNITE	263	1.0759
MDU-475-LINTON	802	1.0700
MDU-478-LINCOLN	028	1.1192
MDU-488-MCKENZIE	271	1.1559
MDU-494-MEDINA	271	1.1478
MDU-498-MANDAN	028	1.1192
MDU-500-MARMARTH	034	0.9288
MDU-505-MINOT	262	1.1287
MDU-510-MOTT	031	1.0624
MDU-512-MAX	262	1.1287
MDU-513-MILNOR	601	1.1310
MDU-522-NEW ENGLAND	031	1.0547
MDU-524-NEW SALEM	028	1.0956
MDU-532-NEW ROCKFORD	273	1.1559
MDU-539-PARK RIVER	273	1.1803
MDU-540-PALERMO	262	1.1287
MDU-558-RAY	264	1.1107

MDU-561-REGENT	031	1.0547
MDU-563-RHAME	034	0.9151
MDU-564-RICHARDTON	031	1.0547
MDU-568-ROSS	261	1.1215
MDU-572-RUTHVILLE	262	1.1530
MDU-574-SANBORN	272	1.1631
MDU-583-SENTINEL BUTTE	032	1.0572
MDU-588-SOUTH HEART	031	1.0624
MDU-717-SPIRITWOOD	272	1.1631
MDU-590-SPRINGBROOK	264	1.1107
MDU-591-STANLEY	261	1.1296
MDU-593-STEELE	271	1.1478
MDU-594-STERLING	028	1.1192
MDU-598-SHEYENNE	273	1.1640
MDU-605-SURREY	262	1.1530
MDU-610-TAPPEN	271	1.1478
MDU-611-TAYLOR	031	1.0547
MDU-616-TIOGA	260	1.1093
MDU-619-TURTLE LAKE	262	1.1368
MDU-620-TRENTON	024	1.1235
MDU-624-UNDERWOOD	262	1.1368
MDU-625-VALLEY CITY	272	1.1712
MDU-629-WALHALLA	273	1.1803
MDU-632-WATFORD CITY	610	1.0503
MDU-636-WHEELOCK	264	1.1027
MDU-637-WHITE EARTH	261	1.1296
MDU-642-WILLISTON	024	1.1235
MDU-646-WASHBURN	262	1.1368
MDU-647-WILTON	262	1.1287
MDU-664-RIVERDALE	262	1.1368
MDU-691-FAIRVIEW	241	1.1244
MDU-712-MINOT AFB	262	1.1530
MDU-718-FAIRMOUNT	600	1.1287
MDU-732-NEKOMA	273	1.1559
MDU-732-MSR SITE	273	1.1559

Source Daily Summary

May 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	0.7162	1164.7	1185.3	1184.9	1.156	3.179	71.267	21.180	2.841	0.119	0.231	0.013	0.012	0.002	0.000	0.000	0.000	0.000	1400.64	
2	0.7235	1171.0	1191.7	1191.2	1.251	3.349	70.232	21.594	3.131	0.136	0.267	0.016	0.014	0.009	0.000	0.000	0.000	0.000	1401.06	
3	0.7144	1166.3	1187.0	1186.6	0.985	3.180	71.385	21.273	2.813	0.111	0.220	0.014	0.013	0.007	0.000	0.000	0.000	0.000	1404.41	
4	0.7149	1166.8	1187.5	1187.0	0.966	3.227	71.286	21.306	2.854	0.111	0.217	0.013	0.012	0.007	0.000	0.000	0.000	0.000	1404.49	
5	0.7029	1161.9	1182.4	1181.7	0.636	2.907	72.829	20.964	2.384	0.081	0.168	0.012	0.013	0.006	0.000	0.000	0.000	0.000	1410.38	
6	0.7073	1163.4	1184.0	1183.4	0.904	2.817	72.660	20.633	2.592	0.110	0.241	0.018	0.019	0.007	0.000	0.000	0.000	0.000	1407.83	
7	0.7062	1163.5	1184.1	1183.6	0.921	2.680	72.843	20.648	2.516	0.109	0.239	0.018	0.019	0.007	0.000	0.000	0.000	0.000	1409.08	
8	0.7112	1168.8	1189.4	1188.9	0.965	2.768	72.224	20.798	2.806	0.121	0.267	0.020	0.022	0.008	0.000	0.000	0.000	0.000	1410.39	
9	0.7166	1174.3	1195.1	1194.3	1.024	2.840	71.713	20.743	3.156	0.143	0.320	0.025	0.027	0.010	0.000	0.000	0.000	0.000	1411.77	
10	0.7103	1168.7	1189.4	1188.6	1.002	2.619	72.544	20.563	2.808	0.127	0.282	0.022	0.024	0.009	0.000	0.000	0.000	0.000	1411.33	
11	0.7077	1166.2	1186.8	1185.9	0.993	2.550	72.836	20.565	2.612	0.121	0.272	0.021	0.023	0.009	0.000	0.000	0.000	0.000	1410.78	
12	0.7068	1161.9	1182.5	1181.7	0.961	2.767	72.969	20.224	2.643	0.119	0.267	0.020	0.022	0.008	0.000	0.000	0.000	0.000	1406.60	
13	0.7101	1159.6	1180.1	1179.4	0.961	3.227	72.606	19.826	2.865	0.133	0.314	0.026	0.030	0.012	0.000	0.000	0.000	0.000	1400.41	
14	0.7066	1152.4	1172.8	1172.1	0.974	3.319	73.109	19.341	2.808	0.122	0.277	0.020	0.021	0.008	0.000	0.000	0.000	0.000	1395.13	
15	0.7248	1177.9	1198.8	1198.0	1.174	3.159	70.780	20.572	3.777	0.159	0.328	0.021	0.019	0.011	0.000	0.000	0.000	0.000	1408.04	
16	0.7119	1165.7	1186.4	1185.7	0.859	3.169	72.022	20.548	3.021	0.115	0.228	0.015	0.015	0.008	0.000	0.000	0.000	0.000	1406.15	
17	0.7058	1160.7	1181.2	1180.5	0.794	3.014	72.802	20.362	2.674	0.107	0.213	0.013	0.014	0.007	0.000	0.000	0.000	0.000	1405.98	
18	0.7076	1165.5	1186.1	1185.5	0.748	2.954	72.399	20.872	2.685	0.102	0.207	0.013	0.013	0.007	0.000	0.000	0.000	0.000	1410.08	
19	0.7071	1161.4	1182.0	1181.4	0.780	3.109	72.566	20.487	2.685	0.113	0.225	0.014	0.013	0.007	0.000	0.000	0.000	0.000	1405.62	
20	0.7021	1158.3	1178.9	1178.2	0.717	2.919	73.137	20.546	2.362	0.093	0.193	0.014	0.014	0.006	0.000	0.000	0.000	0.000	1406.95	
21	0.7116	1164.9	1185.5	1184.9	0.886	3.162	71.675	21.231	2.719	0.101	0.195	0.012	0.011	0.007	0.000	0.000	0.000	0.000	1405.40	
22	0.7173	1166.1	1186.8	1186.2	1.092	3.232	71.048	21.327	2.890	0.126	0.249	0.015	0.013	0.008	0.000	0.000	0.000	0.000	1401.19	
23	0.7167	1167.7	1188.3	1187.8	1.150	3.067	71.137	21.480	2.755	0.122	0.250	0.016	0.016	0.008	0.000	0.000	0.000	0.000	1403.72	
24	0.7130	1163.9	1184.5	1183.9	1.029	3.130	71.693	21.029	2.731	0.114	0.235	0.016	0.015	0.008	0.000	0.000	0.000	0.000	1402.81	
25	0.7116	1163.6	1184.2	1183.6	1.003	3.054	71.916	20.949	2.698	0.111	0.230	0.015	0.015	0.008	0.000	0.000	0.000	0.000	1403.88	
26	0.7146	1163.4	1184.0	1183.3	1.127	3.168	71.640	20.765	2.900	0.120	0.242	0.015	0.015	0.009	0.000	0.000	0.000	0.000	1400.56	
27	0.7194	1170.2	1190.9	1190.2	1.180	3.124	70.795	21.520	2.981	0.124	0.241	0.014	0.013	0.008	0.000	0.000	0.000	0.000	1404.06	
28	0.7264	1174.0	1194.8	1194.0	1.279	3.389	69.939	21.578	3.344	0.146	0.286	0.016	0.013	0.010	0.000	0.000	0.000	0.000	1401.93	
29	0.7225	1173.3	1194.1	1193.2	1.189	3.203	70.501	21.480	3.157	0.139	0.285	0.019	0.018	0.010	0.000	0.000	0.000	0.000	1404.87	
30	0.7246	1170.0	1190.7	1190.0	1.276	3.468	70.473	20.809	3.487	0.150	0.294	0.018	0.016	0.010	0.000	0.000	0.000	0.000	1398.86	
31	0.7179	1167.6	1188.2	1187.5	1.176	3.143	71.129	21.209	2.888	0.135	0.277	0.018	0.016	0.009	0.000	0.000	0.000	0.000	1402.43	
Avg	0.7132	1166.0	1186.6	1185.9	1.005	3.061	71.811	20.852	2.857	0.121	0.250	0.017	0.017	0.008	0.000	0.000	0.000	0.000	1405.06	

Source Daily Summary

May 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	1164.6	1185.2	1184.9	1.044	2.494	72.622	21.121	2.357	0.102	0.222	0.016	0.018	0.003	0.000	0.000	0.000	0.000	1409.69	
2	0.7049	1161.4	1182.0	1181.7	1.025	2.528	73.019	20.703	2.355	0.103	0.227	0.017	0.019	0.003	0.000	0.000	0.000	0.000	1407.84	
3	0.7038	1161.5	1182.0	1181.8	1.030	2.412	73.171	20.753	2.278	0.100	0.218	0.016	0.019	0.003	0.000	0.000	0.000	0.000	1409.03	
4	0.7048	1163.2	1183.8	1183.5	1.048	2.377	72.959	20.996	2.269	0.099	0.215	0.016	0.018	0.003	0.000	0.000	0.000	0.000	1410.09	
5	0.7043	1161.5	1182.0	1181.6	1.031	2.459	73.132	20.683	2.328	0.102	0.225	0.017	0.020	0.003	0.000	0.000	0.000	0.000	1408.49	
6	0.7063	1161.8	1182.3	1182.0	1.016	2.655	72.900	20.529	2.509	0.109	0.238	0.020	0.022	0.003	0.000	0.000	0.000	0.000	1406.82	
7	0.7052	1162.9	1183.4	1183.1	1.048	2.433	73.083	20.651	2.397	0.107	0.233	0.022	0.023	0.002	0.000	0.000	0.000	0.000	1409.27	
8	0.7120	1170.0	1190.8	1190.4	1.074	2.598	72.227	20.824	2.842	0.122	0.267	0.020	0.023	0.004	0.000	0.000	0.000	0.000	1411.14	
9	0.7141	1172.5	1193.3	1192.8	1.073	2.645	72.025	20.783	3.004	0.130	0.288	0.022	0.025	0.005	0.000	0.000	0.000	0.000	1412.01	
10	0.7062	1164.8	1185.5	1185.0	1.043	2.417	73.036	20.563	2.539	0.112	0.245	0.019	0.022	0.004	0.000	0.000	0.000	0.000	1410.64	
11	0.7044	1163.0	1183.6	1183.1	1.036	2.372	73.238	20.568	2.397	0.108	0.238	0.018	0.021	0.003	0.000	0.000	0.000	0.000	1410.17	
12	0.7075	1161.7	1182.3	1181.9	1.006	2.777	72.959	20.129	2.662	0.124	0.283	0.024	0.029	0.007	0.000	0.000	0.000	0.000	1405.63	
13	0.7054	1150.7	1171.1	1170.7	1.002	3.262	73.112	19.596	2.630	0.108	0.248	0.018	0.020	0.003	0.000	0.000	0.000	0.000	1394.36	
14	0.7048	1154.6	1175.1	1174.7	1.013	2.948	73.235	19.843	2.563	0.108	0.247	0.018	0.021	0.003	0.000	0.000	0.000	0.000	1399.69	
15	0.7104	1165.2	1185.8	1185.4	1.110	2.691	72.155	21.128	2.536	0.105	0.236	0.017	0.020	0.003	0.000	0.000	0.000	0.000	1406.89	
16	0.7060	1165.1	1185.8	1185.4	1.036	2.384	73.002	20.710	2.481	0.108	0.237	0.018	0.021	0.003	0.000	0.000	0.000	0.000	1411.26	
17	0.7036	1161.1	1181.6	1181.2	1.024	2.426	73.349	20.443	2.383	0.105	0.231	0.017	0.020	0.003	0.000	0.000	0.000	0.000	1408.72	
18	0.7045	1164.5	1185.1	1184.8	1.024	2.303	73.150	20.796	2.352	0.105	0.230	0.017	0.020	0.004	0.000	0.000	0.000	0.000	1411.99	
19	0.7001	1156.3	1176.8	1176.5	0.990	2.441	74.012	19.806	2.374	0.106	0.232	0.017	0.020	0.003	0.000	0.000	0.000	0.000	1406.44	
20	0.7014	1158.2	1178.7	1178.3	0.983	2.462	73.648	20.239	2.299	0.103	0.227	0.017	0.020	0.003	0.000	0.000	0.000	0.000	1407.38	
21	0.7036	1159.3	1179.8	1179.4	1.004	2.570	73.242	20.471	2.348	0.101	0.224	0.017	0.019	0.004	0.000	0.000	0.000	0.000	1406.51	
22	0.7072	1167.0	1187.7	1187.3	1.035	2.394	72.638	21.146	2.418	0.104	0.227	0.017	0.019	0.003	0.000	0.000	0.000	0.000	1412.24	
23	0.7045	1164.3	1184.9	1184.6	0.999	2.355	73.023	20.975	2.286	0.102	0.218	0.019	0.021	0.003	0.000	0.000	0.000	0.000	1411.73	
24	0.7037	1161.1	1181.7	1181.3	0.976	2.506	73.242	20.538	2.369	0.103	0.227	0.017	0.019	0.003	0.000	0.000	0.000	0.000	1408.67	
25	0.7049	1164.2	1184.9	1184.5	0.991	2.409	72.984	20.909	2.341	0.103	0.225	0.017	0.019	0.003	0.000	0.000	0.000	0.000	1411.24	
26	0.7047	1163.0	1183.6	1183.2	0.964	2.506	73.145	20.536	2.463	0.108	0.238	0.017	0.020	0.003	0.000	0.000	0.000	0.000	1409.91	
27	0.7029	1161.0	1181.6	1181.2	0.960	2.467	73.377	20.461	2.364	0.103	0.228	0.017	0.019	0.003	0.000	0.000	0.000	0.000	1409.30	
28	0.7080	1168.9	1189.6	1189.2	0.977	2.431	72.524	21.200	2.480	0.108	0.239	0.018	0.020	0.003	0.000	0.000	0.000	0.000	1413.84	
29	0.7116	1174.4	1195.2	1194.7	0.979	2.429	71.994	21.549	2.643	0.112	0.250	0.018	0.021	0.003	0.000	0.000	0.000	0.000	1416.91	
30	0.7114	1174.0	1194.8	1194.4	0.986	2.427	72.066	21.444	2.670	0.113	0.252	0.018	0.021	0.003	0.000	0.000	0.000	0.000	1416.62	
31	0.7060	1168.5	1189.2	1188.8	0.983	2.267	72.855	21.117	2.402	0.105	0.233	0.017	0.019	0.003	0.000	0.000	0.000	0.000	1415.27	
Avg	0.7060	1164.0	1184.2	1183.8	1.016	2.511	72.939	20.684	2.462	0.107	0.237	0.018	0.021	0.003	0.000	0.000	0.000	0.000	1409.35	

