



A Subsidiary of MDU Resources Group, Inc.

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

March 26, 2025

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

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

Mr. Kahl,

Montana-Dakota Utilities Co. herewith electronically submits the following information, pursuant to the Ordering paragraphs one and two of the Order issued in Case No. 11,006, dated October 20, 1987 and pursuant to the North Dakota Administrative Code 69-09-01-02, part 2.

1. Attachment A is a schedule showing the thermal billing factors by community that reflect the BTU values shown on Attachment B and were used for billing purposes in February 2025.
2. Attachment B consists of copies of the monthly Heating Value Test Reports received from our suppliers for the month of January 2025.
3. Attachment C is a listing which states the type of measuring device in place at each zone.
4. Attachment D is a monthly list of the heating value data, by zone, for the most recent 12-month period and an average thereof. It is being provided pursuant to a Staff request.
5. Attachment E provides a brief explanation of the thermal variances, where applicable, for the month of January 2025.

Montana-Dakota respectfully requests this electronic filing, in lieu of an original and one copy, be accepted as being in full compliance with the filing requirements of this Commission.

Sincerely,

/s/ Travis R. Jacobson

Travis R. Jacobson
Vice President of Regulatory Affairs

Montana-Dakota Utilities Co.
Therm Billing Factors - North Dakota
Feb-25

<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	1.1482
MDU-318-BEACH	032	1.0443
MDU-319-BELFIELD	032	1.0519
MDU-323-BERTHOLD	262	1.1419
MDU-327-BISMARCK	028	1.0961
MDU-330-BOWMAN	034	1.0128
MDU-337-BURLINGTON	262	1.1665
MDU-343-CARRINGTON	273	1.1472
MDU-719-CASSELTON	272	1.1563
MDU-344-CLEVELAND	272	1.1401
MDU-364-CAVALIER	273	1.1714
MDU-365-DAWSON	271	1.1401
MDU-368-DES LACS	262	1.1501
MDU-369-DICKINSON	031	1.0681
MDU-374-FT TOTTEN	273	1.1553
MDU-375-DEVILS LAKE	273	1.1553
MDU-379-BARLOW	273	1.1472
MDU-384-EPPING	264	1.1088
MDU-387-ELDRIDGE	272	1.1482
MDU-407-GLADSTONE	031	1.0681
MDU-411-GLEN ULLIN	031	1.0758
MDU-413-GOLVA	032	1.0289
MDU-416-GARRISON	262	1.1501
MDU-417-GRAFTON	273	1.1795
MDU-403-GWINNER	601	1.1379
MDU-429-HEBRON	031	1.0758
MDU-432-HETTINGER	903	2.4049
MDU-449-JAMESTOWN	272	1.1563
MDU-459-KILLDEER	033	1.0975
MDU-751-KINDRED	247	1.1563
MDU-463-LANGDON	273	1.1472
MDU-469-LEFOR	031	1.0681
MDU-474-LIGNITE	263	1.0759
MDU-475-LINTON	802	1.0546
MDU-478-LINCOLN	028	1.0961
MDU-488-MCKENZIE	271	1.1482
MDU-494-MEDINA	271	1.1401
MDU-498-MANDAN	028	1.0961
MDU-500-MARMARTH	034	1.0202
MDU-505-MINOT	262	1.1665
MDU-510-MOTT	031	1.0681
MDU-512-MAX	262	1.1665
MDU-513-MILNOR	601	1.1379
MDU-522-NEW ENGLAND	031	1.0603
MDU-524-NEW SALEM	028	1.0961
MDU-532-NEW ROCKFORD	273	1.1472
MDU-539-PARK RIVER	273	1.1714

MDU-540-PALERMO	262	1.1419
MDU-558-RAY	264	1.1088
MDU-561-REGENT	031	1.0681
MDU-563-RHAME	034	1.0053
MDU-564-RICHARDTON	031	1.0603
MDU-568-ROSS	261	1.1337
MDU-572-RUTHVILLE	262	1.1665
MDU-574-SANBORN	272	1.1563
MDU-583-SENTINEL BUTTE	032	1.0443
MDU-588-SOUTH HEART	031	1.0681
MDU-717-SPIRITWOOD	272	1.1563
MDU-590-SPRINGBROOK	264	1.1088
MDU-591-STANLEY	261	1.1419
MDU-593-STEELE	271	1.1401
MDU-594-STERLING	028	1.0961
MDU-598-SHEYENNE	273	1.1553
MDU-605-SURREY	262	1.1665
MDU-610-TAPPEN	271	1.1401
MDU-611-TAYLOR	031	1.0603
MDU-616-TIOGA	260	1.1290
MDU-619-TURTLE LAKE	262	1.1501
MDU-620-TRENTON	024	1.1244
MDU-624-UNDERWOOD	262	1.1501
MDU-625-VALLEY CITY	272	1.1644
MDU-629-WALHALLA	273	1.1714
MDU-632-WATFORD CITY	610	1.0720
MDU-104-WAHPETON	247	1.0302
MDU-636-WHEELLOCK	264	1.1009
MDU-637-WHITE EARTH	261	1.1419
MDU-642-WILLISTON	024	1.1244
MDU-646-WASHBURN	262	1.1583
MDU-647-WILTON	262	1.1419
MDU-664-RIVERDALE	262	1.1501
MDU-691-FAIRVIEW	241	1.1235
MDU-712-MINOT AFB	262	1.1665
MDU-718-FAIRMOUNT	600	1.1356
MDU-732-NEKOMA	273	1.1472
MDU-732-MSR SITE	273	1.1472

Source Daily Summary

January 2025

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	0.7270	1168.3	1189.0	1188.7	1.367	3.669	69.610	21.706	3.240	0.132	0.245	0.012	0.009	0.010	0.000	0.000	0.000	0.000	1394.44	
2	0.7067	1165.0	1185.6	1185.3	0.468	3.332	72.052	21.191	2.710	0.084	0.149	0.006	0.004	0.005	0.000	0.000	0.000	0.000	1410.50	
3	0.6967	1162.7	1183.3	1183.0	0.066	3.145	73.248	20.972	2.407	0.058	0.096	0.003	0.003	0.002	0.000	0.000	0.000	0.000	1417.62	
4	0.6960	1162.0	1182.5	1182.3	0.038	3.162	73.230	21.119	2.313	0.051	0.081	0.003	0.002	0.002	0.000	0.000	0.000	0.000	1417.47	
5	0.6963	1162.2	1182.7	1182.5	0.039	3.183	73.210	21.066	2.361	0.052	0.083	0.003	0.002	0.002	0.000	0.000	0.000	0.000	1417.35	
6	0.6951	1159.9	1180.4	1180.1	0.033	3.216	73.267	21.136	2.234	0.042	0.067	0.002	0.001	0.002	0.000	0.000	0.000	0.000	1415.83	
7	0.6950	1160.0	1180.5	1180.3	0.038	3.187	73.365	21.022	2.257	0.047	0.077	0.003	0.002	0.002	0.000	0.000	0.000	0.000	1416.12	
8	0.6976	1164.4	1185.0	1184.7	0.035	3.169	73.116	21.035	2.485	0.057	0.096	0.003	0.002	0.002	0.000	0.000	0.000	0.000	1418.83	
9	0.6955	1161.3	1181.9	1181.6	0.042	3.154	73.333	21.022	2.305	0.052	0.086	0.003	0.002	0.002	0.000	0.000	0.000	0.000	1417.14	
10	0.6956	1161.7	1182.2	1181.9	0.036	3.150	73.295	21.069	2.321	0.048	0.076	0.002	0.001	0.002	0.000	0.000	0.000	0.000	1417.48	
11	0.6936	1158.0	1178.5	1178.2	0.037	3.183	73.592	20.840	2.223	0.045	0.073	0.002	0.002	0.002	0.000	0.000	0.000	0.000	1415.05	
12	0.6975	1164.0	1184.7	1184.4	0.040	3.172	73.258	20.796	2.552	0.064	0.110	0.004	0.003	0.002	0.000	0.000	0.000	0.000	1418.50	
13	0.6998	1167.8	1188.4	1188.2	0.036	3.165	72.907	21.039	2.667	0.066	0.111	0.004	0.003	0.003	0.000	0.000	0.000	0.000	1420.70	
14	0.7255	1174.1	1194.9	1194.6	1.149	3.506	69.670	22.035	3.280	0.118	0.215	0.011	0.008	0.010	0.000	0.000	0.000	0.000	1402.94	
15	0.7135	1167.9	1188.6	1188.2	0.739	3.376	71.070	21.732	2.838	0.082	0.143	0.007	0.005	0.007	0.000	0.000	0.000	0.000	1407.36	
16	0.7336	1179.4	1200.3	1199.9	1.374	3.597	68.664	22.371	3.568	0.137	0.255	0.013	0.010	0.012	0.000	0.000	0.000	0.000	1401.39	
17	0.7241	1170.1	1190.8	1190.5	1.177	3.582	69.831	21.892	3.171	0.114	0.207	0.009	0.007	0.010	0.000	0.000	0.000	0.000	1399.37	
18	0.6940	1156.1	1176.6	1176.4	0.118	3.212	73.517	20.866	2.167	0.045	0.070	0.002	0.001	0.002	0.000	0.000	0.000	0.000	1412.40	
19	0.7146	1167.8	1188.5	1188.3	0.777	3.426	70.851	21.912	2.764	0.092	0.162	0.006	0.004	0.007	0.000	0.000	0.000	0.000	1406.18	
20	0.7217	1167.1	1187.7	1187.5	1.152	3.576	70.079	21.874	2.987	0.112	0.198	0.008	0.005	0.009	0.000	0.000	0.000	0.000	1398.16	
21	0.7254	1166.2	1186.9	1186.6	1.374	3.634	69.852	21.581	3.160	0.130	0.239	0.012	0.008	0.010	0.000	0.000	0.000	0.000	1393.50	
22	0.7270	1168.4	1189.1	1188.9	1.390	3.620	69.571	21.841	3.184	0.128	0.235	0.012	0.009	0.010	0.000	0.000	0.000	0.000	1394.69	
23	0.6954	1156.6	1177.1	1176.8	0.155	3.265	73.176	21.175	2.129	0.038	0.058	0.002	0.001	0.002	0.000	0.000	0.000	0.000	1411.58	
24	0.6934	1157.4	1177.9	1177.6	0.033	3.212	73.489	21.013	2.157	0.036	0.055	0.001	0.001	0.002	0.000	0.000	0.000	0.000	1414.48	
25	0.6925	1156.1	1176.6	1176.4	0.035	3.199	73.628	20.943	2.100	0.037	0.056	0.001	0.001	0.002	0.000	0.000	0.000	0.000	1413.90	
26	0.6944	1159.1	1179.7	1179.4	0.031	3.203	73.303	21.189	2.180	0.036	0.054	0.001	0.000	0.002	0.000	0.000	0.000	0.000	1415.61	
27	0.6934	1157.7	1178.2	1177.9	0.029	3.199	73.473	21.064	2.147	0.035	0.052	0.001	0.000	0.002	0.000	0.000	0.000	0.000	1414.86	
28	0.6919	1154.9	1175.4	1175.1	0.035	3.213	73.737	20.832	2.092	0.035	0.053	0.001	0.000	0.001	0.000	0.000	0.000	0.000	1413.05	
29	0.6969	1154.2	1174.7	1174.4	0.321	3.286	72.896	21.054	2.301	0.050	0.083	0.003	0.002	0.003	0.000	0.000	0.000	0.000	1407.23	
30	0.6910	1153.8	1174.2	1173.9	0.038	3.199	73.772	20.940	1.971	0.032	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1412.53	
31	0.6913	1154.6	1175.0	1174.8	0.036	3.176	73.704	21.046	1.959	0.032	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1413.27	
Avg	0.7036	1163.0	1183.1	1182.8	0.395	3.302	72.315	21.270	2.524	0.067	0.115	0.004	0.003	0.004	0.000	0.000	0.000	0.000	1410.63	

Source Daily Summary

January 2025

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	0.7024	1155.7	1176.1	1175.9	0.910	2.812	74.040	18.923	2.885	0.117	0.263	0.020	0.023	0.006	0.000	0.000	0.000	0.000	1403.35	
2	0.7042	1160.0	1180.6	1180.3	0.935	2.678	73.734	19.334	2.877	0.120	0.270	0.021	0.024	0.006	0.000	0.000	0.000	0.000	1406.83	
3	0.7058	1164.4	1185.0	1184.8	0.961	2.525	73.449	19.746	2.876	0.122	0.269	0.021	0.024	0.006	0.000	0.000	0.000	0.000	1410.52	
4	0.7012	1155.0	1175.5	1175.2	0.928	2.716	74.195	18.966	2.763	0.117	0.262	0.021	0.025	0.006	0.000	0.000	0.000	0.000	1403.68	
5	0.7014	1155.0	1175.4	1175.2	0.924	2.737	74.203	18.905	2.788	0.120	0.268	0.021	0.025	0.007	0.000	0.000	0.000	0.000	1403.52	
6	0.7035	1159.0	1179.6	1179.3	0.926	2.684	73.912	19.154	2.858	0.123	0.281	0.024	0.029	0.009	0.000	0.000	0.000	0.000	1406.33	
7	0.7075	1166.2	1186.8	1186.6	0.959	2.579	73.150	19.973	2.872	0.124	0.283	0.024	0.028	0.007	0.000	0.000	0.000	0.000	1410.96	
8	0.7057	1163.7	1184.3	1184.1	0.966	2.551	73.307	19.983	2.785	0.113	0.250	0.019	0.022	0.005	0.000	0.000	0.000	0.000	1409.78	
9	0.7016	1154.1	1174.5	1174.3	0.925	2.818	74.017	19.056	2.800	0.107	0.237	0.017	0.020	0.004	0.000	0.000	0.000	0.000	1402.18	
10	0.7019	1152.9	1173.3	1173.1	0.919	2.922	74.048	18.831	2.885	0.110	0.243	0.018	0.020	0.004	0.000	0.000	0.000	0.000	1400.48	
11	0.7034	1157.7	1178.2	1177.9	0.937	2.748	73.782	19.256	2.878	0.111	0.245	0.018	0.021	0.004	0.000	0.000	0.000	0.000	1404.75	
12	0.7036	1160.6	1181.1	1180.9	0.959	2.556	73.671	19.663	2.758	0.109	0.240	0.018	0.022	0.005	0.000	0.000	0.000	0.000	1408.09	
13	0.7069	1166.3	1186.9	1186.7	0.988	2.470	73.091	20.257	2.799	0.110	0.241	0.018	0.021	0.005	0.000	0.000	0.000	0.000	1411.76	
14	0.7097	1169.8	1190.5	1190.3	1.006	2.488	72.707	20.461	2.916	0.117	0.258	0.019	0.022	0.005	0.000	0.000	0.000	0.000	1413.24	
15	0.7112	1172.6	1193.4	1193.1	1.019	2.449	72.415	20.768	2.928	0.118	0.258	0.019	0.022	0.004	0.000	0.000	0.000	0.000	1415.02	
16	0.7097	1169.9	1190.6	1190.4	1.018	2.471	72.558	20.749	2.807	0.111	0.243	0.018	0.021	0.004	0.000	0.000	0.000	0.000	1413.29	
17	0.7049	1159.4	1179.9	1179.7	0.965	2.737	73.505	19.577	2.786	0.116	0.262	0.021	0.025	0.007	0.000	0.000	0.000	0.000	1405.34	
18	0.7102	1166.1	1186.7	1186.4	1.014	2.756	72.563	20.337	2.904	0.117	0.259	0.019	0.023	0.006	0.000	0.000	0.000	0.000	1408.16	
19	0.7106	1172.4	1193.1	1192.9	1.017	2.402	72.553	20.697	2.893	0.122	0.266	0.020	0.023	0.006	0.000	0.000	0.000	0.000	1415.41	
20	0.7103	1172.0	1192.8	1192.5	1.008	2.411	72.484	20.862	2.828	0.115	0.249	0.018	0.021	0.005	0.000	0.000	0.000	0.000	1415.29	
21	0.7041	1157.5	1178.0	1177.8	0.946	2.800	73.696	19.314	2.795	0.121	0.272	0.022	0.027	0.008	0.000	0.000	0.000	0.000	1403.94	
22	0.6994	1149.6	1170.0	1169.8	0.921	2.884	74.471	18.585	2.713	0.115	0.260	0.020	0.024	0.007	0.000	0.000	0.000	0.000	1399.00	
23	0.6991	1145.2	1165.4	1165.2	0.889	3.174	74.586	18.099	2.815	0.116	0.265	0.021	0.025	0.009	0.000	0.000	0.000	0.000	1393.87	
24	0.7098	1168.1	1188.8	1188.5	1.014	2.592	72.731	20.285	2.946	0.120	0.265	0.020	0.022	0.005	0.000	0.000	0.000	0.000	1411.03	
25	0.7132	1175.4	1196.2	1195.9	1.033	2.441	72.143	20.942	3.003	0.122	0.269	0.020	0.023	0.005	0.000	0.000	0.000	0.000	1416.44	
26	0.7088	1173.2	1194.0	1193.7	0.974	2.245	72.983	20.400	2.955	0.124	0.269	0.021	0.024	0.005	0.000	0.000	0.000	0.000	1418.23	
27	0.7100	1172.6	1193.4	1193.1	0.995	2.365	72.659	20.631	2.931	0.117	0.257	0.019	0.022	0.004	0.000	0.000	0.000	0.000	1416.32	
28	0.7129	1173.6	1194.3	1194.1	1.041	2.511	72.180	20.856	2.969	0.123	0.272	0.020	0.023	0.004	0.000	0.000	0.000	0.000	1414.55	
29	0.7128	1174.1	1194.9	1194.7	1.032	2.483	72.275	20.734	3.012	0.130	0.285	0.021	0.024	0.005	0.000	0.000	0.000	0.000	1415.30	
30	0.7127	1174.0	1194.8	1194.5	1.028	2.487	72.253	20.779	3.008	0.125	0.274	0.020	0.023	0.004	0.000	0.000	0.000	0.000	1415.24	
31	0.7143	1175.7	1196.5	1196.2	1.041	2.512	71.969	20.995	3.035	0.125	0.275	0.020	0.023	0.005	0.000	0.000	0.000	0.000	1415.72	
Avg	0.7069	1164.0	1184.9	1184.6	0.974	2.613	73.204	19.907	2.873	0.118	0.262	0.020	0.023	0.006	0.000	0.000	0.000	0.000	1409.28	

