

400 North Fourth Street  
Bismarck, ND 58501  
701-222-7900

March 11, 2022

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

Re: Case No. PU-22-002 (Therm Billing)  
Monthly Report – January 2022

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 2022.
2. Attachment B consists of copies of the monthly Heating Value Test Reports received from our suppliers for the month of January 2022.
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 2022.

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

Sincerely,

*/s/ Travis R. Jacobson*

Travis R. Jacobson  
Director of Regulatory Affairs

**Montana-Dakota Utilities Co.**  
**Therm Billing Factors - North Dakota**  
**Jan-22**

<u>Town</u>	<u>Heat Zone</u>	<u>Therm Factor</u>
MDU-303-ALEXANDER	025	1.1353
MDU-308-ARNEGARD	025	1.1353
MDU-314-APPLE VALLEY	271	1.1463
MDU-318-BEACH	032	1.0452
MDU-319-BELFIELD	032	1.0529
MDU-323-BERTHOLD	262	1.1325
MDU-324-BEULAH	032	1.0529
MDU-327-BISMARCK	028	1.1019
MDU-330-BOWMAN	034	1.0027
MDU-337-BURLINGTON	262	1.1569
MDU-343-CARRINGTON	273	1.1463
MDU-344-CLEVELAND	272	1.1392
MDU-364-CAVALIER	273	1.1705
MDU-365-DAWSON	271	1.1382
MDU-368-DES LACS	262	1.1406
MDU-369-DICKINSON	031	1.0718
MDU-374-FT TOTTEN	273	1.1543
MDU-375-DEVILS LAKE	273	1.1543
MDU-379-BARLOW	273	1.1463
MDU-384-EPPING	264	1.0833
MDU-387-ELDRIDGE	272	1.1472
MDU-407-GLADSTONE	031	1.0718
MDU-411-GLEN ULLIN	031	1.0796
MDU-413-GOLVA	032	1.2975
MDU-416-GARRISON	262	1.1406
MDU-417-GRAFTON	273	1.1785
MDU-403-GWINNER	601	1.1370
MDU-429-HEBRON	031	1.0796
MDU-432-HETTINGER	903	2.4049
MDU-449-JAMESTOWN	272	1.1553
MDU-459-KILLDEER	033	1.1107
MDU-463-LANGDON	273	1.1463
MDU-469-LEFOR	031	1.0718
MDU-474-LIGNITE	263	1.0759
MDU-475-LINTON	802	1.0469
MDU-478-LINCOLN	028	1.1019
MDU-488-MCKENZIE	271	1.1463
MDU-494-MEDINA	271	1.1382
MDU-498-MANDAN	028	1.1019
MDU-500-MARMARTH	034	1.0101
MDU-505-MINOT	262	1.1569
MDU-510-MOTT	031	1.0718
MDU-512-MAX	262	1.1569
MDU-513-MILNOR	601	1.1370
MDU-522-NEW ENGLAND	031	1.0640
MDU-524-NEW SALEM	028	1.0786
MDU-532-NEW ROCKFORD	273	1.1463
MDU-539-PARK RIVER	273	1.1705
MDU-540-PALERMO	262	1.1325

MDU-558-RAY	264	1.0833
MDU-561-REGENT	031	1.0640
MDU-563-RHAME	034	0.9952
MDU-564-RICHARDTON	031	1.0640
MDU-568-ROSS	261	1.0887
MDU-572-RUTHVILLE	262	1.1569
MDU-574-SANBORN	272	1.1553
MDU-583-SENTINEL BUTTE	032	1.0452
MDU-588-SOUTH HEART	031	1.0640
MDU-717-SPIRITWOOD	272	1.1553
MDU-590-SPRINGBROOK	264	1.0833
MDU-591-STANLEY	261	1.0966
MDU-593-STEELE	271	1.1382
MDU-594-STERLING	028	1.1019
MDU-598-SHEYENNE	273	1.1543
MDU-605-SURREY	262	1.1569
MDU-610-TAPPEN	271	1.1382
MDU-611-TAYLOR	031	1.0640
MDU-616-TIOGA	260	1.0521
MDU-619-TURTLE LAKE	262	1.1406
MDU-620-TRENTON	024	1.0959
MDU-624-UNDERWOOD	262	1.1406
MDU-625-VALLEY CITY	272	1.1634
MDU-629-WALHALLA	273	1.1705
MDU-632-WATFORD CITY	610	1.0342
MDU-636-WHEELOCK	264	1.0756
MDU-637-WHITE EARTH	261	1.0966
MDU-642-WILLISTON	024	1.0959
MDU-646-WASHBURN	262	1.1487
MDU-647-WILTON	262	1.1325
MDU-664-RIVERDALE	262	1.1406
MDU-691-FAIRVIEW	241	1.1492
MDU-712-MINOT AFB	262	1.1569
MDU-718-FAIRMOUNT	600	1.1356
MDU-732-NEKOMA	273	1.1463
MDU-732-MSR SITE	273	1.1463

# Source Daily Summary

January 2022

Source #: 251  
Name: SDNY BDR-MNDK JNCTN-SDNY PLT

<b>Pressure Base:</b>	14.730	<b>Contract Day:</b>	1
<b>Temperature Base:</b>	60	<b>Contract Hour:</b>	9

Day	Relative Density	Heating Value Wet	Heating Value Dry	Heating Value As Del	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.6860	1125.6	1145.6	1145.2	0.700	3.427	75.950	17.578	2.114	0.075	0.140	0.008	0.007	0.000	0.000	0.000	0.000	0.000	1383.11	
2	0.6781	1114.1	1133.8	1133.5	0.813	3.214	77.490	16.325	1.938	0.071	0.132	0.009	0.008	0.000	0.000	0.000	0.000	0.000	1376.90	
3	0.6692	1104.2	1123.7	1123.4	0.680	3.184	79.142	14.856	1.924	0.068	0.129	0.009	0.008	0.000	0.000	0.000	0.000	0.000	1373.64	
4	0.6897	1124.9	1144.8	1144.5	0.863	3.575	75.487	17.579	2.255	0.078	0.146	0.008	0.007	0.000	0.000	0.000	0.000	0.000	1377.85	
5	0.6985	1142.1	1162.3	1162.0	0.867	3.345	74.070	18.938	2.499	0.089	0.171	0.010	0.009	0.000	0.000	0.000	0.000	0.000	1390.42	
6	0.6899	1130.0	1150.0	1149.7	0.952	3.144	75.524	17.951	2.174	0.084	0.153	0.009	0.008	0.000	0.000	0.000	0.000	0.000	1384.52	
7	0.6982	1140.9	1161.1	1160.7	0.989	3.203	74.208	18.844	2.468	0.095	0.173	0.010	0.009	0.000	0.000	0.000	0.000	0.000	1389.55	
8	0.7058	1150.6	1171.0	1170.7	1.057	3.228	72.780	20.108	2.532	0.097	0.179	0.010	0.008	0.000	0.000	0.000	0.000	0.000	1393.76	
9	0.6643	1098.3	1117.7	1117.5	0.826	2.863	80.172	14.152	1.776	0.067	0.124	0.010	0.009	0.000	0.000	0.000	0.000	0.000	1371.36	
10	0.6699	1103.6	1123.2	1122.9	0.825	3.067	79.006	15.100	1.795	0.067	0.123	0.009	0.008	0.000	0.000	0.000	0.000	0.000	1372.25	
11	0.6587	1087.9	1107.1	1106.8	0.711	3.144	80.896	13.498	1.578	0.055	0.103	0.008	0.007	0.000	0.000	0.000	0.000	0.000	1364.12	
12	0.5995	981.5	998.9	998.6	0.285	4.707	90.913	3.642	0.407	0.016	0.026	0.002	0.002	0.000	0.000	0.000	0.000	0.000	1290.00	
13	0.6519	1076.6	1095.7	1095.4	0.139	4.057	81.792	12.164	1.582	0.073	0.164	0.013	0.014	0.000	0.000	0.000	0.000	0.000	1355.65	
14	0.7001	1160.3	1180.8	1180.5	0.112	3.535	72.873	20.762	2.444	0.084	0.168	0.011	0.011	0.000	0.000	0.000	0.000	0.000	1411.20	
15	0.7030	1172.7	1193.4	1193.1	0.011	3.218	71.864	22.404	2.357	0.051	0.088	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1423.30	
16	0.6993	1165.8	1186.5	1186.1	0.010	3.282	72.492	21.807	2.253	0.054	0.096	0.003	0.002	0.000	0.000	0.000	0.000	0.000	1418.81	
17	0.6986	1163.8	1184.4	1184.1	0.010	3.335	72.829	21.280	2.336	0.070	0.129	0.006	0.005	0.000	0.000	0.000	0.000	0.000	1417.09	
18	0.7103	1180.7	1201.6	1201.3	0.106	3.262	71.176	22.395	2.748	0.097	0.192	0.013	0.013	0.000	0.000	0.000	0.000	0.000	1425.75	
19	0.7035	1171.5	1192.2	1191.9	0.024	3.310	71.506	22.831	2.228	0.040	0.059	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1421.49	
20	0.7229	1181.5	1202.4	1202.1	0.769	3.401	68.887	24.133	2.564	0.086	0.149	0.007	0.005	0.000	0.000	0.000	0.000	0.000	1414.28	
21	0.6987	1158.9	1179.4	1179.1	0.162	3.424	72.011	22.637	1.691	0.029	0.044	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1411.03	
22	0.7233	1182.3	1203.2	1202.9	0.772	3.379	68.753	24.348	2.512	0.081	0.144	0.006	0.005	0.000	0.000	0.000	0.000	0.000	1414.97	
23	0.7476	1205.0	1226.3	1226.0	1.341	3.415	65.348	26.322	3.168	0.135	0.249	0.012	0.009	0.000	0.000	0.000	0.000	0.000	1418.28	
24	0.7481	1206.2	1227.6	1227.3	1.342	3.388	65.027	26.864	3.002	0.127	0.231	0.011	0.008	0.000	0.000	0.000	0.000	0.000	1419.25	
25	0.7480	1206.0	1227.4	1227.1	1.338	3.390	64.968	27.022	2.896	0.130	0.237	0.011	0.008	0.000	0.000	0.000	0.000	0.000	1419.16	
26	0.7478	1205.1	1226.4	1226.1	1.343	3.424	65.462	26.069	3.271	0.143	0.264	0.013	0.010	0.000	0.000	0.000	0.000	0.000	1418.20	
27	0.7486	1206.3	1227.7	1227.4	1.360	3.395	65.164	26.515	3.164	0.134	0.247	0.012	0.009	0.000	0.000	0.000	0.000	0.000	1418.95	
28	0.7473	1204.9	1226.2	1225.9	1.347	3.379	65.377	26.388	3.100	0.135	0.251	0.012	0.010	0.000	0.000	0.000	0.000	0.000	1418.48	
29	0.7172	1168.1	1188.8	1188.5	1.098	3.168	70.735	22.034	2.596	0.113	0.228	0.014	0.014	0.000	0.000	0.000	0.000	0.000	1403.75	
30	0.7150	1164.6	1185.2	1184.9	1.107	3.164	71.045	21.839	2.495	0.108	0.217	0.013	0.012	0.000	0.000	0.000	0.000	0.000	1401.65	
31	0.7310	1183.4	1204.4	1204.0	1.203	3.376	67.998	24.390	2.696	0.111	0.207	0.010	0.008	0.000	0.000	0.000	0.000	0.000	1408.70	
Avg	0.7022	1151.0	1170.9	1170.6	0.747	3.368	72.934	20.348	2.341	0.086	0.160	0.009	0.008	0.000	0.000	0.000	0.000	0.000	1397.02	

# Source Daily Summary

January 2022

Source #: 571  
Name: WILLISTON BDR-CHARBN STN

<b>Pressure Base:</b>	14.730	<b>Contract Day:</b>	1
<b>Temperature Base:</b>	60	<b>Contract Hour:</b>	9