Gas Composition and Properties

Effective May 1, 2024

Source #: 0602160
Name: FAIRVIEW BORDER

Component	Mole %	Liquid Content	Mass %
Carbon Dioxide, CO2	0.9352		2.0311
Nitrogen, N2	2.9751		4.1128
Methane, C1	74.0335		58.6105
Ethane, C2	18.8633	5.0477	27.9905
Propane, C3	2.7922	0.7697	6.0760
iso-Butane, iC4	0.1111	0.0364	0.3187
n-Butane, nC4	0.2482	0.0783	0.7119
iso-Pentane, iC5	0.0191	0.0070	0.0680
n-Pentane, nC5	0.0206	0.0075	0.0733
Neo-Pentane, neo			
Hexanes Plus, C6+	0.0017	0.0007	0.0072
Argon, Ar			
Carbon Monoxide, CO			
Hydrogen, H2			
Oxygen, O2			
Helium, He			
Water, H2O			
Hydrogen Sulfide, H2S			
Totals	100.0000	5.9470	100.0000

Property	Total Sample	C6 Plus Fraction
Pressure Base	14.730	
Temperature Base	60.00	
HCDP @ Sample Pressure	-23.821	
Cricondentherm	-7.144	
HV, Dry @ Base P, T	1171.55	
HV, Sat @ Base P, T	1151.16	
HV, Sat @ Sample P, T	1171.55	
Relative Density	0.7016	
C6+: 100		

Sample

Date: 05/01/2024 Type:

Tech: Tipton, Joshua

Pressure: 370 psi Temp.: °F

Gauge: Gauge H2O:

Atm. Pressure: H2S:

Remarks:

Analysis

Date: 05/01/2024 Instrument:

Tech: Tipton, Joshua Cylinder: 383

Remarks:

Source Daily Summary

May 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	0.7559	1175.2	1196.0	1195.8	0.911	6.635	66.119	19.737	5.866	0.204	0.460	0.029	0.032	0.008	0.000	0.000	0.000	0.000	1375.66	19.93
2	0.7579	1177.6	1198.4	1198.2	0.915	6.676	65.876	19.785	5.990	0.208	0.477	0.030	0.034	0.008	0.000	0.000	0.000	0.000	1376.57	21.15
3	0.7601	1181.0	1202.0	1201.7	0.913	6.669	65.618	19.910	6.096	0.218	0.497	0.032	0.036	0.009	0.000	0.000	0.000	0.000	1378.66	22.55
4	0.7587	1178.8	1199.7	1199.5	0.913	6.678	65.775	19.834	6.029	0.215	0.485	0.030	0.034	0.008	0.000	0.000	0.000	0.000	1377.30	21.62
5	0.7551	1175.4	1196.2	1196.0	0.917	6.542	66.196	19.848	5.766	0.204	0.459	0.029	0.032	0.008	0.000	0.000	0.000	0.000	1376.61	19.51
6	0.7559	1178.3	1199.1	1198.9	0.915	6.439	66.235	19.785	5.848	0.214	0.488	0.031	0.035	0.009	0.000	0.000	0.000	0.000	1379.27	20.74
7	0.7549	1176.3	1197.2	1196.9	0.912	6.467	66.815	18.980	5.879	0.248	0.601	0.040	0.045	0.011	0.000	0.000	0.000	0.000	1377.89	22.85
8	0.6878	1143.4	1163.6	1163.3	0.976	2.103	75.163	20.243	1.294	0.062	0.134	0.010	0.012	0.002	0.000	0.000	0.000	0.000	1403.06	-20.27
9	0.6864	1142.9	1163.1	1162.8	0.996	1.978	75.221	20.508	1.110	0.054	0.113	0.009	0.010	0.002	0.000	0.000	0.000	0.000	1403.82	-22.12
10	0.7105	1154.7	1175.1	1174.9	0.964	3.556	72.161	20.138	2.765	0.115	0.259	0.018	0.020	0.004	0.000	0.000	0.000	0.000	1394.77	-6.76
11	0.7620	1187.5	1208.5	1208.2	0.919	6.442	65.699	19.770	6.247	0.249	0.576	0.040	0.045	0.012	0.000	0.000	0.000	0.000	1384.44	25.42
12	0.7578	1178.5	1199.4	1199.1	0.917	6.600	66.104	19.514	6.047	0.223	0.515	0.033	0.037	0.009	0.000	0.000	0.000	0.000	1377.80	22.16
13	0.7582	1180.1	1201.0	1200.7	0.920	6.532	65.970	19.766	6.014	0.215	0.502	0.033	0.037	0.009	0.000	0.000	0.000	0.000	1379.34	22.01
14	0.7523	1179.0	1199.9	1199.6	0.935	6.032	66.705	20.040	5.518	0.204	0.484	0.033	0.038	0.009	0.000	0.000	0.000	0.000	1383.39	19.35
15	0.7270	1167.8	1188.5	1188.2	0.951	4.319	70.213	19.951	4.000	0.152	0.354	0.025	0.029	0.007	0.000	0.000	0.000	0.000	1394.42	5.39
16	0.7230	1162.9	1183.4	1183.2	0.899	4.324	70.524	20.085	3.660	0.136	0.317	0.023	0.026	0.006	0.000	0.000	0.000	0.000	1392.14	2.48
17	0.7464	1179.3	1200.2	1199.9	0.954	5.431	67.330	20.618	4.973	0.182	0.438	0.031	0.035	0.009	0.000	0.000	0.000	0.000	1389.28	15.81
18	0.7398	1175.4	1196.2	1195.9	0.954	5.051	68.254	20.482	4.634	0.166	0.393	0.027	0.031	0.008	0.000	0.000	0.000	0.000	1391.04	11.44
19	0.7537	1177.2	1198.1	1197.8	0.926	6.284	66.420	19.985	5.657	0.194	0.461	0.030	0.034	0.008	0.000	0.000	0.000	0.000	1380.04	19.20
20	0.7572	1176.6	1197.5	1197.2	0.911	6.671	66.080	19.553	6.004	0.217	0.492	0.030	0.034	0.008	0.000	0.000	0.000	0.000	1376.12	21.23
21	0.7309	1175.1	1195.9	1195.6	0.956	4.232	69.288	21.110	3.846	0.150	0.355	0.025	0.029	0.007	0.000	0.000	0.000	0.000	1398.99	7.41
22	0.7204	1166.2	1186.9	1186.6	0.944	3.815	70.721	20.772	3.264	0.130	0.303	0.021	0.025	0.006	0.000	0.000	0.000	0.000	1398.54	0.74
23	0.7208	1168.9	1189.6	1189.3	0.950	3.681	70.632	21.045	3.190	0.130	0.313	0.024	0.028	0.006	0.000	0.000	0.000	0.000	1401.12	2.12
24	0.7487	1178.1	1198.9	1198.7	0.921	5.772	67.184	20.075	5.314	0.201	0.460	0.030	0.034	0.009	0.000	0.000	0.000	0.000	1385.77	17.17
25	0.7575	1179.4	1200.3	1200.0	0.918	6.519	65.991	19.845	5.950	0.218	0.487	0.030	0.034	0.008	0.000	0.000	0.000	0.000	1379.09	21.26
26	0.7397	1168.8	1189.5	1189.2	0.899	5.531	68.476	19.537	4.883	0.185	0.422	0.028	0.032	0.008	0.000	0.000	0.000	0.000	1383.05	12.95
27	0.7512	1178.1	1198.9	1198.6	0.927	5.997	66.815	20.040	5.489	0.203	0.458	0.029	0.033	0.008	0.000	0.000	0.000	0.000	1383.32	18.36
28	0.7208	1163.9	1184.5	1184.2	0.955	3.979	70.385	21.123	3.118	0.121	0.273	0.019	0.021	0.005	0.000	0.000	0.000	0.000	1395.48	-1.21
29	0.7031	1158.3	1178.8	1178.5	0.960	2.655	72.395	22.020	1.732	0.067	0.148	0.010	0.011	0.002	0.000	0.000	0.000	0.000	1405.84	-12.83
30	0.7123	1172.2	1193.0	1192.7	0.888	2.769	71.966	21.114	2.818	0.123	0.273	0.020	0.024	0.005	0.000	0.000	0.000	0.000	1413.63	-2.10
31	0.7593	1182.6	1203.6	1203.3	0.924	6.476	65.843	19.888	6.045	0.228	0.517	0.033	0.037	0.009	0.000	0.000	0.000	0.000	1381.27	22.66
Avg	0.7395	1172.0	1193.0	1192.7	0.931	5.253	68.328	20.165	4.679	0.175	0.404	0.027	0.031	0.007	0.000	0.000	0.000	0.000	1387.67	11.30

Source Daily Summary

May 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	0.7565	1176.6	1197.4	1197.2	0.913	6.595	66.027	19.869	5.860	0.205	0.462	0.029	0.032	0.008	0.000	0.000	0.000	0.000	1376.75	
2	0.7557	1176.0	1196.9	1196.6	0.916	6.564	66.133	19.821	5.833	0.203	0.462	0.029	0.032	0.008	0.000	0.000	0.000	0.000	1376.76	
3	0.7575	1178.3	1199.2	1198.9	0.913	6.594	65.914	19.897	5.921	0.210	0.477	0.031	0.034	0.008	0.000	0.000	0.000	0.000	1377.80	
4	0.7571	1177.2	1198.1	1197.8	0.914	6.620	65.972	19.832	5.903	0.211	0.476	0.030	0.034	0.008	0.000	0.000	0.000	0.000	1376.94	
5	0.7564	1175.9	1196.7	1196.3	0.915	6.638	66.048	19.776	5.876	0.207	0.469	0.029	0.033	0.008	0.000	0.000	0.000	0.000	1375.96	
6	0.7585	1180.0	1200.9	1200.6	0.915	6.580	65.826	19.898	6.005	0.216	0.486	0.031	0.034	0.008	0.000	0.000	0.000	0.000	1378.92	
7	0.7569	1177.0	1197.9	1197.6	0.910	6.613	66.467	19.075	6.015	0.245	0.584	0.038	0.043	0.010	0.000	0.000	0.000	0.000	1376.90	
8	0.7171	1154.6	1175.1	1174.7	0.928	4.226	71.657	19.211	3.405	0.150	0.359	0.026	0.030	0.008	0.000	0.000	0.000	0.000	1388.09	
9	0.6918	1146.3	1166.6	1166.1	0.988	2.283	74.437	20.682	1.375	0.065	0.142	0.011	0.013	0.003	0.000	0.000	0.000	0.000	1402.55	
10	0.6897	1143.7	1163.9	1163.5	0.988	2.248	74.738	20.522	1.289	0.060	0.131	0.010	0.012	0.002	0.000	0.000	0.000	0.000	1401.50	
11	0.7531	1177.3	1198.1	1197.6	0.925	6.226	66.765	19.597	5.655	0.227	0.522	0.035	0.039	0.009	0.000	0.000	0.000	0.000	1380.65	
12	0.7602	1184.9	1205.8	1205.4	0.918	6.433	65.880	19.733	6.166	0.236	0.545	0.036	0.041	0.011	0.000	0.000	0.000	0.000	1383.03	
13	0.7554	1176.2	1197.0	1196.5	0.922	6.517	66.336	19.586	5.858	0.213	0.493	0.032	0.036	0.009	0.000	0.000	0.000	0.000	1377.20	
14	0.7597	1184.0	1205.0	1204.5	0.920	6.442	65.784	19.948	6.089	0.218	0.515	0.035	0.039	0.010	0.000	0.000	0.000	0.000	1382.46	
15	0.7556	1179.7	1200.6	1200.2	0.928	6.313	66.215	19.993	5.800	0.199	0.476	0.032	0.036	0.009	0.000	0.000	0.000	0.000	1381.15	
16	0.7470	1172.1	1192.8	1192.4	0.905	5.999	67.315	19.852	5.249	0.179	0.430	0.029	0.033	0.009	0.000	0.000	0.000	0.000	1380.21	
17	0.7481	1174.5	1195.3	1194.9	0.941	5.899	67.038	20.297	5.148	0.180	0.428	0.029	0.033	0.008	0.000	0.000	0.000	0.000	1382.07	
18	0.7582	1180.9	1201.8	1201.5	0.926	6.478	65.880	19.967	5.985	0.203	0.484	0.032	0.036	0.009	0.000	0.000	0.000	0.000	1380.23	
19	0.7565	1177.4	1198.3	1197.9	0.922	6.540	66.069	19.844	5.881	0.199	0.471	0.031	0.034	0.009	0.000	0.000	0.000	0.000	1377.68	
20	0.7575	1177.2	1198.0	1197.7	0.919	6.652	65.962	19.733	5.971	0.209	0.481	0.030	0.034	0.008	0.000	0.000	0.000	0.000	1376.52	
21	0.7499	1178.2	1199.0	1198.6	0.931	5.867	66.952	20.184	5.329	0.202	0.464	0.030	0.034	0.008	0.000	0.000	0.000	0.000	1384.75	
22	0.7209	1166.2	1186.9	1186.5	0.946	3.858	70.626	20.842	3.220	0.132	0.318	0.024	0.028	0.007	0.000	0.000	0.000	0.000	1397.84	
23	0.7246	1174.2	1194.9	1194.7	0.965	3.694	70.023	21.481	3.326	0.134	0.320	0.024	0.028	0.006	0.000	0.000	0.000	0.000	1403.75	
24	0.7267	1161.6	1182.1	1181.8	0.887	4.766	70.164	19.605	4.008	0.154	0.357	0.025	0.028	0.006	0.000	0.000	0.000	0.000	1386.94	
25	0.7588	1181.0	1201.9	1201.5	0.915	6.539	65.871	19.850	6.027	0.222	0.500	0.031	0.035	0.009	0.000	0.000	0.000	0.000	1379.79	
26	0.7513	1173.1	1193.9	1193.6	0.902	6.341	66.912	19.445	5.654	0.208	0.467	0.029	0.033	0.008	0.000	0.000	0.000	0.000	1377.47	
27	0.7585	1179.4	1200.3	1199.9	0.915	6.616	65.888	19.748	6.045	0.221	0.493	0.031	0.035	0.009	0.000	0.000	0.000	0.000	1378.19	
28	0.7587	1181.5	1202.4	1201.9	0.920	6.502	65.892	19.835	6.062	0.220	0.495	0.031	0.035	0.009	0.000	0.000	0.000	0.000	1380.41	
29	0.7590	1181.2	1202.1	1201.6	0.920	6.544	65.889	19.748	6.092	0.225	0.506	0.032	0.036	0.009	0.000	0.000	0.000	0.000	1379.85	
30	0.7603	1181.8	1202.8	1202.4	0.912	6.639	65.762	19.670	6.175	0.231	0.530	0.034	0.038	0.009	0.000	0.000	0.000	0.000	1379.40	
31	0.7598	1183.3	1204.2	1203.8	0.927	6.479	65.825	19.842	6.081	0.232	0.533	0.033	0.038	0.009	0.000	0.000	0.000	0.000	1381.56	
Avg	0.7476	1175.0	1195.4	1195.0	0.925	5.881	67.299	19.916	5.268	0.194	0.448	0.029	0.033	0.008	0.000	0.000	0.000	0.000	1382.69	