Gas Composition and Properties

Effective January 1, 2025

Attachment B
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Source #: 0602160
Name: FAIRVIEW BORDER

Component	Mole %	Liquid Content	Mass %	Property	Total Sample	C6 Plus Fraction
Carbon Dioxide, CO2	1.0338		2.1951	Pressure Base	14.730	
Nitrogen, N2	3.6730		4.9642	Temperature Base	60.00	
Methane, C1	70.7168		54.7344	HCDP @ Sample Pressure	-35.580	
Ethane, C2	21.2945	5.6989	30.8925	Cricondentherm	-3.742	
Propane, C3	2.9601	0.8161	6.2975	HV, Dry @ Base P, T	1182.77	
iso-Butane, iC4	0.1074	0.0352	0.3012	HV, Sat @ Base P, T	1162.19	
n-Butane, nC4	0.1944	0.0613	0.5451	HV, Sat @ Sample P, T	1182.77	
iso-Pentane, iC5	0.0104	0.0038	0.0362	Relative Density	0.7177	
n-Pentane, nC5	0.0091	0.0033	0.0317			
Neo-Pentane, neo						
Hexanes Plus, C6+	0.0005	0.0002	0.0021			
Argon, Ar						
Carbon Monoxide, CO						
Hydrogen, H2						
Oxygen, O2						
Helium, He						
Water, H2O						
Hydrogen Sulfide, H2S						
				C6+: 100		
Totals	100.0000	6.6180	100.0000			

Sample

Date: 01/01/2025 Type:

Tech: Tipton, Joshua

Pressure: 260 psi Temp.: °F

Gauge: Gauge H2O:

Atm. Pressure: H2S:

Remarks:

Analysis

Date: 01/01/2025 Instrument:

Tech: Tipton, Joshua Cylinder: 367

Remarks:

Source Daily Summary

January 2025

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	0.7495	1181.5	1202.4	1202.2	0.975	5.561	67.031	20.484	5.205	0.195	0.466	0.033	0.039	0.011	0.000	0.000	0.000	0.000	1388.87	18.21
2	0.7501	1179.8	1200.7	1200.5	0.969	5.726	66.950	20.333	5.280	0.189	0.465	0.034	0.041	0.013	0.000	0.000	0.000	0.000	1386.39	18.53
3	0.7397	1175.0	1195.8	1195.5	0.992	5.007	68.521	20.183	4.547	0.185	0.465	0.037	0.046	0.017	0.000	0.000	0.000	0.000	1390.41	14.95
4	0.7424	1172.4	1193.2	1193.0	0.990	5.417	68.080	20.094	4.641	0.188	0.475	0.041	0.053	0.021	0.000	0.000	0.000	0.000	1384.87	16.65
5	0.7515	1181.5	1202.4	1202.2	0.962	5.763	66.879	20.192	5.442	0.196	0.472	0.036	0.043	0.016	0.000	0.000	0.000	0.000	1387.08	19.88
6	0.7570	1183.0	1203.9	1203.8	0.943	6.217	65.995	20.237	5.888	0.192	0.452	0.031	0.035	0.011	0.000	0.000	0.000	0.000	1383.74	20.93
7	0.7561	1180.9	1201.8	1201.7	0.949	6.249	66.097	20.185	5.799	0.190	0.452	0.031	0.036	0.011	0.000	0.000	0.000	0.000	1382.15	20.51
8	0.7594	1188.3	1209.4	1209.2	0.937	6.122	65.802	20.264	6.135	0.198	0.465	0.031	0.036	0.009	0.000	0.000	0.000	0.000	1387.81	22.43
9	0.7578	1188.8	1209.8	1209.7	0.935	5.950	66.138	20.146	6.068	0.205	0.475	0.034	0.037	0.011	0.000	0.000	0.000	0.000	1389.78	22.35
10	0.7579	1188.3	1209.3	1209.1	0.944	5.976	66.021	20.325	5.981	0.202	0.471	0.032	0.037	0.011	0.000	0.000	0.000	0.000	1389.12	22.10
11	0.7585	1189.4	1210.5	1210.3	0.951	5.956	65.919	20.432	5.980	0.204	0.478	0.033	0.038	0.010	0.000	0.000	0.000	0.000	1389.87	22.35
12	0.7471	1184.1	1205.1	1204.9	0.993	5.142	67.574	20.483	4.990	0.207	0.502	0.041	0.051	0.018	0.000	0.000	0.000	0.000	1394.25	19.13
13	0.7278	1164.0	1184.7	1184.5	0.901	4.709	70.532	18.851	4.315	0.175	0.425	0.034	0.042	0.015	0.000	0.000	0.000	0.000	1388.70	8.95
14	0.7121	1167.8	1188.5	1188.3	0.963	2.900	72.602	19.805	3.239	0.124	0.298	0.026	0.032	0.011	0.000	0.000	0.000	0.000	1408.48	0.17
15	0.7152	1166.9	1187.5	1187.4	0.975	3.248	71.892	20.063	3.390	0.115	0.265	0.021	0.024	0.006	0.000	0.000	0.000	0.000	1404.41	-0.07
16	0.7378	1179.2	1200.1	1199.9	0.949	4.636	68.813	20.235	4.755	0.162	0.384	0.027	0.031	0.008	0.000	0.000	0.000	0.000	1397.58	11.56
17	0.7334	1173.9	1194.7	1194.4	1.011	4.462	69.392	20.405	3.957	0.184	0.461	0.044	0.059	0.025	0.000	0.000	0.000	0.000	1394.96	13.84
18	0.7172	1165.3	1185.9	1185.7	0.947	3.557	71.952	19.499	3.393	0.162	0.387	0.035	0.046	0.020	0.000	0.000	0.000	0.000	1400.46	5.75
19	0.7193	1150.3	1170.7	1170.5	0.977	4.627	71.267	19.281	3.144	0.164	0.415	0.042	0.056	0.027	0.000	0.000	0.000	0.000	1380.47	6.60
20	0.7230	1139.1	1159.2	1159.0	0.989	5.644	70.638	18.674	3.302	0.173	0.435	0.046	0.065	0.035	0.000	0.000	0.000	0.000	1363.36	9.03
21	0.7239	1150.6	1171.0	1170.8	0.991	5.016	70.900	18.726	3.599	0.176	0.447	0.045	0.063	0.038	0.000	0.000	0.000	0.000	1376.29	11.33
22	0.7246	1152.4	1172.9	1172.7	0.940	5.040	70.771	18.772	3.731	0.176	0.441	0.042	0.057	0.030	0.000	0.000	0.000	0.000	1377.88	10.26
23	0.7525	1180.1	1201.0	1200.8	0.957	5.943	66.780	20.085	5.403	0.204	0.504	0.042	0.054	0.027	0.000	0.000	0.000	0.000	1384.57	21.98
24	0.7424	1176.8	1197.7	1197.5	0.911	5.270	68.409	19.466	5.252	0.185	0.432	0.031	0.035	0.010	0.000	0.000	0.000	0.000	1390.28	14.84
25	0.7059	1164.5	1185.2	1185.0	0.976	2.501	73.189	20.174	2.822	0.089	0.203	0.018	0.022	0.006	0.000	0.000	0.000	0.000	1410.62	-5.24
26	0.7376	1178.9	1199.8	1199.6	0.948	4.638	68.668	20.480	4.729	0.144	0.334	0.024	0.028	0.007	0.000	0.000	0.000	0.000	1397.42	10.37
27	0.7593	1185.8	1206.8	1206.6	0.924	6.287	65.637	20.375	6.079	0.189	0.440	0.028	0.032	0.008	0.000	0.000	0.000	0.000	1384.96	21.44
28	0.7245	1170.4	1191.1	1191.0	0.962	3.910	70.453	20.311	3.931	0.118	0.269	0.019	0.022	0.006	0.000	0.000	0.000	0.000	1399.76	3.31
29	0.7067	1165.5	1186.1	1185.9	0.954	2.554	73.078	20.202	2.843	0.098	0.223	0.019	0.023	0.006	0.000	0.000	0.000	0.000	1410.98	-4.51
30	0.7388	1177.0	1197.8	1197.7	0.948	4.868	68.554	20.252	4.786	0.163	0.369	0.025	0.028	0.007	0.000	0.000	0.000	0.000	1394.01	11.39
31	0.7183	1169.6	1190.3	1190.1	0.960	3.388	71.287	20.491	3.455	0.113	0.258	0.020	0.023	0.006	0.000	0.000	0.000	0.000	1404.66	0.37
Avg	0.7370	1173.0	1194.0	1193.8	0.959	4.912	68.897	19.984	4.583	0.170	0.407	0.032	0.040	0.015	0.000	0.000	0.000	0.000	1391.10	12.56

Source Daily Summary

January 2025

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	0.7596	1187.1	1208.2	1208.0	0.939	6.213	65.718	20.292	6.088	0.204	0.472	0.031	0.035	0.009	0.000	0.000	0.000	0.000	1386.20	
2	0.7578	1183.8	1204.8	1204.6	0.936	6.253	65.906	20.190	6.000	0.192	0.453	0.028	0.032	0.008	0.000	0.000	0.000	0.000	1383.95	
3	0.7562	1181.2	1202.1	1201.9	0.937	6.262	66.072	20.134	5.916	0.183	0.433	0.026	0.029	0.007	0.000	0.000	0.000	0.000	1382.34	
4	0.7465	1163.4	1184.0	1183.9	0.943	6.423	67.114	19.669	5.334	0.148	0.331	0.017	0.018	0.004	0.000	0.000	0.000	0.000	1370.41	
5	0.7608	1189.1	1210.1	1210.0	0.936	6.214	65.577	20.322	6.201	0.201	0.474	0.031	0.035	0.008	0.000	0.000	0.000	0.000	1387.36	
6	0.7600	1187.0	1208.0	1207.9	0.936	6.259	65.655	20.274	6.140	0.198	0.465	0.030	0.034	0.009	0.000	0.000	0.000	0.000	1385.75	
7	0.7583	1184.5	1205.5	1205.3	0.940	6.245	65.850	20.213	6.046	0.190	0.446	0.029	0.032	0.008	0.000	0.000	0.000	0.000	1384.40	
8	0.7594	1186.9	1207.9	1207.7	0.938	6.209	65.743	20.267	6.120	0.194	0.456	0.030	0.034	0.009	0.000	0.000	0.000	0.000	1386.10	
9	0.7599	1190.1	1211.2	1211.0	0.941	6.051	65.807	20.276	6.162	0.204	0.476	0.034	0.038	0.010	0.000	0.000	0.000	0.000	1389.40	
10	0.7497	1176.2	1197.0	1196.8	0.903	6.009	67.233	19.463	5.694	0.187	0.436	0.030	0.035	0.010	0.000	0.000	0.000	0.000	1382.43	
11	0.7588	1186.9	1207.9	1207.8	0.941	6.151	65.848	20.250	6.072	0.201	0.463	0.031	0.035	0.009	0.000	0.000	0.000	0.000	1386.65	
12	0.7586	1186.2	1207.2	1207.1	0.940	6.171	65.878	20.215	6.061	0.199	0.463	0.030	0.034	0.008	0.000	0.000	0.000	0.000	1386.06	
13	0.7545	1179.5	1200.4	1200.2	0.946	6.187	66.325	20.059	5.814	0.187	0.422	0.025	0.028	0.007	0.000	0.000	0.000	0.000	1381.97	
14	0.7533	1177.1	1198.0	1197.8	0.947	6.223	66.430	20.007	5.749	0.181	0.411	0.023	0.024	0.005	0.000	0.000	0.000	0.000	1380.24	
15	0.7577	1185.1	1206.1	1205.9	0.940	6.159	65.981	20.201	5.984	0.198	0.463	0.030	0.035	0.009	0.000	0.000	0.000	0.000	1385.53	
16	0.7583	1186.3	1207.3	1207.1	0.933	6.156	65.859	20.306	6.026	0.193	0.457	0.030	0.034	0.009	0.000	0.000	0.000	0.000	1386.37	
17	0.7600	1190.4	1211.5	1211.3	0.931	6.065	65.726	20.403	6.089	0.212	0.493	0.033	0.038	0.010	0.000	0.000	0.000	0.000	1389.65	
18	0.7169	1138.4	1158.6	1158.5	0.830	5.344	71.969	17.281	4.046	0.144	0.327	0.023	0.027	0.009	0.000	0.000	0.000	0.000	1368.56	
19	0.7200	1152.7	1173.1	1172.9	0.946	4.594	71.191	19.261	3.333	0.167	0.407	0.037	0.047	0.018	0.000	0.000	0.000	0.000	1382.56	
20	0.7186	1143.1	1163.4	1163.2	0.970	5.008	71.380	18.744	3.204	0.165	0.405	0.041	0.056	0.026	0.000	0.000	0.000	0.000	1372.50	
21	0.7219	1139.1	1159.3	1159.1	0.997	5.525	70.975	18.361	3.390	0.175	0.437	0.043	0.062	0.035	0.000	0.000	0.000	0.000	1364.38	
22	0.7126	1133.5	1153.6	1153.4	0.896	5.144	72.474	17.619	3.184	0.160	0.399	0.040	0.055	0.030	0.000	0.000	0.000	0.000	1366.56	
23	0.7554	1183.6	1204.6	1204.4	0.920	6.063	66.279	20.179	5.842	0.189	0.448	0.031	0.036	0.014	0.000	0.000	0.000	0.000	1385.97	
24	0.7573	1184.4	1205.4	1205.2	0.936	6.163	66.022	20.212	5.934	0.196	0.459	0.031	0.036	0.011	0.000	0.000	0.000	0.000	1385.19	
25	0.7580	1186.3	1207.3	1207.2	0.934	6.124	65.893	20.341	5.988	0.192	0.453	0.031	0.035	0.010	0.000	0.000	0.000	0.000	1386.69	
26	0.7573	1184.1	1205.0	1204.9	0.926	6.200	65.952	20.273	5.947	0.190	0.440	0.030	0.034	0.010	0.000	0.000	0.000	0.000	1384.78	
27	0.7583	1185.4	1206.4	1206.3	0.926	6.217	65.801	20.336	6.014	0.190	0.443	0.029	0.034	0.009	0.000	0.000	0.000	0.000	1385.40	
28	0.7578	1184.2	1205.1	1205.0	0.937	6.223	65.984	20.131	5.974	0.203	0.470	0.032	0.036	0.010	0.000	0.000	0.000	0.000	1384.44	
29	0.7556	1180.1	1201.0	1200.8	0.940	6.264	66.412	19.716	5.877	0.215	0.494	0.033	0.038	0.011	0.000	0.000	0.000	0.000	1381.61	
30	0.7568	1181.6	1202.5	1202.3	0.944	6.275	66.347	19.651	5.940	0.228	0.525	0.036	0.042	0.012	0.000	0.000	0.000	0.000	1382.32	
31	0.7557	1180.4	1201.3	1201.1	0.941	6.261	66.298	19.887	5.850	0.206	0.478	0.032	0.037	0.011	0.000	0.000	0.000	0.000	1381.82	
Avg	0.7507	1177.0	1197.5	1197.4	0.935	6.021	66.958	19.824	5.549	0.190	0.445	0.031	0.036	0.011	0.000	0.000	0.000	0.000	1382.18	