Day	Relative Density	Heating Value Wet	Heating Value Dry	Heating Value As Del	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.6940	1137.5	1157.6	1157.3	0.884	3.173	75.102	18.052	2.418	0.104	0.230	0.017	0.020	0.000	0.000	0.000	0.000	0.000	1389.59	
2	0.6911	1132.2	1152.3	1152.0	0.880	3.237	75.281	18.109	2.190	0.087	0.188	0.013	0.015	0.000	0.000	0.000	0.000	0.000	1386.00	
3	0.6889	1130.1	1150.1	1149.8	0.880	3.157	75.658	17.894	2.116	0.085	0.183	0.013	0.014	0.000	0.000	0.000	0.000	0.000	1385.63	
4	0.6875	1129.3	1149.3	1149.1	0.888	3.058	75.910	17.799	2.049	0.085	0.183	0.013	0.015	0.000	0.000	0.000	0.000	0.000	1386.14	
5	0.6915	1133.9	1153.9	1153.7	0.895	3.146	75.300	18.113	2.231	0.093	0.195	0.013	0.015	0.000	0.000	0.000	0.000	0.000	1387.67	
6	0.7038	1149.8	1170.1	1169.8	0.876	3.357	73.834	18.463	2.998	0.139	0.295	0.019	0.020	0.000	0.000	0.000	0.000	0.000	1394.78	
7	0.6957	1136.4	1156.5	1156.3	0.894	3.383	74.778	18.083	2.501	0.104	0.225	0.015	0.017	0.000	0.000	0.000	0.000	0.000	1386.61	
8	0.6933	1133.7	1153.8	1153.5	0.910	3.299	75.069	18.047	2.351	0.095	0.201	0.014	0.015	0.000	0.000	0.000	0.000	0.000	1385.71	
9	0.6926	1132.9	1152.9	1152.6	0.914	3.281	75.114	18.103	2.274	0.091	0.193	0.013	0.015	0.000	0.000	0.000	0.000	0.000	1385.34	
10	0.6884	1128.8	1148.8	1148.6	0.902	3.150	75.782	17.763	2.103	0.086	0.186	0.013	0.015	0.000	0.000	0.000	0.000	0.000	1384.63	
11	0.6914	1131.7	1151.7	1151.4	0.885	3.284	75.304	17.975	2.234	0.091	0.197	0.014	0.016	0.000	0.000	0.000	0.000	0.000	1385.12	
12	0.6957	1135.6	1155.8	1155.5	0.905	3.415	74.736	18.110	2.488	0.100	0.215	0.014	0.016	0.000	0.000	0.000	0.000	0.000	1385.67	
13	0.6907	1132.5	1152.6	1152.3	0.891	3.153	75.437	18.006	2.199	0.089	0.193	0.014	0.016	0.000	0.000	0.000	0.000	0.000	1386.89	
14	0.6916	1133.2	1153.2	1152.9	0.891	3.203	75.304	18.027	2.253	0.092	0.198	0.014	0.016	0.000	0.000	0.000	0.000	0.000	1386.72	
15	0.6902	1131.2	1151.3	1151.0	0.886	3.196	75.530	17.869	2.207	0.090	0.193	0.014	0.016	0.000	0.000	0.000	0.000	0.000	1385.78	
16	0.6933	1135.1	1155.2	1154.9	0.888	3.251	74.920	18.391	2.239	0.089	0.192	0.014	0.016	0.000	0.000	0.000	0.000	0.000	1387.37	
17	0.6933	1135.3	1155.4	1155.1	0.893	3.238	74.857	18.502	2.207	0.087	0.188	0.013	0.015	0.000	0.000	0.000	0.000	0.000	1387.53	
18	0.6962	1138.9	1159.1	1158.8	0.901	3.268	74.470	18.689	2.345	0.094	0.202	0.014	0.016	0.000	0.000	0.000	0.000	0.000	1389.17	
19	0.6918	1137.1	1157.3	1157.0	0.854	3.039	75.309	18.237	2.187	0.101	0.233	0.018	0.022	0.000	0.000	0.000	0.000	0.000	1391.34	
20	0.6902	1137.6	1157.7	1157.5	0.867	2.844	75.333	18.670	1.964	0.088	0.198	0.015	0.018	0.000	0.000	0.000	0.000	0.000	1393.49	
21	0.6880	1135.0	1155.0	1154.8	0.862	2.801	75.666	18.492	1.879	0.084	0.185	0.014	0.017	0.000	0.000	0.000	0.000	0.000	1392.54	
22	0.6889	1134.4	1154.5	1154.3	0.876	2.897	75.487	18.530	1.924	0.081	0.176	0.013	0.015	0.000	0.000	0.000	0.000	0.000	1390.99	
23	0.6891	1135.0	1155.1	1154.9	0.886	2.867	75.467	18.565	1.927	0.081	0.178	0.013	0.015	0.000	0.000	0.000	0.000	0.000	1391.49	
24	0.6899	1135.1	1155.2	1155.0	0.890	2.928	75.274	18.714	1.913	0.079	0.173	0.013	0.015	0.000	0.000	0.000	0.000	0.000	1390.83	
25	0.6912	1138.3	1158.4	1158.2	0.891	2.857	75.060	18.972	1.926	0.083	0.181	0.013	0.015	0.000	0.000	0.000	0.000	0.000	1393.35	
26	0.6909	1138.2	1158.3	1158.1	0.881	2.850	75.179	18.816	1.969	0.086	0.187	0.014	0.017	0.000	0.000	0.000	0.000	0.000	1393.53	
27	0.6879	1134.3	1154.4	1154.2	0.851	2.850	75.716	18.345	1.938	0.085	0.186	0.014	0.016	0.000	0.000	0.000	0.000	0.000	1391.83	
28	0.6860	1129.1	1149.1	1148.9	0.864	2.966	76.151	17.727	1.994	0.085	0.185	0.013	0.015	0.000	0.000	0.000	0.000	0.000	1387.40	
29	0.6881	1134.3	1154.4	1154.1	0.871	2.840	75.676	18.394	1.925	0.083	0.182	0.014	0.016	0.000	0.000	0.000	0.000	0.000	1391.62	
30	0.6878	1134.1	1154.1	1153.9	0.852	2.857	75.652	18.471	1.877	0.082	0.179	0.014	0.016	0.000	0.000	0.000	0.000	0.000	1391.61	
31	0.6869	1133.4	1153.5	1153.2	0.840	2.827	75.827	18.350	1.863	0.084	0.181	0.013	0.015	0.000	0.000	0.000	0.000	0.000	1391.75	
Avg	0.6912	1135.0	1154.7	1154.5	0.882	3.086	75.296	18.267	2.151	0.090	0.196	0.014	0.016	0.000	0.000	0.000	0.000	0.000	1388.97	

# Gas Composition and Properties

Effective January 1, 2022

Attachment B  
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Source #: 0602160  
Name: FAIRVIEW BORDER

Component	Mole %	Liquid Content	Mass %
Carbon Dioxide, CO2	1.2417		2.5939
Nitrogen, N2	3.4212		4.5492
Methane, C1	68.4989		52.1614
Ethane, C2	23.6309	6.3251	33.7281
Propane, C3	2.8491	0.7856	5.9634
iso-Butane, iC4	0.1167	0.0382	0.3220
n-Butane, nC4	0.2188	0.0690	0.6036
iso-Pentane, iC5	0.0120	0.0044	0.0411
n-Pentane, nC5	0.0098	0.0036	0.0336
Neo-Pentane, neo			
Hexanes Plus, C6+	0.0009	0.0004	0.0037
Argon, Ar			
Carbon Monoxide, CO			
Hydrogen, H2			
Oxygen, O2			
Helium, He			
Water, H2O			
Hydrogen Sulfide, H2S			
<b>Totals</b>	<b>100.0000</b>	<b>7.2260</b>	<b>100.0000</b>

Property	Total Sample	C6 Plus Fraction
Pressure Base	14.730	
Temperature Base	60.00	
HCDP @ Sample Pressure		
Cricondentherm	0.819	
HV, Dry @ Base P, T	1200.39	
HV, Sat @ Base P, T	1179.50	
HV, Sat @ Sample P, T	1200.39	
Relative Density	0.7296	
C6+: 100		

## Sample

Date: 01/01/2022                      Type:  
Tech: Wayne Sampson  
Pressure:                                      Temp.:  
Gauge:    H2O:  
Atm. Pressure:                                      H2S:

Remarks:

## Analysis

Date:    Instrument:  
    Cylinder:  
Tech:

Remarks:

# Gas Composition and Properties

Effective January 1, 2022

Attachment B  
Page 4 of 24

Source #: 0602225  
Name: WATFORD CITY WEST BORDER

Component	Mole %	Liquid Content	Mass %
Carbon Dioxide, CO2	1.2772		2.6491
Nitrogen, N2	3.9966		5.2766
Methane, C1	69.8095		52.7816
Ethane, C2	19.9675	5.3445	28.2969
Propane, C3	4.0071	1.1049	8.3276
iso-Butane, iC4	0.2530	0.0829	0.6930
n-Butane, nC4	0.5700	0.1798	1.5614
iso-Pentane, iC5	0.0519	0.0190	0.1765
n-Pentane, nC5	0.0539	0.0196	0.1833
Neo-Pentane, neo			
Hexanes Plus, C6+	0.0133	0.0055	0.0540
Argon, Ar			
Carbon Monoxide, CO			
Hydrogen, H2			
Oxygen, O2			
Helium, He			
Water, H2O			
Hydrogen Sulfide, H2S			
<b>Totals</b>	<b>100.0000</b>	<b>6.7560</b>	<b>100.0000</b>

Property	Total Sample	C6 Plus Fraction
Pressure Base	14.730	
Temperature Base	60.00	
HCDP @ Sample Pressure		
Cricondentherm	15.225	
HV, Dry @ Base P, T	1197.75	
HV, Sat @ Base P, T	1176.90	
HV, Sat @ Sample P, T	1197.75	
Relative Density	0.7348	
C6+:		

**Sample**

Date: 01/01/2022                      Type:

Tech: Wayne Sampson

Pressure:                                      Temp.:

Gauge:    H2O:

Atm. Pressure:                                      H2S:

Remarks:

**Analysis**

Date:    Instrument:

Tech:    Cylinder:

Remarks:

# Source Daily Summary

January 2022

Source #: 164  
Name: N TIOGA TRANSFER-NESSON PLT

<b>Pressure Base:</b>	14.730	<b>Contract Day:</b>	1
<b>Temperature Base:</b>	60	<b>Contract Hour:</b>	9

Day	Relative Density	Heating Value Wet	Heating Value Dry	Heating Value As Del	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.6829	1109.5	1129.1		0.721	4.089	77.020	15.356	2.478	0.091	0.207	0.016	0.018	0.004					1366.33	
2	0.6812	1107.5	1127.1		0.710	4.065	77.036	15.617	2.309	0.076	0.164	0.011	0.012	0.001					1365.63	
3	0.6814	1108.0	1127.6		0.729	4.026	77.067	15.552	2.360	0.079	0.169	0.009	0.009	0.000					1366.04	
4	0.6814	1108.1	1127.7		0.729	4.018	77.067	15.559	2.360	0.080	0.169	0.009	0.009	0.000					1366.18	
5	0.6820	1108.3	1127.9		0.729	4.018	77.067	15.559	2.360	0.080	0.169	0.009	0.009	0.000					1365.77	
6	0.6835	1108.7	1128.3		0.729	4.018	77.067	15.559	2.360	0.080	0.169	0.009	0.009	0.000					1364.76	
7	0.6849	1109.0	1128.6		0.754	4.258	76.640	15.468	2.572	0.089	0.192	0.013	0.013	0.001					1363.71	
8	0.6857	1109.0	1128.6		0.770	4.312	76.489	15.535	2.587	0.089	0.191	0.012	0.014	0.001					1362.88	
9	0.6834	1106.0	1125.6		0.769	4.270	76.824	15.372	2.479	0.084	0.179	0.011	0.012	0.000					1361.65	
10	0.6739	1096.9	1116.3		0.727	4.006	78.344	14.541	2.131	0.073	0.159	0.010	0.011	0.000					1359.80	
11	0.6802	1103.4	1123.0		0.701	4.235	77.428	14.870	2.468	0.086	0.187	0.012	0.013	0.001					1361.58	
12	0.6906	1114.5	1134.3		0.757	4.439	75.875	15.677	2.900	0.102	0.220	0.013	0.014	0.001					1364.96	
13	0.6797	1106.0	1125.6		0.730	3.979	77.411	15.290	2.316	0.078	0.170	0.011	0.013	0.002					1365.37	
14	0.6795	1103.5	1123.0		0.714	4.142	77.523	14.930	2.402	0.083	0.179	0.012	0.013	0.002					1362.37	
15	0.6763	1097.9	1117.4		0.696	4.208	78.003	14.511	2.321	0.076	0.163	0.010	0.011	0.000					1358.74	
16	0.6857	1112.6	1132.4		0.722	4.159	76.223	16.221	2.400	0.079	0.170	0.011	0.013	0.002					1367.44	
17	0.6854	1112.5	1132.2		0.731	4.129	76.270	16.206	2.395	0.078	0.168	0.011	0.011	0.000					1367.51	
18	0.6930	1122.8	1142.7		0.770	4.150	75.244	16.790	2.693	0.098	0.219	0.016	0.018	0.002					1372.63	
19	0.6757	1106.4	1126.0		0.605	3.769	78.124	15.044	2.090	0.094	0.228	0.019	0.023	0.004					1369.88	
20	0.6681	1098.0	1117.4		0.549	3.662	78.946	14.936	1.654	0.068	0.158	0.012	0.014	0.002					1367.08	
21	0.6654	1093.5	1112.8		0.545	3.687	79.329	14.678	1.531	0.060	0.142	0.011	0.014	0.003					1364.26	
22	0.6719	1100.7	1120.2		0.650	3.695	78.135	15.677	1.646	0.056	0.124	0.008	0.008	0.000					1366.69	
23	0.6733	1103.9	1123.4		0.670	3.611	77.937	15.894	1.674	0.059	0.134	0.009	0.011	0.001					1369.10	
24	0.6772	1109.1	1128.8		0.727	3.566	77.244	16.538	1.716	0.058	0.130	0.009	0.010	0.001					1371.70	
25	0.6645	1092.4	1111.8		0.556	3.656	79.295	14.893	1.421	0.051	0.113	0.007	0.008	0.000					1363.86	
26	0.6581	1082.0	1101.2		0.497	3.775	80.600	13.479	1.450	0.056	0.125	0.008	0.010	0.001					1357.41	
27	0.6645	1093.1	1112.4		0.527	3.657	79.390	14.726	1.501	0.056	0.126	0.008	0.009	0.000					1364.66	
28	0.6747	1106.2	1125.8		0.700	3.556	77.779	15.990	1.755	0.061	0.137	0.010	0.011	0.000					1370.56	
29	0.6637	1091.2	1110.5		0.549	3.667	79.550	14.549	1.492	0.054	0.120	0.009	0.010	0.002					1363.10	
30	0.6633	1088.5	1107.8		0.488	3.880	79.599	14.305	1.530	0.056	0.123	0.009	0.010	0.001					1360.19	
31	0.6424	1060.3	1079.1		0.280	3.947	83.240	11.191	1.168	0.050	0.110	0.007	0.007	0.000					1346.39	
<b>Avg</b>	<b>0.6759</b>	<b>1102.0</b>	<b>1121.8</b>		<b>0.662</b>	<b>3.956</b>	<b>77.863</b>	<b>15.178</b>	<b>2.081</b>	<b>0.074</b>	<b>0.162</b>	<b>0.011</b>	<b>0.012</b>	<b>0.001</b>					<b>1364.46</b>	