Source Daily Summary

May 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	0.7572	1175.2	1196.1	1195.8	0.928	6.729	65.954	19.709	5.930	0.210	0.472	0.029	0.032	0.006	0.000	0.000	0.000	0.000	1374.52	
2	0.7585	1177.3	1198.2	1197.9	0.926	6.727	65.804	19.771	5.997	0.216	0.487	0.031	0.034	0.007	0.000	0.000	0.000	0.000	1375.78	
3	0.7587	1177.5	1198.3	1198.0	0.925	6.736	65.793	19.758	6.002	0.221	0.492	0.031	0.035	0.007	0.000	0.000	0.000	0.000	1375.77	
4	0.7581	1176.5	1197.4	1197.1	0.927	6.735	65.863	19.723	5.982	0.216	0.484	0.030	0.033	0.007	0.000	0.000	0.000	0.000	1375.20	
5	0.7589	1177.3	1198.2	1197.8	0.929	6.759	65.754	19.754	6.028	0.219	0.488	0.030	0.033	0.006	0.000	0.000	0.000	0.000	1375.41	
6	0.7584	1177.2	1198.1	1197.8	0.923	6.730	65.972	19.489	6.070	0.228	0.513	0.033	0.036	0.007	0.000	0.000	0.000	0.000	1375.71	
7	0.7540	1168.4	1189.1	1188.7	0.918	6.856	67.061	18.246	5.949	0.260	0.617	0.040	0.044	0.008	0.000	0.000	0.000	0.000	1369.39	
8	0.7603	1177.0	1197.8	1197.5	0.914	6.931	66.020	18.958	6.205	0.259	0.616	0.041	0.046	0.009	0.000	0.000	0.000	0.000	1373.71	
9	0.7423	1163.6	1184.2	1183.8	0.931	6.037	68.071	19.236	5.055	0.182	0.420	0.028	0.033	0.008	0.000	0.000	0.000	0.000	1374.51	
10	0.7513	1169.6	1190.4	1190.0	0.933	6.507	66.919	19.256	5.616	0.216	0.485	0.030	0.032	0.006	0.000	0.000	0.000	0.000	1373.35	
11	0.7635	1188.2	1209.2	1208.8	0.928	6.533	65.472	19.808	6.328	0.256	0.581	0.040	0.045	0.009	0.000	0.000	0.000	0.000	1383.82	
12	0.7578	1176.9	1197.7	1197.4	0.926	6.689	66.129	19.378	6.039	0.230	0.526	0.035	0.040	0.009	0.000	0.000	0.000	0.000	1375.86	
13	0.7596	1180.7	1201.6	1201.2	0.930	6.617	65.739	19.840	6.075	0.218	0.503	0.033	0.037	0.008	0.000	0.000	0.000	0.000	1378.69	
14	0.7613	1183.7	1204.7	1204.3	0.931	6.591	65.570	19.901	6.174	0.224	0.526	0.036	0.040	0.008	0.000	0.000	0.000	0.000	1380.67	
15	0.7600	1181.4	1202.3	1201.9	0.934	6.610	65.650	19.923	6.097	0.210	0.498	0.033	0.037	0.008	0.000	0.000	0.000	0.000	1379.10	
16	0.7593	1180.2	1201.1	1200.7	0.936	6.611	65.739	19.884	6.055	0.208	0.490	0.032	0.036	0.007	0.000	0.000	0.000	0.000	1378.38	
17	0.7588	1179.5	1200.3	1200.0	0.936	6.613	65.804	19.836	6.040	0.207	0.489	0.032	0.036	0.007	0.000	0.000	0.000	0.000	1377.95	
18	0.7595	1179.6	1200.5	1200.2	0.931	6.675	65.708	19.828	6.072	0.211	0.497	0.033	0.037	0.008	0.000	0.000	0.000	0.000	1377.52	
19	0.7583	1176.0	1196.8	1196.5	0.929	6.789	65.835	19.662	6.017	0.210	0.487	0.031	0.034	0.007	0.000	0.000	0.000	0.000	1374.36	
20	0.7602	1179.4	1200.3	1199.9	0.926	6.759	65.700	19.653	6.128	0.234	0.525	0.032	0.036	0.007	0.000	0.000	0.000	0.000	1376.64	
21	0.7579	1173.0	1193.8	1193.4	0.916	6.952	65.850	19.525	5.987	0.218	0.484	0.029	0.032	0.006	0.000	0.000	0.000	0.000	1371.21	
22	0.7570	1172.5	1193.2	1192.8	0.923	6.885	65.880	19.650	5.965	0.205	0.437	0.024	0.025	0.004	0.000	0.000	0.000	0.000	1371.46	
23	0.7568	1173.7	1194.5	1194.2	0.922	6.795	66.016	19.580	5.931	0.217	0.474	0.028	0.031	0.005	0.000	0.000	0.000	0.000	1373.07	
24	0.7584	1176.1	1196.9	1196.5	0.920	6.807	65.846	19.608	6.044	0.220	0.485	0.030	0.033	0.006	0.000	0.000	0.000	0.000	1374.34	
25	0.7609	1181.2	1202.1	1201.7	0.932	6.709	65.596	19.763	6.179	0.233	0.516	0.032	0.035	0.006	0.000	0.000	0.000	0.000	1378.06	
26	0.7606	1179.9	1200.8	1200.4	0.926	6.763	65.647	19.674	6.168	0.232	0.516	0.032	0.036	0.007	0.000	0.000	0.000	0.000	1376.90	
27	0.7611	1182.2	1203.1	1202.8	0.929	6.671	65.589	19.780	6.213	0.231	0.513	0.032	0.036	0.007	0.000	0.000	0.000	0.000	1379.07	
28	0.7601	1180.0	1200.9	1200.6	0.930	6.702	65.760	19.619	6.165	0.233	0.516	0.032	0.036	0.007	0.000	0.000	0.000	0.000	1377.49	
29	0.7644	1184.3	1205.2	1204.8	0.913	6.876	65.143	19.808	6.402	0.240	0.539	0.034	0.038	0.007	0.000	0.000	0.000	0.000	1378.51	
30	0.7621	1184.5	1205.5	1205.1	0.936	6.608	65.600	19.714	6.250	0.247	0.563	0.036	0.040	0.008	0.000	0.000	0.000	0.000	1380.90	
31	0.7596	1177.6	1198.4	1198.1	0.942	6.791	65.657	19.774	6.051	0.222	0.491	0.031	0.034	0.007	0.000	0.000	0.000	0.000	1375.05	
Avg	0.7585	1178.0	1198.6	1198.3	0.927	6.703	65.908	19.616	6.039	0.224	0.507	0.032	0.036	0.007	0.000	0.000	0.000	0.000	1376.21	

Gas Composition and Properties

Effective October 1, 2021

Attachment B
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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

May 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	0.7212	1169.7	1190.4	1190.1	0.951	3.670	70.481	21.287	3.102	0.133	0.317	0.024	0.028	0.007	0.000	0.000	0.000	0.000	1401.70	
2	0.7189	1166.4	1187.1	1186.8	0.951	3.644	70.801	21.146	2.966	0.128	0.306	0.023	0.028	0.007	0.000	0.000	0.000	0.000	1400.11	
3	0.7172	1168.4	1189.1	1188.8	0.945	3.378	70.906	21.532	2.793	0.117	0.278	0.021	0.025	0.006	0.000	0.000	0.000	0.000	1404.13	
4	0.7209	1170.6	1191.4	1191.1	0.950	3.580	70.550	21.294	3.144	0.127	0.300	0.022	0.027	0.006	0.000	0.000	0.000	0.000	1403.17	
5	0.7194	1165.1	1185.7	1185.4	0.951	3.775	70.875	20.744	3.163	0.128	0.308	0.023	0.028	0.007	0.000	0.000	0.000	0.000	1397.97	
6	0.7250	1176.0	1196.8	1196.5	0.945	3.650	70.067	21.332	3.521	0.128	0.302	0.022	0.026	0.006	0.000	0.000	0.000	0.000	1405.53	
7	0.7271	1178.9	1199.8	1199.5	0.950	3.655	69.726	21.614	3.549	0.133	0.317	0.023	0.027	0.006	0.000	0.000	0.000	0.000	1407.08	
8	0.7188	1163.3	1183.9	1183.6	0.934	3.857	70.953	20.606	3.156	0.128	0.308	0.024	0.028	0.006	0.000	0.000	0.000	0.000	1396.33	
9	0.7173	1163.5	1184.1	1183.8	0.963	3.655	71.149	20.771	2.965	0.128	0.308	0.024	0.030	0.007	0.000	0.000	0.000	0.000	1398.14	
10	0.7268	1150.4	1170.8	1170.5	0.977	5.330	68.919	21.310	2.993	0.122	0.294	0.022	0.026	0.007	0.000	0.000	0.000	0.000	1373.42	
11	0.7294	1174.8	1195.6	1195.3	1.004	4.047	69.115	21.901	3.426	0.131	0.318	0.024	0.028	0.007	0.000	0.000	0.000	0.000	1399.97	
12	0.7268	1172.5	1193.2	1192.9	1.008	3.942	69.489	21.793	3.271	0.128	0.311	0.024	0.028	0.007	0.000	0.000	0.000	0.000	1399.63	
13	0.7236	1168.0	1188.7	1188.4	1.004	3.925	69.900	21.613	3.083	0.123	0.295	0.023	0.027	0.007	0.000	0.000	0.000	0.000	1397.35	
14	0.7274	1172.9	1193.6	1193.3	1.001	3.984	69.444	21.706	3.364	0.130	0.314	0.023	0.028	0.006	0.000	0.000	0.000	0.000	1399.55	
15	0.7257	1170.1	1190.8	1190.5	0.997	3.991	69.893	21.171	3.452	0.127	0.310	0.024	0.028	0.007	0.000	0.000	0.000	0.000	1397.88	
16	0.7219	1164.5	1185.1	1184.8	1.000	3.976	70.435	20.866	3.238	0.124	0.302	0.023	0.028	0.007	0.000	0.000	0.000	0.000	1394.77	
17	0.7237	1164.1	1184.7	1184.4	0.980	4.199	70.123	20.885	3.298	0.133	0.321	0.025	0.029	0.007	0.000	0.000	0.000	0.000	1392.62	
18	0.7278	1177.8	1198.7	1198.4	0.969	3.764	69.664	21.467	3.620	0.135	0.323	0.024	0.028	0.006	0.000	0.000	0.000	0.000	1405.02	
19	0.7223	1166.4	1187.0	1186.7	0.960	3.954	70.506	20.711	3.342	0.138	0.330	0.024	0.029	0.006	0.000	0.000	0.000	0.000	1396.71	
20	0.7223	1166.8	1187.5	1187.2	0.960	3.927	70.451	20.856	3.280	0.137	0.328	0.025	0.029	0.007	0.000	0.000	0.000	0.000	1397.25	
21	0.7228	1170.6	1191.4	1191.1	0.964	3.742	70.309	21.217	3.257	0.132	0.318	0.024	0.028	0.007	0.000	0.000	0.000	0.000	1401.27	
22	0.7230	1170.3	1191.0	1190.7	0.962	3.780	70.308	21.154	3.279	0.134	0.324	0.024	0.028	0.007	0.000	0.000	0.000	0.000	1400.72	
23	0.7235	1173.0	1193.7	1193.4	0.964	3.663	70.186	21.418	3.259	0.133	0.318	0.024	0.028	0.006	0.000	0.000	0.000	0.000	1403.40	
24	0.7203	1165.4	1186.1	1185.7	0.959	3.832	70.758	20.725	3.216	0.132	0.317	0.025	0.030	0.007	0.000	0.000	0.000	0.000	1397.52	
25	0.7207	1164.3	1184.9	1184.6	0.958	3.935	70.792	20.495	3.295	0.137	0.328	0.025	0.030	0.007	0.000	0.000	0.000	0.000	1395.73	
26	0.7205	1167.5	1188.2	1187.9	0.964	3.708	70.695	20.967	3.167	0.129	0.310	0.024	0.030	0.007	0.000	0.000	0.000	0.000	1399.86	
27	0.7212	1168.4	1189.1	1188.8	0.962	3.728	70.626	20.922	3.258	0.131	0.314	0.024	0.028	0.007	0.000	0.000	0.000	0.000	1400.16	
28	0.7204	1166.6	1187.3	1187.0	0.965	3.762	70.710	20.865	3.191	0.131	0.316	0.024	0.029	0.007	0.000	0.000	0.000	0.000	1398.84	
29	0.7188	1166.0	1186.7	1186.3	0.968	3.636	70.883	21.001	3.027	0.124	0.301	0.024	0.029	0.007	0.000	0.000	0.000	0.000	1399.64	
30	0.7140	1154.5	1175.0	1174.6	0.964	3.897	71.552	20.326	2.781	0.123	0.298	0.024	0.028	0.007	0.000	0.000	0.000	0.000	1390.49	
31	0.7170	1159.1	1179.6	1179.3	0.962	3.902	71.256	20.324	3.051	0.130	0.313	0.024	0.029	0.008	0.000	0.000	0.000	0.000	1393.07	
Avg	0.7221	1168.0	1188.3	1188.0	0.967	3.854	70.372	21.097	3.210	0.129	0.311	0.024	0.028	0.007	0.000	0.000	0.000	0.000	1398.36	