Source Daily Summary

January 2025

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	0.7606	1186.6	1207.6	1207.4	0.948	6.320	65.601	20.199	6.186	0.201	0.473	0.031	0.034	0.008	0.000	0.000	0.000	0.000	1384.74	
2	0.7578	1181.7	1202.6	1202.4	0.946	6.368	65.881	20.082	6.030	0.190	0.440	0.027	0.030	0.007	0.000	0.000	0.000	0.000	1381.48	
3	0.7572	1180.9	1201.8	1201.5	0.949	6.355	65.964	20.051	5.997	0.187	0.434	0.027	0.030	0.006	0.000	0.000	0.000	0.000	1381.08	
4	0.7575	1182.1	1203.0	1202.8	0.954	6.303	65.940	20.092	6.024	0.187	0.436	0.027	0.030	0.007	0.000	0.000	0.000	0.000	1382.22	
5	0.7598	1186.2	1207.2	1207.0	0.953	6.264	65.680	20.240	6.143	0.194	0.458	0.029	0.032	0.007	0.000	0.000	0.000	0.000	1384.97	
6	0.7604	1187.2	1208.2	1208.0	0.951	6.270	65.605	20.270	6.164	0.199	0.468	0.031	0.034	0.008	0.000	0.000	0.000	0.000	1385.50	
7	0.7601	1186.9	1207.9	1207.7	0.953	6.256	65.647	20.254	6.156	0.197	0.464	0.030	0.033	0.008	0.000	0.000	0.000	0.000	1385.43	
8	0.7632	1193.3	1214.4	1214.1	0.955	6.151	65.331	20.457	6.315	0.212	0.499	0.034	0.038	0.009	0.000	0.000	0.000	0.000	1390.08	
9	0.7599	1187.6	1208.7	1208.4	0.948	6.192	65.707	20.284	6.121	0.204	0.470	0.031	0.035	0.008	0.000	0.000	0.000	0.000	1386.56	
10	0.7589	1184.8	1205.8	1205.6	0.952	6.266	65.814	20.168	6.063	0.201	0.464	0.030	0.033	0.008	0.000	0.000	0.000	0.000	1384.20	
11	0.7598	1186.6	1207.6	1207.4	0.954	6.245	65.712	20.224	6.114	0.206	0.473	0.031	0.035	0.008	0.000	0.000	0.000	0.000	1385.37	
12	0.7602	1187.1	1208.1	1207.9	0.951	6.254	65.632	20.261	6.176	0.195	0.462	0.029	0.032	0.008	0.000	0.000	0.000	0.000	1385.62	
13	0.7587	1184.7	1205.7	1205.5	0.947	6.265	65.819	20.160	6.095	0.193	0.454	0.028	0.031	0.007	0.000	0.000	0.000	0.000	1384.20	
14	0.7618	1191.3	1212.4	1212.2	0.938	6.171	65.438	20.454	6.237	0.204	0.483	0.032	0.035	0.008	0.000	0.000	0.000	0.000	1389.02	
15	0.7617	1191.1	1212.2	1212.0	0.942	6.166	65.480	20.437	6.179	0.215	0.504	0.033	0.037	0.008	0.000	0.000	0.000	0.000	1388.92	
16	0.7603	1188.0	1209.0	1208.8	0.941	6.220	65.698	20.228	6.119	0.215	0.501	0.033	0.037	0.008	0.000	0.000	0.000	0.000	1386.60	
17	0.7594	1186.2	1207.2	1207.0	0.940	6.253	65.771	20.194	6.074	0.207	0.485	0.032	0.036	0.008	0.000	0.000	0.000	0.000	1385.26	
18	0.7373	1162.4	1183.0	1182.8	0.873	5.732	69.152	18.452	5.113	0.179	0.426	0.030	0.034	0.009	0.000	0.000	0.000	0.000	1377.77	
19	0.7611	1194.6	1215.8	1215.6	0.934	5.904	65.666	20.504	6.198	0.211	0.499	0.035	0.040	0.010	0.000	0.000	0.000	0.000	1393.63	
20	0.7634	1194.1	1215.3	1215.0	0.936	6.145	65.142	20.738	6.303	0.196	0.469	0.030	0.033	0.008	0.000	0.000	0.000	0.000	1390.94	
21	0.7633	1193.7	1214.8	1214.6	0.936	6.160	65.192	20.671	6.283	0.200	0.482	0.032	0.036	0.009	0.000	0.000	0.000	0.000	1390.54	
22	0.7598	1187.0	1208.0	1207.8	0.944	6.235	65.659	20.334	6.077	0.205	0.472	0.031	0.035	0.008	0.000	0.000	0.000	0.000	1385.86	
23	0.7587	1184.8	1205.7	1205.5	0.942	6.273	65.742	20.302	6.032	0.194	0.448	0.028	0.032	0.007	0.000	0.000	0.000	0.000	1384.22	
24	0.7594	1186.5	1207.5	1207.3	0.942	6.229	65.686	20.347	6.072	0.197	0.457	0.030	0.033	0.007	0.000	0.000	0.000	0.000	1385.65	
25	0.7592	1185.4	1206.4	1206.2	0.935	6.285	65.684	20.317	6.068	0.193	0.449	0.029	0.032	0.007	0.000	0.000	0.000	0.000	1384.57	
26	0.7594	1185.3	1206.3	1206.1	0.936	6.311	65.635	20.334	6.076	0.192	0.448	0.029	0.032	0.007	0.000	0.000	0.000	0.000	1384.28	
27	0.7597	1185.5	1206.5	1206.3	0.939	6.324	65.645	20.258	6.106	0.197	0.461	0.029	0.033	0.007	0.000	0.000	0.000	0.000	1384.19	
28	0.7571	1180.9	1201.8	1201.6	0.950	6.338	66.175	19.780	5.970	0.216	0.495	0.032	0.035	0.008	0.000	0.000	0.000	0.000	1381.26	
29	0.7568	1179.7	1200.6	1200.4	0.954	6.375	66.390	19.447	5.981	0.236	0.536	0.035	0.039	0.008	0.000	0.000	0.000	0.000	1380.11	
30	0.7576	1181.8	1202.7	1202.5	0.949	6.338	66.057	19.904	5.977	0.212	0.487	0.032	0.036	0.008	0.000	0.000	0.000	0.000	1381.74	
31	0.7573	1181.8	1202.7	1202.5	0.946	6.315	66.000	20.044	5.971	0.197	0.457	0.029	0.032	0.007	0.000	0.000	0.000	0.000	1382.02	
Avg	0.7590	1186.0	1206.7	1206.4	0.943	6.235	65.824	20.177	6.078	0.201	0.469	0.030	0.034	0.008	0.000	0.000	0.000	0.000	1385.10	

Gas Composition and Properties

Effective October 1, 2021

Attachment B
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Source #: 2501030
Name: LIGNITE PLANT

Component	Mole %	Liquid Content	Mass %
Carbon Dioxide, CO2	0.2283		0.5237
Nitrogen, N2	2.9631		4.3268
Methane, C1	79.4957		66.4767
Ethane, C2	15.2390	4.0765	23.8852
Propane, C3	2.0456	0.5637	4.7019
iso-Butane, iC4	0.0244	0.0080	0.0739
n-Butane, nC4	0.0039	0.0012	0.0118
iso-Pentane, iC5			
n-Pentane, nC5			
Neo-Pentane, neo			
Hexanes Plus, C6+			
Argon, Ar			
Carbon Monoxide, CO			
Hydrogen, H2			
Oxygen, O2			
Helium, He			
Water, H2O			
Hydrogen Sulfide, H2S			
Totals	100.0000	4.6490	100.0000

Property	Total Sample	C6 Plus Fraction
Pressure Base	14.730	
Temperature Base	60.00	
HCDP @ Sample Pressure		
Cricondentherm	-32.804	
HV, Dry @ Base P, T	1130.73	
HV, Sat @ Base P, T	1111.05	
HV, Sat @ Sample P, T	1130.73	
Relative Density	0.6640	
C6+: 100		

Sample

Date: 10/01/2021 Type:

Tech: Wayne Sampson

Pressure: Temp.:

Gauge: H2O:

Atm. Pressure: H2S:

Remarks:

Analysis

Date: Instrument:

Tech: Cylinder:

Remarks:

Source Daily Summary

January 2025

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	0.7341	1175.8	1196.7	1196.4	1.030	4.377	69.052	20.926	3.910	0.179	0.439	0.034	0.041	0.012	0.000	0.000	0.000	0.000	1396.66	
2	0.7326	1168.7	1189.4	1189.1	1.030	4.667	69.286	20.509	3.755	0.181	0.465	0.040	0.050	0.017	0.000	0.000	0.000	0.000	1389.66	
3	0.7345	1175.3	1196.1	1195.8	1.030	4.451	69.197	20.612	3.900	0.192	0.494	0.044	0.057	0.022	0.000	0.000	0.000	0.000	1395.57	
4	0.7281	1162.4	1182.9	1182.7	1.018	4.657	70.190	19.668	3.688	0.182	0.471	0.044	0.058	0.024	0.000	0.000	0.000	0.000	1386.29	
5	0.7296	1161.5	1182.1	1181.9	1.019	4.840	69.927	19.704	3.723	0.184	0.468	0.045	0.060	0.029	0.000	0.000	0.000	0.000	1383.95	
6	0.7366	1158.0	1178.5	1178.2	1.011	5.723	68.659	19.825	3.972	0.191	0.481	0.046	0.062	0.029	0.000	0.000	0.000	0.000	1373.20	
7	0.7330	1150.8	1171.1	1170.9	1.005	5.837	69.230	19.284	3.831	0.190	0.485	0.046	0.062	0.030	0.000	0.000	0.000	0.000	1367.92	
8	0.7412	1176.3	1197.1	1196.8	1.002	5.056	68.600	19.811	4.669	0.206	0.520	0.048	0.062	0.027	0.000	0.000	0.000	0.000	1390.43	
9	0.7383	1183.9	1204.9	1204.6	1.033	4.264	69.242	20.051	4.553	0.202	0.509	0.050	0.067	0.029	0.000	0.000	0.000	0.000	1402.30	
10	0.7430	1194.9	1216.1	1215.8	1.028	4.049	68.650	20.572	4.789	0.215	0.548	0.051	0.067	0.031	0.000	0.000	0.000	0.000	1410.74	
11	0.7425	1196.3	1217.5	1217.3	1.032	3.902	68.684	20.782	4.688	0.214	0.550	0.052	0.068	0.028	0.000	0.000	0.000	0.000	1412.98	
12	0.7388	1185.0	1206.0	1205.8	1.036	4.244	68.936	20.602	4.301	0.209	0.529	0.050	0.066	0.028	0.000	0.000	0.000	0.000	1403.12	
13	0.7369	1179.7	1200.6	1200.3	1.021	4.416	69.089	20.460	4.143	0.208	0.526	0.048	0.062	0.027	0.000	0.000	0.000	0.000	1398.58	
14	0.7359	1178.0	1198.8	1198.6	1.015	4.434	69.477	19.918	4.247	0.209	0.551	0.052	0.068	0.028	0.000	0.000	0.000	0.000	1397.48	
15	0.7319	1179.2	1200.0	1199.8	1.020	3.977	70.068	19.987	4.130	0.188	0.492	0.047	0.063	0.028	0.000	0.000	0.000	0.000	1402.72	
16	0.7326	1180.0	1200.9	1200.6	1.027	3.983	69.656	20.616	3.947	0.179	0.462	0.044	0.059	0.027	0.000	0.000	0.000	0.000	1403.04	
17	0.7348	1184.1	1205.1	1204.8	1.039	3.918	69.309	20.962	3.973	0.186	0.477	0.047	0.062	0.027	0.000	0.000	0.000	0.000	1405.85	
18	0.7287	1169.2	1189.9	1189.7	1.022	4.284	70.094	20.180	3.647	0.181	0.456	0.045	0.061	0.028	0.000	0.000	0.000	0.000	1393.93	
19	0.7349	1164.2	1184.8	1184.6	1.008	5.200	68.952	20.184	3.840	0.195	0.489	0.045	0.060	0.027	0.000	0.000	0.000	0.000	1382.06	
20	0.7241	1140.1	1160.3	1160.1	0.987	5.685	70.507	18.692	3.354	0.176	0.449	0.048	0.067	0.034	0.000	0.000	0.000	0.000	1363.53	
21	0.7240	1143.5	1163.7	1163.5	0.992	5.463	70.688	18.594	3.505	0.174	0.438	0.045	0.064	0.038	0.000	0.000	0.000	0.000	1367.61	
22	0.7253	1162.0	1182.6	1182.4	1.001	4.439	70.930	19.072	3.758	0.183	0.468	0.046	0.063	0.039	0.000	0.000	0.000	0.000	1388.59	
23	0.7316	1160.0	1180.5	1180.3	1.013	5.129	69.815	19.356	3.789	0.198	0.522	0.056	0.077	0.044	0.000	0.000	0.000	0.000	1380.22	
24	0.7300	1164.6	1185.2	1185.0	1.005	4.708	70.546	18.769	4.046	0.199	0.530	0.061	0.086	0.051	0.000	0.000	0.000	0.000	1387.19	
25	0.7261	1161.1	1181.6	1181.4	1.003	4.565	70.922	18.924	3.694	0.189	0.509	0.060	0.085	0.049	0.000	0.000	0.000	0.000	1386.67	
26	0.7250	1158.6	1179.1	1178.9	1.004	4.609	71.044	18.830	3.645	0.188	0.493	0.058	0.083	0.046	0.000	0.000	0.000	0.000	1384.80	
27	0.7301	1170.7	1191.4	1191.2	1.004	4.351	70.431	19.304	4.032	0.194	0.506	0.056	0.079	0.044	0.000	0.000	0.000	0.000	1394.34	
28	0.7370	1180.9	1201.8	1201.6	1.022	4.345	69.410	20.136	4.072	0.213	0.585	0.070	0.097	0.050	0.000	0.000	0.000	0.000	1399.93	
29	0.7291	1168.4	1189.1	1188.8	1.018	4.374	70.544	19.570	3.432	0.206	0.581	0.081	0.122	0.072	0.000	0.000	0.000	0.000	1392.50	
30	0.7331	1172.3	1193.1	1192.8	1.024	4.499	69.902	19.882	3.625	0.213	0.598	0.078	0.114	0.065	0.000	0.000	0.000	0.000	1393.40	
31	0.7294	1165.9	1186.5	1186.3	1.029	4.539	70.442	19.486	3.460	0.206	0.578	0.077	0.115	0.067	0.000	0.000	0.000	0.000	1389.22	
Avg	0.7327	1170.0	1190.8	1190.5	1.017	4.612	69.725	19.847	3.939	0.195	0.505	0.052	0.071	0.035	0.000	0.000	0.000	0.000	1391.11	