# Source Daily Summary

January 2022

Source #: 601  
Name: TIOGA STN-ROBINSON LAKE PLNT

<b>Pressure Base:</b>	14.730	<b>Contract Day:</b>	1
<b>Temperature Base:</b>	60	<b>Contract Hour:</b>	9

Day	Relative Density	Heating Value Wet	Heating Value Dry	Heating Value As Del	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.7405	1161.0	1181.6	1181.4	0.934	6.023	68.138	19.331	5.032	0.169	0.338	0.017	0.018	0.000	0.000	0.000	0.000	0.000	1373.29	
2	0.7537	1169.6	1190.3	1190.1	0.907	6.780	66.288	19.539	5.872	0.192	0.382	0.020	0.020	0.000	0.000	0.000	0.000	0.000	1371.05	
3	0.7502	1165.1	1185.7	1185.6	0.915	6.710	66.786	19.293	5.731	0.177	0.353	0.018	0.018	0.000	0.000	0.000	0.000	0.000	1369.02	
4	0.7605	1184.5	1205.4	1205.3	0.918	6.496	65.602	19.966	6.295	0.223	0.451	0.024	0.025	0.000	0.000	0.000	0.000	0.000	1382.22	
5	0.7404	1169.4	1190.1	1190.0	0.957	5.463	68.383	19.616	4.966	0.184	0.385	0.022	0.024	0.000	0.000	0.000	0.000	0.000	1383.43	
6	0.7260	1149.0	1169.3	1169.2	0.964	5.354	70.099	19.049	4.090	0.137	0.277	0.015	0.016	0.000	0.000	0.000	0.000	0.000	1372.71	
7	0.7597	1182.9	1203.9	1203.7	0.918	6.508	65.614	20.048	6.236	0.213	0.421	0.021	0.022	0.000	0.000	0.000	0.000	0.000	1381.24	
8	0.7586	1179.1	1200.0	1199.8	0.918	6.644	65.777	19.813	6.154	0.213	0.432	0.024	0.026	0.000	0.000	0.000	0.000	0.000	1377.70	
9	0.7513	1168.4	1189.1	1188.9	0.923	6.608	66.638	19.520	5.709	0.189	0.374	0.019	0.021	0.000	0.000	0.000	0.000	0.000	1371.83	
10	0.7477	1160.0	1180.5	1180.3	0.922	6.777	67.093	19.110	5.535	0.178	0.349	0.018	0.018	0.000	0.000	0.000	0.000	0.000	1365.28	
11	0.7504	1165.8	1186.5	1186.3	0.922	6.678	66.792	19.294	5.723	0.185	0.366	0.019	0.020	0.000	0.000	0.000	0.000	0.000	1369.63	
12	0.7473	1164.6	1185.3	1185.1	0.930	6.447	67.171	19.454	5.395	0.186	0.376	0.019	0.020	0.000	0.000	0.000	0.000	0.000	1371.12	
13	0.7336	1166.7	1187.4	1187.2	0.950	5.002	69.274	19.713	4.506	0.161	0.347	0.021	0.025	0.000	0.000	0.000	0.000	0.000	1386.55	
14	0.7212	1151.5	1171.9	1171.7	0.954	4.772	70.812	19.250	3.791	0.127	0.262	0.015	0.016	0.000	0.000	0.000	0.000	0.000	1380.13	
15	0.7532	1173.0	1193.8	1193.6	0.929	6.487	66.497	19.626	5.797	0.204	0.416	0.022	0.023	0.000	0.000	0.000	0.000	0.000	1375.57	
16	0.7456	1156.0	1176.5	1176.3	0.917	6.838	67.356	18.907	5.436	0.172	0.340	0.017	0.018	0.000	0.000	0.000	0.000	0.000	1362.47	
17	0.7464	1156.5	1177.0	1176.8	0.916	6.879	67.225	18.962	5.484	0.169	0.333	0.017	0.017	0.000	0.000	0.000	0.000	0.000	1362.34	
18	0.7466	1156.9	1177.4	1177.3	0.919	6.868	67.240	18.916	5.505	0.173	0.342	0.018	0.019	0.000	0.000	0.000	0.000	0.000	1362.65	
19	0.7453	1155.3	1175.8	1175.6	0.918	6.851	67.349	18.948	5.404	0.167	0.330	0.017	0.017	0.000	0.000	0.000	0.000	0.000	1361.91	
20	0.7226	1159.4	1179.9	1179.7	0.993	4.361	70.659	19.863	3.622	0.137	0.313	0.024	0.028	0.000	0.000	0.000	0.000	0.000	1388.21	
21	0.7115	1158.9	1179.4	1179.2	1.027	3.292	72.312	20.065	2.829	0.121	0.294	0.027	0.033	0.000	0.000	0.000	0.000	0.000	1398.26	
22	0.7043	1147.5	1167.9	1167.7	1.014	3.339	73.125	19.663	2.513	0.094	0.217	0.016	0.019	0.000	0.000	0.000	0.000	0.000	1391.53	
23	0.7157	1139.4	1159.6	1159.5	0.995	4.928	71.589	18.600	3.504	0.117	0.234	0.016	0.017	0.000	0.000	0.000	0.000	0.000	1370.95	
24	0.6951	1130.2	1150.2	1150.0	1.024	3.512	74.610	18.296	2.291	0.075	0.164	0.013	0.014	0.000	0.000	0.000	0.000	0.000	1379.58	
25	0.6929	1129.0	1149.0	1148.9	0.988	3.435	74.733	18.523	2.098	0.065	0.139	0.009	0.011	0.000	0.000	0.000	0.000	0.000	1380.34	
26	0.6948	1131.9	1152.0	1151.8	1.008	3.407	74.326	18.972	2.063	0.064	0.139	0.009	0.010	0.000	0.000	0.000	0.000	0.000	1382.00	
27	0.6924	1129.0	1149.0	1148.9	0.972	3.413	74.867	18.404	2.110	0.067	0.145	0.010	0.012	0.000	0.000	0.000	0.000	0.000	1380.84	
28	0.6898	1126.3	1146.2	1146.0	0.904	3.435	75.432	17.804	2.173	0.072	0.157	0.010	0.012	0.000	0.000	0.000	0.000	0.000	1380.10	
29	0.6942	1130.9	1150.9	1150.8	1.024	3.388	74.790	18.233	2.300	0.076	0.165	0.011	0.012	0.000	0.000	0.000	0.000	0.000	1381.34	
30	0.6943	1130.7	1150.7	1150.6	1.031	3.400	74.786	18.215	2.302	0.076	0.166	0.011	0.013	0.000	0.000	0.000	0.000	0.000	1380.99	
31	0.7141	1136.9	1157.0	1156.8	0.941	5.015	71.700	18.586	3.397	0.110	0.222	0.014	0.016	0.000	0.000	0.000	0.000	0.000	1369.49	
Avg	0.7290	1154.0	1174.8	1174.6	0.953	5.326	69.776	19.148	4.318	0.145	0.298	0.017	0.019	0.000	0.000	0.000	0.000	0.000	1376.25	

# Source Daily Summary

January 2022

Source #: 091  
Name: MNT BRD-PLRMO BRD-BIS STN

<b>Pressure Base:</b>	14.730	<b>Contract Day:</b>	1
<b>Temperature Base:</b>	60	<b>Contract Hour:</b>	9