Source Daily Summary

May 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	0.7565	1178.9	1199.7	1198.8	0.879	6.522	66.169	19.664	5.995	0.212	0.490	0.030	0.031	0.008	0.000	0.000	0.000	0.000	1379.34	
2	0.7572	1179.8	1200.7	1199.8	0.878	6.528	66.111	19.666	6.030	0.215	0.500	0.031	0.033	0.009	0.000	0.000	0.000	0.000	1379.83	
3	0.7569	1179.1	1199.9	1199.1	0.877	6.552	66.131	19.643	6.011	0.217	0.499	0.030	0.032	0.009	0.000	0.000	0.000	0.000	1379.20	
4	0.7568	1179.0	1199.9	1199.0	0.878	6.536	66.161	19.630	6.014	0.216	0.496	0.029	0.031	0.008	0.000	0.000	0.000	0.000	1379.31	
5	0.7571	1178.7	1199.6	1198.8	0.879	6.582	66.120	19.596	6.039	0.217	0.497	0.030	0.031	0.008	0.000	0.000	0.000	0.000	1378.67	
6	0.7571	1179.7	1200.6	1199.7	0.877	6.530	66.259	19.422	6.081	0.228	0.527	0.032	0.035	0.010	0.000	0.000	0.000	0.000	1379.77	
7	0.7543	1173.8	1194.6	1193.8	0.874	6.623	67.117	18.361	6.024	0.262	0.644	0.040	0.043	0.011	0.000	0.000	0.000	0.000	1375.47	
8	0.7587	1180.0	1200.8	1199.9	0.866	6.673	66.404	18.838	6.221	0.263	0.640	0.041	0.044	0.011	0.000	0.000	0.000	0.000	1378.62	
9	0.7397	1164.9	1185.5	1184.6	0.882	5.791	68.380	19.368	4.951	0.175	0.405	0.022	0.022	0.005	0.000	0.000	0.000	0.000	1378.44	
10	0.7488	1170.6	1191.4	1190.4	0.886	6.285	67.382	19.102	5.571	0.212	0.495	0.029	0.031	0.007	0.000	0.000	0.000	0.000	1376.80	
11	0.7631	1191.8	1212.9	1212.0	0.881	6.345	65.768	19.568	6.459	0.263	0.616	0.041	0.045	0.013	0.000	0.000	0.000	0.000	1388.40	
12	0.7561	1178.4	1199.3	1198.3	0.880	6.505	66.482	19.220	6.077	0.227	0.532	0.032	0.035	0.009	0.000	0.000	0.000	0.000	1379.18	
13	0.7575	1181.3	1202.2	1201.3	0.882	6.458	66.215	19.513	6.109	0.220	0.525	0.033	0.035	0.010	0.000	0.000	0.000	0.000	1381.33	
14	0.7600	1186.0	1207.0	1206.1	0.883	6.407	65.931	19.669	6.255	0.225	0.546	0.035	0.038	0.011	0.000	0.000	0.000	0.000	1384.49	
15	0.7578	1181.9	1202.8	1201.9	0.887	6.444	66.095	19.666	6.118	0.207	0.506	0.032	0.034	0.010	0.000	0.000	0.000	0.000	1381.71	
16	0.7581	1182.5	1203.4	1202.5	0.889	6.429	66.063	19.706	6.121	0.209	0.508	0.032	0.035	0.010	0.000	0.000	0.000	0.000	1382.20	
17	0.7584	1183.3	1204.2	1203.3	0.889	6.412	66.045	19.703	6.147	0.212	0.514	0.032	0.035	0.010	0.000	0.000	0.000	0.000	1382.76	
18	0.7580	1181.5	1202.5	1201.5	0.883	6.486	66.051	19.682	6.102	0.210	0.509	0.032	0.034	0.010	0.000	0.000	0.000	0.000	1381.16	
19	0.7568	1178.1	1198.9	1198.0	0.883	6.593	66.170	19.526	6.053	0.208	0.497	0.030	0.032	0.008	0.000	0.000	0.000	0.000	1378.12	
20	0.7588	1181.6	1202.5	1201.6	0.880	6.571	66.024	19.511	6.169	0.234	0.538	0.032	0.034	0.009	0.000	0.000	0.000	0.000	1380.41	
21	0.7556	1175.5	1196.4	1195.4	0.884	6.632	66.362	19.305	6.072	0.229	0.456	0.026	0.027	0.008	0.000	0.000	0.000	0.000	1376.28	
22	0.7563	1175.5	1196.3	1195.4	0.888	6.698	66.140	19.516	6.020	0.212	0.466	0.025	0.026	0.008	0.000	0.000	0.000	0.000	1375.55	
23	0.7531	1171.3	1192.0	1191.2	0.882	6.658	66.590	19.313	5.826	0.208	0.465	0.025	0.026	0.006	0.000	0.000	0.000	0.000	1373.60	
24	0.7552	1172.8	1193.6	1192.7	0.916	6.711	66.256	19.508	5.872	0.213	0.460	0.027	0.028	0.010	0.000	0.000	0.000	0.000	1373.46	
25	0.7586	1181.5	1202.4	1201.6	0.883	6.542	66.040	19.537	6.177	0.228	0.521	0.031	0.032	0.008	0.000	0.000	0.000	0.000	1380.60	
26	0.7592	1182.3	1203.2	1202.4	0.878	6.569	65.956	19.552	6.211	0.232	0.528	0.032	0.034	0.009	0.000	0.000	0.000	0.000	1380.86	
27	0.7600	1184.8	1205.8	1204.9	0.880	6.482	65.883	19.646	6.277	0.232	0.527	0.032	0.034	0.009	0.000	0.000	0.000	0.000	1383.12	
28	0.7591	1183.0	1203.9	1203.1	0.883	6.505	66.035	19.499	6.238	0.234	0.532	0.032	0.034	0.009	0.000	0.000	0.000	0.000	1381.80	
29	0.7625	1186.1	1207.1	1206.2	0.870	6.656	65.625	19.508	6.452	0.243	0.564	0.035	0.037	0.010	0.000	0.000	0.000	0.000	1382.30	
30	0.7602	1186.0	1207.0	1206.0	0.890	6.408	65.999	19.540	6.263	0.245	0.572	0.034	0.037	0.010	0.000	0.000	0.000	0.000	1384.34	
31	0.7583	1180.0	1200.9	1199.9	0.896	6.598	65.993	19.593	6.121	0.223	0.507	0.030	0.032	0.008	0.000	0.000	0.000	0.000	1378.97	
Avg	0.7570	1180.0	1200.5	1199.7	0.883	6.507	66.257	19.470	6.067	0.224	0.519	0.031	0.033	0.009	0.000	0.000	0.000	0.000	1379.87	

Source Daily Summary

May 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	0.7580	1178.7	1199.6	1199.4	0.916	6.616	65.877	19.844	5.980	0.215	0.478	0.031	0.033	0.011	0.000	0.000	0.000	0.000	1377.81	
2	0.7566	1175.8	1196.6	1195.7	0.916	6.659	66.046	19.723	5.916	0.209	0.462	0.029	0.031	0.010	0.000	0.000	0.000	0.000	1375.69	
3	0.7587	1179.8	1200.7	1199.6	0.917	6.613	65.817	19.835	6.039	0.217	0.486	0.031	0.033	0.011	0.000	0.000	0.000	0.000	1378.44	
4	0.7584	1178.8	1199.7	1198.6	0.915	6.649	65.845	19.795	6.017	0.219	0.484	0.031	0.033	0.012	0.000	0.000	0.000	0.000	1377.55	
5	0.7579	1178.2	1199.1	1198.0	0.916	6.637	65.914	19.760	6.004	0.218	0.479	0.030	0.032	0.011	0.000	0.000	0.000	0.000	1377.33	
6	0.7578	1177.4	1198.2	1197.2	0.918	6.676	65.906	19.739	5.999	0.217	0.475	0.030	0.031	0.009	0.000	0.000	0.000	0.000	1376.43	
7	0.7594	1180.9	1201.8	1200.8	0.916	6.609	65.775	19.800	6.109	0.224	0.491	0.032	0.034	0.011	0.000	0.000	0.000	0.000	1379.15	
8	0.7568	1175.6	1196.4	1195.3	0.912	6.691	66.630	18.725	6.073	0.261	0.612	0.040	0.043	0.012	0.000	0.000	0.000	0.000	1375.27	
9	0.7557	1172.4	1193.2	1192.2	0.910	6.788	66.703	18.645	6.015	0.255	0.591	0.038	0.041	0.012	0.000	0.000	0.000	0.000	1372.55	
10	0.7463	1170.1	1190.8	1189.7	0.911	6.054	67.630	19.333	5.336	0.204	0.462	0.029	0.030	0.010	0.000	0.000	0.000	0.000	1378.36	
11	0.7469	1168.3	1189.0	1187.9	0.926	6.195	67.431	19.407	5.339	0.198	0.443	0.026	0.027	0.007	0.000	0.000	0.000	0.000	1375.76	
12	0.7637	1189.7	1210.8	1209.7	0.920	6.466	65.595	19.655	6.395	0.265	0.600	0.042	0.046	0.016	0.000	0.000	0.000	0.000	1385.48	
13	0.7579	1179.0	1199.9	1198.9	0.920	6.578	66.148	19.433	6.095	0.230	0.517	0.033	0.035	0.012	0.000	0.000	0.000	0.000	1378.28	
14	0.7569	1177.3	1198.2	1197.1	0.920	6.583	66.194	19.518	5.987	0.220	0.499	0.032	0.035	0.011	0.000	0.000	0.000	0.000	1377.25	
15	0.7626	1187.8	1208.9	1207.8	0.920	6.477	65.465	19.995	6.296	0.229	0.532	0.036	0.039	0.012	0.000	0.000	0.000	0.000	1384.33	
16	0.7606	1184.2	1205.2	1204.1	0.925	6.507	65.626	19.966	6.190	0.213	0.497	0.032	0.034	0.010	0.000	0.000	0.000	0.000	1381.88	
17	0.7599	1183.0	1204.0	1202.8	0.926	6.515	65.705	19.936	6.134	0.211	0.494	0.033	0.036	0.010	0.000	0.000	0.000	0.000	1381.11	
18	0.7593	1182.2	1203.1	1202.0	0.929	6.508	65.775	19.916	6.094	0.211	0.490	0.032	0.034	0.011	0.000	0.000	0.000	0.000	1380.65	
19	0.7601	1182.7	1203.7	1202.6	0.923	6.556	65.684	19.906	6.133	0.215	0.501	0.033	0.036	0.012	0.000	0.000	0.000	0.000	1380.58	
20	0.7586	1178.5	1199.4	1198.3	0.923	6.669	65.838	19.740	6.064	0.210	0.484	0.031	0.033	0.010	0.000	0.000	0.000	0.000	1377.09	
21	0.7599	1180.8	1201.7	1200.5	0.918	6.662	65.783	19.653	6.157	0.234	0.515	0.032	0.034	0.011	0.000	0.000	0.000	0.000	1378.49	
22	0.7565	1174.2	1195.0	1193.8	0.911	6.760	66.122	19.488	5.943	0.223	0.486	0.028	0.030	0.009	0.000	0.000	0.000	0.000	1373.87	
23	0.7254	1146.1	1166.3	1165.2	0.844	5.652	71.121	16.902	4.909	0.167	0.361	0.020	0.021	0.002	0.000	0.000	0.000	0.000	1369.56	
24	0.7558	1173.9	1194.6	1193.5	0.916	6.704	66.186	19.545	5.903	0.215	0.466	0.027	0.028	0.010	0.000	0.000	0.000	0.000	1374.13	
25	0.7599	1180.6	1201.5	1200.3	0.915	6.676	65.727	19.729	6.154	0.228	0.499	0.030	0.032	0.010	0.000	0.000	0.000	0.000	1378.30	
26	0.7598	1180.8	1201.7	1200.6	0.922	6.644	65.763	19.706	6.164	0.229	0.501	0.031	0.032	0.009	0.000	0.000	0.000	0.000	1378.66	
27	0.7610	1182.7	1203.7	1202.6	0.917	6.648	65.630	19.751	6.224	0.235	0.517	0.032	0.035	0.010	0.000	0.000	0.000	0.000	1379.79	
28	0.7611	1184.0	1204.9	1203.8	0.917	6.582	65.627	19.806	6.249	0.232	0.510	0.032	0.034	0.011	0.000	0.000	0.000	0.000	1381.13	
29	0.7604	1182.5	1203.4	1202.3	0.922	6.596	65.775	19.653	6.228	0.235	0.514	0.032	0.035	0.010	0.000	0.000	0.000	0.000	1380.06	
30	0.7639	1185.9	1206.9	1205.8	0.909	6.732	65.284	19.797	6.417	0.243	0.536	0.034	0.037	0.010	0.000	0.000	0.000	0.000	1380.94	
31	0.7609	1184.6	1205.5	1204.4	0.919	6.523	65.813	19.576	6.317	0.235	0.537	0.034	0.036	0.011	0.000	0.000	0.000	0.000	1382.01	
Avg	0.7573	1179.0	1199.5	1198.4	0.916	6.556	66.143	19.557	6.028	0.223	0.501	0.032	0.034	0.010	0.000	0.000	0.000	0.000	1378.32	

Source Daily Summary

May 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	0.7579	1178.6	1199.5	1199.3	0.917	6.608	65.899	19.836	5.972	0.216	0.479	0.031	0.033	0.011	0.000	0.000	0.000	0.000	1377.83	
2	0.7577	1177.9	1198.7	1198.1	0.916	6.638	65.917	19.785	5.985	0.213	0.474	0.030	0.032	0.010	0.000	0.000	0.000	0.000	1377.11	
3	0.7589	1180.1	1201.0	1200.2	0.918	6.608	65.809	19.835	6.046	0.218	0.489	0.032	0.034	0.011	0.000	0.000	0.000	0.000	1378.62	
4	0.7589	1179.5	1200.4	1199.6	0.916	6.645	65.797	19.819	6.038	0.221	0.488	0.031	0.033	0.012	0.000	0.000	0.000	0.000	1377.98	
5	0.7581	1178.4	1199.3	1198.4	0.917	6.635	65.904	19.763	6.008	0.219	0.481	0.030	0.032	0.011	0.000	0.000	0.000	0.000	1377.44	
6	0.7580	1177.5	1198.4	1198.5	0.919	6.678	65.888	19.746	6.004	0.217	0.477	0.030	0.031	0.009	0.000	0.000	0.000	0.000	1376.47	
7	0.7599	1181.7	1202.6	1201.8	0.917	6.604	65.718	19.832	6.132	0.226	0.495	0.032	0.035	0.011	0.000	0.000	0.000	0.000	1379.63	
8	0.7569	1175.7	1196.5	1195.8	0.913	6.692	66.614	18.736	6.076	0.261	0.611	0.041	0.043	0.012	0.000	0.000	0.000	0.000	1375.32	
9	0.7567	1174.1	1194.9	1194.2	0.910	6.777	66.608	18.673	6.073	0.261	0.604	0.039	0.042	0.012	0.000	0.000	0.000	0.000	1373.60	
10	0.7465	1170.5	1191.2	1190.6	0.913	6.043	67.608	19.354	5.343	0.205	0.465	0.029	0.030	0.010	0.000	0.000	0.000	0.000	1378.71	
11	0.7527	1176.0	1196.8	1196.1	0.910	6.285	66.886	19.363	5.730	0.228	0.520	0.033	0.035	0.010	0.000	0.000	0.000	0.000	1379.53	
12	0.7638	1189.9	1211.0	1210.3	0.921	6.458	65.575	19.685	6.395	0.265	0.598	0.042	0.045	0.016	0.000	0.000	0.000	0.000	1385.67	
13	0.7580	1179.2	1200.1	1199.5	0.920	6.577	66.127	19.452	6.096	0.231	0.517	0.033	0.035	0.012	0.000	0.000	0.000	0.000	1378.39	
14	0.7573	1178.1	1199.0	1198.3	0.921	6.576	66.145	19.543	6.010	0.222	0.504	0.033	0.035	0.012	0.000	0.000	0.000	0.000	1377.74	
15	0.7623	1187.2	1208.2	1207.6	0.921	6.485	65.510	19.959	6.278	0.229	0.532	0.036	0.039	0.012	0.000	0.000	0.000	0.000	1383.89	
16	0.7597	1182.5	1203.5	1202.8	0.926	6.524	65.741	19.898	6.127	0.211	0.494	0.033	0.035	0.010	0.000	0.000	0.000	0.000	1380.73	
17	0.7590	1181.2	1202.1	1201.3	0.928	6.534	65.804	19.891	6.073	0.208	0.485	0.032	0.035	0.010	0.000	0.000	0.000	0.000	1379.85	
18	0.7576	1178.8	1199.7	1199.0	0.929	6.550	65.965	19.812	5.992	0.205	0.473	0.031	0.032	0.010	0.000	0.000	0.000	0.000	1378.28	
19	0.7597	1182.0	1202.9	1202.2	0.923	6.564	65.727	19.886	6.108	0.213	0.497	0.033	0.035	0.012	0.000	0.000	0.000	0.000	1380.08	
20	0.7575	1176.5	1197.3	1197.0	0.923	6.689	65.961	19.678	5.997	0.206	0.474	0.030	0.032	0.010	0.000	0.000	0.000	0.000	1375.73	
21	0.7593	1179.6	1200.5	1200.1	0.919	6.677	65.851	19.608	6.124	0.232	0.511	0.032	0.034	0.011	0.000	0.000	0.000	0.000	1377.69	
22	0.7564	1173.9	1194.7	1194.3	0.911	6.765	66.143	19.469	5.936	0.222	0.486	0.028	0.030	0.009	0.000	0.000	0.000	0.000	1373.64	
23	0.7255	1146.1	1166.4	1166.1	0.844	5.656	71.103	16.911	4.913	0.167	0.361	0.020	0.021	0.002	0.000	0.000	0.000	0.000	1369.56	
24	0.7553	1172.9	1193.6	1193.3	0.916	6.716	66.244	19.509	5.875	0.213	0.462	0.027	0.028	0.010	0.000	0.000	0.000	0.000	1373.43	
25	0.7596	1180.1	1201.0	1200.6	0.916	6.682	65.760	19.706	6.136	0.228	0.498	0.031	0.033	0.011	0.000	0.000	0.000	0.000	1377.94	
26	0.7594	1180.0	1200.9	1200.5	0.922	6.655	65.816	19.669	6.140	0.228	0.498	0.031	0.032	0.009	0.000	0.000	0.000	0.000	1378.04	
27	0.7604	1181.4	1202.3	1202.0	0.917	6.666	65.708	19.703	6.184	0.233	0.512	0.032	0.035	0.010	0.000	0.000	0.000	0.000	1378.86	
28	0.7606	1183.0	1203.9	1203.6	0.918	6.596	65.684	19.768	6.220	0.231	0.506	0.032	0.034	0.011	0.000	0.000	0.000	0.000	1380.41	
29	0.7599	1181.5	1202.4	1202.0	0.922	6.609	65.836	19.611	6.201	0.234	0.511	0.032	0.034	0.011	0.000	0.000	0.000	0.000	1379.37	
30	0.7626	1184.4	1205.3	1204.6	0.913	6.702	65.464	19.728	6.340	0.240	0.531	0.034	0.037	0.011	0.000	0.000	0.000	0.000	1380.26	
31	0.7601	1183.2	1204.1	1203.4	0.921	6.526	65.928	19.612	6.133	0.240	0.557	0.034	0.037	0.011	0.000	0.000	0.000	0.000	1381.14	
Avg	0.7573	1178.0	1199.3	1198.7	0.916	6.562	66.153	19.543	6.022	0.224	0.503	0.032	0.034	0.011	0.000	0.000	0.000	0.000	1378.16	