Source Daily Summary

January 2025

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	0.7456	1178.0	1198.8	1198.0	0.850	5.594	67.658	19.868	5.382	0.173	0.414	0.025	0.027	0.008	0.000	0.000	0.000	0.000	1388.39	
2	0.7329	1165.5	1186.1	1185.4	0.808	5.235	69.279	19.502	4.642	0.146	0.341	0.021	0.022	0.006	0.000	0.000	0.000	0.000	1385.49	
3	0.7213	1152.6	1173.0	1172.4	0.821	4.906	71.048	18.642	4.122	0.126	0.294	0.017	0.018	0.005	0.000	0.000	0.000	0.000	1381.20	
4	0.7127	1142.1	1162.3	1161.6	0.857	4.691	72.307	18.060	3.683	0.111	0.257	0.015	0.016	0.005	0.000	0.000	0.000	0.000	1376.78	
5	0.7167	1146.3	1166.6	1165.9	0.887	4.763	71.839	18.144	3.923	0.120	0.284	0.017	0.018	0.006	0.000	0.000	0.000	0.000	1378.02	
6	0.7194	1150.3	1170.6	1170.0	0.880	4.784	71.515	18.250	4.093	0.128	0.305	0.019	0.020	0.006	0.000	0.000	0.000	0.000	1380.19	
7	0.7225	1153.0	1173.4	1172.7	0.863	4.936	70.961	18.557	4.197	0.131	0.309	0.019	0.020	0.006	0.000	0.000	0.000	0.000	1380.48	
8	0.7357	1168.7	1189.4	1188.6	0.863	5.212	69.205	19.188	4.928	0.161	0.383	0.025	0.027	0.008	0.000	0.000	0.000	0.000	1386.70	
9	0.7385	1170.8	1191.5	1190.7	0.868	5.339	68.734	19.421	5.029	0.164	0.386	0.025	0.027	0.008	0.000	0.000	0.000	0.000	1386.56	
10	0.7287	1160.5	1181.1	1180.3	0.845	5.080	70.034	19.045	4.462	0.146	0.339	0.021	0.023	0.007	0.000	0.000	0.000	0.000	1383.62	
11	0.7284	1160.8	1181.4	1180.7	0.841	5.048	70.051	19.093	4.431	0.145	0.341	0.021	0.023	0.007	0.000	0.000	0.000	0.000	1384.20	
12	0.7210	1152.3	1172.7	1172.0	0.849	4.860	71.195	18.484	4.125	0.132	0.309	0.019	0.020	0.006	0.000	0.000	0.000	0.000	1381.05	
13	0.7207	1152.4	1172.8	1172.1	0.824	4.862	71.141	18.625	4.083	0.125	0.297	0.018	0.019	0.005	0.000	0.000	0.000	0.000	1381.48	
14	0.7265	1160.4	1181.0	1180.3	0.788	4.972	70.315	19.022	4.391	0.138	0.327	0.020	0.021	0.006	0.000	0.000	0.000	0.000	1385.55	
15	0.7402	1174.7	1195.5	1194.8	0.810	5.351	68.493	19.576	5.128	0.172	0.408	0.026	0.028	0.008	0.000	0.000	0.000	0.000	1389.53	
16	0.7439	1175.5	1196.4	1195.6	0.836	5.604	67.992	19.569	5.324	0.181	0.429	0.027	0.029	0.008	0.000	0.000	0.000	0.000	1387.11	
17	0.7466	1180.2	1201.1	1200.2	0.833	5.579	67.641	19.795	5.433	0.190	0.459	0.029	0.032	0.009	0.000	0.000	0.000	0.000	1390.04	
18	0.7100	1142.7	1162.9	1162.1	0.775	4.527	72.564	18.274	3.469	0.107	0.249	0.015	0.015	0.005	0.000	0.000	0.000	0.000	1380.14	
19	0.7092	1140.6	1160.8	1160.0	0.838	4.484	73.008	17.674	3.540	0.119	0.287	0.020	0.022	0.007	0.000	0.000	0.000	0.000	1378.33	
20	0.7201	1154.9	1175.4	1174.7	0.831	4.637	71.356	18.605	4.092	0.128	0.304	0.019	0.020	0.006	0.000	0.000	0.000	0.000	1385.12	
21	0.7333	1169.1	1189.8	1189.0	0.820	5.029	69.378	19.487	4.735	0.146	0.352	0.022	0.024	0.007	0.000	0.000	0.000	0.000	1389.45	
22	0.7396	1172.5	1193.3	1192.5	0.829	5.401	68.440	19.694	5.035	0.162	0.383	0.024	0.025	0.007	0.000	0.000	0.000	0.000	1387.52	
23	0.7343	1168.1	1188.8	1188.0	0.809	5.202	69.107	19.619	4.711	0.151	0.349	0.022	0.023	0.007	0.000	0.000	0.000	0.000	1387.31	
24	0.7327	1165.7	1186.3	1185.5	0.804	5.206	69.320	19.501	4.636	0.146	0.339	0.021	0.022	0.007	0.000	0.000	0.000	0.000	1385.95	
25	0.7281	1161.0	1181.5	1180.8	0.795	5.075	69.987	19.237	4.397	0.138	0.323	0.020	0.022	0.007	0.000	0.000	0.000	0.000	1384.72	
26	0.7292	1161.8	1182.4	1181.7	0.798	5.118	69.878	19.196	4.487	0.141	0.332	0.021	0.022	0.007	0.000	0.000	0.000	0.000	1384.72	
27	0.7342	1165.1	1185.8	1185.1	0.821	5.356	69.164	19.347	4.764	0.147	0.349	0.021	0.023	0.007	0.000	0.000	0.000	0.000	1383.86	
28	0.7363	1166.8	1187.5	1186.7	0.849	5.412	68.998	19.256	4.865	0.168	0.394	0.024	0.026	0.008	0.000	0.000	0.000	0.000	1383.82	
29	0.7370	1164.9	1185.5	1184.6	0.866	5.568	69.015	18.947	4.936	0.183	0.424	0.026	0.028	0.008	0.000	0.000	0.000	0.000	1380.88	
30	0.7370	1164.9	1185.5	1184.7	0.879	5.542	69.007	19.000	4.909	0.180	0.420	0.026	0.029	0.008	0.000	0.000	0.000	0.000	1380.96	
31	0.7226	1153.3	1173.7	1173.0	0.826	4.989	70.734	18.926	4.038	0.133	0.309	0.019	0.020	0.006	0.000	0.000	0.000	0.000	1380.67	
Avg	0.7292	1161.0	1181.7	1181.0	0.834	5.108	69.980	19.019	4.516	0.146	0.345	0.021	0.023	0.007	0.000	0.000	0.000	0.000	1383.87	

Source Daily Summary

January 2025

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	0.7365	1166.6	1187.3	1186.5	0.888	5.383	68.793	19.606	4.766	0.156	0.350	0.023	0.024	0.011	0.000	0.000	0.000	0.000	1383.44	
2	0.7465	1177.3	1198.2	1197.4	0.885	5.672	67.463	19.974	5.366	0.175	0.401	0.026	0.027	0.012	0.000	0.000	0.000	0.000	1386.74	
3	0.7335	1164.5	1185.1	1184.3	0.839	5.307	69.126	19.600	4.603	0.146	0.326	0.021	0.021	0.011	0.000	0.000	0.000	0.000	1383.70	
4	0.7205	1150.0	1170.3	1169.6	0.866	4.928	71.140	18.588	4.030	0.125	0.279	0.018	0.018	0.010	0.000	0.000	0.000	0.000	1378.78	
5	0.7139	1141.6	1161.8	1161.1	0.901	4.770	72.107	18.125	3.691	0.113	0.251	0.016	0.016	0.009	0.000	0.000	0.000	0.000	1375.00	
6	0.7184	1146.7	1167.0	1166.3	0.925	4.846	71.531	18.317	3.935	0.123	0.277	0.018	0.019	0.010	0.000	0.000	0.000	0.000	1376.78	
7	0.7211	1150.5	1170.9	1170.3	0.916	4.871	71.223	18.403	4.109	0.131	0.297	0.020	0.021	0.010	0.000	0.000	0.000	0.000	1378.89	
8	0.7240	1153.0	1173.4	1172.6	0.895	5.027	70.674	18.727	4.196	0.132	0.298	0.020	0.021	0.010	0.000	0.000	0.000	0.000	1379.05	
9	0.7383	1170.0	1190.7	1189.9	0.899	5.326	68.764	19.414	4.991	0.165	0.377	0.026	0.028	0.011	0.000	0.000	0.000	0.000	1385.78	
10	0.7391	1169.9	1190.6	1189.7	0.903	5.401	68.569	19.546	4.983	0.164	0.371	0.025	0.027	0.011	0.000	0.000	0.000	0.000	1384.88	
11	0.7300	1160.3	1180.9	1180.1	0.879	5.163	69.755	19.239	4.436	0.146	0.326	0.022	0.023	0.010	0.000	0.000	0.000	0.000	1382.15	
12	0.7291	1159.7	1180.2	1179.6	0.878	5.120	69.920	19.144	4.406	0.147	0.329	0.022	0.023	0.011	0.000	0.000	0.000	0.000	1382.25	
13	0.7211	1150.3	1170.7	1170.1	0.885	4.931	71.158	18.460	4.088	0.132	0.296	0.019	0.021	0.010	0.000	0.000	0.000	0.000	1378.64	
14	0.7212	1151.3	1171.7	1171.1	0.856	4.922	71.061	18.629	4.070	0.127	0.287	0.018	0.019	0.010	0.000	0.000	0.000	0.000	1379.77	
15	0.7288	1161.4	1182.0	1181.4	0.822	5.078	69.913	19.237	4.433	0.141	0.322	0.021	0.022	0.010	0.000	0.000	0.000	0.000	1384.50	
16	0.7418	1174.6	1195.4	1194.8	0.845	5.453	68.162	19.795	5.110	0.174	0.395	0.026	0.028	0.011	0.000	0.000	0.000	0.000	1387.94	
17	0.7461	1176.5	1197.3	1196.8	0.875	5.695	67.566	19.866	5.325	0.184	0.419	0.028	0.030	0.012	0.000	0.000	0.000	0.000	1386.19	
18	0.7472	1179.0	1199.8	1199.3	0.867	5.665	67.487	19.866	5.410	0.191	0.441	0.030	0.032	0.013	0.000	0.000	0.000	0.000	1388.00	
19	0.7090	1140.1	1160.3	1159.8	0.807	4.540	72.656	18.279	3.345	0.105	0.231	0.015	0.015	0.008	0.000	0.000	0.000	0.000	1378.00	
20	0.7107	1140.2	1160.4	1159.8	0.878	4.584	72.759	17.766	3.555	0.122	0.282	0.020	0.023	0.011	0.000	0.000	0.000	0.000	1376.47	
21	0.7200	1153.3	1173.7	1173.1	0.864	4.686	71.291	18.679	4.014	0.126	0.289	0.019	0.021	0.010	0.000	0.000	0.000	0.000	1383.19	
22	0.7370	1171.6	1192.3	1191.7	0.855	5.170	68.764	19.823	4.827	0.151	0.351	0.024	0.025	0.011	0.000	0.000	0.000	0.000	1388.93	
23	0.7406	1172.1	1192.8	1192.1	0.864	5.470	68.209	19.873	4.990	0.163	0.369	0.024	0.026	0.011	0.000	0.000	0.000	0.000	1386.04	
24	0.7350	1167.3	1187.9	1187.3	0.840	5.270	68.908	19.794	4.653	0.149	0.331	0.022	0.023	0.010	0.000	0.000	0.000	0.000	1385.66	
25	0.7338	1165.1	1185.8	1185.0	0.839	5.288	69.115	19.602	4.625	0.147	0.329	0.021	0.022	0.011	0.000	0.000	0.000	0.000	1384.26	
26	0.7290	1160.3	1180.8	1179.9	0.829	5.148	69.826	19.299	4.390	0.140	0.314	0.021	0.022	0.010	0.000	0.000	0.000	0.000	1383.05	
27	0.7301	1161.0	1181.6	1180.5	0.832	5.208	69.688	19.281	4.475	0.142	0.320	0.021	0.022	0.010	0.000	0.000	0.000	0.000	1382.81	
28	0.7360	1165.5	1186.1	1185.5	0.858	5.452	68.848	19.502	4.792	0.151	0.342	0.022	0.024	0.010	0.000	0.000	0.000	0.000	1382.54	
29	0.7373	1165.9	1186.6	1185.9	0.885	5.502	68.789	19.371	4.840	0.170	0.381	0.025	0.027	0.011	0.000	0.000	0.000	0.000	1381.87	
30	0.7382	1163.9	1184.5	1183.8	0.913	5.663	68.817	19.011	4.926	0.187	0.415	0.027	0.029	0.011	0.000	0.000	0.000	0.000	1378.66	
31	0.7377	1164.4	1185.0	1184.4	0.911	5.590	68.807	19.193	4.857	0.177	0.398	0.026	0.029	0.012	0.000	0.000	0.000	0.000	1379.70	
Avg	0.7307	1161.0	1181.6	1181.0	0.871	5.198	69.706	19.162	4.524	0.148	0.335	0.022	0.023	0.011	0.000	0.000	0.000	0.000	1382.38	

Source Daily Summary

January 2025

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	0.7362	1165.9	1186.5	1186.1	0.891	5.393	68.844	19.559	4.749	0.156	0.350	0.023	0.024	0.011	0.000	0.000	0.000	0.000	1382.83	
2	0.7461	1176.7	1197.6	1197.3	0.885	5.667	67.517	19.953	5.340	0.174	0.399	0.026	0.027	0.012	0.000	0.000	0.000	0.000	1386.44	
3	0.7336	1164.4	1185.0	1184.9	0.840	5.315	69.120	19.592	4.607	0.146	0.327	0.021	0.021	0.011	0.000	0.000	0.000	0.000	1383.58	
4	0.7207	1150.0	1170.3	1170.2	0.864	4.945	71.113	18.591	4.037	0.125	0.279	0.018	0.018	0.010	0.000	0.000	0.000	0.000	1378.63	
5	0.7139	1141.3	1161.5	1161.3	0.899	4.783	72.110	18.118	3.686	0.112	0.250	0.016	0.016	0.009	0.000	0.000	0.000	0.000	1374.75	
6	0.7181	1146.1	1166.4	1166.2	0.926	4.848	71.575	18.289	3.918	0.122	0.276	0.018	0.019	0.010	0.000	0.000	0.000	0.000	1376.45	
7	0.7207	1150.0	1170.4	1170.2	0.916	4.868	71.263	18.393	4.085	0.130	0.296	0.019	0.021	0.010	0.000	0.000	0.000	0.000	1378.64	
8	0.7239	1152.7	1173.2	1173.0	0.897	5.031	70.696	18.698	4.196	0.132	0.299	0.020	0.021	0.010	0.000	0.000	0.000	0.000	1378.84	
9	0.7372	1168.4	1189.1	1188.9	0.898	5.322	68.910	19.339	4.933	0.163	0.372	0.025	0.027	0.011	0.000	0.000	0.000	0.000	1384.92	
10	0.7389	1169.2	1189.9	1189.8	0.903	5.417	68.602	19.510	4.970	0.164	0.370	0.025	0.027	0.011	0.000	0.000	0.000	0.000	1384.34	
11	0.7298	1159.9	1180.4	1180.3	0.881	5.170	69.792	19.198	4.430	0.146	0.327	0.022	0.023	0.010	0.000	0.000	0.000	0.000	1381.81	
12	0.7290	1159.4	1180.0	1179.8	0.877	5.133	69.928	19.125	4.406	0.147	0.329	0.022	0.023	0.011	0.000	0.000	0.000	0.000	1381.97	
13	0.7211	1150.3	1170.6	1170.5	0.887	4.937	71.153	18.455	4.088	0.132	0.297	0.020	0.021	0.010	0.000	0.000	0.000	0.000	1378.52	
14	0.7214	1151.2	1171.6	1171.3	0.859	4.951	71.024	18.622	4.082	0.127	0.288	0.018	0.019	0.010	0.000	0.000	0.000	0.000	1379.35	
15	0.7283	1160.7	1181.3	1180.9	0.822	5.067	69.992	19.207	4.399	0.140	0.319	0.021	0.022	0.010	0.000	0.000	0.000	0.000	1384.21	
16	0.7415	1174.4	1195.2	1194.8	0.845	5.441	68.201	19.782	5.098	0.173	0.394	0.026	0.028	0.011	0.000	0.000	0.000	0.000	1387.95	
17	0.7463	1176.7	1197.5	1197.1	0.877	5.700	67.548	19.865	5.335	0.184	0.420	0.028	0.030	0.012	0.000	0.000	0.000	0.000	1386.19	
18	0.7478	1179.5	1200.4	1200.1	0.870	5.676	67.420	19.883	5.437	0.192	0.446	0.030	0.032	0.013	0.000	0.000	0.000	0.000	1388.17	
19	0.7113	1142.4	1162.7	1162.3	0.808	4.610	72.333	18.390	3.467	0.109	0.242	0.015	0.016	0.008	0.000	0.000	0.000	0.000	1378.61	
20	0.7126	1142.6	1162.9	1162.6	0.884	4.607	72.457	17.957	3.636	0.123	0.283	0.020	0.022	0.011	0.000	0.000	0.000	0.000	1377.54	
21	0.7207	1153.9	1174.3	1173.9	0.865	4.707	71.214	18.685	4.056	0.128	0.294	0.020	0.021	0.011	0.000	0.000	0.000	0.000	1383.29	
22	0.7360	1170.7	1191.4	1191.0	0.856	5.135	68.902	19.772	4.779	0.150	0.347	0.023	0.025	0.011	0.000	0.000	0.000	0.000	1388.74	
23	0.7411	1172.6	1193.4	1192.9	0.866	5.479	68.151	19.884	5.021	0.164	0.372	0.024	0.026	0.011	0.000	0.000	0.000	0.000	1386.25	
24	0.7357	1168.3	1189.0	1188.5	0.842	5.275	68.813	19.831	4.694	0.152	0.337	0.022	0.024	0.010	0.000	0.000	0.000	0.000	1386.18	
25	0.7338	1165.1	1185.8	1185.4	0.840	5.291	69.110	19.603	4.625	0.147	0.329	0.021	0.023	0.011	0.000	0.000	0.000	0.000	1384.23	
26	0.7285	1159.5	1180.0	1179.8	0.830	5.154	69.884	19.263	4.366	0.139	0.312	0.021	0.022	0.010	0.000	0.000	0.000	0.000	1382.52	
27	0.7298	1160.4	1181.0	1180.7	0.831	5.212	69.737	19.243	4.461	0.142	0.320	0.021	0.022	0.010	0.000	0.000	0.000	0.000	1382.46	
28	0.7354	1164.5	1185.1	1184.7	0.857	5.453	68.934	19.455	4.757	0.150	0.339	0.022	0.023	0.010	0.000	0.000	0.000	0.000	1381.97	
29	0.7379	1166.8	1187.4	1186.9	0.886	5.508	68.708	19.403	4.876	0.171	0.384	0.025	0.027	0.011	0.000	0.000	0.000	0.000	1382.28	
30	0.7383	1164.1	1184.7	1184.2	0.909	5.662	68.780	19.065	4.920	0.185	0.411	0.027	0.029	0.011	0.000	0.000	0.000	0.000	1378.87	
31	0.7384	1164.8	1185.5	1185.1	0.916	5.622	68.735	19.165	4.906	0.181	0.407	0.027	0.029	0.012	0.000	0.000	0.000	0.000	1379.56	
Avg	0.7308	1161.0	1181.6	1181.3	0.872	5.206	69.696	19.158	4.528	0.149	0.336	0.022	0.024	0.011	0.000	0.000	0.000	0.000	1382.26	