Day	Relative Density	Heating Value Wet	Heating Value Dry	Heating Value As Del	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.7535	1167.4	1188.0	1187.8	0.926	6.870	66.340	19.347	5.922	0.188	0.369	0.018	0.019	0.000	0.000	0.000	0.000	0.000	1368.61	
2	0.7643	1187.6	1208.6	1208.4	0.928	6.643	65.140	20.001	6.517	0.237	0.481	0.026	0.027	0.000	0.000	0.000	0.000	0.000	1382.44	
3	0.7559	1171.3	1192.0	1191.8	0.930	6.850	66.085	19.487	5.967	0.211	0.423	0.022	0.024	0.000	0.000	0.000	0.000	0.000	1370.99	
4	0.7627	1184.3	1205.3	1205.1	0.928	6.687	65.298	19.943	6.403	0.230	0.460	0.024	0.026	0.000	0.000	0.000	0.000	0.000	1380.13	
5	0.7586	1176.8	1197.6	1197.4	0.927	6.768	65.749	19.690	6.206	0.210	0.407	0.021	0.022	0.000	0.000	0.000	0.000	0.000	1375.04	
6	0.7652	1188.3	1209.4	1209.1	0.927	6.685	64.946	20.136	6.561	0.230	0.461	0.025	0.027	0.000	0.000	0.000	0.000	0.000	1382.42	
7	0.7551	1169.5	1190.3	1190.0	0.930	6.879	66.086	19.543	5.948	0.195	0.381	0.019	0.020	0.000	0.000	0.000	0.000	0.000	1369.74	
8	0.7522	1164.6	1185.2	1184.9	0.930	6.910	66.524	19.219	5.810	0.192	0.376	0.019	0.020	0.000	0.000	0.000	0.000	0.000	1366.53	
9	0.7526	1166.5	1187.2	1186.9	0.931	6.825	66.519	19.245	5.873	0.192	0.375	0.019	0.020	0.000	0.000	0.000	0.000	0.000	1368.48	
10	0.7529	1166.8	1187.5	1187.2	0.933	6.837	66.439	19.362	5.786	0.202	0.400	0.020	0.021	0.000	0.000	0.000	0.000	0.000	1368.50	
11	0.7537	1171.1	1191.8	1191.6	0.943	6.631	66.383	19.560	5.837	0.203	0.403	0.020	0.021	0.000	0.000	0.000	0.000	0.000	1372.86	
12	0.7556	1174.2	1195.0	1194.8	0.945	6.617	66.170	19.640	5.957	0.210	0.418	0.021	0.022	0.000	0.000	0.000	0.000	0.000	1374.75	
13	0.7562	1174.2	1195.0	1194.8	0.938	6.679	66.103	19.603	5.991	0.213	0.427	0.022	0.023	0.000	0.000	0.000	0.000	0.000	1374.25	
14	0.7494	1158.5	1179.0	1178.8	0.927	7.017	66.863	18.949	5.665	0.181	0.359	0.019	0.019	0.000	0.000	0.000	0.000	0.000	1362.02	
15	0.7473	1153.9	1174.3	1174.1	0.925	7.113	67.076	18.785	5.562	0.171	0.333	0.017	0.017	0.000	0.000	0.000	0.000	0.000	1358.40	
16	0.7489	1157.9	1178.4	1178.2	0.927	7.018	66.923	18.909	5.651	0.182	0.355	0.018	0.018	0.000	0.000	0.000	0.000	0.000	1361.63	
17	0.7454	1151.4	1171.8	1171.5	0.925	7.084	67.323	18.701	5.447	0.165	0.321	0.016	0.017	0.000	0.000	0.000	0.000	0.000	1357.21	
18	0.7468	1154.6	1175.0	1174.8	0.933	7.014	67.096	18.956	5.473	0.169	0.325	0.017	0.018	0.000	0.000	0.000	0.000	0.000	1359.66	
19	0.7400	1141.4	1161.7	1161.4	0.932	7.173	67.853	18.527	5.106	0.133	0.253	0.011	0.011	0.000	0.000	0.000	0.000	0.000	1350.44	
20	0.7384	1139.5	1159.6	1159.4	0.927	7.153	68.046	18.516	4.915	0.147	0.272	0.012	0.012	0.000	0.000	0.000	0.000	0.000	1349.54	
21	0.7422	1145.7	1166.0	1165.8	0.933	7.121	67.584	18.765	5.099	0.161	0.310	0.014	0.014	0.000	0.000	0.000	0.000	0.000	1353.42	
22	0.7390	1139.7	1159.9	1159.6	0.931	7.196	67.967	18.512	4.931	0.151	0.287	0.012	0.012	0.000	0.000	0.000	0.000	0.000	1349.19	
23	0.7448	1150.8	1171.1	1170.9	0.930	7.063	67.313	18.887	5.263	0.173	0.340	0.016	0.016	0.000	0.000	0.000	0.000	0.000	1356.99	
24	0.7392	1139.5	1159.7	1159.5	0.926	7.224	67.954	18.490	4.943	0.151	0.287	0.013	0.013	0.000	0.000	0.000	0.000	0.000	1348.91	
25	0.7377	1139.6	1159.8	1159.6	0.937	7.066	68.217	18.435	4.884	0.150	0.286	0.013	0.013	0.000	0.000	0.000	0.000	0.000	1350.34	
26	0.7431	1152.3	1172.7	1172.5	0.943	6.789	67.582	19.008	5.140	0.171	0.336	0.015	0.016	0.000	0.000	0.000	0.000	0.000	1360.40	
27	0.7419	1146.1	1166.4	1166.2	0.934	7.066	67.693	18.707	5.075	0.167	0.328	0.015	0.015	0.000	0.000	0.000	0.000	0.000	1354.18	
28	0.7403	1145.8	1166.1	1165.9	0.939	6.933	67.944	18.683	4.970	0.167	0.333	0.015	0.016	0.000	0.000	0.000	0.000	0.000	1355.22	
29	0.7451	1153.2	1173.6	1173.4	0.935	6.936	67.337	18.963	5.251	0.181	0.362	0.017	0.018	0.000	0.000	0.000	0.000	0.000	1359.59	
30	0.7433	1150.8	1171.2	1170.9	0.939	6.903	67.556	18.898	5.164	0.171	0.337	0.015	0.016	0.000	0.000	0.000	0.000	0.000	1358.45	
31	0.7436	1151.2	1171.6	1171.4	0.938	6.906	67.525	18.910	5.165	0.175	0.346	0.017	0.017	0.000	0.000	0.000	0.000	0.000	1358.68	
Avg	0.7489	1159.0	1179.7	1179.5	0.932	6.924	66.891	19.109	5.564	0.183	0.360	0.018	0.018	0.000	0.000	0.000	0.000	0.000	1363.19	

# Gas Composition and Properties

Effective October 1, 2021

Attachment B  
Page 8 of 24

Source #: 2501030  
Name: LIGNITE PLANT

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

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

**Sample**

Date: 10/01/2021                      Type:

Tech: Wayne Sampson

Pressure:                                      Temp.:

Gauge:    H2O:

Atm. Pressure:                                      H2S:

Remarks:

**Analysis**

Date:    Instrument:

Tech:    Cylinder:

Remarks:

# Gas Composition and Properties

Effective January 1, 2022

Attachment B  
Page 9 of 24

Source #: 3002013  
Name: EPPING BORDER

Component	Mole %	Liquid Content	Mass %	Property	Total Sample	C6 Plus Fraction
Carbon Dioxide, CO2	0.8504		1.8906	Pressure Base	14.730	
Nitrogen, N2	3.1436		4.4486	Temperature Base	60.00	
Methane, C1	76.2195		61.7679	HCDP @ Sample Pressure		
Ethane, C2	17.5154	4.6862	26.6051	Cricondentherm	-18.882	
Propane, C3	1.9778	0.5451	4.4056	HV, Dry @ Base P, T	1145.34	
iso-Butane, iC4	0.0831	0.0272	0.2440	HV, Sat @ Base P, T	1125.41	
n-Butane, nC4	0.1827	0.0576	0.5364	HV, Sat @ Sample P, T	1145.34	
iso-Pentane, iC5	0.0120	0.0044	0.0437	Relative Density	0.6852	
n-Pentane, nC5	0.0133	0.0048	0.0485			
Neo-Pentane, neo						
Hexanes Plus, C6+	0.0022	0.0009	0.0096			
Argon, Ar						
Carbon Monoxide, CO						
Hydrogen, H2						
Oxygen, O2						
Helium, He						
Water, H2O						
Hydrogen Sulfide, H2S						
				C6+: 100		
<b>Totals</b>	<b>100.0000</b>	<b>5.3260</b>	<b>100.0000</b>			

**Sample**

Date: 01/01/2022                      Type:

Tech: Wayne Sampson

Pressure:                                      Temp.:

Gauge:    H2O:

Atm. Pressure:                                      H2S:

Remarks:

**Analysis**

Date:    Instrument:

Tech:    Cylinder:

Remarks:

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

# Source Daily Summary

January 2022

Source #: 603  
Name: TIOGA STN-COUNTY LINE PLANT

<b>Pressure Base:</b>	14.730	<b>Contract Day:</b>	1
<b>Temperature Base:</b>	60	<b>Contract Hour:</b>	9

Day	Relative Density	Heating Value Wet	Heating Value Dry	Heating Value As Del	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.6935	1131.3	1151.3	1151.0	0.991	3.355	74.520	18.913	2.002	0.062	0.135	0.010	0.012	0.000	0.000	0.000	0.000	0.000	1382.45	
2	0.7000	1141.2	1161.4	1161.2	0.996	3.346	73.759	19.268	2.308	0.085	0.199	0.017	0.021	0.000	0.000	0.000	0.000	0.000	1388.12	
3	0.6956	1134.3	1154.4	1154.1	0.981	3.371	74.282	19.015	2.115	0.066	0.147	0.010	0.012	0.000	0.000	0.000	0.000	0.000	1384.09	
4	0.6927	1129.4	1149.4	1149.2	0.993	3.380	74.843	18.416	2.139	0.066	0.142	0.010	0.011	0.000	0.000	0.000	0.000	0.000	1381.08	
5	0.6934	1130.3	1150.3	1150.1	1.022	3.354	74.644	18.710	2.043	0.064	0.140	0.011	0.013	0.000	0.000	0.000	0.000	0.000	1381.39	
6	0.6923	1128.8	1148.7	1148.5	1.021	3.347	74.840	18.526	2.043	0.064	0.140	0.009	0.010	0.000	0.000	0.000	0.000	0.000	1380.60	
7	0.7232	1182.3	1203.2	1203.0	0.934	3.102	71.125	20.434	3.738	0.193	0.422	0.026	0.026	0.000	0.000	0.000	0.000	0.000	1414.86	
8	0.7090	1155.7	1176.2	1176.0	1.023	3.260	72.532	20.055	2.719	0.117	0.260	0.018	0.017	0.000	0.000	0.000	0.000	0.000	1396.84	
9	0.6936	1130.1	1150.1	1149.8	1.029	3.378	74.669	18.611	2.064	0.069	0.154	0.012	0.014	0.000	0.000	0.000	0.000	0.000	1380.89	
10	0.6980	1135.4	1155.5	1155.3	1.058	3.417	73.808	19.371	2.107	0.069	0.150	0.010	0.011	0.000	0.000	0.000	0.000	0.000	1383.12	
11	0.6930	1127.5	1147.5	1147.2	1.040	3.454	74.758	18.457	2.051	0.068	0.150	0.010	0.011	0.000	0.000	0.000	0.000	0.000	1378.42	
12	0.6955	1133.9	1154.0	1153.8	0.975	3.396	74.417	18.737	2.211	0.073	0.166	0.012	0.014	0.000	0.000	0.000	0.000	0.000	1383.76	
13	0.6982	1137.7	1157.8	1157.6	0.987	3.400	74.024	18.967	2.361	0.074	0.162	0.011	0.013	0.000	0.000	0.000	0.000	0.000	1385.72	
14	0.6962	1135.5	1155.6	1155.4	0.972	3.372	74.266	18.878	2.274	0.069	0.148	0.010	0.011	0.000	0.000	0.000	0.000	0.000	1385.01	
15	0.6970	1135.9	1156.1	1155.8	0.999	3.379	74.064	19.109	2.214	0.068	0.147	0.010	0.011	0.000	0.000	0.000	0.000	0.000	1384.75	
16	0.6966	1135.3	1155.4	1155.2	1.003	3.376	74.204	18.944	2.222	0.070	0.154	0.012	0.015	0.000	0.000	0.000	0.000	0.000	1384.33	
17	0.6977	1136.5	1156.6	1156.4	1.002	3.414	74.048	18.981	2.297	0.072	0.159	0.012	0.015	0.000	0.000	0.000	0.000	0.000	1384.70	
18	0.6973	1136.0	1156.1	1155.9	1.023	3.375	74.086	19.004	2.262	0.071	0.154	0.011	0.013	0.000	0.000	0.000	0.000	0.000	1384.49	
19	0.6987	1137.7	1157.9	1157.6	1.040	3.368	73.830	19.273	2.229	0.073	0.161	0.012	0.014	0.000	0.000	0.000	0.000	0.000	1385.22	
20	0.7172	1167.9	1188.6	1188.3	1.040	3.264	71.566	20.493	3.092	0.138	0.341	0.030	0.036	0.000	0.000	0.000	0.000	0.000	1403.44	
21	0.7063	1151.2	1171.6	1171.4	1.006	3.308	72.999	19.642	2.636	0.106	0.253	0.022	0.027	0.000	0.000	0.000	0.000	0.000	1394.08	
22	0.6930	1128.5	1148.5	1148.3	1.008	3.440	74.916	18.209	2.170	0.070	0.157	0.013	0.017	0.000	0.000	0.000	0.000	0.000	1379.68	
23	0.6920	1126.5	1146.4	1146.2	1.027	3.446	74.961	18.240	2.105	0.066	0.139	0.007	0.009	0.000	0.000	0.000	0.000	0.000	1378.13	
24	0.6944	1130.3	1150.3	1150.1	1.024	3.441	74.641	18.441	2.200	0.071	0.157	0.011	0.013	0.000	0.000	0.000	0.000	0.000	1380.42	
25	0.6936	1129.8	1149.8	1149.6	0.998	3.435	74.678	18.517	2.134	0.067	0.148	0.010	0.012	0.000	0.000	0.000	0.000	0.000	1380.64	
26	0.6947	1131.3	1151.3	1151.1	1.018	3.418	74.359	18.932	2.051	0.064	0.138	0.009	0.010	0.000	0.000	0.000	0.000	0.000	1381.36	
27	0.6926	1129.4	1149.4	1149.2	0.962	3.416	74.862	18.402	2.113	0.068	0.150	0.012	0.014	0.000	0.000	0.000	0.000	0.000	1381.17	
28	0.6899	1126.2	1146.2	1146.0	0.910	3.438	75.431	17.782	2.183	0.074	0.160	0.010	0.012	0.000	0.000	0.000	0.000	0.000	1379.94	
29	0.6941	1130.4	1150.4	1150.2	1.027	3.399	74.847	18.147	2.311	0.077	0.168	0.011	0.012	0.000	0.000	0.000	0.000	0.000	1380.87	
30	0.6954	1132.7	1152.8	1152.6	1.018	3.396	74.574	18.440	2.307	0.074	0.163	0.012	0.015	0.000	0.000	0.000	0.000	0.000	1382.39	
31	0.6944	1131.4	1151.4	1151.2	1.007	3.405	74.626	18.473	2.251	0.069	0.146	0.010	0.012	0.000	0.000	0.000	0.000	0.000	1381.70	
Avg	0.6974	1136.0	1156.6	1156.4	1.004	3.376	74.167	18.884	2.289	0.079	0.175	0.013	0.015	0.000	0.000	0.000	0.000	0.000	1384.96	