Source Daily Summary

May 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	1178.3	1199.1	1198.7	0.879	6.529	66.199	19.651	5.976	0.210	0.486	0.029	0.031	0.008	0.000	0.000	0.000	0.000	1378.93	
2	0.7573	1180.2	1201.1	1200.6	0.878	6.516	66.098	19.681	6.039	0.215	0.501	0.031	0.033	0.008	0.000	0.000	0.000	0.000	1380.16	
3	0.7402	1163.4	1184.0	1183.6	0.906	5.891	68.526	18.906	5.107	0.183	0.420	0.025	0.027	0.008	0.000	0.000	0.000	0.000	1376.37	
4	0.7471	1170.2	1190.9	1190.4	0.892	6.150	67.533	19.219	5.496	0.196	0.450	0.027	0.028	0.008	0.000	0.000	0.000	0.000	1377.86	
5	0.7566	1177.9	1198.7	1198.1	0.879	6.586	66.180	19.571	6.007	0.215	0.493	0.029	0.031	0.008	0.000	0.000	0.000	0.000	1378.13	
6	0.7570	1179.3	1200.2	1199.7	0.877	6.543	66.260	19.418	6.080	0.226	0.522	0.032	0.034	0.009	0.000	0.000	0.000	0.000	1379.44	
7	0.7545	1174.2	1195.0	1194.4	0.874	6.620	67.066	18.424	6.022	0.261	0.640	0.040	0.043	0.011	0.000	0.000	0.000	0.000	1375.69	
8	0.7584	1179.0	1199.9	1199.3	0.867	6.696	66.450	18.781	6.211	0.263	0.638	0.040	0.043	0.012	0.000	0.000	0.000	0.000	1377.85	
9	0.7411	1167.1	1187.7	1187.1	0.881	5.794	68.226	19.411	5.032	0.181	0.422	0.024	0.024	0.006	0.000	0.000	0.000	0.000	1379.67	
10	0.7476	1169.5	1190.2	1189.6	0.887	6.245	67.501	19.122	5.494	0.206	0.481	0.028	0.029	0.007	0.000	0.000	0.000	0.000	1376.53	
11	0.7628	1191.1	1212.2	1211.4	0.882	6.356	65.812	19.529	6.441	0.263	0.617	0.041	0.045	0.013	0.000	0.000	0.000	0.000	1387.91	
12	0.7565	1179.1	1200.0	1199.3	0.881	6.494	66.434	19.258	6.097	0.228	0.533	0.032	0.035	0.009	0.000	0.000	0.000	0.000	1379.71	
13	0.7570	1180.4	1201.3	1200.5	0.882	6.467	66.286	19.457	6.086	0.220	0.523	0.033	0.035	0.010	0.000	0.000	0.000	0.000	1380.69	
14	0.7601	1186.1	1207.1	1206.4	0.883	6.408	65.922	19.670	6.259	0.226	0.547	0.035	0.038	0.011	0.000	0.000	0.000	0.000	1384.54	
15	0.7580	1182.2	1203.2	1202.6	0.888	6.440	66.072	19.682	6.129	0.208	0.507	0.032	0.034	0.009	0.000	0.000	0.000	0.000	1381.94	
16	0.7581	1182.5	1203.5	1202.8	0.888	6.431	66.055	19.710	6.121	0.209	0.508	0.032	0.034	0.010	0.000	0.000	0.000	0.000	1382.19	
17	0.7585	1183.4	1204.3	1203.6	0.889	6.410	66.036	19.711	6.151	0.212	0.514	0.032	0.035	0.010	0.000	0.000	0.000	0.000	1382.85	
18	0.7582	1182.1	1203.0	1202.4	0.884	6.478	66.024	19.699	6.115	0.211	0.512	0.032	0.035	0.010	0.000	0.000	0.000	0.000	1381.54	
19	0.7570	1178.4	1199.3	1198.7	0.884	6.586	66.147	19.546	6.061	0.208	0.498	0.030	0.032	0.009	0.000	0.000	0.000	0.000	1378.40	
20	0.7588	1181.5	1202.5	1201.8	0.880	6.570	66.026	19.512	6.169	0.233	0.536	0.032	0.034	0.009	0.000	0.000	0.000	0.000	1380.40	
21	0.7545	1173.6	1194.4	1193.7	0.886	6.639	66.452	19.377	5.882	0.213	0.489	0.026	0.028	0.009	0.000	0.000	0.000	0.000	1375.06	
22	0.7562	1175.3	1196.1	1195.4	0.889	6.700	66.147	19.514	6.019	0.211	0.462	0.025	0.026	0.008	0.000	0.000	0.000	0.000	1375.40	
23	0.7537	1172.6	1193.4	1192.8	0.880	6.638	66.530	19.344	5.865	0.211	0.473	0.026	0.027	0.006	0.000	0.000	0.000	0.000	1374.57	
24	0.7588	1181.6	1202.5	1202.0	0.877	6.572	65.958	19.611	6.169	0.227	0.517	0.030	0.032	0.008	0.000	0.000	0.000	0.000	1380.46	
25	0.7584	1181.2	1202.1	1201.4	0.883	6.546	66.058	19.530	6.167	0.227	0.518	0.030	0.032	0.008	0.000	0.000	0.000	0.000	1380.35	
26	0.7594	1182.5	1203.5	1202.9	0.878	6.566	65.939	19.563	6.218	0.232	0.530	0.032	0.034	0.009	0.000	0.000	0.000	0.000	1381.04	
27	0.7600	1184.8	1205.7	1205.0	0.880	6.483	65.881	19.649	6.274	0.231	0.527	0.032	0.034	0.009	0.000	0.000	0.000	0.000	1383.09	
28	0.7592	1183.1	1204.0	1203.4	0.884	6.502	66.029	19.504	6.242	0.233	0.531	0.032	0.034	0.009	0.000	0.000	0.000	0.000	1381.89	
29	0.7628	1186.6	1207.6	1206.8	0.870	6.646	65.583	19.551	6.463	0.243	0.563	0.034	0.037	0.010	0.000	0.000	0.000	0.000	1382.72	
30	0.7602	1185.9	1206.9	1206.2	0.890	6.413	66.016	19.504	6.271	0.246	0.577	0.035	0.038	0.010	0.000	0.000	0.000	0.000	1384.27	
31	0.7584	1180.1	1201.0	1200.3	0.896	6.596	65.978	19.603	6.127	0.223	0.507	0.030	0.032	0.008	0.000	0.000	0.000	0.000	1379.09	
Avg	0.7562	1179.0	1200.0	1199.4	0.883	6.468	66.369	19.442	6.025	0.222	0.517	0.031	0.033	0.009	0.000	0.000	0.000	0.000	1379.96	

Source Daily Summary

May 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	0.6578	1083.6	1102.8	1102.5	1.035	2.840	80.421	14.819	0.818	0.023	0.043	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1359.65
2	0.6619	1091.0	1110.4	1110.1	1.021	2.787	79.613	15.669	0.843	0.023	0.043	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1364.83
3	0.6645	1095.0	1114.4	1114.1	1.016	2.801	79.109	16.121	0.887	0.023	0.043	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1367.09
4	0.6648	1095.5	1114.9	1114.6	1.018	2.799	79.068	16.141	0.908	0.023	0.043	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1367.35
5	0.6650	1095.7	1115.1	1114.8	1.023	2.797	79.071	16.104	0.933	0.026	0.045	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1367.41
6	0.6660	1096.8	1116.2	1115.9	1.016	2.838	78.852	16.276	0.949	0.024	0.044	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1367.73
7	0.6672	1098.6	1118.1	1117.8	1.022	2.829	78.569	16.613	0.898	0.024	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1368.79
8	0.6679	1100.5	1120.0	1119.7	1.008	2.805	78.449	16.746	0.910	0.027	0.053	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1370.37
9	0.6657	1098.0	1117.4	1117.1	1.004	2.754	78.788	16.563	0.830	0.021	0.039	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1369.52
10	0.6631	1094.6	1114.0	1113.6	1.006	2.715	79.311	16.087	0.821	0.020	0.039	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1367.93
11	0.6624	1094.4	1113.8	1113.4	0.999	2.665	79.437	16.047	0.797	0.019	0.036	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1368.51
12	0.6620	1094.3	1113.7	1113.3	0.996	2.638	79.496	16.041	0.767	0.021	0.040	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1368.83
13	0.6616	1093.2	1112.5	1112.5	1.010	2.651	79.602	15.902	0.767	0.023	0.044	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1367.78
14	0.6583	1085.2	1104.4	1104.1	1.036	2.790	80.333	14.962	0.805	0.025	0.048	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1361.13
15	0.6592	1083.2	1102.4	1102.1	1.077	2.936	80.062	15.125	0.744	0.021	0.037	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1357.73
16	0.6563	1080.2	1099.3	1099.0	1.050	2.884	80.630	14.645	0.733	0.020	0.037	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1356.94
17	0.6569	1084.0	1103.2	1102.9	1.026	2.746	80.554	14.828	0.781	0.023	0.041	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1361.15
18	0.6554	1081.7	1100.9	1100.5	0.989	2.799	80.945	14.318	0.870	0.026	0.050	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1359.78
19	0.6657	1090.5	1109.8	1109.4	0.992	3.223	79.397	14.892	1.350	0.044	0.092	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.000	1360.22
20	0.6581	1082.7	1101.9	1101.5	1.009	2.961	80.552	14.386	0.990	0.032	0.065	0.003	0.003	0.000	0.000	0.000	0.000	0.000	0.000	1358.29
21	0.6554	1080.8	1100.0	1099.5	0.993	2.841	80.963	14.252	0.867	0.027	0.054	0.001	0.002	0.000	0.000	0.000	0.000	0.000	0.000	1358.73
22	0.6531	1080.9	1100.1	1099.6	0.983	2.641	81.245	14.354	0.712	0.022	0.042	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1361.17
23	0.6548	1082.6	1101.7	1101.4	0.986	2.689	81.071	14.348	0.812	0.031	0.060	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1361.55
24	0.6579	1084.9	1104.1	1103.7	1.010	2.806	80.398	14.899	0.806	0.027	0.052	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1361.24
25	0.6546	1081.2	1100.3	1099.9	1.004	2.729	80.986	14.477	0.737	0.023	0.043	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1360.00
26	0.6520	1076.8	1095.9	1095.6	1.003	2.756	81.511	13.918	0.745	0.023	0.044	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1357.18
27	0.6524	1077.0	1096.1	1095.7	1.005	2.776	81.476	13.895	0.777	0.024	0.046	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1357.01
28	0.6522	1076.1	1095.2	1094.7	1.008	2.807	81.552	13.754	0.803	0.026	0.049	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1356.08
29	0.6528	1078.1	1097.2	1096.7	0.987	2.768	81.450	13.897	0.815	0.028	0.052	0.001	0.002	0.000	0.000	0.000	0.000	0.000	0.000	1358.05
30	0.6513	1077.2	1096.3	1095.8	0.996	2.678	81.723	13.736	0.791	0.026	0.048	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1358.36
31	0.6521	1078.3	1097.4	1096.9	1.011	2.657	81.584	13.894	0.779	0.025	0.049	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1358.98
Avg	0.6590	1087.0	1106.1	1105.8	1.011	2.787	80.200	15.087	0.840	0.025	0.047	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1362.56