Source Daily Summary

January 2025

Source #: 662
Name: MAPLETON-WAHPETON

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	0.5903	1031.6	1049.9	1049.7	0.523	0.426	93.270	5.681	0.095	0.003	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1366.47	-89.10
2	0.5906	1031.3	1049.5	1049.4	0.523	0.472	93.216	5.685	0.098	0.004	0.003	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1365.71	-89.02
3	0.5901	1030.2	1048.4	1048.2	0.521	0.496	93.317	5.558	0.103	0.004	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1364.80	-89.55
4	0.5900	1029.8	1048.1	1047.9	0.525	0.504	93.328	5.538	0.101	0.003	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1364.44	-89.68
5	0.5899	1029.9	1048.1	1048.0	0.523	0.492	93.352	5.524	0.103	0.003	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1364.64	-89.72
6	0.5905	1030.9	1049.2	1049.0	0.528	0.477	93.242	5.643	0.105	0.003	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1365.33	-89.14
7	0.5907	1031.2	1049.4	1049.1	0.527	0.481	93.246	5.601	0.135	0.006	0.004	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1365.43	-88.68
8	0.5909	1031.9	1050.1	1049.9	0.522	0.465	93.209	5.648	0.147	0.005	0.004	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1366.13	-88.38
9	0.5910	1031.9	1050.2	1050.0	0.525	0.464	93.186	5.677	0.141	0.004	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1366.11	-88.43
10	0.5910	1031.7	1050.0	1049.7	0.531	0.475	93.177	5.667	0.141	0.005	0.003	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1365.74	-88.40
11	0.5906	1031.0	1049.3	1049.0	0.532	0.471	93.256	5.609	0.126	0.004	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1365.41	-88.93
12	0.5904	1031.0	1049.3	1049.0	0.513	0.483	93.265	5.613	0.118	0.004	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1365.61	-89.06
13	0.5908	1031.5	1049.8	1049.5	0.529	0.471	93.196	5.674	0.123	0.004	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1365.72	-88.69
14	0.5907	1031.5	1049.7	1049.4	0.521	0.470	93.227	5.650	0.125	0.004	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1365.86	-88.78
15	0.5905	1031.3	1049.5	1049.2	0.516	0.473	93.248	5.636	0.119	0.004	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1365.79	-88.95
16	0.5908	1031.9	1050.2	1049.9	0.525	0.451	93.204	5.686	0.127	0.004	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1366.27	-88.57
17	0.5920	1034.1	1052.4	1052.2	0.522	0.434	93.008	5.863	0.160	0.007	0.005	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1367.77	-87.09
18	0.5929	1034.9	1053.2	1053.1	0.530	0.456	92.852	5.972	0.174	0.008	0.007	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1367.84	-86.22
19	0.5913	1032.4	1050.7	1050.6	0.546	0.436	93.108	5.787	0.116	0.004	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1366.37	-88.23
20	0.5907	1031.4	1049.6	1049.4	0.528	0.474	93.228	5.629	0.130	0.005	0.004	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1365.62	-88.63
21	0.5904	1031.6	1049.9	1049.7	0.514	0.447	93.285	5.615	0.131	0.005	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1366.35	-88.83
22	0.5908	1032.0	1050.3	1050.1	0.519	0.456	93.215	5.655	0.145	0.005	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1366.39	-88.37
23	0.5914	1032.8	1051.0	1050.9	0.514	0.469	93.134	5.700	0.166	0.008	0.007	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1366.73	-87.58
24	0.5912	1032.6	1050.9	1050.7	0.523	0.444	93.132	5.768	0.127	0.004	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1366.82	-88.22
25	0.5908	1032.0	1050.3	1050.0	0.530	0.442	93.184	5.729	0.109	0.004	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1366.34	-88.65
26	0.5908	1032.2	1050.4	1050.2	0.530	0.427	93.197	5.731	0.108	0.004	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1366.62	-88.62
27	0.5909	1032.4	1050.7	1050.5	0.523	0.431	93.173	5.757	0.109	0.004	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1366.83	-88.53
28	0.5910	1032.3	1050.6	1050.4	0.531	0.437	93.145	5.774	0.106	0.004	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1366.59	-88.47
29	0.5894	1030.2	1048.5	1048.3	0.520	0.403	93.155	5.804	0.111	0.004	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1365.69	-88.27
30	0.5911	1032.6	1050.9	1050.7	0.535	0.422	93.146	5.780	0.111	0.004	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1366.83	-88.35
31	0.5908	1032.6	1050.9	1050.7	0.533	0.398	93.197	5.757	0.108	0.004	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1367.18	-88.49
Avg	0.5908	1032.0	1050.0	1049.8	0.525	0.456	93.197	5.691	0.123	0.004	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1366.11	-88.57

Source Daily Summary

January 2025

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	0.6898	1130.1	1150.1	1149.7	0.681	3.553	74.923	18.604	2.031	0.062	0.127	0.008	0.008	0.003	0.000	0.000	0.000	0.000	1384.76	
2	0.6854	1127.4	1147.4	1147.1	0.637	3.360	75.470	18.608	1.756	0.054	0.101	0.006	0.006	0.003	0.000	0.000	0.000	0.000	1385.97	
3	0.7012	1136.7	1156.8	1156.5	0.754	4.103	73.793	18.038	2.983	0.092	0.207	0.013	0.013	0.005	0.000	0.000	0.000	0.000	1381.56	
4	0.6859	1118.1	1137.9	1137.6	0.823	3.692	76.113	16.913	2.222	0.067	0.145	0.010	0.010	0.004	0.000	0.000	0.000	0.000	1374.09	
5	0.6714	1102.0	1121.5	1121.2	0.870	3.241	78.209	16.100	1.435	0.042	0.088	0.006	0.006	0.003	0.000	0.000	0.000	0.000	1368.76	
6	0.6651	1096.1	1115.5	1115.2	0.849	3.045	79.134	15.720	1.143	0.033	0.065	0.004	0.004	0.002	0.000	0.000	0.000	0.000	1367.80	
7	0.6692	1101.8	1121.3	1121.0	0.814	3.139	78.373	16.307	1.246	0.037	0.072	0.005	0.005	0.003	0.000	0.000	0.000	0.000	1370.65	
8	0.6718	1105.8	1125.4	1125.1	0.754	3.225	77.939	16.569	1.376	0.042	0.082	0.005	0.005	0.003	0.000	0.000	0.000	0.000	1373.06	
9	0.6737	1108.8	1128.5	1128.2	0.761	3.215	77.515	17.025	1.350	0.041	0.080	0.005	0.005	0.003	0.000	0.000	0.000	0.000	1374.79	
10	0.6745	1110.1	1129.8	1129.5	0.746	3.226	77.334	17.224	1.337	0.041	0.079	0.005	0.005	0.003	0.000	0.000	0.000	0.000	1375.68	
11	0.6757	1111.2	1130.9	1130.6	0.732	3.298	77.158	17.252	1.416	0.044	0.085	0.006	0.006	0.003	0.000	0.000	0.000	0.000	1375.73	
12	0.6672	1099.8	1119.3	1119.0	0.772	3.128	78.722	16.044	1.211	0.037	0.073	0.005	0.005	0.003	0.000	0.000	0.000	0.000	1370.33	
13	0.6694	1103.9	1123.4	1123.2	0.727	3.158	78.264	16.468	1.264	0.037	0.071	0.004	0.004	0.002	0.000	0.000	0.000	0.000	1373.10	
14	0.6757	1113.5	1133.2	1132.9	0.648	3.287	77.186	17.215	1.517	0.046	0.088	0.006	0.005	0.003	0.000	0.000	0.000	0.000	1378.54	
15	0.6778	1118.0	1137.8	1137.4	0.553	3.357	76.754	17.565	1.623	0.047	0.088	0.005	0.005	0.003	0.000	0.000	0.000	0.000	1381.94	
16	0.6789	1118.6	1138.4	1138.1	0.566	3.400	76.529	17.743	1.617	0.046	0.085	0.005	0.005	0.003	0.000	0.000	0.000	0.000	1381.60	
17	0.6919	1130.5	1150.5	1150.2	0.616	3.816	74.804	18.183	2.326	0.073	0.158	0.010	0.011	0.004	0.000	0.000	0.000	0.000	1383.29	
18	0.6762	1112.4	1132.1	1131.9	0.676	3.355	77.162	17.076	1.585	0.045	0.088	0.005	0.006	0.003	0.000	0.000	0.000	0.000	1376.78	
19	0.6740	1105.1	1124.7	1124.5	0.831	3.351	77.746	16.386	1.527	0.046	0.097	0.006	0.006	0.003	0.000	0.000	0.000	0.000	1370.06	
20	0.7065	1140.8	1161.0	1160.7	0.821	4.240	73.211	18.025	3.326	0.102	0.239	0.015	0.016	0.005	0.000	0.000	0.000	0.000	1381.35	
21	0.6843	1122.3	1142.1	1141.9	0.691	3.492	75.902	17.823	1.909	0.055	0.111	0.007	0.007	0.003	0.000	0.000	0.000	0.000	1380.74	
22	0.6839	1124.9	1144.8	1144.6	0.628	3.385	75.754	18.319	1.747	0.053	0.099	0.006	0.006	0.003	0.000	0.000	0.000	0.000	1384.40	
23	0.6838	1125.7	1145.6	1145.4	0.631	3.330	75.667	18.543	1.680	0.048	0.089	0.005	0.005	0.003	0.000	0.000	0.000	0.000	1385.41	
24	0.6799	1119.8	1139.6	1139.3	0.611	3.355	76.305	18.032	1.556	0.045	0.083	0.005	0.005	0.003	0.000	0.000	0.000	0.000	1382.05	
25	0.6768	1114.4	1134.1	1133.9	0.630	3.361	76.861	17.548	1.462	0.043	0.082	0.005	0.005	0.003	0.000	0.000	0.000	0.000	1378.59	
26	0.6762	1112.9	1132.6	1132.3	0.640	3.388	77.036	17.289	1.498	0.046	0.089	0.006	0.006	0.003	0.000	0.000	0.000	0.000	1377.24	
27	0.6765	1113.1	1132.8	1132.5	0.654	3.377	76.994	17.332	1.492	0.046	0.090	0.006	0.006	0.003	0.000	0.000	0.000	0.000	1377.27	
28	0.6767	1112.8	1132.5	1132.2	0.698	3.349	76.911	17.484	1.417	0.044	0.084	0.006	0.005	0.003	0.000	0.000	0.000	0.000	1376.66	
29	0.6745	1108.7	1128.3	1128.0	0.735	3.336	77.197	17.341	1.273	0.037	0.069	0.004	0.004	0.003	0.000	0.000	0.000	0.000	1373.84	
30	0.6709	1100.7	1120.2	1119.9	0.795	3.394	77.785	16.813	1.117	0.030	0.056	0.004	0.003	0.002	0.000	0.000	0.000	0.000	1367.60	
31	0.6735	1108.0	1127.7	1127.4	0.716	3.309	77.257	17.435	1.192	0.029	0.053	0.003	0.003	0.002	0.000	0.000	0.000	0.000	1374.08	
Avg	0.6787	1115.0	1134.4	1134.1	0.712	3.396	76.774	17.323	1.633	0.049	0.098	0.006	0.006	0.003	0.000	0.000	0.000	0.000	1377.02	

Source Daily Summary

January 2025

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	0.6877	1131.3	1151.3	1151.1	0.633	3.358	74.886	19.271	1.696	0.053	0.094	0.005	0.004	0.000	0.000	0.000	0.000	0.000	1388.27	
2	0.6848	1126.9	1146.9	1146.7	0.598	3.395	75.516	18.587	1.741	0.055	0.098	0.005	0.005	0.000	0.000	0.000	0.000	0.000	1385.94	
3	0.6822	1122.7	1142.6	1142.4	0.625	3.374	75.870	18.401	1.583	0.049	0.088	0.005	0.005	0.000	0.000	0.000	0.000	0.000	1383.31	
4	0.6787	1113.3	1133.0	1132.8	0.781	3.379	76.549	17.746	1.409	0.045	0.081	0.005	0.005	0.000	0.000	0.000	0.000	0.000	1375.26	
5	0.6795	1115.6	1135.3	1135.2	0.733	3.391	76.378	17.913	1.445	0.046	0.085	0.005	0.005	0.000	0.000	0.000	0.000	0.000	1377.26	
6	0.6800	1116.0	1135.8	1135.6	0.739	3.397	76.278	18.014	1.433	0.046	0.084	0.005	0.005	0.000	0.000	0.000	0.000	0.000	1377.37	
7	0.6791	1115.4	1135.1	1134.9	0.706	3.406	76.475	17.791	1.476	0.048	0.088	0.005	0.005	0.000	0.000	0.000	0.000	0.000	1377.41	
8	0.6795	1117.1	1136.9	1136.7	0.702	3.345	76.323	18.072	1.420	0.046	0.084	0.005	0.005	0.000	0.000	0.000	0.000	0.000	1379.17	
9	0.6795	1117.3	1137.1	1136.9	0.712	3.311	76.279	18.203	1.363	0.043	0.079	0.005	0.004	0.000	0.000	0.000	0.000	0.000	1379.50	
10	0.6787	1115.6	1135.3	1135.2	0.704	3.354	76.502	17.877	1.423	0.046	0.084	0.005	0.005	0.000	0.000	0.000	0.000	0.000	1378.13	
11	0.6763	1112.0	1131.7	1131.5	0.685	3.379	76.903	17.529	1.371	0.044	0.081	0.005	0.004	0.000	0.000	0.000	0.000	0.000	1376.12	
12	0.6756	1111.1	1130.8	1130.6	0.651	3.419	77.013	17.398	1.385	0.044	0.080	0.005	0.004	0.000	0.000	0.000	0.000	0.000	1375.73	
13	0.6798	1120.1	1139.9	1139.7	0.586	3.361	76.275	18.108	1.532	0.047	0.084	0.005	0.004	0.000	0.000	0.000	0.000	0.000	1382.58	
14	0.6787	1117.9	1137.7	1137.5	0.595	3.379	76.497	17.860	1.527	0.047	0.086	0.005	0.004	0.000	0.000	0.000	0.000	0.000	1380.99	
15	0.6810	1122.2	1142.1	1141.9	0.541	3.410	76.027	18.299	1.587	0.047	0.082	0.004	0.004	0.000	0.000	0.000	0.000	0.000	1384.02	
16	0.6796	1120.5	1140.3	1140.2	0.523	3.419	76.176	18.246	1.515	0.042	0.073	0.004	0.003	0.000	0.000	0.000	0.000	0.000	1383.24	
17	0.6798	1119.5	1139.3	1139.1	0.572	3.422	76.192	18.178	1.513	0.043	0.074	0.004	0.003	0.000	0.000	0.000	0.000	0.000	1381.80	
18	0.6780	1114.2	1133.9	1133.7	0.707	3.369	76.589	17.814	1.398	0.041	0.073	0.004	0.004	0.000	0.000	0.000	0.000	0.000	1377.10	
19	0.6779	1113.3	1133.0	1132.8	0.750	3.354	76.544	17.921	1.319	0.038	0.067	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1376.06	
20	0.6812	1119.7	1139.5	1139.4	0.701	3.348	76.023	18.309	1.491	0.044	0.077	0.004	0.003	0.000	0.000	0.000	0.000	0.000	1380.64	
21	0.6849	1126.8	1146.7	1146.5	0.609	3.397	75.433	18.734	1.672	0.052	0.092	0.006	0.005	0.000	0.000	0.000	0.000	0.000	1385.65	
22	0.6864	1129.5	1149.5	1149.3	0.619	3.360	75.083	19.142	1.654	0.049	0.085	0.004	0.004	0.000	0.000	0.000	0.000	0.000	1387.44	
23	0.6831	1124.6	1144.5	1144.3	0.603	3.373	75.642	18.681	1.565	0.046	0.082	0.004	0.004	0.000	0.000	0.000	0.000	0.000	1384.75	
24	0.6790	1118.0	1137.8	1137.6	0.609	3.385	76.341	18.085	1.450	0.044	0.078	0.004	0.004	0.000	0.000	0.000	0.000	0.000	1380.74	
25	0.6781	1115.9	1135.6	1135.5	0.620	3.410	76.559	17.817	1.456	0.046	0.083	0.005	0.005	0.000	0.000	0.000	0.000	0.000	1379.09	
26	0.6783	1115.7	1135.5	1135.3	0.636	3.412	76.568	17.767	1.473	0.047	0.086	0.005	0.005	0.000	0.000	0.000	0.000	0.000	1378.68	
27	0.6786	1115.6	1135.3	1135.2	0.683	3.376	76.463	17.949	1.395	0.044	0.081	0.005	0.005	0.000	0.000	0.000	0.000	0.000	1378.25	
28	0.6766	1111.9	1131.6	1131.4	0.721	3.363	76.708	17.844	1.255	0.037	0.066	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1375.64	
29	0.6715	1101.8	1121.3	1121.1	0.772	3.407	77.232	17.391	1.111	0.031	0.053	0.002	0.001	0.000	0.000	0.000	0.000	0.000	1368.33	
30	0.6756	1110.8	1130.4	1130.3	0.723	3.329	76.766	17.947	1.154	0.029	0.050	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1375.33	
31	0.6759	1112.4	1132.1	1131.9	0.658	3.353	76.839	17.746	1.298	0.037	0.063	0.003	0.002	0.000	0.000	0.000	0.000	0.000	1377.07	
Avg	0.6795	1118.0	1137.4	1137.2	0.661	3.379	76.288	18.085	1.455	0.044	0.079	0.004	0.004	0.000	0.000	0.000	0.000	0.000	1379.71	