# Source Daily Summary

January 2022

Source #: 043  
Name: BISMARCK STN-CLEVELAND STN

<b>Pressure Base:</b>	14.730	<b>Contract Day:</b>	1
<b>Temperature Base:</b>	60	<b>Contract Hour:</b>	9

Day	Relative Density	Heating Value Wet	Heating Value Dry	Heating Value As Del	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.7034	1130.5	1150.6	1149.8	0.741	4.695	73.729	17.060	3.430	0.110	0.212	0.011	0.011	0.000	0.000	0.000	0.000	0.000	1371.89	
2	0.7196	1145.0	1165.3	1164.5	0.800	5.246	71.490	17.718	4.280	0.147	0.289	0.016	0.016	0.000	0.000	0.000	0.000	0.000	1373.67	
3	0.7309	1159.2	1179.7	1178.9	0.806	5.432	69.968	18.378	4.829	0.180	0.365	0.020	0.021	0.000	0.000	0.000	0.000	0.000	1379.86	
4	0.7207	1145.7	1166.0	1165.3	0.792	5.315	71.188	18.028	4.209	0.148	0.290	0.015	0.015	0.000	0.000	0.000	0.000	0.000	1373.49	
5	0.7112	1141.4	1161.6	1160.9	0.875	4.559	72.878	17.423	3.838	0.136	0.263	0.015	0.015	0.000	0.000	0.000	0.000	0.000	1377.46	
6	0.6947	1126.4	1146.3	1145.7	0.847	3.972	75.348	16.422	3.079	0.106	0.202	0.012	0.011	0.000	0.000	0.000	0.000	0.000	1375.33	
7	0.6916	1122.0	1141.8	1141.1	0.817	3.994	75.842	16.043	2.982	0.102	0.197	0.011	0.011	0.000	0.000	0.000	0.000	0.000	1373.07	
8	0.7071	1133.2	1153.3	1152.6	0.846	4.721	73.390	17.002	3.651	0.125	0.240	0.013	0.013	0.000	0.000	0.000	0.000	0.000	1371.50	
9	0.7036	1127.6	1147.6	1146.8	0.790	4.822	73.742	16.847	3.446	0.113	0.215	0.012	0.011	0.000	0.000	0.000	0.000	0.000	1368.08	
10	0.7212	1143.9	1164.2	1163.4	0.830	5.416	71.194	17.789	4.307	0.147	0.287	0.015	0.015	0.000	0.000	0.000	0.000	0.000	1370.86	
11	0.7345	1155.8	1176.3	1175.4	0.861	5.890	69.228	18.544	4.923	0.174	0.344	0.017	0.017	0.000	0.000	0.000	0.000	0.000	1372.53	
12	0.7514	1170.9	1191.6	1190.5	0.926	6.461	66.742	19.488	5.743	0.202	0.399	0.019	0.019	0.000	0.000	0.000	0.000	0.000	1374.65	
13	0.7523	1174.8	1195.6	1194.6	0.903	6.336	66.666	19.656	5.765	0.210	0.422	0.021	0.022	0.000	0.000	0.000	0.000	0.000	1378.47	
14	0.7278	1149.1	1169.4	1168.5	0.816	5.741	69.980	18.500	4.493	0.150	0.292	0.014	0.015	0.000	0.000	0.000	0.000	0.000	1370.77	
15	0.7317	1146.4	1166.7	1165.8	0.851	6.216	69.453	18.219	4.780	0.153	0.299	0.015	0.015	0.000	0.000	0.000	0.000	0.000	1363.97	
16	0.7438	1156.2	1176.7	1175.7	0.878	6.713	67.679	18.782	5.405	0.173	0.337	0.016	0.016	0.000	0.000	0.000	0.000	0.000	1364.36	
17	0.7394	1150.3	1170.6	1169.7	0.861	6.685	68.306	18.437	5.195	0.164	0.320	0.016	0.016	0.000	0.000	0.000	0.000	0.000	1361.43	
18	0.7125	1134.8	1154.9	1154.1	0.668	5.403	72.040	17.777	3.746	0.117	0.226	0.011	0.011	0.000	0.000	0.000	0.000	0.000	1368.25	
19	0.7008	1121.8	1141.7	1140.9	0.627	5.162	73.701	17.038	3.187	0.093	0.175	0.009	0.009	0.000	0.000	0.000	0.000	0.000	1363.80	
20	0.7045	1126.7	1146.6	1145.9	0.627	5.208	73.006	17.624	3.252	0.092	0.174	0.008	0.008	0.000	0.000	0.000	0.000	0.000	1366.17	
21	0.7112	1130.3	1150.3	1149.6	0.677	5.557	71.843	17.905	3.666	0.114	0.216	0.010	0.009	0.000	0.000	0.000	0.000	0.000	1364.03	
22	0.7081	1125.1	1145.0	1144.3	0.666	5.589	72.495	17.496	3.437	0.104	0.196	0.009	0.008	0.000	0.000	0.000	0.000	0.000	1360.69	
23	0.7193	1134.2	1154.3	1153.6	0.752	5.949	70.944	17.977	3.984	0.128	0.245	0.011	0.011	0.000	0.000	0.000	0.000	0.000	1361.05	
24	0.7161	1135.1	1155.2	1154.5	0.736	5.622	71.438	18.012	3.809	0.124	0.237	0.011	0.011	0.000	0.000	0.000	0.000	0.000	1365.08	
25	0.7097	1130.7	1150.7	1150.0	0.708	5.332	72.259	17.955	3.419	0.107	0.201	0.010	0.009	0.000	0.000	0.000	0.000	0.000	1365.96	
26	0.7213	1140.6	1160.8	1160.1	0.800	5.675	70.677	18.432	4.010	0.131	0.252	0.012	0.011	0.000	0.000	0.000	0.000	0.000	1366.81	
27	0.7261	1144.0	1164.2	1163.5	0.774	5.963	69.955	18.597	4.261	0.143	0.279	0.013	0.013	0.000	0.000	0.000	0.000	0.000	1366.24	
28	0.7278	1140.5	1160.7	1160.0	0.813	6.273	69.688	18.432	4.339	0.145	0.285	0.013	0.013	0.000	0.000	0.000	0.000	0.000	1360.56	
29	0.7326	1149.3	1169.6	1168.8	0.813	6.185	69.092	18.795	4.624	0.158	0.305	0.014	0.014	0.000	0.000	0.000	0.000	0.000	1366.55	
30	0.7254	1144.9	1165.1	1164.3	0.787	5.825	69.957	18.880	4.123	0.137	0.266	0.012	0.012	0.000	0.000	0.000	0.000	0.000	1367.97	
31	0.7223	1146.0	1166.3	1165.5	0.792	5.457	70.418	19.003	3.917	0.132	0.256	0.012	0.012	0.000	0.000	0.000	0.000	0.000	1372.28	
Avg	0.7201	1141.0	1161.6	1160.8	0.790	5.529	71.108	18.008	4.133	0.138	0.267	0.013	0.013	0.000	0.000	0.000	0.000	0.000	1368.93	

# Source Daily Summary

January 2022

Source #: 063  
Name: CLEVELAND STN-MAPLETON

<b>Pressure Base:</b>	14.730	<b>Contract Day:</b>	1
<b>Temperature Base:</b>	60	<b>Contract Hour:</b>	9

Day	Relative Density	Heating Value Wet	Heating Value Dry	Heating Value As Del	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.7102	1138.2	1158.4	1158.0	0.743	4.861	72.609	17.781	3.615	0.124	0.241	0.013	0.013	0.000	0.000	0.000	0.000	0.000	1374.59	
2	0.7036	1130.3	1150.4	1149.9	0.746	4.715	73.695	17.082	3.421	0.109	0.209	0.011	0.011	0.000	0.000	0.000	0.000	0.000	1371.48	
3	0.7192	1144.5	1164.8	1164.3	0.807	5.230	71.530	17.737	4.242	0.144	0.280	0.015	0.015	0.000	0.000	0.000	0.000	0.000	1373.43	
4	0.7311	1159.2	1179.7	1179.3	0.813	5.440	69.907	18.449	4.815	0.178	0.357	0.021	0.021	0.000	0.000	0.000	0.000	0.000	1379.68	
5	0.7210	1146.0	1166.2	1165.8	0.800	5.323	71.154	18.014	4.244	0.148	0.288	0.015	0.015	0.000	0.000	0.000	0.000	0.000	1373.42	
6	0.7118	1141.1	1161.4	1160.9	0.874	4.637	72.808	17.354	3.895	0.137	0.264	0.015	0.015	0.000	0.000	0.000	0.000	0.000	1376.52	
7	0.6951	1126.7	1146.6	1146.5	0.853	3.980	75.311	16.423	3.096	0.107	0.204	0.012	0.012	0.000	0.000	0.000	0.000	0.000	1375.32	
8	0.6920	1122.1	1141.9	1141.8	0.822	4.020	75.743	16.123	2.974	0.101	0.193	0.012	0.011	0.000	0.000	0.000	0.000	0.000	1372.77	
9	0.7067	1131.8	1151.9	1151.8	0.853	4.753	73.482	16.874	3.652	0.124	0.235	0.013	0.013	0.000	0.000	0.000	0.000	0.000	1370.25	
10	0.7032	1126.3	1146.3	1146.1	0.795	4.856	73.836	16.714	3.452	0.113	0.212	0.012	0.011	0.000	0.000	0.000	0.000	0.000	1366.91	
11	0.7208	1142.6	1162.9	1162.7	0.835	5.444	71.277	17.688	4.300	0.145	0.281	0.015	0.015	0.000	0.000	0.000	0.000	0.000	1369.75	
12	0.7324	1153.4	1173.8	1173.7	0.860	5.844	69.535	18.407	4.819	0.170	0.331	0.017	0.017	0.000	0.000	0.000	0.000	0.000	1371.62	
13	0.7507	1168.8	1189.4	1189.3	0.933	6.509	66.828	19.416	5.691	0.198	0.387	0.019	0.019	0.000	0.000	0.000	0.000	0.000	1372.84	
14	0.7524	1173.6	1194.4	1194.3	0.913	6.403	66.639	19.612	5.768	0.208	0.414	0.021	0.022	0.000	0.000	0.000	0.000	0.000	1377.01	
15	0.7281	1149.4	1169.8	1169.7	0.817	5.750	69.936	18.516	4.511	0.149	0.290	0.015	0.015	0.000	0.000	0.000	0.000	0.000	1370.88	
16	0.7311	1145.4	1165.7	1165.6	0.857	6.208	69.543	18.178	4.741	0.151	0.291	0.015	0.015	0.000	0.000	0.000	0.000	0.000	1363.38	
17	0.7432	1155.0	1175.5	1175.4	0.882	6.721	67.744	18.764	5.360	0.170	0.327	0.016	0.016	0.000	0.000	0.000	0.000	0.000	1363.57	
18	0.7403	1150.9	1171.3	1171.0	0.873	6.714	68.179	18.481	5.236	0.165	0.320	0.017	0.017	0.000	0.000	0.000	0.000	0.000	1361.38	
19	0.7110	1132.7	1152.7	1152.1	0.666	5.394	72.290	17.600	3.693	0.115	0.220	0.011	0.011	0.000	0.000	0.000	0.000	0.000	1367.12	
20	0.6999	1120.3	1140.1	1139.5	0.626	5.171	73.885	16.859	3.176	0.093	0.172	0.009	0.009	0.000	0.000	0.000	0.000	0.000	1362.82	
21	0.7056	1127.6	1147.6	1147.0	0.636	5.246	72.831	17.712	3.290	0.093	0.175	0.009	0.008	0.000	0.000	0.000	0.000	0.000	1366.20	
22	0.7139	1133.5	1153.6	1153.0	0.684	5.596	71.620	18.086	3.669	0.114	0.213	0.010	0.009	0.000	0.000	0.000	0.000	0.000	1365.27	
23	0.7086	1125.8	1145.7	1145.0	0.668	5.586	72.414	17.583	3.433	0.104	0.194	0.009	0.009	0.000	0.000	0.000	0.000	0.000	1361.10	
24	0.7195	1134.6	1154.7	1154.1	0.758	5.940	70.894	18.049	3.967	0.126	0.241	0.012	0.012	0.000	0.000	0.000	0.000	0.000	1361.28	
25	0.7164	1135.0	1155.1	1154.5	0.741	5.642	71.407	18.007	3.820	0.124	0.236	0.012	0.011	0.000	0.000	0.000	0.000	0.000	1364.77	
26	0.7101	1130.6	1150.6	1150.0	0.715	5.365	72.213	17.941	3.441	0.107	0.199	0.010	0.010	0.000	0.000	0.000	0.000	0.000	1365.46	
27	0.7217	1140.8	1161.0	1160.5	0.806	5.689	70.612	18.479	4.011	0.131	0.249	0.012	0.011	0.000	0.000	0.000	0.000	0.000	1366.70	
28	0.7261	1143.4	1163.6	1163.0	0.779	5.991	69.980	18.536	4.270	0.143	0.276	0.013	0.012	0.000	0.000	0.000	0.000	0.000	1365.53	
29	0.7279	1140.3	1160.5	1159.9	0.819	6.285	69.687	18.420	4.340	0.144	0.281	0.013	0.013	0.000	0.000	0.000	0.000	0.000	1360.24	
30	0.7326	1148.5	1168.8	1168.2	0.829	6.206	69.100	18.789	4.576	0.158	0.312	0.015	0.015	0.000	0.000	0.000	0.000	0.000	1365.63	
31	0.7256	1144.9	1165.1	1164.5	0.795	5.827	69.938	18.889	4.126	0.137	0.262	0.013	0.013	0.000	0.000	0.000	0.000	0.000	1367.83	
Avg	0.7197	1141.0	1161.0	1160.6	0.793	5.527	71.181	17.954	4.118	0.136	0.263	0.014	0.013	0.000	0.000	0.000	0.000	0.000	1368.54	