Source Daily Summary

May 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	0.6823	1120.3	1140.1	1139.7	0.517	3.682	76.110	17.572	1.961	0.055	0.094	0.005	0.004	0.000	0.000	0.000	0.000	0.000	1380.35	
2	0.6864	1126.9	1146.9	1146.4	0.569	3.592	75.547	17.987	2.112	0.064	0.117	0.007	0.006	0.000	0.000	0.000	0.000	0.000	1384.27	
3	0.6914	1136.6	1156.7	1156.2	0.551	3.503	74.661	18.850	2.233	0.066	0.122	0.007	0.006	0.000	0.000	0.000	0.000	0.000	1391.04	
4	0.6878	1131.9	1151.9	1151.4	0.512	3.503	75.241	18.425	2.133	0.061	0.112	0.007	0.006	0.000	0.000	0.000	0.000	0.000	1388.98	
5	0.6745	1112.8	1132.5	1132.0	0.483	3.470	77.344	16.904	1.667	0.044	0.080	0.005	0.005	0.000	0.000	0.000	0.000	0.000	1378.89	
6	0.6759	1115.2	1134.9	1134.5	0.602	3.271	77.096	17.351	1.549	0.041	0.079	0.005	0.005	0.001	0.000	0.000	0.000	0.000	1380.46	
7	0.6781	1118.6	1138.4	1138.0	0.647	3.198	76.835	17.549	1.602	0.050	0.103	0.007	0.007	0.001	0.000	0.000	0.000	0.000	1382.48	
8	0.6788	1120.3	1140.2	1139.7	0.630	3.187	76.632	17.816	1.573	0.049	0.099	0.007	0.007	0.001	0.000	0.000	0.000	0.000	1383.88	
9	0.6806	1121.9	1141.8	1141.3	0.548	3.378	76.602	17.358	1.896	0.064	0.133	0.009	0.010	0.002	0.000	0.000	0.000	0.000	1384.04	
10	0.6830	1126.5	1146.5	1145.9	0.497	3.403	76.300	17.458	2.101	0.070	0.145	0.010	0.011	0.002	0.000	0.000	0.000	0.000	1387.21	
11	0.6782	1120.2	1140.0	1139.5	0.485	3.356	76.973	17.112	1.869	0.060	0.124	0.009	0.010	0.002	0.000	0.000	0.000	0.000	1384.33	
12	0.6623	1088.1	1107.4	1106.9	0.656	3.556	80.068	13.960	1.538	0.063	0.135	0.010	0.011	0.002	0.000	0.000	0.000	0.000	1360.68	
13	0.6780	1114.5	1134.2	1133.7	0.608	3.493	77.036	16.894	1.754	0.061	0.130	0.010	0.011	0.003	0.000	0.000	0.000	0.000	1377.54	
14	0.6785	1116.6	1136.4	1135.9	0.469	3.625	76.817	17.052	1.832	0.059	0.125	0.009	0.009	0.002	0.000	0.000	0.000	0.000	1379.62	
15	0.6747	1110.2	1129.9	1129.4	0.575	3.502	77.484	16.593	1.675	0.053	0.104	0.007	0.007	0.001	0.000	0.000	0.000	0.000	1375.51	
16	0.6774	1115.2	1134.9	1134.5	0.518	3.533	76.938	17.085	1.777	0.048	0.090	0.005	0.005	0.001	0.000	0.000	0.000	0.000	1378.99	
17	0.6774	1117.4	1137.2	1136.7	0.474	3.470	76.889	17.262	1.740	0.052	0.098	0.006	0.006	0.001	0.000	0.000	0.000	0.000	1381.68	
18	0.6802	1122.7	1142.5	1142.0	0.399	3.526	76.423	17.571	1.907	0.056	0.106	0.006	0.006	0.001	0.000	0.000	0.000	0.000	1385.32	
19	0.6817	1124.9	1144.8	1144.2	0.430	3.486	76.179	17.812	1.903	0.061	0.114	0.007	0.007	0.001	0.000	0.000	0.000	0.000	1386.53	
20	0.6914	1141.4	1161.6	1161.0	0.452	3.353	74.384	19.598	2.009	0.065	0.124	0.008	0.007	0.001	0.000	0.000	0.000	0.000	1397.03	
21	0.6962	1154.0	1174.4	1173.8	0.377	3.153	73.315	20.955	2.028	0.053	0.103	0.007	0.007	0.001	0.000	0.000	0.000	0.000	1407.55	
22	0.7023	1156.3	1176.7	1176.1	0.539	3.345	72.448	21.230	2.242	0.066	0.118	0.006	0.005	0.000	0.000	0.000	0.000	0.000	1404.15	
23	0.7040	1157.1	1177.6	1177.1	0.672	3.246	72.384	21.184	2.268	0.077	0.151	0.009	0.008	0.001	0.000	0.000	0.000	0.000	1403.55	
24	0.6856	1125.8	1145.7	1145.2	0.596	3.541	75.643	18.051	1.960	0.065	0.128	0.008	0.008	0.001	0.000	0.000	0.000	0.000	1383.74	
25	0.6847	1125.4	1145.3	1144.8	0.575	3.518	75.816	17.905	1.977	0.065	0.127	0.008	0.008	0.001	0.000	0.000	0.000	0.000	1384.08	
26	0.6813	1119.3	1139.1	1138.6	0.583	3.553	76.375	17.430	1.871	0.060	0.114	0.007	0.007	0.001	0.000	0.000	0.000	0.000	1380.07	
27	0.6872	1128.0	1147.9	1147.4	0.580	3.582	75.592	17.806	2.206	0.076	0.144	0.008	0.007	0.001	0.000	0.000	0.000	0.000	1384.78	
28	0.6837	1121.5	1141.4	1140.8	0.525	3.733	76.119	17.254	2.156	0.071	0.130	0.006	0.005	0.000	0.000	0.000	0.000	0.000	1380.35	
29	0.6828	1118.5	1138.3	1137.6	0.533	3.824	76.205	17.157	2.074	0.068	0.126	0.007	0.006	0.000	0.000	0.000	0.000	0.000	1377.49	
30	0.6818	1118.5	1138.4	1137.7	0.467	3.822	76.207	17.345	1.975	0.061	0.110	0.007	0.006	0.001	0.000	0.000	0.000	0.000	1378.64	
31	0.6837	1121.4	1141.3	1140.7	0.531	3.726	75.937	17.639	1.958	0.068	0.127	0.007	0.007	0.001	0.000	0.000	0.000	0.000	1380.28	
Avg	0.6830	1124.0	1144.0	1143.5	0.535	3.488	76.052	17.812	1.921	0.060	0.116	0.007	0.007	0.001	0.000	0.000	0.000	0.000	1384.31	

Source Daily Summary

May 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	0.6862	1152.1	1172.5	1170.9	0.000	2.914	73.343	23.056	0.663	0.008	0.014	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1415.46	-26.16
2	0.6858	1151.9	1172.3	1170.6	0.000	2.894	73.417	23.008	0.659	0.008	0.014	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1415.56	-26.33
3	0.6854	1151.0	1171.4	1169.6	0.000	2.908	73.482	22.941	0.646	0.008	0.014	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1414.91	-26.61
4	0.6858	1151.5	1171.9	1170.2	0.000	2.908	73.434	22.973	0.660	0.009	0.015	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1415.20	-26.40
5	0.6846	1149.5	1169.9	1168.5	0.000	2.920	73.595	22.876	0.587	0.007	0.012	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1413.94	-27.33
6	0.6838	1148.3	1168.6	1166.8	0.000	2.920	73.684	22.863	0.516	0.006	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1413.24	-28.07
7	0.6844	1149.6	1170.0	1168.3	0.000	2.896	73.605	22.928	0.554	0.007	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1414.26	-27.55
8	0.6841	1149.1	1169.5	1167.6	0.000	2.901	73.667	22.845	0.569	0.007	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1413.92	-27.64
9	0.6856	1151.2	1171.6	1170.0	0.000	2.912	73.458	22.949	0.658	0.008	0.013	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1414.98	-26.50
10	0.6850	1150.1	1170.5	1168.7	0.000	2.925	73.570	22.825	0.664	0.007	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1414.22	-26.96
11	0.6851	1150.4	1170.8	1169.2	0.000	2.916	73.586	22.789	0.686	0.008	0.013	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1414.48	-26.66
12	0.6850	1150.3	1170.7	1169.1	0.000	2.911	73.598	22.796	0.671	0.008	0.013	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1414.47	-26.75
13	0.6866	1153.0	1173.4	1171.8	0.000	2.898	73.345	22.986	0.748	0.008	0.013	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1416.13	-25.63
14	0.6849	1150.3	1170.6	1169.1	0.000	2.906	73.614	22.788	0.668	0.008	0.014	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1414.49	-26.78
15	0.6840	1148.6	1168.9	1167.1	0.000	2.925	73.714	22.737	0.608	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1413.36	-27.68
16	0.6833	1147.4	1167.7	1166.0	0.000	2.930	73.875	22.565	0.610	0.007	0.012	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1412.63	-27.94
17	0.6843	1148.9	1169.2	1167.5	0.000	2.936	73.683	22.734	0.625	0.008	0.013	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1413.40	-27.35
18	0.6833	1147.3	1167.6	1165.7	0.000	2.937	73.848	22.613	0.582	0.007	0.012	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1412.49	-28.04
19	0.6841	1148.6	1168.9	1167.2	0.000	2.932	73.732	22.690	0.625	0.008	0.013	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1413.28	-27.43
20	0.6845	1149.0	1169.3	1167.8	0.000	2.941	73.696	22.678	0.659	0.009	0.016	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1413.40	-27.10
21	0.6845	1149.0	1169.4	1167.9	0.000	2.944	73.643	22.759	0.638	0.007	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1413.40	-27.35
22	0.6844	1149.1	1169.5	1167.7	0.000	2.929	73.693	22.705	0.650	0.008	0.014	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1413.60	-27.17
23	0.6842	1148.7	1169.0	1167.6	0.000	2.934	73.719	22.694	0.630	0.008	0.014	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1413.32	-27.36
24	0.6848	1149.5	1169.9	1168.2	0.000	2.936	73.617	22.778	0.645	0.008	0.014	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1413.76	-27.02
25	0.6847	1149.6	1169.9	1168.0	0.000	2.928	73.638	22.758	0.653	0.008	0.013	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1413.87	-27.01
26	0.6849	1150.2	1170.5	1168.9	0.000	2.912	73.582	22.842	0.649	0.007	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1414.38	-27.04
27	0.6834	1148.6	1169.0	1167.7	0.000	2.863	73.815	22.743	0.556	0.008	0.013	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1414.06	-27.89
28	0.6824	1148.1	1168.4	1166.8	0.000	2.803	73.952	22.739	0.491	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1414.41	-28.70
29	0.6833	1150.4	1170.8	1169.1	0.000	2.745	73.800	22.927	0.514	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1416.37	-28.00
30	0.6847	1152.9	1173.3	1171.8	0.000	2.721	73.574	23.130	0.555	0.007	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1418.03	-26.97
31	0.6848	1153.2	1173.7	1172.2	0.000	2.715	73.577	23.104	0.583	0.008	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1418.27	-26.77
Avg	0.6846	1150.0	1170.3	1168.6	0.000	2.895	73.631	22.833	0.620	0.007	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1414.43	-27.17

Source Daily Summary

May 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	0.6296	1034.8	1053.1	1052.6	0.755	3.580	85.629	9.329	0.649	0.021	0.033	0.002	0.002	0.000	0.000	0.000	0.000	0.000	1327.28	
2	0.6313	1037.1	1055.5	1055.0	0.764	3.592	85.309	9.599	0.677	0.021	0.034	0.002	0.002	0.000	0.000	0.000	0.000	0.000	1328.38	
3	0.6041	1003.0	1020.7	1020.3	0.469	3.562	90.233	5.331	0.368	0.015	0.018	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1313.22	
4	0.5722	963.1	980.1	979.6	0.111	3.529	96.030	0.306	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.73	
5	0.6075	1005.6	1023.4	1022.7	0.514	3.652	89.611	5.784	0.401	0.016	0.021	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1313.04	
6	0.6546	1070.1	1089.1	1088.4	0.941	3.505	81.139	13.286	1.044	0.029	0.050	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1346.01	
7	0.6562	1073.2	1092.2	1091.7	0.931	3.475	80.891	13.511	1.104	0.030	0.052	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1348.34	
8	0.6568	1074.4	1093.4	1092.9	0.926	3.473	80.808	13.551	1.152	0.031	0.054	0.003	0.003	0.001	0.000	0.000	0.000	0.000	1349.12	
9	0.6121	1015.9	1033.9	1033.3	0.491	3.491	88.842	6.574	0.553	0.020	0.027	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1321.37	
10	0.5721	963.2	980.3	979.6	0.111	3.512	96.045	0.307	0.016	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1296.04	
11	0.5721	963.2	980.2	979.4	0.111	3.517	96.044	0.305	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.95	
12	0.6065	1007.6	1025.5	1024.7	0.440	3.548	89.825	5.682	0.463	0.018	0.022	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1316.61	
13	0.6497	1062.6	1081.4	1080.5	0.946	3.493	81.962	12.649	0.880	0.024	0.041	0.002	0.002	0.001	0.000	0.000	0.000	0.000	1341.62	
14	0.6484	1059.3	1078.1	1077.3	0.963	3.538	82.210	12.379	0.839	0.024	0.041	0.002	0.002	0.001	0.000	0.000	0.000	0.000	1338.92	
15	0.6471	1057.6	1076.3	1075.5	0.940	3.563	82.411	12.207	0.808	0.024	0.041	0.002	0.002	0.001	0.000	0.000	0.000	0.000	1337.96	
16	0.6412	1049.9	1068.5	1067.6	0.876	3.569	83.531	11.169	0.784	0.024	0.041	0.003	0.002	0.001	0.000	0.000	0.000	0.000	1334.41	
17	0.6449	1054.5	1073.2	1072.3	0.948	3.527	82.892	11.751	0.807	0.026	0.044	0.003	0.003	0.001	0.000	0.000	0.000	0.000	1336.40	
18	0.6478	1058.1	1076.8	1076.0	0.982	3.530	82.332	12.267	0.818	0.024	0.041	0.002	0.002	0.001	0.000	0.000	0.000	0.000	1337.94	
19	0.6470	1058.0	1076.7	1075.9	0.973	3.482	82.482	12.170	0.822	0.024	0.041	0.002	0.002	0.001	0.000	0.000	0.000	0.000	1338.55	
20	0.6157	1018.6	1036.7	1036.0	0.618	3.473	88.175	7.187	0.500	0.018	0.026	0.002	0.001	0.000	0.000	0.000	0.000	0.000	1321.09	
21	0.5721	963.3	980.4	979.8	0.112	3.506	96.050	0.309	0.016	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1296.15	
22	0.5721	963.2	980.2	979.6	0.110	3.517	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	
23	0.5722	962.9	979.9	979.4	0.109	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	1295.45	
24	0.5722	963.0	980.1	979.5	0.109	3.533	96.030	0.304	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.68	
25	0.5753	967.8	985.0	984.3	0.129	3.502	95.461	0.842	0.057	0.008	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1298.63	
26	0.6163	1021.7	1039.8	1039.0	0.480	3.552	87.919	7.501	0.517	0.010	0.017	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1324.43	
27	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	
28	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	
29	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	
30	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	
31	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	
Avg	0.6207	1025.0	1042.9	1042.3	0.639	3.534	87.233	7.985	0.559	0.019	0.027	0.002	0.002	0.000	0.000	0.000	0.000	0.000	1323.73	