Source Daily Summary

January 2025

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	0.6786	1114.1	1133.8	1132.9	0.660	3.503	77.059	16.683	1.892	0.065	0.122	0.008	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1376.34
2	0.6788	1114.3	1134.1	1133.2	0.659	3.503	77.022	16.725	1.889	0.065	0.121	0.008	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1376.49
3	0.6786	1114.3	1134.0	1133.1	0.656	3.499	77.037	16.731	1.878	0.064	0.119	0.008	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1376.55
4	0.6787	1114.3	1134.0	1133.2	0.651	3.509	77.037	16.712	1.891	0.065	0.120	0.008	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1376.54
5	0.6786	1114.3	1134.0	1133.1	0.648	3.509	77.041	16.713	1.889	0.065	0.120	0.008	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1376.57
6	0.6787	1114.5	1134.3	1133.3	0.643	3.511	77.013	16.745	1.888	0.065	0.119	0.008	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1376.77
7	0.6787	1114.5	1134.2	1133.3	0.639	3.518	77.020	16.725	1.898	0.065	0.120	0.008	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1376.77
8	0.6784	1114.2	1133.9	1132.9	0.633	3.516	77.081	16.675	1.895	0.065	0.120	0.008	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1376.68
9	0.6784	1114.3	1134.1	1133.1	0.627	3.519	77.063	16.694	1.896	0.065	0.120	0.008	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1376.85
10	0.6787	1114.6	1134.4	1133.5	0.626	3.522	77.033	16.710	1.909	0.065	0.120	0.008	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1377.01
11	0.6790	1115.3	1135.1	1134.2	0.622	3.522	76.956	16.787	1.914	0.065	0.120	0.008	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1377.47
12	0.6791	1115.5	1135.2	1134.3	0.618	3.522	76.944	16.804	1.912	0.065	0.120	0.008	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1377.63
13	0.6787	1115.0	1134.7	1133.8	0.615	3.525	76.999	16.760	1.902	0.065	0.119	0.008	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1377.37
14	0.6786	1114.9	1134.6	1133.7	0.612	3.525	77.015	16.755	1.893	0.065	0.119	0.008	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1377.32
15	0.6787	1115.0	1134.7	1133.8	0.608	3.530	77.000	16.764	1.899	0.065	0.119	0.008	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1377.40
16	0.6782	1114.5	1134.2	1133.3	0.612	3.516	77.066	16.729	1.883	0.063	0.116	0.008	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1377.22
17	0.6788	1115.2	1135.0	1134.1	0.608	3.528	76.978	16.782	1.907	0.064	0.118	0.008	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1377.58
18	0.6789	1115.5	1135.2	1134.7	0.603	3.533	76.951	16.804	1.913	0.065	0.118	0.008	0.006	0.000	0.000	0.000	0.000	0.000	0.000	1377.75
19	0.6787	1115.2	1135.0	1134.3	0.596	3.534	76.983	16.788	1.902	0.064	0.118	0.008	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1377.72
20	0.6784	1114.9	1134.6	1133.9	0.600	3.520	77.021	16.787	1.878	0.063	0.116	0.008	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1377.61
21	0.6781	1114.5	1134.2	1133.3	0.598	3.517	77.074	16.749	1.870	0.063	0.115	0.008	0.006	0.000	0.000	0.000	0.000	0.000	0.000	1377.44
22	0.6784	1115.0	1134.8	1133.9	0.589	3.535	77.017	16.768	1.895	0.064	0.118	0.008	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1377.72
23	0.6783	1114.7	1134.5	1133.5	0.589	3.537	77.059	16.721	1.897	0.064	0.118	0.008	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1377.50
24	0.6781	1114.6	1134.3	1133.4	0.586	3.538	77.079	16.701	1.898	0.064	0.118	0.008	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1377.44
25	0.6781	1114.6	1134.4	1133.5	0.589	3.531	77.065	16.736	1.885	0.064	0.117	0.008	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1377.53
26	0.6778	1114.1	1133.8	1132.9	0.589	3.527	77.130	16.684	1.876	0.063	0.116	0.008	0.006	0.000	0.000	0.000	0.000	0.000	0.000	1377.25
27	0.6777	1114.1	1133.9	1132.9	0.581	3.537	77.138	16.662	1.888	0.064	0.116	0.008	0.006	0.000	0.000	0.000	0.000	0.000	0.000	1377.29
28	0.6778	1114.6	1134.3	1133.5	0.572	3.534	77.099	16.724	1.878	0.063	0.116	0.008	0.006	0.000	0.000	0.000	0.000	0.000	0.000	1377.71
29	0.6761	1111.5	1131.1	1130.3	0.572	3.539	77.013	16.711	1.876	0.063	0.115	0.008	0.006	0.000	0.000	0.000	0.000	0.000	0.000	1375.69
30	0.6705	1103.9	1123.5	1122.6	0.559	3.508	78.256	15.914	1.606	0.052	0.092	0.007	0.006	0.000	0.000	0.000	0.000	0.000	0.000	1372.07
31	0.6780	1115.0	1134.7	1133.8	0.578	3.518	77.041	16.814	1.858	0.063	0.114	0.008	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1378.04
Avg	0.6781	1114.0	1134.0	1133.1	0.611	3.522	77.074	16.712	1.882	0.064	0.117	0.008	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1377.01

Source Daily Summary

January 2025

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	0.6979	1144.3	1164.5	1162.5	1.067	2.878	71.795	23.766	0.479	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1393.93	-23.99
2	0.6978	1143.4	1163.7	1161.7	1.078	2.896	71.834	23.702	0.475	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1393.08	-24.16
3	0.6970	1142.4	1162.7	1160.6	1.082	2.882	71.985	23.572	0.465	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1392.60	-24.57
4	0.6967	1141.8	1162.0	1160.3	1.080	2.892	72.041	23.512	0.461	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1392.17	-24.76
5	0.6967	1142.1	1162.3	1160.1	1.069	2.889	72.048	23.512	0.468	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1392.55	-24.71
6	0.6976	1143.2	1163.5	1161.5	1.080	2.888	71.872	23.678	0.468	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1393.03	-24.28
7	0.6985	1144.8	1165.0	1162.6	1.085	2.876	71.704	23.836	0.485	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1393.95	-23.72
8	0.6988	1145.2	1165.5	1163.4	1.079	2.884	71.649	23.883	0.490	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1394.22	-23.57
9	0.6985	1144.5	1164.7	1163.1	1.082	2.900	71.703	23.801	0.498	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1393.58	-23.70
10	0.6978	1143.5	1163.8	1161.8	1.073	2.903	71.829	23.697	0.483	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1393.14	-24.11
11	0.6975	1143.1	1163.4	1161.8	1.069	2.906	71.865	23.680	0.466	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1392.97	-24.32
12	0.6977	1143.2	1163.4	1161.6	1.080	2.903	71.842	23.693	0.468	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1392.85	-24.24
13	0.6983	1143.9	1164.1	1161.8	1.082	2.916	71.724	23.785	0.478	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1393.05	-23.93
14	0.6980	1143.2	1163.4	1161.0	1.077	2.935	71.803	23.674	0.495	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1392.53	-24.06
15	0.6984	1143.7	1163.9	1162.1	1.079	2.939	71.725	23.742	0.499	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1392.75	-23.85
16	0.6975	1142.6	1162.9	1160.8	1.074	2.926	71.892	23.607	0.486	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1392.37	-24.32
17	0.6972	1141.8	1162.0	1160.3	1.089	2.928	71.931	23.581	0.457	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1391.65	-24.61
18	0.6971	1141.8	1162.0	1160.1	1.090	2.920	71.953	23.568	0.455	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1391.70	-24.65
19	0.6975	1142.0	1162.2	1160.2	1.100	2.925	71.890	23.618	0.453	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1391.60	-24.53
20	0.6973	1142.1	1162.3	1160.0	1.087	2.920	71.930	23.581	0.467	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1391.92	-24.52
21	0.6977	1142.8	1163.0	1161.1	1.084	2.921	71.854	23.644	0.482	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1392.35	-24.24
22	0.6981	1143.2	1163.4	1161.5	1.098	2.912	71.793	23.702	0.480	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1392.45	-24.08
23	0.6980	1142.7	1163.0	1160.6	1.096	2.934	71.807	23.667	0.482	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1392.00	-24.16
24	0.6984	1143.0	1163.2	1161.7	1.109	2.937	71.730	23.732	0.477	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1391.91	-24.01
25	0.6978	1142.3	1162.5	1160.5	1.095	2.945	71.829	23.643	0.473	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1391.64	-24.30
26	0.6976	1142.5	1162.7	1160.6	1.088	2.922	71.879	23.622	0.474	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1392.10	-24.36
27	0.6977	1142.6	1162.9	1160.9	1.090	2.916	71.879	23.608	0.492	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1392.22	-24.23
28	0.6987	1144.4	1164.6	1162.8	1.084	2.917	71.672	23.815	0.497	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1393.32	-23.68
29	0.6993	1145.2	1165.5	1163.8	1.096	2.908	71.555	23.931	0.495	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1393.67	-23.38
30	0.6994	1145.5	1165.8	1164.1	1.085	2.914	71.523	23.966	0.496	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1393.98	-23.31
31	0.6986	1144.3	1164.5	1162.8	1.080	2.922	71.658	23.857	0.469	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1393.25	-23.83
Avg	0.6979	1143.0	1163.5	1161.5	1.084	2.911	71.813	23.699	0.478	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1392.73	-24.13

Source Daily Summary

January 2025

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	0.6587	1084.7	1103.9	1103.5	0.810	3.202	80.288	14.529	1.068	0.032	0.060	0.004	0.004	0.002	0.000	0.000	0.000	0.000	1360.09	
2	0.6582	1083.7	1102.9	1102.6	0.805	3.215	80.389	14.428	1.061	0.032	0.060	0.004	0.004	0.003	0.000	0.000	0.000	0.000	1359.48	
3	0.6580	1083.7	1102.8	1102.6	0.805	3.207	80.403	14.432	1.052	0.032	0.059	0.004	0.004	0.002	0.000	0.000	0.000	0.000	1359.52	
4	0.6580	1083.7	1102.9	1102.6	0.804	3.202	80.407	14.437	1.048	0.031	0.059	0.004	0.004	0.002	0.000	0.000	0.000	0.000	1359.61	
5	0.6582	1084.2	1103.3	1103.1	0.800	3.200	80.365	14.480	1.053	0.032	0.059	0.004	0.004	0.002	0.000	0.000	0.000	0.000	1359.96	
6	0.6580	1083.9	1103.1	1102.9	0.797	3.195	80.406	14.454	1.046	0.031	0.059	0.004	0.004	0.003	0.000	0.000	0.000	0.000	1359.94	
7	0.6568	1081.6	1100.7	1100.5	0.787	3.242	80.639	14.180	1.049	0.032	0.060	0.004	0.004	0.003	0.000	0.000	0.000	0.000	1358.21	
8	0.6572	1082.2	1101.4	1101.0	0.776	3.256	80.572	14.218	1.071	0.033	0.062	0.004	0.004	0.003	0.000	0.000	0.000	0.000	1358.63	
9	0.6567	1081.3	1100.5	1100.2	0.781	3.255	80.661	14.147	1.053	0.032	0.060	0.004	0.004	0.003	0.000	0.000	0.000	0.000	1358.03	
10	0.6563	1080.7	1099.9	1099.5	0.777	3.262	80.726	14.085	1.047	0.032	0.060	0.004	0.004	0.003	0.000	0.000	0.000	0.000	1357.67	
11	0.6569	1081.9	1101.1	1100.7	0.767	3.268	80.609	14.181	1.070	0.033	0.061	0.004	0.004	0.003	0.000	0.000	0.000	0.000	1358.46	
12	0.6576	1083.2	1102.4	1102.1	0.766	3.257	80.478	14.314	1.079	0.033	0.062	0.004	0.004	0.003	0.000	0.000	0.000	0.000	1359.34	
13	0.6576	1083.3	1102.4	1102.1	0.762	3.254	80.488	14.310	1.080	0.033	0.062	0.004	0.004	0.003	0.000	0.000	0.000	0.000	1359.49	
14	0.6576	1083.3	1102.5	1102.2	0.761	3.253	80.481	14.317	1.081	0.033	0.062	0.004	0.004	0.003	0.000	0.000	0.000	0.000	1359.56	
15	0.6581	1084.5	1103.7	1103.3	0.762	3.225	80.375	14.462	1.070	0.033	0.061	0.004	0.004	0.003	0.000	0.000	0.000	0.000	1360.53	
16	0.6573	1083.4	1102.6	1102.2	0.762	3.216	80.497	14.385	1.038	0.032	0.059	0.004	0.004	0.003	0.000	0.000	0.000	0.000	1360.00	
17	0.6576	1083.9	1103.1	1102.8	0.754	3.234	80.443	14.407	1.059	0.032	0.061	0.004	0.004	0.003	0.000	0.000	0.000	0.000	1360.21	
18	0.6582	1084.7	1103.9	1103.7	0.751	3.239	80.346	14.479	1.078	0.033	0.062	0.004	0.004	0.002	0.000	0.000	0.000	0.000	1360.70	
19	0.6593	1087.0	1106.3	1106.1	0.751	3.204	80.136	14.711	1.090	0.033	0.063	0.004	0.004	0.002	0.000	0.000	0.000	0.000	1362.42	
20	0.6593	1087.2	1106.4	1106.2	0.751	3.194	80.129	14.740	1.079	0.033	0.062	0.004	0.004	0.003	0.000	0.000	0.000	0.000	1362.61	
21	0.6588	1086.3	1105.5	1105.2	0.750	3.197	80.231	14.646	1.070	0.033	0.062	0.004	0.004	0.003	0.000	0.000	0.000	0.000	1362.09	
22	0.6593	1087.0	1106.3	1106.0	0.743	3.211	80.141	14.707	1.090	0.033	0.063	0.004	0.004	0.003	0.000	0.000	0.000	0.000	1362.48	
23	0.6585	1085.7	1104.9	1104.6	0.742	3.222	80.283	14.567	1.079	0.033	0.063	0.004	0.004	0.003	0.000	0.000	0.000	0.000	1361.60	
24	0.6564	1082.0	1101.2	1100.9	0.745	3.240	80.664	14.219	1.031	0.032	0.060	0.004	0.004	0.003	0.000	0.000	0.000	0.000	1359.22	
25	0.6580	1084.9	1104.1	1103.8	0.739	3.225	80.376	14.490	1.064	0.033	0.062	0.004	0.004	0.003	0.000	0.000	0.000	0.000	1361.13	
26	0.6573	1083.8	1103.0	1102.7	0.740	3.228	80.490	14.387	1.050	0.032	0.061	0.004	0.004	0.003	0.000	0.000	0.000	0.000	1360.46	
27	0.6576	1084.3	1103.5	1103.3	0.731	3.237	80.437	14.424	1.064	0.033	0.062	0.004	0.004	0.003	0.000	0.000	0.000	0.000	1360.83	
28	0.6594	1087.7	1106.9	1106.7	0.716	3.228	80.100	14.740	1.106	0.034	0.064	0.004	0.004	0.003	0.000	0.000	0.000	0.000	1363.13	
29	0.6590	1087.0	1106.3	1106.0	0.714	3.227	80.176	14.680	1.094	0.034	0.063	0.004	0.004	0.003	0.000	0.000	0.000	0.000	1362.78	
30	0.6597	1087.9	1107.1	1106.8	0.700	3.261	80.075	14.710	1.140	0.035	0.066	0.005	0.004	0.003	0.000	0.000	0.000	0.000	1363.13	
31	0.6579	1084.9	1104.1	1103.8	0.717	3.249	80.389	14.456	1.081	0.033	0.063	0.004	0.004	0.003	0.000	0.000	0.000	0.000	1361.24	
Avg	0.6580	1084.0	1103.5	1103.2	0.760	3.229	80.394	14.443	1.069	0.033	0.061	0.004	0.004	0.003	0.000	0.000	0.000	0.000	1360.40	