# Source Daily Summary

January 2022

Source #: 061  
Name: CLEVELAND STN-GRAFTON BDR

<b>Pressure Base:</b>	14.730	<b>Contract Day:</b>	1
<b>Temperature Base:</b>	60	<b>Contract Hour:</b>	9

Day	Relative Density	Heating Value Wet	Heating Value Dry	Heating Value As Del	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.7124	1140.9	1161.1	1160.8	0.747	4.900	72.316	17.895	3.730	0.130	0.254	0.014	0.014	0.000	0.000	0.000	0.000	0.000	1375.67	
2	0.7033	1130.5	1150.5	1150.2	0.741	4.693	73.712	17.120	3.394	0.109	0.209	0.011	0.011	0.000	0.000	0.000	0.000	0.000	1371.91	
3	0.7176	1142.5	1162.7	1162.4	0.805	5.207	71.746	17.643	4.159	0.140	0.272	0.015	0.015	0.000	0.000	0.000	0.000	0.000	1372.55	
4	0.7323	1160.7	1181.3	1181.1	0.815	5.450	69.758	18.507	4.880	0.181	0.364	0.021	0.022	0.000	0.000	0.000	0.000	0.000	1380.43	
5	0.7205	1144.8	1165.1	1164.9	0.799	5.340	71.227	17.966	4.207	0.147	0.285	0.015	0.015	0.000	0.000	0.000	0.000	0.000	1372.60	
6	0.7127	1142.1	1162.4	1162.1	0.877	4.652	72.695	17.400	3.935	0.139	0.270	0.016	0.016	0.000	0.000	0.000	0.000	0.000	1376.88	
7	0.6957	1127.0	1147.0	1146.9	0.857	4.010	75.211	16.469	3.116	0.108	0.205	0.012	0.012	0.000	0.000	0.000	0.000	0.000	1375.14	
8	0.6900	1120.8	1140.6	1140.6	0.819	3.909	76.086	15.983	2.890	0.099	0.190	0.012	0.012	0.000	0.000	0.000	0.000	0.000	1373.25	
9	0.7082	1133.8	1153.8	1153.7	0.859	4.773	73.253	17.001	3.720	0.127	0.241	0.014	0.013	0.000	0.000	0.000	0.000	0.000	1371.06	
10	0.7029	1126.1	1146.0	1146.0	0.797	4.838	73.884	16.699	3.433	0.112	0.212	0.012	0.012	0.000	0.000	0.000	0.000	0.000	1366.94	
11	0.7194	1141.7	1162.0	1161.9	0.831	5.382	71.468	17.638	4.233	0.142	0.275	0.015	0.015	0.000	0.000	0.000	0.000	0.000	1369.93	
12	0.7317	1152.7	1173.1	1173.0	0.859	5.823	69.649	18.345	4.791	0.169	0.330	0.017	0.017	0.000	0.000	0.000	0.000	0.000	1371.43	
13	0.7509	1169.2	1189.9	1189.8	0.933	6.506	66.797	19.431	5.708	0.199	0.388	0.019	0.019	0.000	0.000	0.000	0.000	0.000	1373.13	
14	0.7532	1173.2	1193.9	1193.9	0.925	6.489	66.491	19.628	5.812	0.207	0.408	0.020	0.020	0.000	0.000	0.000	0.000	0.000	1375.72	
15	0.7296	1151.9	1172.3	1172.2	0.816	5.740	69.738	18.646	4.574	0.154	0.300	0.015	0.016	0.000	0.000	0.000	0.000	0.000	1372.40	
16	0.7308	1145.6	1165.9	1165.8	0.859	6.169	69.600	18.169	4.731	0.151	0.292	0.015	0.015	0.000	0.000	0.000	0.000	0.000	1363.84	
17	0.7430	1154.7	1175.1	1175.1	0.881	6.723	67.767	18.755	5.347	0.169	0.326	0.016	0.016	0.000	0.000	0.000	0.000	0.000	1363.36	
18	0.7414	1152.4	1172.8	1172.6	0.878	6.721	68.041	18.538	5.294	0.168	0.326	0.017	0.017	0.000	0.000	0.000	0.000	0.000	1362.06	
19	0.7129	1134.1	1154.2	1153.9	0.675	5.467	72.010	17.703	3.779	0.118	0.226	0.012	0.011	0.000	0.000	0.000	0.000	0.000	1367.11	
20	0.7000	1120.4	1140.3	1140.0	0.627	5.173	73.869	16.863	3.183	0.093	0.174	0.009	0.009	0.000	0.000	0.000	0.000	0.000	1362.87	
21	0.7052	1127.4	1147.4	1147.2	0.633	5.226	72.888	17.697	3.272	0.093	0.174	0.009	0.008	0.000	0.000	0.000	0.000	0.000	1366.33	
22	0.7140	1133.4	1153.5	1153.3	0.686	5.604	71.609	18.086	3.670	0.114	0.213	0.010	0.009	0.000	0.000	0.000	0.000	0.000	1365.12	
23	0.7086	1125.5	1145.4	1145.3	0.670	5.600	72.414	17.566	3.435	0.104	0.194	0.009	0.009	0.000	0.000	0.000	0.000	0.000	1360.78	
24	0.7195	1134.3	1154.4	1154.3	0.757	5.955	70.902	18.022	3.973	0.127	0.241	0.012	0.011	0.000	0.000	0.000	0.000	0.000	1360.97	
25	0.7159	1134.4	1154.4	1154.3	0.741	5.645	71.462	17.974	3.799	0.123	0.234	0.011	0.011	0.000	0.000	0.000	0.000	0.000	1364.38	
26	0.7098	1130.3	1150.3	1150.1	0.713	5.356	72.259	17.923	3.423	0.107	0.199	0.010	0.009	0.000	0.000	0.000	0.000	0.000	1365.38	
27	0.7212	1140.3	1160.5	1160.3	0.805	5.683	70.674	18.448	3.990	0.130	0.247	0.012	0.011	0.000	0.000	0.000	0.000	0.000	1366.46	
28	0.7263	1143.6	1163.9	1163.7	0.783	5.990	69.955	18.544	4.281	0.144	0.278	0.013	0.013	0.000	0.000	0.000	0.000	0.000	1365.64	
29	0.7277	1140.0	1160.2	1159.9	0.816	6.287	69.721	18.395	4.331	0.144	0.281	0.013	0.013	0.000	0.000	0.000	0.000	0.000	1360.07	
30	0.7332	1148.7	1169.0	1168.6	0.836	6.246	69.014	18.788	4.611	0.160	0.315	0.015	0.015	0.000	0.000	0.000	0.000	0.000	1365.24	
31	0.7258	1145.1	1165.4	1165.1	0.794	5.830	69.909	18.905	4.134	0.137	0.264	0.013	0.013	0.000	0.000	0.000	0.000	0.000	1367.98	
Avg	0.7199	1141.0	1161.1	1160.9	0.795	5.528	71.165	17.960	4.124	0.137	0.264	0.014	0.013	0.000	0.000	0.000	0.000	0.000	1368.60	

# Source Daily Summary

January 2022

Source #: 041  
Name: BISMARCK STN-GLEN ULLIN STN

<b>Pressure Base:</b>	14.730	<b>Contract Day:</b>	1
<b>Temperature Base:</b>	60	<b>Contract Hour:</b>	9

Day	Relative Density	Heating Value Wet	Heating Value Dry	Heating Value As Del	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.6670	1102.0	1121.5	1121.3	0.634	3.183	79.072	15.369	1.582	0.052	0.095	0.007	0.006	0.000	0.000	0.000	0.000	0.000	1373.25	
2	0.6654	1099.4	1118.9	1118.6	0.635	3.190	79.391	15.056	1.566	0.052	0.096	0.007	0.007	0.000	0.000	0.000	0.000	0.000	1371.66	
3	0.6678	1102.8	1122.4	1122.1	0.603	3.254	78.900	15.480	1.598	0.053	0.098	0.007	0.007	0.000	0.000	0.000	0.000	0.000	1373.47	
4	0.6671	1102.5	1122.0	1121.7	0.618	3.195	78.956	15.553	1.524	0.050	0.092	0.007	0.006	0.000	0.000	0.000	0.000	0.000	1373.69	
5	0.6669	1102.9	1122.5	1122.2	0.844	2.795	79.414	15.176	1.600	0.056	0.100	0.008	0.007	0.000	0.000	0.000	0.000	0.000	1374.54	
6	0.6643	1100.2	1119.7	1119.4	0.822	2.755	79.865	14.835	1.559	0.054	0.096	0.007	0.007	0.000	0.000	0.000	0.000	0.000	1373.76	
7	0.6600	1094.5	1113.9	1113.6	0.776	2.765	80.534	14.351	1.426	0.048	0.086	0.006	0.006	0.000	0.000	0.000	0.000	0.000	1371.12	
8	0.6628	1097.0	1116.4	1116.2	0.789	2.857	80.103	14.563	1.522	0.054	0.097	0.008	0.007	0.000	0.000	0.000	0.000	0.000	1371.32	
9	0.6623	1096.1	1115.5	1115.3	0.678	3.037	79.942	14.750	1.445	0.048	0.087	0.007	0.006	0.000	0.000	0.000	0.000	0.000	1370.71	
10	0.6618	1095.7	1115.1	1114.9	0.678	3.013	80.017	14.726	1.422	0.047	0.085	0.006	0.006	0.000	0.000	0.000	0.000	0.000	1370.74	
11	0.6604	1094.0	1113.4	1113.1	0.657	3.013	80.216	14.614	1.366	0.044	0.079	0.006	0.006	0.000	0.000	0.000	0.000	0.000	1370.12	
12	0.6567	1089.3	1108.5	1108.2	0.770	2.785	80.894	14.242	1.200	0.036	0.064	0.004	0.004	0.000	0.000	0.000	0.000	0.000	1367.98	
13	0.6625	1099.3	1118.8	1118.5	0.656	2.895	79.560	15.580	1.205	0.035	0.062	0.004	0.004	0.000	0.000	0.000	0.000	0.000	1374.53	
14	0.6652	1106.3	1125.9	1125.6	0.530	2.920	78.743	16.608	1.109	0.030	0.054	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1380.41	
15	0.6628	1098.9	1118.4	1118.1	0.580	3.059	79.496	15.476	1.279	0.036	0.066	0.004	0.004	0.000	0.000	0.000	0.000	0.000	1373.76	
16	0.6705	1107.4	1127.0	1126.7	0.409	3.532	77.999	16.383	1.532	0.047	0.088	0.006	0.006	0.000	0.000	0.000	0.000	0.000	1376.32	
17	0.6587	1085.8	1105.0	1104.7	0.366	3.796	80.086	14.305	1.323	0.041	0.074	0.005	0.005	0.000	0.000	0.000	0.000	0.000	1361.58	
18	0.6685	1104.9	1124.5	1124.3	0.350	3.581	78.279	16.160	1.496	0.044	0.080	0.005	0.005	0.000	0.000	0.000	0.000	0.000	1375.35	
19	0.6660	1100.7	1120.1	1119.9	0.370	3.574	78.806	15.636	1.475	0.045	0.082	0.005	0.005	0.000	0.000	0.000	0.000	0.000	1372.58	
20	0.6741	1114.5	1134.2	1134.0	0.360	3.512	77.394	16.899	1.671	0.053	0.098	0.007	0.007	0.000	0.000	0.000	0.000	0.000	1381.42	
21	0.6727	1112.6	1132.3	1132.1	0.337	3.528	77.508	16.903	1.590	0.044	0.079	0.005	0.005	0.000	0.000	0.000	0.000	0.000	1380.57	
22	0.6680	1104.3	1123.9	1123.6	0.335	3.596	78.313	16.165	1.465	0.041	0.075	0.005	0.005	0.000	0.000	0.000	0.000	0.000	1375.07	
23	0.6703	1108.1	1127.7	1127.4	0.383	3.504	77.996	16.459	1.521	0.045	0.080	0.005	0.005	0.000	0.000	0.000	0.000	0.000	1377.47	
24	0.6732	1111.8	1131.5	1131.2	0.456	3.441	77.654	16.646	1.642	0.053	0.094	0.006	0.006	0.000	0.000	0.000	0.000	0.000	1379.05	
25	0.6775	1119.1	1138.9	1138.6	0.481	3.367	76.923	17.318	1.739	0.057	0.101	0.007	0.007	0.000	0.000	0.000	0.000	0.000	1383.64	
26	0.6805	1123.7	1143.6	1143.3	0.514	3.314	76.502	17.634	1.853	0.061	0.108	0.008	0.007	0.000	0.000	0.000	0.000	0.000	1386.31	
27	0.6781	1119.2	1139.0	1138.7	0.399	3.544	76.710	17.426	1.741	0.058	0.107	0.007	0.007	0.000	0.000	0.000	0.000	0.000	1383.12	
28	0.6745	1115.0	1134.7	1134.4	0.324	3.573	77.096	17.315	1.555	0.045	0.082	0.005	0.005	0.000	0.000	0.000	0.000	0.000	1381.67	
29	0.6771	1119.0	1138.8	1138.5	0.363	3.515	76.748	17.551	1.685	0.046	0.082	0.005	0.005	0.000	0.000	0.000	0.000	0.000	1383.94	
30	0.6853	1131.7	1151.8	1151.5	0.477	3.336	75.324	18.968	1.733	0.054	0.095	0.006	0.006	0.000	0.000	0.000	0.000	0.000	1391.30	
31	0.6894	1137.0	1157.1	1156.8	0.590	3.227	74.891	19.154	1.941	0.065	0.116	0.008	0.008	0.000	0.000	0.000	0.000	0.000	1393.60	
Avg	0.6689	1106.0	1125.9	1125.6	0.541	3.247	78.495	16.042	1.528	0.048	0.087	0.006	0.006	0.000	0.000	0.000	0.000	0.000	1376.58	