May-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	
5/1/2024	5/2/2024	3,632	4,012	1102.9	1,893	2,270	1199.1	1135.860	5/1/2024
5/2/2024	5/3/2024	7,828	8,693	1111.4	2,504	3,009	1201.1	1133.139	5/2/2024
5/3/2024	5/4/2024	6,759	7,522	1112.6	2,677	3,175	1184	1132.856	5/3/2024
5/4/2024	5/5/2024	7,726	8,598	1,113	1,954	2,325	1190.9	1128.565	5/4/2024
5/5/2024	5/6/2024	0	0	0	1,342	1,609	1198.7	1198.700	5/5/2024
5/6/2024	5/7/2024	0	0	0	1,602	1,923	1200.2	1200.200	5/6/2024
5/7/2024	5/8/2024	0	0	0	1,811	2,163	1195	1195.000	5/7/2024
5/8/2024	5/9/2024	0	0	0	1,504	1,805	1199.9	1199.900	5/8/2024
5/9/2024	5/10/2024	0	0	0	1,150	1,366	1187.7	1187.700	5/9/2024
5/10/2024	5/11/2024	0	0	0	1,079	1,285	1190.2	1190.200	5/10/2024
5/11/2024	5/12/2024	0	0	0	815	987	1212.2	1212.200	5/11/2024
5/12/2024	5/13/2024	0	0	0	993	1,192	1200	1200.000	5/12/2024
5/13/2024	5/14/2024	0	0	0	1,053	1,264	1201.3	1201.300	5/13/2024
5/14/2024	5/15/2024	0	0	0	1,033	1,247	1207.1	1207.100	5/14/2024
5/15/2024	5/16/2024	0	0	0	1,474	1,774	1203.2	1203.200	5/15/2024
5/16/2024	5/17/2024	0	0	0	1,150	1,385	1203.5	1203.500	5/16/2024
5/17/2024	5/18/2024	0	0	0	982	1,182	1204.3	1204.300	5/17/2024
5/18/2024	5/19/2024	0	0	0	1,100	1,324	1203	1203.000	5/18/2024
5/19/2024	5/20/2024	0	0	0	1,225	1,470	1199.3	1199.300	5/19/2024
5/20/2024	5/21/2024	0	0	0	1,248	1,501	1202.5	1202.500	5/20/2024
5/21/2024	5/22/2024	0	0	0	1,169	1,398	1194.4	1194.400	5/21/2024
5/22/2024	5/23/2024	0	0	0	1,016	1,215	1196.1	1196.100	5/22/2024
5/23/2024	5/24/2024	0	0	0	1,271	1,519	1193.4	1193.400	5/23/2024
5/24/2024	5/25/2024	0	0	0	2,089	2,513	1202.5	1202.500	5/24/2024
5/25/2024	5/26/2024	0	0	0	1,127	1,354	1202.1	1202.100	5/25/2024
5/26/2024	5/27/2024	0	0	0	1,099	1,323	1203.5	1203.500	5/26/2024
5/27/2024	5/28/2024	0	0	0	1,095	1,320	1205.7	1205.700	5/27/2024
5/28/2024	5/29/2024	0	0	0	1,160	1,397	1204	1204.000	5/28/2024
5/29/2024	5/30/2024	0	0	0	1,024	1,237	1207.6	1207.600	5/29/2024
5/30/2024	5/31/2024	0	0	0	1,093	1,319	1206.9	1206.900	5/30/2024
5/31/2024	6/1/2024	0	0	0	985	1,183	1201	1201.000	5/31/2024
		25,945	28,825	143.2161	41,717	50,034	1200.0129	1192.1200	



Alliance Pipeline

DAILY ANALYSIS --- USA
 ND07MD1 --- Hankinson Sales
 May 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	1,148.638	0.6577	84.4700	9.8956	3.2060	0.3370	0.5485	0.0585	0.0449	0.0159	1.0327	0.3812	0.0098
2	1,149.043	0.6572	84.5720	9.8617	3.2129	0.3323	0.5468	0.0588	0.0454	0.0154	0.9581	0.3869	0.0097
3	1,148.368	0.6565	84.6605	9.8453	3.1641	0.3350	0.5395	0.0589	0.0465	0.0167	0.9423	0.3819	0.0094
4	1,148.619	0.6570	84.6176	9.8428	3.1734	0.3412	0.5467	0.0602	0.0464	0.0168	0.9581	0.3876	0.0094
5	1,150.353	0.6586	84.4807	9.8239	3.2408	0.3530	0.5743	0.0651	0.0501	0.0188	0.9817	0.4020	0.0094
6	1,150.698	0.6583	84.4957	9.8679	3.2428	0.3480	0.5648	0.0612	0.0500	0.0188	0.9428	0.3985	0.0095
7	1,154.687	0.6614	84.0621	10.0821	3.3721	0.3555	0.5968	0.0625	0.0483	0.0188	0.9929	0.3998	0.0090
8	1,145.729	0.6539	85.1791	9.5345	3.0766	0.3354	0.5315	0.0599	0.0468	0.0178	0.7827	0.4256	0.0102
9	1,145.996	0.6544	85.1511	9.5152	3.0780	0.3411	0.5342	0.0639	0.0511	0.0229	0.7832	0.4493	0.0099
10	1,149.589	0.6581	84.7172	9.5827	3.2405	0.3628	0.5853	0.0677	0.0522	0.0245	0.9064	0.4510	0.0097
11	1,152.662	0.6601	84.5110	9.6396	3.3163	0.3829	0.6268	0.0707	0.0548	0.0240	0.9245	0.4400	0.0096
12	1,155.067	0.6625	84.1305	9.8303	3.4218	0.3832	0.6381	0.0696	0.0524	0.0228	0.9902	0.4516	0.0095
13	1,153.835	0.6613	84.2928	9.8142	3.3091	0.3911	0.6233	0.0745	0.0558	0.0261	0.9510	0.4534	0.0087
14	1,152.999	0.6606	84.4186	9.7506	3.2707	0.3930	0.6197	0.0740	0.0566	0.0270	0.9211	0.4600	0.0087
15	1,157.558	0.6625	84.2368	9.8746	3.3956	0.3927	0.6380	0.0753	0.0615	0.0305	0.8231	0.4630	0.0089
16	1,161.613	0.6649	83.9334	10.0203	3.5218	0.3951	0.6730	0.0790	0.0620	0.0291	0.8258	0.4515	0.0091
17	1,155.066	0.6609	84.1932	10.0644	3.3359	0.3525	0.5928	0.0669	0.0505	0.0239	0.8865	0.4243	0.0091
18	1,146.600	0.6556	84.8388	9.7405	3.1050	0.3231	0.5372	0.0602	0.0473	0.0202	0.8966	0.4220	0.0091
19	1,144.639	0.6546	84.9041	9.7330	3.0613	0.3124	0.5126	0.0576	0.0457	0.0193	0.9176	0.4273	0.0093
20	1,146.804	0.6556	84.7838	9.8148	3.1141	0.3167	0.5272	0.0580	0.0449	0.0188	0.8963	0.4157	0.0098
21	1,143.806	0.6536	85.1276	9.5665	3.0172	0.3265	0.5249	0.0584	0.0461	0.0207	0.8861	0.4162	0.0097
22	1,143.620	0.6541	85.0280	9.6066	3.0355	0.3192	0.5212	0.0586	0.0464	0.0204	0.9168	0.4375	0.0098
23	1,145.953	0.6559	84.7968	9.7054	3.1151	0.3273	0.5384	0.0585	0.0474	0.0210	0.9479	0.4331	0.0092
24	1,143.673	0.6536	85.0705	9.6395	3.0206	0.3184	0.5037	0.0574	0.0479	0.0205	0.8953	0.4168	0.0095
25	1,141.946	0.6522	85.2555	9.5489	2.9703	0.3154	0.4973	0.0547	0.0422	0.0192	0.8698	0.4161	0.0106
26	1,143.377	0.6538	85.0180	9.6825	3.0177	0.3274	0.4949	0.0548	0.0421	0.0180	0.8989	0.4367	0.0090
27	1,140.620	0.6521	85.2169	9.6296	2.8921	0.3174	0.4847	0.0545	0.0418	0.0189	0.8843	0.4500	0.0098
28	1,142.216	0.6527	85.1667	9.6082	2.9665	0.3208	0.5051	0.0539	0.0402	0.0169	0.8905	0.4214	0.0096
29	1,141.761	0.6522	85.2614	9.5300	2.9663	0.3248	0.4988	0.0545	0.0414	0.0167	0.8782	0.4185	0.0095
30	1,144.293	0.6546	84.9333	9.6634	3.0790	0.3206	0.5196	0.0552	0.0426	0.0165	0.9355	0.4251	0.0091
31	1,143.873	0.6542	85.0004	9.6231	3.0781	0.3195	0.5100	0.0545	0.0427	0.0169	0.9009	0.4447	0.0092
Volume	1,147.897	0.6566	84.7520	9.7283	3.1527	0.3418	0.5513	0.0617	0.0481	0.0205	0.9079	0.4263	0.0095
Weight Avg Energy	1,147.919	0.6566	84.7504	9.7288	3.1534	0.3419	0.5515	0.0618	0.0481	0.0205	0.9079	0.4263	0.0095



Alliance Pipeline

DAILY ANALYSIS --- USA
 ND14MD1 --- Milnor Sales
 May 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	1,148.668	0.6576	84.4923	9.8804	3.2068	0.3373	0.5503	0.0585	0.0446	0.0158	1.0249	0.3793	0.0098
2	1,148.867	0.6571	84.5984	9.8453	3.2072	0.3318	0.5459	0.0590	0.0459	0.0156	0.9547	0.3865	0.0097
3	1,148.453	0.6566	84.6433	9.8617	3.1618	0.3361	0.5388	0.0589	0.0465	0.0169	0.9452	0.3815	0.0094
4	1,148.758	0.6571	84.6010	9.8483	3.1793	0.3413	0.5481	0.0603	0.0465	0.0168	0.9580	0.3910	0.0094
5	1,149.871	0.6582	84.5192	9.8052	3.2266	0.3519	0.5715	0.0648	0.0496	0.0185	0.9831	0.4000	0.0095
6	1,151.828	0.6592	84.3949	9.9015	3.2922	0.3496	0.5713	0.0619	0.0501	0.0188	0.9409	0.4094	0.0094
7	1,153.455	0.6601	84.2247	10.0536	3.3019	0.3536	0.5803	0.0623	0.0491	0.0186	0.9482	0.3988	0.0089
8	1,144.304	0.6524	85.3845	9.4644	3.0165	0.3306	0.5135	0.0594	0.0470	0.0183	0.7312	0.4243	0.0103
9	1,147.417	0.6561	84.9286	9.5664	3.1458	0.3486	0.5575	0.0647	0.0511	0.0229	0.8542	0.4503	0.0098
10	1,150.182	0.6585	84.6847	9.5858	3.2554	0.3667	0.5932	0.0688	0.0529	0.0251	0.9032	0.4546	0.0096
11	1,152.848	0.6602	84.4869	9.6517	3.3234	0.3827	0.6282	0.0707	0.0547	0.0239	0.9284	0.4398	0.0096
12	1,155.103	0.6624	84.1420	9.8356	3.4195	0.3824	0.6343	0.0700	0.0528	0.0229	0.9819	0.4493	0.0094
13	1,153.839	0.6612	84.3116	9.8148	3.3002	0.3926	0.6220	0.0747	0.0563	0.0260	0.9451	0.4481	0.0086
14	1,153.065	0.6607	84.3896	9.7821	3.2678	0.3909	0.6172	0.0740	0.0564	0.0277	0.9165	0.4691	0.0088
15	1,158.374	0.6628	84.2026	9.8877	3.4221	0.3933	0.6437	0.0758	0.0622	0.0305	0.8132	0.4600	0.0088
16	1,161.521	0.6648	83.9460	10.0166	3.5225	0.3939	0.6718	0.0781	0.0611	0.0286	0.8254	0.4468	0.0091
17	1,153.846	0.6603	84.2564	10.0414	3.3013	0.3479	0.5828	0.0657	0.0498	0.0235	0.8964	0.4257	0.0091
18	1,146.107	0.6552	84.8803	9.7250	3.0901	0.3206	0.5332	0.0598	0.0472	0.0197	0.8921	0.4228	0.0092
19	1,144.282	0.6546	84.9010	9.7194	3.0634	0.3110	0.5121	0.0569	0.0448	0.0190	0.9332	0.4299	0.0093
20	1,146.921	0.6556	84.7960	9.8097	3.1112	0.3189	0.5287	0.0583	0.0452	0.0190	0.8887	0.4145	0.0098
21	1,143.492	0.6535	85.1340	9.5709	3.0109	0.3236	0.5201	0.0577	0.0458	0.0207	0.8853	0.4214	0.0098
22	1,144.069	0.6545	84.9726	9.6285	3.0512	0.3209	0.5258	0.0590	0.0466	0.0202	0.9311	0.4344	0.0097
23	1,145.757	0.6556	84.8289	9.6996	3.1019	0.3273	0.5356	0.0587	0.0472	0.0212	0.9377	0.4328	0.0092
24	1,143.095	0.6531	85.1182	9.6266	3.0021	0.3164	0.4982	0.0563	0.0467	0.0200	0.8912	0.4146	0.0096
25	1,141.849	0.6522	85.2619	9.5398	2.9701	0.3150	0.4972	0.0550	0.0424	0.0192	0.8706	0.4182	0.0105
26	1,143.720	0.6541	84.9627	9.7186	3.0288	0.3285	0.4936	0.0547	0.0419	0.0179	0.9013	0.4429	0.0091
27	1,140.225	0.6517	85.2659	9.6053	2.8748	0.3170	0.4857	0.0542	0.0414	0.0188	0.8835	0.4438	0.0097
28	1,142.587	0.6529	85.1574	9.6011	2.9835	0.3211	0.5078	0.0545	0.0409	0.0170	0.8888	0.4181	0.0097
29	1,141.450	0.6520	85.2823	9.5269	2.9565	0.3235	0.4953	0.0540	0.0410	0.0162	0.8734	0.4215	0.0095
30	1,144.671	0.6549	84.8842	9.6795	3.0951	0.3215	0.5225	0.0557	0.0431	0.0169	0.9438	0.4286	0.0091
31	1,144.109	0.6544	84.9725	9.6399	3.0867	0.3203	0.5110	0.0541	0.0421	0.0165	0.9052	0.4424	0.0092
Volume	1,148.950	0.6573	84.6746	9.7605	3.1836	0.3454	0.5595	0.0627	0.0489	0.0207	0.9095	0.4250	0.0094
Weight Avg Energy	1,148.970	0.6573	84.6732	9.7608	3.1841	0.3456	0.5598	0.0628	0.0489	0.0207	0.9096	0.4250	0.0094