January-25

ZONE 550

MANDAN BORDER

NBPL - St Anthony

WBI - Mandan Border

Weighted

Start Date	End Date	MCF	DK	BTU	MCF	DK	BTU Zone 28	AVG BTU	
1/1/2025	1/2/2025	2,509	2,739	1091.4	3,549	4,084	1150.1	1125.789	1/1/2025
1/2/2025	1/3/2025	2,564	2,796	1090.2	5,029	5,770	1147.4	1128.085	1/2/2025
1/3/2025	1/4/2025	2,579	2,817	1092.2	6,189	7,169	1156.8	1137.799	1/3/2025
1/4/2025	1/5/2025	2,567	2,801	1,091	6,397	7,288	1137.9	1124.584	1/4/2025
1/5/2025	1/6/2025	2,570	2,806	1091.8	5,745	6,450	1121.5	1112.320	1/5/2025
1/6/2025	1/7/2025	2,558	2,792	1091.8	5,342	5,957	1115.5	1107.826	1/6/2025
1/7/2025	1/8/2025	2,550	2,784	1,092	5,419	6,076	1121.3	1111.828	1/7/2025
1/8/2025	1/9/2025	1,665	1,823	1095.9	3,884	4,371	1125.4	1116.548	1/8/2025
1/9/2025	1/10/2025	1,582	1,738	1,099	3,798	4,285	1128.5	1119.737	1/9/2025
1/10/2025	1/11/2025	1,358	1,490	1,097	4,031	4,554	1129.8	1121.585	1/10/2025
1/11/2025	1/12/2025	1,867	2,038	1091.3	4,538	5,131	1130.9	1119.357	1/11/2025
1/12/2025	1/13/2025	2,390	2,624	1097.9	5,965	6,676	1119.3	1113.178	1/12/2025
1/13/2025	1/14/2025	6,576	7,201	1,095	7,172	8,060	1123.4	1110.007	1/13/2025
1/14/2025	1/15/2025	18,434	20,207	1095.6	5,716	6,480	1133.9	1104.665	1/14/2025
1/15/2025	1/16/2025	799	874	1092.6	4,259	4,845	1137.8	1130.660	1/15/2025
1/16/2025	1/17/2025	681	746	1,096	3,986	4,537	1138.4	1132.140	1/16/2025
1/17/2025	1/18/2025	2,471	2,698	1091.8	4,933	5,673	1150.5	1130.910	1/17/2025
1/18/2025	1/19/2025	2,582	2,821	1092.5	7,303	8,263	1132.1	1121.756	1/18/2025
1/19/2025	1/20/2025	2,381	2,600	1,092	7,794	8,754	1124.7	1117.001	1/19/2025
1/20/2025	1/21/2025	2,516	2,736	1087.8	8,554	9,925	1161	1144.363	1/20/2025
1/21/2025	1/22/2025	1,601	1,735	1,084	5,183	5,930	1142.1	1128.271	1/21/2025
1/22/2025	1/23/2025	2,327	2,535	1,089	4,763	5,454	1144.8	1126.552	1/22/2025
1/23/2025	1/24/2025	1,794	1,957	1090.8	4,585	5,253	1145.6	1130.188	1/23/2025
1/24/2025	1/25/2025	2,323	2,534	1091	3,514	4,004	1139.6	1120.258	1/24/2025
1/25/2025	1/26/2025	2,401	2,620	1,091	4,499	5,103	1134.1	1119.207	1/25/2025
1/26/2025	1/27/2025	2,388	2,610	1093.2	3,196	3,620	1132.6	1115.751	1/26/2025
1/27/2025	1/28/2025	2,381	2,602	1092.5	2,170	2,459	1132.8	1111.716	1/27/2025
1/28/2025	1/29/2025	2,399	2,621	1,093	1,876	2,123	1132.5	1110.165	1/28/2025
1/29/2025	1/30/2025	2,389	2,611	1,093	1,686	1,901	1128	1107.305	1/29/2025
1/30/2025	1/31/2025	2,402	2,623	1,092	2,111	2,368	1120.4	1105.497	1/30/2025
1/31/2025	2/1/2025	2,394	2,612	1,091	3,797	4,281	1127.7	1113.624	1/31/2025
		87,998	96,191	1092.4226	146,983	166,844	1134.4000	1119.9572	



Alliance Pipeline

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

DAY	Heating Value (BTU/ft3)	Relative Density	C1 Mol%	C2 Mol%	C3 Mol%	IC4 Mol%	NC4 Mol%	IC5 Mol%	NC5 Mol%	C6+ Mol%	N2 Mol%	CO2 Mol%	Hel Mol%
1	1,156.660	0.6616	84.0996	10.1179	3.4370	0.3498	0.5864	0.0613	0.0476	0.0167	0.8482	0.4275	0.0078
2	1,156.279	0.6610	84.1905	10.0769	3.4188	0.3503	0.5827	0.0617	0.0474	0.0165	0.8270	0.4202	0.0078
3	1,155.658	0.6603	84.3208	10.0019	3.3928	0.3497	0.5838	0.0627	0.0475	0.0165	0.7980	0.4185	0.0078
4	1,154.718	0.6596	84.3920	9.9806	3.3649	0.3454	0.5726	0.0617	0.0470	0.0164	0.7897	0.4219	0.0078
5	1,152.950	0.6587	84.4962	9.9369	3.3173	0.3395	0.5567	0.0595	0.0461	0.0166	0.7949	0.4287	0.0077
6	1,153.794	0.6591	84.4470	9.9517	3.3402	0.3429	0.5653	0.0609	0.0468	0.0168	0.7987	0.4219	0.0077
7	1,154.427	0.6595	84.4175	9.9537	3.3560	0.3471	0.5753	0.0618	0.0471	0.0165	0.7999	0.4174	0.0077
8	1,154.807	0.6599	84.3611	9.9729	3.3731	0.3472	0.5800	0.0618	0.0473	0.0167	0.8088	0.4233	0.0079
9	1,155.759	0.6607	84.2747	10.0062	3.4025	0.3500	0.5881	0.0631	0.0485	0.0173	0.8120	0.4298	0.0078
10	1,155.569	0.6604	84.2819	10.0291	3.3852	0.3480	0.5830	0.0626	0.0486	0.0176	0.8104	0.4255	0.0081
11	1,156.116	0.6610	84.1998	10.0723	3.3962	0.3490	0.5908	0.0633	0.0487	0.0177	0.8312	0.4230	0.0079
12	1,154.661	0.6598	84.3231	10.0478	3.3498	0.3413	0.5700	0.0611	0.0478	0.0172	0.8145	0.4193	0.0081
13	1,154.365	0.6596	84.3793	9.9968	3.3464	0.3428	0.5734	0.0613	0.0470	0.0172	0.8071	0.4209	0.0080
14	1,153.952	0.6590	84.4302	10.0051	3.3262	0.3383	0.5611	0.0607	0.0468	0.0175	0.7877	0.4184	0.0080
15	1,154.856	0.6600	84.3207	10.0229	3.3617	0.3434	0.5770	0.0625	0.0475	0.0176	0.8154	0.4233	0.0081
16	1,155.501	0.6605	84.2204	10.1075	3.3702	0.3420	0.5735	0.0628	0.0487	0.0183	0.8254	0.4231	0.0080
17	1,155.352	0.6604	84.2555	10.0677	3.3636	0.3455	0.5803	0.0626	0.0493	0.0187	0.8327	0.4160	0.0080
18	1,154.599	0.6597	84.3292	10.0455	3.3421	0.3395	0.5711	0.0622	0.0485	0.0187	0.8236	0.4117	0.0081
19	1,152.354	0.6573	84.6864	9.8948	3.2570	0.3349	0.5468	0.0609	0.0480	0.0186	0.7369	0.4074	0.0084
20	1,151.874	0.6569	84.7980	9.8016	3.2373	0.3406	0.5564	0.0620	0.0482	0.0184	0.7189	0.4104	0.0081
21	1,152.253	0.6572	84.7609	9.8083	3.2543	0.3413	0.5610	0.0621	0.0487	0.0186	0.7299	0.4066	0.0083
22	1,152.927	0.6581	84.6165	9.8856	3.2875	0.3404	0.5576	0.0627	0.0494	0.0186	0.7545	0.4190	0.0081
23	1,152.830	0.6580	84.5940	9.9137	3.2869	0.3385	0.5517	0.0610	0.0487	0.0187	0.7632	0.4153	0.0083
24	1,155.225	0.6601	84.3292	10.0114	3.3593	0.3469	0.5859	0.0633	0.0490	0.0186	0.8090	0.4193	0.0081
25	1,154.053	0.6592	84.4101	10.0074	3.3188	0.3411	0.5678	0.0620	0.0483	0.0180	0.8065	0.4117	0.0083
26	1,154.589	0.6596	84.4047	9.9730	3.3293	0.3461	0.5867	0.0641	0.0491	0.0187	0.8096	0.4106	0.0081
27	1,154.686	0.6599	84.3323	10.0177	3.3453	0.3447	0.5788	0.0629	0.0491	0.0184	0.8276	0.4144	0.0089
28	1,156.030	0.6610	84.1960	10.0559	3.3924	0.3500	0.5948	0.0650	0.0500	0.0189	0.8513	0.4155	0.0101
29	1,155.787	0.6611	84.1924	10.0412	3.3890	0.3504	0.5983	0.0648	0.0500	0.0194	0.8688	0.4160	0.0097
30	1,154.164	0.6603	84.3011	9.9613	3.3573	0.3488	0.5894	0.0625	0.0485	0.0195	0.8723	0.4298	0.0095
31	1,153.875	0.6596	84.4205	9.8917	3.3524	0.3471	0.5849	0.0631	0.0490	0.0200	0.8441	0.4178	0.0094
Volume	1,154.559	0.6597	84.3772	9.9897	3.3497	0.3447	0.5755	0.0623	0.0482	0.0179	0.8076	0.4190	0.0082
Weight Avg Energy	1,154.560	0.6597	84.3770	9.9898	3.3497	0.3447	0.5755	0.0623	0.0482	0.0179	0.8076	0.4190	0.0082



Alliance Pipeline

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

DAY	Heating Value (BTU/ft3)	Relative Density	C1 Mol%	C2 Mol%	C3 Mol%	IC4 Mol%	NC4 Mol%	IC5 Mol%	NC5 Mol%	C6+ Mol%	N2 Mol%	CO2 Mol%	Hel Mol%
1	1,156.703	0.6616	84.0946	10.1171	3.4390	0.3503	0.5873	0.0616	0.0477	0.0167	0.8495	0.4283	0.0078
2	1,156.145	0.6609	84.2097	10.0644	3.4149	0.3504	0.5824	0.0618	0.0474	0.0166	0.8247	0.4200	0.0078
3	1,155.762	0.6603	84.3167	10.0105	3.3930	0.3495	0.5834	0.0628	0.0475	0.0164	0.7949	0.4172	0.0079
4	1,154.405	0.6594	84.4152	9.9698	3.3567	0.3445	0.5699	0.0611	0.0469	0.0164	0.7898	0.4220	0.0077
5	1,153.081	0.6587	84.4881	9.9426	3.3199	0.3398	0.5578	0.0595	0.0460	0.0166	0.7946	0.4275	0.0077
6	1,153.897	0.6592	84.4404	9.9544	3.3433	0.3432	0.5659	0.0611	0.0470	0.0168	0.7984	0.4218	0.0076
7	1,154.521	0.6595	84.4133	9.9568	3.3573	0.3475	0.5761	0.0619	0.0471	0.0165	0.7996	0.4160	0.0077
8	1,154.971	0.6600	84.3428	9.9833	3.3774	0.3473	0.5812	0.0618	0.0474	0.0168	0.8089	0.4251	0.0080
9	1,155.837	0.6607	84.2700	10.0107	3.4037	0.3501	0.5882	0.0632	0.0486	0.0173	0.8126	0.4278	0.0078
10	1,155.588	0.6604	84.2790	10.0340	3.3843	0.3476	0.5827	0.0626	0.0487	0.0177	0.8112	0.4243	0.0080
11	1,156.185	0.6611	84.1924	10.0712	3.4014	0.3493	0.5915	0.0634	0.0487	0.0177	0.8315	0.4250	0.0079
12	1,154.376	0.6595	84.3581	10.0356	3.3393	0.3406	0.5670	0.0606	0.0475	0.0172	0.8073	0.4188	0.0081
13	1,154.490	0.6597	84.3645	10.0016	3.3530	0.3427	0.5741	0.0614	0.0470	0.0171	0.8098	0.4210	0.0079
14	1,153.811	0.6589	84.4519	9.9991	3.3182	0.3378	0.5600	0.0607	0.0467	0.0176	0.7827	0.4173	0.0080
15	1,154.858	0.6600	84.3138	10.0276	3.3611	0.3432	0.5770	0.0626	0.0476	0.0176	0.8179	0.4236	0.0080
16	1,155.718	0.6606	84.2056	10.1166	3.3752	0.3430	0.5747	0.0628	0.0488	0.0185	0.8256	0.4212	0.0081
17	1,155.112	0.6603	84.2620	10.0666	3.3583	0.3438	0.5785	0.0624	0.0490	0.0184	0.8344	0.4186	0.0080
18	1,153.625	0.6586	84.4984	9.9704	3.3051	0.3375	0.5596	0.0621	0.0489	0.0190	0.7816	0.4094	0.0081
19	1,152.404	0.6573	84.6896	9.8889	3.2580	0.3361	0.5493	0.0608	0.0477	0.0184	0.7352	0.4077	0.0084
20	1,152.412	0.6573	84.7443	9.8135	3.2576	0.3432	0.5635	0.0624	0.0485	0.0185	0.7288	0.4114	0.0081
21	1,151.894	0.6569	84.7784	9.8142	3.2407	0.3390	0.5558	0.0614	0.0484	0.0184	0.7299	0.4056	0.0083
22	1,152.736	0.6579	84.6390	9.8747	3.2830	0.3398	0.5545	0.0629	0.0496	0.0186	0.7512	0.4186	0.0081
23	1,153.107	0.6582	84.5690	9.9265	3.2947	0.3390	0.5548	0.0608	0.0486	0.0187	0.7658	0.4139	0.0083
24	1,155.316	0.6602	84.3164	10.0224	3.3597	0.3469	0.5861	0.0635	0.0491	0.0185	0.8098	0.4195	0.0081
25	1,153.981	0.6591	84.4342	9.9915	3.3163	0.3412	0.5682	0.0620	0.0484	0.0182	0.8033	0.4084	0.0082
26	1,154.583	0.6596	84.3865	9.9906	3.3263	0.3454	0.5857	0.0639	0.0492	0.0187	0.8125	0.4129	0.0082
27	1,155.075	0.6601	84.2978	10.0340	3.3572	0.3457	0.5815	0.0633	0.0493	0.0184	0.8321	0.4116	0.0091
28	1,156.009	0.6610	84.1987	10.0567	3.3898	0.3497	0.5946	0.0651	0.0502	0.0191	0.8489	0.4170	0.0101
29	1,155.752	0.6611	84.1863	10.0368	3.3938	0.3509	0.5988	0.0641	0.0496	0.0192	0.8728	0.4179	0.0096
30	1,154.255	0.6603	84.3028	9.9635	3.3577	0.3486	0.5893	0.0629	0.0487	0.0197	0.8687	0.4287	0.0094
31	1,153.576	0.6594	84.4466	9.8782	3.3448	0.3461	0.5831	0.0628	0.0487	0.0197	0.8427	0.4179	0.0093
Volume	1,154.460	0.6595	84.3941	9.9842	3.3456	0.3443	0.5740	0.0622	0.0482	0.0179	0.8029	0.4185	0.0082
Weight Avg Energy	1,154.459	0.6595	84.3941	9.9842	3.3456	0.3443	0.5740	0.0622	0.0482	0.0179	0.8029	0.4185	0.0082