# Source Daily Summary

January 2022

Source #: 271  
Name: DCKSN BRD-BLFD TSF-G.U. STN

<b>Pressure Base:</b>	14.730	<b>Contract Day:</b>	1
<b>Temperature Base:</b>	60	<b>Contract Hour:</b>	9

Day	Relative Density	Heating Value Wet	Heating Value Dry	Heating Value As Del	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.6675	1103.3	1122.8	1122.7	0.612	3.190	78.958	15.469	1.604	0.054	0.099	0.007	0.007	0.000	0.000	0.000	0.000	0.000	1374.28	
2	0.6677	1104.3	1123.9	1123.7	0.593	3.170	78.876	15.621	1.578	0.053	0.096	0.007	0.006	0.000	0.000	0.000	0.000	0.000	1375.43	
3	0.6675	1104.5	1124.1	1123.9	0.580	3.166	78.843	15.715	1.539	0.051	0.093	0.006	0.006	0.000	0.000	0.000	0.000	0.000	1375.79	
4	0.6703	1108.0	1127.6	1127.5	0.720	3.000	78.623	15.801	1.673	0.060	0.107	0.008	0.007	0.000	0.000	0.000	0.000	0.000	1377.29	
5	0.6748	1114.5	1134.2	1134.0	0.771	2.943	77.982	16.273	1.825	0.067	0.121	0.009	0.009	0.000	0.000	0.000	0.000	0.000	1380.79	
6	0.6731	1112.1	1131.8	1131.6	0.731	2.997	78.226	16.047	1.798	0.065	0.118	0.008	0.008	0.000	0.000	0.000	0.000	0.000	1379.50	
7	0.6692	1107.1	1126.7	1126.5	0.769	2.878	78.979	15.475	1.705	0.063	0.113	0.009	0.008	0.000	0.000	0.000	0.000	0.000	1377.25	
8	0.6650	1100.6	1120.1	1119.9	0.644	3.071	79.448	15.136	1.539	0.053	0.095	0.007	0.007	0.000	0.000	0.000	0.000	0.000	1373.49	
9	0.6656	1101.8	1121.3	1121.2	0.605	3.113	79.259	15.341	1.524	0.052	0.093	0.007	0.007	0.000	0.000	0.000	0.000	0.000	1374.40	
10	0.6649	1101.0	1120.5	1120.4	0.574	3.141	79.332	15.303	1.496	0.051	0.091	0.006	0.006	0.000	0.000	0.000	0.000	0.000	1374.15	
11	0.6695	1109.8	1129.5	1129.3	0.510	3.139	78.235	16.539	1.436	0.047	0.083	0.006	0.006	0.000	0.000	0.000	0.000	0.000	1380.34	
12	0.6782	1128.2	1148.1	1148.0	0.255	3.228	75.867	19.352	1.200	0.033	0.060	0.002	0.003	0.000	0.000	0.000	0.000	0.000	1394.16	
13	0.6763	1124.3	1144.3	1144.1	0.289	3.231	76.363	18.755	1.253	0.036	0.066	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1391.38	
14	0.6727	1113.6	1133.3	1133.1	0.397	3.381	77.484	17.129	1.468	0.046	0.083	0.006	0.006	0.000	0.000	0.000	0.000	0.000	1381.72	
15	0.6695	1107.3	1126.9	1126.8	0.396	3.459	78.141	16.367	1.495	0.047	0.085	0.005	0.005	0.000	0.000	0.000	0.000	0.000	1377.29	
16	0.6573	1085.4	1104.6	1104.4	0.351	3.718	80.283	14.252	1.276	0.040	0.071	0.004	0.004	0.000	0.000	0.000	0.000	0.000	1362.47	
17	0.6683	1105.7	1125.3	1125.1	0.325	3.556	78.310	16.147	1.527	0.046	0.081	0.004	0.004	0.000	0.000	0.000	0.000	0.000	1376.49	
18	0.6656	1101.9	1121.4	1121.2	0.308	3.554	78.795	15.751	1.456	0.045	0.083	0.004	0.005	0.000	0.000	0.000	0.000	0.000	1374.54	
19	0.6713	1111.6	1131.3	1131.1	0.336	3.460	77.846	16.604	1.596	0.051	0.096	0.006	0.006	0.000	0.000	0.000	0.000	0.000	1380.74	
20	0.6753	1118.7	1138.5	1138.3	0.329	3.414	77.056	17.409	1.642	0.049	0.090	0.005	0.005	0.000	0.000	0.000	0.000	0.000	1385.44	
21	0.6692	1108.7	1128.3	1128.1	0.309	3.481	78.057	16.549	1.480	0.042	0.073	0.004	0.004	0.000	0.000	0.000	0.000	0.000	1379.27	
22	0.6680	1106.2	1125.8	1125.6	0.333	3.482	78.303	16.308	1.448	0.043	0.075	0.004	0.004	0.000	0.000	0.000	0.000	0.000	1377.45	
23	0.6718	1112.1	1131.8	1131.6	0.408	3.369	77.798	16.687	1.591	0.050	0.087	0.005	0.005	0.000	0.000	0.000	0.000	0.000	1380.83	
24	0.6740	1115.1	1134.9	1134.7	0.438	3.337	77.471	16.956	1.638	0.054	0.095	0.006	0.006	0.000	0.000	0.000	0.000	0.000	1382.42	
25	0.6797	1124.1	1144.0	1143.8	0.501	3.236	76.576	17.711	1.799	0.059	0.104	0.007	0.007	0.000	0.000	0.000	0.000	0.000	1387.59	
26	0.6786	1121.4	1141.2	1141.0	0.446	3.380	76.653	17.609	1.741	0.057	0.101	0.006	0.006	0.000	0.000	0.000	0.000	0.000	1385.39	
27	0.6755	1117.7	1137.5	1137.3	0.321	3.501	77.050	17.308	1.656	0.053	0.099	0.006	0.006	0.000	0.000	0.000	0.000	0.000	1384.05	
28	0.6759	1118.7	1138.5	1138.3	0.348	3.445	76.882	17.578	1.611	0.046	0.081	0.004	0.004	0.000	0.000	0.000	0.000	0.000	1384.80	
29	0.6841	1132.0	1152.1	1151.9	0.442	3.257	75.471	18.969	1.707	0.053	0.091	0.005	0.005	0.000	0.000	0.000	0.000	0.000	1392.90	
30	0.6891	1138.2	1158.3	1158.1	0.579	3.144	74.909	19.244	1.929	0.065	0.115	0.007	0.007	0.000	0.000	0.000	0.000	0.000	1395.36	
31	0.6858	1133.4	1153.5	1153.3	0.544	3.179	75.376	18.924	1.796	0.061	0.107	0.007	0.007	0.000	0.000	0.000	0.000	0.000	1392.87	
Avg	0.6723	1113.0	1132.3	1132.1	0.476	3.278	77.789	16.720	1.582	0.051	0.092	0.006	0.006	0.000	0.000	0.000	0.000	0.000	1380.96	

# Source Daily Summary

January 2022

Source #: 051  
Name: CABIN CRK STN-BELFIELD TRSFR

<b>Pressure Base:</b>	14.730	<b>Contract Day:</b>	1
<b>Temperature Base:</b>	60	<b>Contract Hour:</b>	9