May-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		
5/1/2024	5/2/2024	202	242	1201.1	311	334	1075.1	1124.714	5/1/2024
5/2/2024	5/3/2024	208	249	1201.1	395	425	1075.1	1118.563	5/2/2024
5/3/2024	5/4/2024	224	269	1201.1	482	518	1075.1	1115.077	5/3/2024
5/4/2024	5/5/2024	186	223	1201.1	286	307	1075.1	1124.753	5/4/2024
5/5/2024	5/6/2024	128	153	1201.1	134	144	1075.1	1136.657	5/5/2024
5/6/2024	5/7/2024	135	162	1201.1	224	241	1075.1	1122.482	5/6/2024
5/7/2024	5/8/2024	156	187	1201.1	291	313	1075.1	1119.073	5/7/2024
5/8/2024	5/9/2024	161	194	1201.1	242	260	1075.1	1125.437	5/8/2024
5/9/2024	5/10/2024	135	162	1201.1	185	199	1075.1	1128.256	5/9/2024
5/10/2024	5/11/2024	104	125	1201.1	122	131	1075.1	1133.082	5/10/2024
5/11/2024	5/12/2024	86	103	1201.1	109	117	1075.1	1130.669	5/11/2024
5/12/2024	5/13/2024	116	139	1201.1	128	138	1075.1	1135.002	5/12/2024
5/13/2024	5/14/2024	54	65	1201.1	119	128	1075.1	1114.429	5/13/2024
5/14/2024	5/15/2024	29	35	1201.1	150	161	1075.1	1095.513	5/14/2024
5/15/2024	5/16/2024	70	84	1201.1	156	168	1075.1	1114.127	5/15/2024
5/16/2024	5/17/2024	35	42	1201.1	117	126	1075.1	1104.113	5/16/2024
5/17/2024	5/18/2024	67	81	1201.1	110	119	1075.1	1122.795	5/17/2024
5/18/2024	5/19/2024	114	137	1201.1	153	164	1075.1	1128.898	5/18/2024
5/19/2024	5/20/2024	132	158	1201.1	172	185	1075.1	1129.811	5/19/2024
5/20/2024	5/21/2024	133	160	1201.1	309	332	1075.1	1113.014	5/20/2024
5/21/2024	5/22/2024	90	109	1201.1	157	169	1075.1	1121.011	5/21/2024
5/22/2024	5/23/2024	15	18	1201.1	152	163	1075.1	1086.417	5/22/2024
5/23/2024	5/24/2024	127	153	1201.1	306	329	1075.1	1112.056	5/23/2024
5/24/2024	5/25/2024	129	155	1201.1	219	236	1075.1	1121.807	5/24/2024
5/25/2024	5/26/2024	40	49	1201.1	116	125	1075.1	1107.408	5/25/2024
5/26/2024	5/27/2024	71	85	1201.1	126	135	1075.1	1120.511	5/26/2024
5/27/2024	5/28/2024	94	113	1201.1	151	162	1075.1	1123.443	5/27/2024
5/28/2024	5/29/2024	99	119	1201.1	128	137	1075.1	1130.052	5/28/2024
5/29/2024	5/30/2024	91	109	1201.1	128	138	1075.1	1127.456	5/29/2024
5/30/2024	5/31/2024	105	126	1201.1	190	204	1075.1	1119.947	5/30/2024
5/31/2024	6/1/2024	119	143	1201.1	142	152	1075.1	1132.548	5/31/2024
		3,455	4,149	1201.1000	6,010	6,460	1075.1000	1120.6168	

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	5/1/2024	5/2/2024	1102	0.6585	-42.6	1358.012304	1.0439	2.9062	79.8946	15.0809	0.8119	0.0219	0.0429	0.0024	0.0024	0	0	0.167	0.026	0.3863	0.0728	0.0624	0.0012
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	5/2/2024	5/3/2024	1112	0.6639	-39	1364.7511	1.0249	2.8691	78.8555	16.0983	0.8907	0.0219	0.0427	0.0023	0.0023	0	0	0.1668	0.0257	0.3599	0.0724	0.0628	0.001
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	5/3/2024	5/4/2024	1113	0.6645	-38.7	1365.36156	1.0249	2.8765	78.7454	16.223	0.8788	0.0216	0.0424	0.0023	0.0024	0	0	0.157	0.0258	0.3718	0.0731	0.0604	0.0011
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	5/4/2024	5/5/2024	1113	0.6648	-38.2	1365.053456	1.0297	2.8712	78.6183	16.2466	0.9235	0.0219	0.0428	0.0023	0.0023	0	0	0.2157	0.0259	0.3686	0.0753	0.0615	0.0011
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	5/5/2024	5/6/2024	1113	0.6653	-38	1364.540413	1.0354	2.8861	78.6444	16.2324	0.9445	0.0223	0.0436	0.0024	0.0024	0	0	0.161	0.0259	0.3818	0.0775	0.0657	0.0012
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	5/6/2024	5/7/2024	1115	0.6668	-37.1	1365.453993	1.0356	2.9124	78.3336	16.4974	0.9576	0.0224	0.0435	0.0023	0.0023	0	0	0.167	0.0261	0.3625	0.0756	0.0707	0.0012
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	5/7/2024	5/8/2024	1116	0.6674	-37.1	1366.064148	1.0374	2.9085	78.125	16.7825	0.8782	0.0219	0.0439	0.0025	0.0026	0	0	0.1715	0.0262	0.3469	0.0774	0.0736	0.0012
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	5/8/2024	5/9/2024	1118	0.6675	-36.4	1368.409777	1.0179	2.8763	78.0967	16.79	0.912	0.0258	0.0522	0.0028	0.0028	0	0	0.1979	0.0256	0.3556	0.0784	0.0715	0.0011
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	5/9/2024	5/10/2024	1115	0.6655	-38.2	1366.786994	1.0184	2.8178	78.443	16.6147	0.8407	0.0196	0.0387	0.0022	0.0023	0	0	0.1777	0.0251	0.3433	0.0793	0.071	0.0012
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	5/10/2024	5/11/2024	1111	0.6625	-40	1364.96375	1.0162	2.7893	79.0286	16.0752	0.8211	0.0189	0.0374	0.0021	0.0023	0	0	0.184	0.0252	0.3616	0.0771	0.063	0.0011
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	5/11/2024	5/12/2024	1112	0.6619	-40.2	1366.811414	1.0034	2.6999	79.1522	16.0938	0.7929	0.0188	0.0373	0.0022	0.0022	0	0	0.1725	0.025	0.3586	0.081	0.0712	0.0008
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	5/12/2024	5/13/2024	1111	0.6618	-40.2	1365.685434	1.0237	2.7132	79.1549	16.0736	0.7566	0.0204	0.0422	0.0027	0.003	0	0.0003	0.1845	0.0251	0.3625	0.0787	0.0664	0.0008
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	5/13/2024	5/14/2024	1107	0.6599	-41.3	1362.726046	1.0309	2.773	79.5754	15.5247	0.803	0.0229	0.0451	0.0024	0.0025	0	0	0.1949	0.0254	0.3787	0.0839	0.0743	0.0008
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	5/14/2024	5/15/2024	1100	0.6581	-42.8	1355.959567	1.0568	2.9546	79.8648	15.0067	0.795	0.0231	0.0454	0.0024	0.0024	0	0	0.2222	0.0266	0.3842	0.0868	0.0812	0.001
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	5/15/2024	5/16/2024	1099	0.6581	-43.8	1354.726877	1.0837	2.9819	79.8522	15.0772	0.729	0.0189	0.0351	0.0017	0.0016	0	0	0.1918	0.0269	0.3888	0.0765	0.0748	0.0012
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	5/16/2024	5/17/2024	1097	0.6563	-44.4	1354.114615	1.0609	2.9622	80.2403	14.6779	0.7687	0.0203	0.0386	0.002	0.002	0	0	0.2006	0.0267	0.3781	0.0773	0.0733	0.0012
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	5/17/2024	5/18/2024	1099	0.6546	-44.8	1358.34376	1.0092	2.7631	80.6573	14.5561	0.7684	0.021	0.0398	0.0021	0.0022	0	0	0.1552	0.0258	0.3977	0.0761	0.0698	0.0012
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	5/18/2024	5/19/2024	1096	0.6535	-45.6	1355.775427	1.0159	2.8608	80.8036	14.2859	0.7539	0.0213	0.0416	0.0024	0.0025	0	0	0.186	0.0262	0.4155	0.0778	0.0677	0.0012
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	5/19/2024	5/20/2024	1095	0.6533	-45.6	1354.745728	1.0176	2.8799	80.7953	14.2313	0.7623	0.0221	0.0433	0.0025	0.0025	0	0	0.2171	0.0261	0.3974	0.081	0.073	0.0012
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	5/20/2024	5/21/2024	1095	0.6528	-46	1355.264449	1.022	2.8566	80.9046	14.1717	0.7427	0.0218	0.0427	0.0024	0.0025	0	0	0.2069	0.0263	0.3999	0.0806	0.0711	0.0008
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	5/21/2024	5/22/2024	1096	0.6516	-46.3	1357.75064	0.9889	2.7424	81.0819	14.1451	0.726	0.0219	0.0428	0.0024	0.0026	0	0	0.221	0.0252	0.4064	0.0776	0.0681	0.0008
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	5/22/2024	5/23/2024	1099	0.654	-44.9	1358.96671	0.9953	2.7499	80.6437	14.5678	0.7397	0.0221	0.0431	0.0024	0.0024	0	0	0.2083	0.0253	0.3928	0.0746	0.0663	0.0008
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	5/23/2024	5/24/2024	1100	0.6555	-43	1358.646071	0.9984	2.8132	80.5003	14.5272	0.8366	0.0304	0.0625	0.0033	0.0032	0	0	0.1992	0.0259	0.3901	0.0737	0.0683	0.0008
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	5/24/2024	5/25/2024	1102	0.6576	-43.4	1358.941283	1.0216	2.8329	80.2279	15.0085	0.7596	0.0223	0.0438	0.0024	0.0024	0	0	0.058	0.0267	0.3672	0.0723	0.0662	0.0008
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	5/25/2024	5/26/2024	1096	0.6594	-45.9	1355.879171	1.0133	2.8452	81.0766	14.1421	0.7591	0.0224	0.0437	0.0025	0.0025	0	0	0.0668	0.026	0.3968	0.0758	0.0695	0.0008
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	5/26/2024	5/27/2024	1094	0.6517	-46.5	1355.16901	1.0056	2.8294	81.2194	13.9277	0.7575	0.0224	0.044	0.0025	0.0025	0	0	0.1636	0.0255	0.4115	0.1042	0.0722	0.0008
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	5/27/2024	5/28/2024	1095	0.653	-45.7	1355.056889	1.015	2.8762	81.0964	14.0048	0.7933	0.0237	0.0467	0.0026	0.0027	0	0	0.1121	0.0265	0.4096	0.1061	0.0722	0.0008
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	5/28/2024	5/29/2024	1094	0.6523	-45.9	1354.545609	1.0076	2.8763	81.2585	13.8133	0.8149	0.0249	0.0495	0.0028	0.0029	0	0	0.1233	0.0263	0.4002	0.1058	0.0697	0.0008
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	5/29/2024	5/30/2024	1096	0.6524	-45.1	1356.91792	0.9854	2.7613	81.214	13.9437	0.8436	0.026	0.0513	0.0029	0.003	0	0	0.1446	0.0246	0.4078	0.1042	0.0673	0.0008
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	5/30/2024	5/31/2024	1093	0.6507	-46.9	1354.970246	1.0138	2.7526	81.5529	13.691	0.7638	0.0239	0.0474	0.0027	0.0028	0	0	0.1259	0.0234	0.4071	0.1055	0.0673	0.0008
NBPL	3/31/2024 0:00	6/6/2024 0:00	GLNU1 - GLEN ULLIN	5/31/2024	6/1/2024	1096	0.6518	-46.6	1357.542317	1.0104	2.6658	81.3085	14.1109	0.7143	0.0208	0.0413	0.0024	0.0025	0	0	0.1028	0.0205	0.3995	1.589	0.0637	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	MAY24	APR24	MAR24	FEB24	JAN24	DEC23	NOV23	OCT23	SEP23	AUG23	JUL23	JUN23	ZONE
MT/ND	211	Sidney Border - MonDak Tfr - Sidney Plt	1191	1187	1184	1185	1187	1179	1192	1195	1194	1196	1198	1199	1195	211
ND	24	Williston Border - Charbonneau Station	1190	1184	1181	1181	1192	1197	1194	1194	1188	1188	1195	1195	1196	24
ND	25	Watford City West Border	1200	1201	1193	1194	1194	1198	1197	1198	1207	1212	1210	1210	1190	25
ND	28	Bismarck Station - Glen Ullin Station	1167	1200	1160	1147	1126	1131	1138	1161	1154	1202	1199	1194	1195	28
ND	31	Dickinson Brd - Belfield Trf - G Ullin Stn	1127	1106	1133	1147	1127	1127	1134	1147	1138	1121	1124	1118	1107	31
ND/MT	32	Cabin Creek Station - Belfield Transfer	1131	1144	1144	1116	1118	1122	1132	1138	1135	1135	1134	1124	1124	32
ND	33	Little Knife Plant	1174	1170	1173	1173	1171	1169	1168	1174	1173	1177	1181	1174	1180	33
ND	34	Badlands Plant/Bowman Border	1019	1043	1005	1027	1000	1094	1079	1017	980	984	980	980	1040	34
ND	43	Watford City East Border	1110	1075	1066	1085	1113	1127	1132	1154	1119	1124	1120	1118	1081	43
ND/MT	241	Fairview Border	1190	1172	1182	1186	1192	1185	1192	1198	1192	1195	1200	1193	1189	241
ND	267	North Tioga Transfer - Nesson Plant	1176	1193	1183	1187	1165	1166	1171	1169	1169	1166	1176	1181	1185	267
ND	261	Tioga Comp Station - Robinson Lake Plant	1193	1195	1196	1195	1192	1178	1201	1203	1203	1187	1191	1186	1189	261
ND	262	Minot Bdr - Palermo Bdr - Bismarck Stn	1198	1199	1195	1195	1196	1198	1202	1204	1206	1202	1197	1192	1193	262
ND	263	Lignite Plant	1131	1131	1131	1131	1131	1131	1131	1131	1131	1131	1131	1131	1131	263
ND	264	Epping Border	1189	1168	1176	1172	1193	1204	1206	1206	1191	1183	1195	1190	1181	264
ND	265	Tioga Comp Station - County Line Plant	1177	1188	1195	1192	1179	1169	1183	1175	1171	1174	1170	1165	1168	265
ND	266	County Line Plant	1179	1188	1195	1193	1181	1171	1184	1177	1172	1179	1171	1166	1168	266
ND	271	Bismarck Station - Cleveland Station	1197	1201	1198	1192	1183	1186	1201	1206	1204	1202	1199	1194	1195	271
ND	272	Cleveland Station - Mapleton	1196	1200	1197	1191	1183	1185	1200	1204	1205	1201	1199	1194	1194	272
ND	273	Cleveland Station - Grafton Border	1196	1199	1198	1191	1183	1186	1201	1205	1204	1202	1198	1194	1194	273
ND	550	Mandan Border / NBPL-St Anthony	1157	1192	1157	1146	1126	1124	1138	1161	1142	1188	1173	1172	1160	550
ND	610	MDU-Watford City BTU	1134	1121	1112	1118	1138	1150	1151	1167	1152	1150	1131	1123	1091	610
ND	802	NBPL - Linton	1107	1104	1109	1114	1114	1103	1114	1104	1106	1110	1105	1104	1102	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	1148	1146	1144	1144	1147	1146	1153	1149	1159	1155	1157	600
ND	601	Alliance Pipeline - Milnor	1150	1149	1148	1146	1144	1144	1147	1147	1154	1149	1160	1155	1157	601

THERMAL ZONE VARIANCE DOCUMENTATION		
May 2024		
<i>ZONE</i>	<i>BTU VARIANCE</i>	<i>REASON</i>
28	40	Operational
31	-27	Operational
34	38	Operational
550	35	Operational