January-25

ZONE 610

Watford City

Watford City West Border

Watford City East Border

Weighted

Start Date	End Date	BTU			BTU			AVG BTU	
		MCF	DK	Zone 25	MCF	DK	Zone 43		
1/1/2025	1/2/2025	519	618	1190.5	1,166	1,290	1106.6	1132.442	1/1/2025
1/2/2025	1/3/2025	584	696	1190.5	1,296	1,434	1106.6	1132.663	1/2/2025
1/3/2025	1/4/2025	637	759	1190.5	1,408	1,558	1106.6	1132.734	1/3/2025
1/4/2025	1/5/2025	676	805	1190.5	1,450	1,605	1106.6	1133.278	1/4/2025
1/5/2025	1/6/2025	588	700	1190.5	1,216	1,345	1106.6	1133.947	1/5/2025
1/6/2025	1/7/2025	586	697	1190.5	1,258	1,392	1106.6	1133.262	1/6/2025
1/7/2025	1/8/2025	543	647	1190.5	1,193	1,320	1106.6	1132.843	1/7/2025
1/8/2025	1/9/2025	416	495	1190.5	812	899	1106.6	1135.022	1/8/2025
1/9/2025	1/10/2025	454	540	1190.5	935	1,035	1106.6	1134.023	1/9/2025
1/10/2025	1/11/2025	422	503	1190.5	938	1,038	1106.6	1132.634	1/10/2025
1/11/2025	1/12/2025	543	647	1190.5	1,226	1,357	1106.6	1132.353	1/11/2025
1/12/2025	1/13/2025	653	778	1190.5	1,380	1,527	1106.6	1133.549	1/12/2025
1/13/2025	1/14/2025	596	709	1190.5	1,320	1,460	1106.6	1132.698	1/13/2025
1/14/2025	1/15/2025	474	564	1190.5	1,001	1,108	1106.6	1133.562	1/14/2025
1/15/2025	1/16/2025	378	450	1190.5	781	865	1106.6	1133.963	1/15/2025
1/16/2025	1/17/2025	391	466	1190.5	767	848	1106.6	1134.929	1/16/2025
1/17/2025	1/18/2025	594	707	1190.5	1,334	1,476	1106.6	1132.449	1/17/2025
1/18/2025	1/19/2025	740	880	1190.5	1,609	1,780	1106.6	1133.031	1/18/2025
1/19/2025	1/20/2025	773	920	1190.5	1,606	1,777	1106.6	1133.861	1/19/2025
1/20/2025	1/21/2025	750	893	1190.5	1,534	1,698	1106.6	1134.150	1/20/2025
1/21/2025	1/22/2025	508	605	1190.5	1,048	1,159	1106.6	1133.992	1/21/2025
1/22/2025	1/23/2025	542	645	1190.5	1,122	1,241	1106.6	1133.928	1/22/2025
1/23/2025	1/24/2025	462	550	1190.5	1,002	1,109	1106.6	1133.077	1/23/2025
1/24/2025	1/25/2025	494	588	1190.5	1,145	1,267	1106.6	1131.888	1/24/2025
1/25/2025	1/26/2025	531	632	1190.5	1,147	1,269	1106.6	1133.150	1/25/2025
1/26/2025	1/27/2025	464	552	1190.5	1,101	1,218	1106.6	1131.475	1/26/2025
1/27/2025	1/28/2025	393	468	1190.5	811	898	1106.6	1133.986	1/27/2025
1/28/2025	1/29/2025	380	452	1190.5	765	847	1106.6	1134.445	1/28/2025
1/29/2025	1/30/2025	364	433	1190.5	790	874	1106.6	1133.064	1/29/2025
1/30/2025	1/31/2025	389	463	1190.5	809	896	1106.6	1133.843	1/30/2025
1/31/2025	2/1/2025	515	613	1190.5	1,075	1,190	1106.6	1133.775	1/31/2025
		16,359	19,475	1190.5000	35,045	38,780	1106.6000	1133.3553	

GasDay	EndDt	BTU	SpecGrav	CriconTherm	WobbelIndex	CO2	N2	Methane	Ethane	Propane	iButane	nButane	iPentane	nPentane	NeoPentane	C6Plus	Hydrogen	Helium	WaterVapor	TotalSulfur	HydrogenSulfur	Oxygen
1/1/2025	1/2/2025	1104	0.6537	-44.4	1365.462668	0.9491	2.5125	80.8579	14.5931	0.8578	0.016	0.0284	0	0.0027	0	0	0.1606	0.0219	N/A	0.016	0.0034	N/A
1/2/2025	1/3/2025	1104	0.6537	-44.4	1365.462668	0.9491	2.5125	80.8579	14.5931	0.8578	0.016	0.0284	0	0.0027	0	0	0.1606	0.0219	N/A	0.0148	0.002	N/A
1/3/2025	1/4/2025	1104	0.6537	-44.4	1365.462668	0.9491	2.5125	80.8579	14.5931	0.8578	0.016	0.0284	0	0.0027	0	0	0.1606	0.0219	N/A	0.018	0.0021	N/A
1/4/2025	1/5/2025	1104	0.6537	-44.4	1365.462668	0.9491	2.5125	80.8579	14.5931	0.8578	0.016	0.0284	0	0.0027	0	0	0.1606	0.0219	N/A	0.0183	0.0023	N/A
1/5/2025	1/6/2025	1104	0.6537	-44.4	1365.462668	0.9491	2.5125	80.8579	14.5931	0.8578	0.016	0.0284	0	0.0027	0	0	0.1606	0.0219	N/A	0.0209	0.0024	N/A
1/6/2025	1/7/2025	1104	0.6537	-44.4	1365.462668	0.9491	2.5125	80.8579	14.5931	0.8578	0.016	0.0284	0	0.0027	0	0	0.1606	0.0219	N/A	0.0151	0.0028	N/A
1/7/2025	1/8/2025	1104	0.6537	-44.4	1365.462668	0.9491	2.5125	80.8579	14.5931	0.8578	0.016	0.0284	0	0.0027	0	0	0.1606	0.0219	N/A	0.0132	0.0029	N/A
1/8/2025	1/9/2025	1104	0.6537	-44.4	1365.462668	0.9491	2.5125	80.8579	14.5931	0.8578	0.016	0.0284	0	0.0027	0	0	0.1606	0.0219	N/A	0.0133	0.0028	N/A
1/9/2025	1/10/2025	1104	0.6537	-44.4	1365.462668	0.9491	2.5125	80.8579	14.5931	0.8578	0.016	0.0284	0	0.0027	0	0	0.1606	0.0219	N/A	0.0136	0.0039	N/A
1/10/2025	1/11/2025	1104	0.6537	-44.4	1365.462668	0.9491	2.5125	80.8579	14.5931	0.8578	0.016	0.0284	0	0.0027	0	0	0.1606	0.0219	N/A	0.0138	0.0035	N/A
1/11/2025	1/12/2025	1104	0.6537	-44.4	1365.462668	0.9491	2.5125	80.8579	14.5931	0.8578	0.016	0.0284	0	0.0027	0	0	0.1606	0.0219	N/A	0.0128	0.0038	N/A
1/12/2025	1/13/2025	1104	0.6537	-44.4	1365.462668	0.9491	2.5125	80.8579	14.5931	0.8578	0.016	0.0284	0	0.0027	0	0	0.1606	0.0219	N/A	0.0151	0.0033	N/A
1/13/2025	1/14/2025	1104	0.6537	-44.4	1365.462668	0.9491	2.5125	80.8579	14.5931	0.8578	0.016	0.0284	0	0.0027	0	0	0.1606	0.0219	N/A	0.0172	0.0034	N/A
1/14/2025	1/15/2025	1104	0.6537	-44.4	1365.462668	0.9491	2.5125	80.8579	14.5931	0.8578	0.016	0.0284	0	0.0027	0	0	0.1606	0.0219	N/A	0.0116	0.0036	N/A
1/15/2025	1/16/2025	1104	0.6537	-44.4	1365.462668	0.9491	2.5125	80.8579	14.5931	0.8578	0.016	0.0284	0	0.0027	0	0	0.1606	0.0219	N/A	0.0121	0.0055	N/A
1/16/2025	1/17/2025	1104	0.6537	-44.4	1365.462668	0.9491	2.5125	80.8579	14.5931	0.8578	0.016	0.0284	0	0.0027	0	0	0.1606	0.0219	N/A	0.012	0.0046	N/A
1/17/2025	1/18/2025	1104	0.6537	-44.4	1365.462668	0.9491	2.5125	80.8579	14.5931	0.8578	0.016	0.0284	0	0.0027	0	0	0.1606	0.0219	N/A	0.0127	0.005	N/A
1/18/2025	1/19/2025	1104	0.6537	-44.4	1365.462668	0.9491	2.5125	80.8579	14.5931	0.8578	0.016	0.0284	0	0.0027	0	0	0.1606	0.0219	N/A	0.0121	0.0033	N/A
1/19/2025	1/20/2025	1104	0.6537	-44.4	1365.462668	0.9491	2.5125	80.8579	14.5931	0.8578	0.016	0.0284	0	0.0027	0	0	0.1606	0.0219	N/A	0.0136	0.0033	N/A
1/20/2025	1/21/2025	1104	0.6537	-44.4	1365.462668	0.9491	2.5125	80.8579	14.5931	0.8578	0.016	0.0284	0	0.0027	0	0	0.1606	0.0219	N/A	0.0135	0.003	N/A
1/21/2025	1/22/2025	1104	0.6537	-44.4	1365.462668	0.9491	2.5125	80.8579	14.5931	0.8578	0.016	0.0284	0	0.0027	0	0	0.1606	0.0219	N/A	0.0118	0.0032	N/A
1/22/2025	1/23/2025	1104	0.6537	-44.4	1365.462668	0.9491	2.5125	80.8579	14.5931	0.8578	0.016	0.0284	0	0.0027	0	0	0.1606	0.0219	N/A	0.0108	0.0025	N/A
1/23/2025	1/24/2025	1104	0.6537	-44.4	1365.462668	0.9491	2.5125	80.8579	14.5931	0.8578	0.016	0.0284	0	0.0027	0	0	0.1606	0.0219	N/A	0.01	0.003	N/A
1/24/2025	1/25/2025	1104	0.6537	-44.4	1365.462668	0.9491	2.5125	80.8579	14.5931	0.8578	0.016	0.0284	0	0.0027	0	0	0.1606	0.0219	N/A	0.0094	0.0027	N/A
1/25/2025	1/26/2025	1104	0.6537	-44.4	1365.462668	0.9491	2.5125	80.8579	14.5931	0.8578	0.016	0.0284	0	0.0027	0	0	0.1606	0.0219	N/A	0.011	0.0027	N/A
1/26/2025	1/27/2025	1104	0.6537	-44.4	1365.462668	0.9491	2.5125	80.8579	14.5931	0.8578	0.016	0.0284	0	0.0027	0	0	0.1606	0.0219	N/A	0.0098	0.0031	N/A
1/27/2025	1/28/2025	1104	0.6537	-44.4	1365.462668	0.9491	2.5125	80.8579	14.5931	0.8578	0.016	0.0284	0	0.0027	0	0	0.1606	0.0219	N/A	0.0098	0.0029	N/A
1/28/2025	1/29/2025	1104	0.6537	-44.4	1365.462668	0.9491	2.5125	80.8579	14.5931	0.8578	0.016	0.0284	0	0.0027	0	0	0.1606	0.0219	N/A	0.0096	0.0029	N/A
1/29/2025	1/30/2025	1104	0.6537	-44.4	1365.462668	0.9491	2.5125	80.8579	14.5931	0.8578	0.016	0.0284	0	0.0027	0	0	0.1606	0.0219	N/A	0.0098	0.003	N/A
1/30/2025	1/31/2025	1104	0.6537	-44.4	1365.462668	0.9491	2.5125	80.8579	14.5931	0.8578	0.016	0.0284	0	0.0027	0	0	0.1606	0.0219	N/A	0.0093	0.0033	N/A
1/31/2025	2/1/2025	1104	0.6537	-44.4	1365.462668	0.9491	2.5125	80.8579	14.5931	0.8578	0.016	0.0284	0	0.0027	0	0	0.1606	0.0219	N/A	0.0109	0.0028	N/A

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
274	Chromatograph	Kindred – Wahpeton
28	Chromatograph	Bismarck Station
31	Chromatograph	Dickinson Border
32	Chromatograph	Cabin Creek Station
33	Chromatograph	Little Knife Plant
34	Chromatograph	Bowman Border
43	Accumulated Sample	Watford City East Border
550	Accumulated Sample & Chromatograph	Mandan Border
600	Chromatograph	Hankinson Area
601	Chromatograph	Milnor Area
610	Accumulated Sample & Chromatograph	Watford City
802	Chromatograph	Linton

MONTANA DAKOTA UTILITIES CO
NORTH DAKOTA
HEATING VALUE DATA

STATE	ZONE	ZONE BOUNDARY	12 MONTH AVERAGE	JAN25	DEC24	NOV24	OCT24	SEP24	AUG24	JUL24	JUN24	MAY24	APR24	MAR24	FEB24
MT/ND	211	Sidney Border - MonDak Tfr - Sidney Plt	1187	1183	1183	1184	1182	1191	1194	1192	1190	1187	1184	1185	1187
ND	24	Williston Border - Charbonneau Station	1185	1185	1182	1179	1187	1187	1185	1191	1186	1184	1181	1181	1192
ND	25	Watford City West Border	1193	1191	1193	1186	1194	1194	1197	1192	1187	1201	1193	1194	1194
ND	28	Bismarck Station - Glen Ullin Station	1170	1134	1136	1159	1171	1204	1203	1200	1202	1200	1160	1147	1126
ND	31	Dickinson Brd - Belfield Trf - G Ullin Stn	1124	1137	1139	1144	1111	1106	1111	1115	1108	1106	1133	1147	1127
ND/MT	32	Cabin Creek Station - Belfied Transfer	1131	1134	1130	1135	1139	1128	1135	1110	1135	1144	1144	1116	1118
ND	33	Little Knife Plant	1168	1164	1162	1163	1165	1162	1165	1173	1170	1170	1173	1173	1171
ND	34	Badlands Plant/Bowman Border	1046	1104	1104	1127	1110	1034	980	981	1040	1043	1005	1027	1000
ND	43	Watford City East Border	1098	1107	1107	1110	1112	1112	1117	1085	1081	1075	1066	1085	1113
ND/MT	241	Fairview Border	1183	1183	1181	1180	1185	1183	1182	1185	1181	1172	1182	1186	1192
ND	267	North Tioga Transfer - Nesson Plant	1190	1194	1204	1191	1191	1195	1199	1191	1191	1193	1183	1187	1165
ND	261	Tioga Comp Station - Robinson Lake Plant	1199	1198	1209	1208	1208	1195	1200	1195	1197	1195	1196	1195	1192
ND	262	Minot Bdr - Palermo Bdr - Bismarck Stn	1202	1207	1209	1207	1210	1203	1201	1199	1200	1199	1195	1195	1196
ND	263	Lignite Plant	1131	1131	1131	1131	1131	1131	1131	1131	1131	1131	1131	1131	1131
ND	264	Epping Border	1177	1174	1174	1166	1183	1188	1182	1179	1172	1168	1176	1172	1193
ND	265	Tioga Comp Station - County Line Plant	1184	1191	1191	1180	1175	1179	1181	1183	1174	1188	1195	1192	1179
ND	266	County Line Plant	1185	1189	1192	1182	1177	1181	1183	1187	1174	1188	1195	1193	1181
ND	271	Bismarck Station - Cleveland Station	1197	1182	1190	1200	1212	1204	1203	1200	1202	1201	1198	1192	1183
ND	272	Cleveland Station - Mapleton	1197	1182	1190	1200	1211	1202	1202	1200	1201	1200	1197	1191	1183
ND	273	Cleveland Station - Grafton Border	1197	1182	1189	1199	1211	1202	1202	1200	1202	1199	1198	1191	1183
ND	274	Felton(Viking) - Kindred-Wahpeton	0	1050	1050	0	0	0	0	0	0	0	0	0	0
ND	550	Mandan Border / NBPL-St Anthony	1157	1120	1115	1156	1164	1198	1179	1168	1160	1192	1157	1146	1126
ND	610	MDU-Watford City BTU	1124	1133	1135	1139	1130	1115	1127	1108	1111	1121	1112	1118	1138
ND	802	NBPL - Linton	1103	1093	1093	1100	1099	1103	1108	1100	1100	1104	1109	1114	1114
ND	903	Hettinger Propane	2549	2549	2549	2549	2549	2549	2549	2549	2549	2549	2549	2549	2549
ND	600	Alliance Pipeline - Hankinson	1152	1155	1155	1155	1157	1159	1157	1148	1147	1148	1148	1146	1144
ND	601	Alliance Pipeline - Milnor	1152	1154	1155	1155	1157	1160	1157	1149	1147	1149	1148	1146	1144

THERMAL ZONE VARIANCE DOCUMENTATION		
January 2025		
<i>ZONE</i>	<i>BTU VARIANCE</i>	<i>REASON</i>
		No Variance