Day	Relative Density	Heating Value Wet	Heating Value Dry	Heating Value As Del	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.6747	1112.4	1132.1	1131.4	0.558	3.389	77.648	16.414	1.813	0.056	0.107	0.007	0.007	0.000	0.000	0.000	0.000	0.000	1378.27	
2	0.6748	1112.5	1132.2	1131.6	0.554	3.403	77.623	16.421	1.822	0.057	0.107	0.007	0.007	0.000	0.000	0.000	0.000	0.000	1378.28	
3	0.6749	1112.5	1132.2	1131.5	0.550	3.415	77.619	16.412	1.827	0.057	0.108	0.007	0.007	0.000	0.000	0.000	0.000	0.000	1378.17	
4	0.6746	1112.1	1131.8	1131.3	0.603	3.333	77.781	16.242	1.855	0.060	0.112	0.007	0.007	0.000	0.000	0.000	0.000	0.000	1377.95	
5	0.6753	1113.3	1133.0	1132.5	0.592	3.343	77.624	16.394	1.860	0.059	0.112	0.007	0.007	0.000	0.000	0.000	0.000	0.000	1378.73	
6	0.6738	1110.7	1130.4	1129.8	0.572	3.389	77.864	16.166	1.826	0.058	0.110	0.007	0.007	0.000	0.000	0.000	0.000	0.000	1377.05	
7	0.6594	1088.4	1107.6	1106.9	0.683	3.223	80.737	13.590	1.585	0.057	0.107	0.009	0.009	0.000	0.000	0.000	0.000	0.000	1363.97	
8	0.6739	1111.1	1130.8	1130.2	0.548	3.408	77.787	16.279	1.804	0.056	0.105	0.007	0.007	0.000	0.000	0.000	0.000	0.000	1377.50	
9	0.6746	1112.1	1131.8	1131.1	0.537	3.432	77.641	16.404	1.812	0.056	0.105	0.007	0.007	0.000	0.000	0.000	0.000	0.000	1377.98	
10	0.6747	1112.2	1131.9	1131.1	0.531	3.443	77.622	16.413	1.817	0.056	0.105	0.007	0.006	0.000	0.000	0.000	0.000	0.000	1378.00	
11	0.6751	1112.7	1132.5	1131.7	0.516	3.476	77.511	16.498	1.826	0.056	0.105	0.007	0.006	0.000	0.000	0.000	0.000	0.000	1378.23	
12	0.6752	1112.8	1132.5	1131.7	0.511	3.485	77.490	16.512	1.828	0.056	0.105	0.007	0.006	0.000	0.000	0.000	0.000	0.000	1378.24	
13	0.6748	1112.1	1131.8	1131.1	0.508	3.496	77.560	16.440	1.824	0.055	0.105	0.007	0.006	0.000	0.000	0.000	0.000	0.000	1377.80	
14	0.6746	1111.7	1131.4	1130.8	0.506	3.502	77.603	16.400	1.817	0.055	0.104	0.007	0.006	0.000	0.000	0.000	0.000	0.000	1377.50	
15	0.6739	1110.5	1130.1	1129.4	0.503	3.515	77.721	16.285	1.805	0.055	0.103	0.007	0.006	0.000	0.000	0.000	0.000	0.000	1376.71	
16	0.6738	1110.5	1130.1	1129.5	0.493	3.524	77.723	16.285	1.804	0.055	0.103	0.007	0.006	0.000	0.000	0.000	0.000	0.000	1376.75	
17	0.6740	1110.8	1130.5	1129.8	0.491	3.518	77.699	16.312	1.809	0.055	0.103	0.007	0.006	0.000	0.000	0.000	0.000	0.000	1377.08	
18	0.6688	1102.4	1121.9	1121.4	0.455	3.599	78.625	15.428	1.727	0.053	0.100	0.007	0.006	0.000	0.000	0.000	0.000	0.000	1371.88	
19	0.6744	1111.3	1131.0	1130.3	0.493	3.526	77.622	16.378	1.810	0.055	0.103	0.007	0.006	0.000	0.000	0.000	0.000	0.000	1377.21	
20	0.6744	1111.5	1131.1	1130.5	0.491	3.522	77.617	16.383	1.816	0.055	0.103	0.007	0.006	0.000	0.000	0.000	0.000	0.000	1377.39	
21	0.6739	1110.7	1130.3	1129.7	0.486	3.531	77.698	16.311	1.805	0.054	0.102	0.007	0.006	0.000	0.000	0.000	0.000	0.000	1376.93	
22	0.6734	1109.9	1129.6	1128.9	0.484	3.536	77.784	16.229	1.797	0.054	0.102	0.007	0.006	0.000	0.000	0.000	0.000	0.000	1376.45	
23	0.6740	1111.1	1130.8	1130.1	0.486	3.515	77.680	16.341	1.808	0.055	0.102	0.007	0.006	0.000	0.000	0.000	0.000	0.000	1377.34	
24	0.6742	1111.2	1130.9	1130.2	0.488	3.521	77.655	16.354	1.811	0.055	0.103	0.007	0.006	0.000	0.000	0.000	0.000	0.000	1377.31	
25	0.6745	1111.7	1131.3	1130.7	0.490	3.521	77.602	16.393	1.822	0.055	0.103	0.007	0.006	0.000	0.000	0.000	0.000	0.000	1377.54	
26	0.6742	1111.1	1130.7	1130.0	0.483	3.535	77.652	16.347	1.812	0.055	0.103	0.007	0.006	0.000	0.000	0.000	0.000	0.000	1377.14	
27	0.6738	1110.6	1130.3	1129.6	0.477	3.543	77.696	16.313	1.802	0.054	0.102	0.007	0.006	0.000	0.000	0.000	0.000	0.000	1376.93	
28	0.6730	1109.1	1128.7	1128.0	0.475	3.555	77.860	16.149	1.792	0.054	0.101	0.007	0.006	0.000	0.000	0.000	0.000	0.000	1375.93	
29	0.6733	1109.7	1129.4	1128.6	0.479	3.546	77.801	16.204	1.800	0.055	0.102	0.007	0.006	0.000	0.000	0.000	0.000	0.000	1376.33	
30	0.6574	1078.4	1097.5	1096.8	0.420	4.040	80.807	12.944	1.588	0.060	0.119	0.010	0.012	0.000	0.000	0.000	0.000	0.000	1353.55	
31	0.6480	1060.7	1079.4	1078.8	0.381	4.301	82.545	11.113	1.450	0.061	0.124	0.012	0.015	0.000	0.000	0.000	0.000	0.000	1340.94	
Avg	0.6722	1108.0	1127.3	1126.6	0.511	3.519	78.061	15.947	1.786	0.056	0.106	0.007	0.007	0.000	0.000	0.000	0.000	0.000	1374.87	

# Source Daily Summary

January 2022

Source #: 111  
Name: LITTLE KNIFE PLANT

<b>Pressure Base:</b>	14.730	<b>Contract Day:</b>	1
<b>Temperature Base:</b>	60	<b>Contract Hour:</b>	9

Day	Relative Density	Heating Value Wet	Heating Value Dry	Heating Value As Del	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.6872	1151.0	1171.4	1169.3	0.000	3.075	72.919	23.513	0.476	0.007	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1413.08	-26.85
2	0.6871	1151.1	1171.5	1169.3	0.000	3.059	73.028	23.340	0.555	0.007	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1413.31	-26.57
3	0.6865	1150.3	1170.7	1168.9	0.000	3.052	73.106	23.311	0.513	0.007	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1412.94	-27.02
4	0.6862	1151.0	1171.4	1170.2	0.000	2.989	73.079	23.485	0.432	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1414.02	-27.31
5	0.6859	1149.7	1170.1	1168.5	0.000	3.032	73.182	23.303	0.467	0.007	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1412.83	-27.46
6	0.6865	1150.5	1170.8	1169.3	0.000	3.044	73.047	23.446	0.446	0.007	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1413.13	-27.28
7	0.6857	1149.8	1170.2	1168.5	0.000	3.011	73.231	23.264	0.478	0.007	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1413.13	-27.45
8	0.6858	1149.6	1169.9	1168.6	0.000	3.032	73.155	23.377	0.420	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1412.76	-27.69
9	0.6862	1150.5	1170.9	1168.9	0.000	3.013	73.145	23.340	0.485	0.007	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1413.48	-27.20
10	0.6878	1152.1	1172.5	1170.6	0.000	3.067	72.886	23.460	0.569	0.007	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1413.81	-26.15
11	0.6870	1151.1	1171.5	1169.7	0.000	3.051	73.058	23.299	0.573	0.008	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1413.41	-26.52
12	0.6829	1147.5	1167.8	1165.7	0.000	2.880	73.866	22.727	0.512	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1413.25	-28.56
13	0.6829	1148.4	1168.7	1166.8	0.000	2.830	73.789	22.933	0.435	0.005	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1414.28	-28.74
14	0.6868	1151.7	1172.1	1170.5	0.010	2.982	73.071	23.402	0.516	0.007	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1414.32	-26.68
15	0.6869	1151.2	1171.6	1169.8	0.000	3.036	73.034	23.390	0.523	0.007	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1413.62	-26.73
16	0.6870	1151.6	1172.0	1170.2	0.000	3.021	73.009	23.439	0.514	0.007	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1413.99	-26.69
17	0.6869	1151.1	1171.5	1169.5	0.000	3.044	73.045	23.355	0.538	0.007	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1413.45	-26.69
18	0.6850	1151.6	1172.0	1170.6	0.000	2.831	73.455	23.170	0.530	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1416.10	-27.27
19	0.6860	1153.8	1174.3	1172.2	0.000	2.792	73.341	23.246	0.599	0.008	0.013	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1417.77	-26.27
20	0.6860	1154.2	1174.7	1172.5	0.000	2.769	73.335	23.281	0.593	0.008	0.014	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1418.22	-26.23
21	0.6862	1155.0	1175.5	1173.7	0.000	2.739	73.309	23.329	0.599	0.008	0.015	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1419.00	-26.02
22	0.6860	1154.6	1175.1	1173.2	0.000	2.744	73.331	23.320	0.582	0.008	0.014	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1418.72	-26.20
23	0.6865	1155.4	1175.8	1174.1	0.000	2.744	73.248	23.389	0.596	0.008	0.014	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1419.16	-25.90
24	0.6865	1155.0	1175.4	1173.6	0.000	2.767	73.261	23.336	0.612	0.008	0.014	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1418.66	-25.91
25	0.6867	1156.1	1176.5	1174.6	0.000	2.724	73.233	23.396	0.619	0.009	0.017	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1419.74	-25.60
26	0.6868	1154.5	1175.0	1173.5	0.000	2.825	73.162	23.394	0.601	0.007	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1417.78	-26.01
27	0.6868	1154.9	1175.4	1173.8	0.000	2.801	73.196	23.369	0.608	0.009	0.016	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1418.26	-25.79
28	0.6864	1155.1	1175.5	1173.9	0.000	2.755	73.270	23.348	0.602	0.009	0.015	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1418.86	-25.91
29	0.6871	1155.6	1176.1	1174.4	0.000	2.787	73.129	23.446	0.613	0.009	0.015	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1418.82	-25.60
30	0.6868	1154.9	1175.4	1173.6	0.000	2.795	73.192	23.386	0.603	0.008	0.015	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1418.34	-25.84
31	0.6876	1156.1	1176.6	1175.2	0.000	2.801	73.015	23.568	0.595	0.008	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1418.92	-25.54
Avg	0.6863	1152.0	1172.8	1171.1	0.000	2.906	73.198	23.334	0.542	0.007	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1415.72	-26.64

# Source Daily Summary

January 2022

Source #: 351  
Name: BADLANDS PLANT

<b>Pressure Base:</b>	14.730	<b>Contract Day:</b>	1
<b>Temperature Base:</b>	60	<b>Contract Hour:</b>	9

Day	Relative Density	Heating Value Wet	Heating Value Dry	Heating Value As Del	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.6560	1081.4	1100.6	1100.3	0.465	3.666	81.004	13.187	1.519	0.051	0.094	0.007	0.006	0.000	0.000	0.000	0.000	0.000	0.000	1358.79
2	0.6567	1082.5	1101.7	1101.4	0.461	3.667	80.886	13.294	1.533	0.051	0.095	0.007	0.006	0.000	0.000	0.000	0.000	0.000	0.000	1359.48
3	0.6577	1084.1	1103.3	1103.0	0.458	3.670	80.702	13.454	1.555	0.052	0.096	0.007	0.006	0.000	0.000	0.000	0.000	0.000	0.000	1360.42
4	0.6593	1086.7	1105.9	1105.8	0.454	3.670	80.387	13.745	1.582	0.052	0.097	0.007	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1362.02
5	0.6565	1082.0	1101.1	1101.0	0.456	3.687	80.909	13.265	1.526	0.051	0.094	0.007	0.006	0.000	0.000	0.000	0.000	0.000	0.000	1359.05
6	0.6549	1079.5	1098.6	1098.4	0.456	3.693	81.187	13.013	1.495	0.050	0.092	0.007	0.006	0.000	0.000	0.000	0.000	0.000	0.000	1357.51
7	0.6550	1079.6	1098.8	1098.5	0.456	3.688	81.189	13.011	1.499	0.051	0.093	0.007	0.006	0.000	0.000	0.000	0.000	0.000	0.000	1357.66
8	0.6543	1078.5	1097.6	1097.4	0.452	3.698	81.304	12.903	1.487	0.050	0.092	0.007	0.006	0.000	0.000	0.000	0.000	0.000	0.000	1356.96
9	0.6545	1078.8	1097.9	1097.6	0.453	3.698	81.277	12.924	1.492	0.050	0.093	0.007	0.006	0.000	0.000	0.000	0.000	0.000	0.000	1357.10
10	0.6545	1078.7	1097.8	1097.5	0.450	3.709	81.262	12.935	1.490	0.050	0.092	0.007	0.006	0.000	0.000	0.000	0.000	0.000	0.000	1357.00
11	0.6520	1074.7	1093.7	1093.4	0.444	3.733	81.701	12.529	1.442	0.049	0.089	0.006	0.006	0.000	0.000	0.000	0.000	0.000	0.000	1354.47
12	0.6514	1074.0	1093.0	1092.7	0.441	3.721	81.804	12.456	1.429	0.049	0.087	0.006	0.006	0.000	0.000	0.000	0.000	0.000	0.000	1354.25
13	0.6522	1075.4	1094.4	1094.1	0.442	3.714	81.661	12.589	1.441	0.049	0.090	0.007	0.006	0.000	0.000	0.000	0.000	0.000	0.000	1355.11
14	0.6509	1073.1	1092.1	1091.8	0.440	3.727	81.906	12.364	1.413	0.049	0.089	0.007	0.006	0.000	0.000	0.000	0.000	0.000	0.000	1353.67
15	0.6508	1073.0	1092.0	1091.6	0.438	3.727	81.924	12.349	1.412	0.049	0.088	0.006	0.006	0.000	0.000	0.000	0.000	0.000	0.000	1353.61
16	0.6527	1076.1	1095.2	1094.9	0.439	3.719	81.567	12.670	1.453	0.049	0.089	0.007	0.006	0.000	0.000	0.000	0.000	0.000	0.000	1355.54
17	0.6538	1077.8	1096.8	1096.5	0.439	3.718	81.381	12.832	1.476	0.050	0.091	0.007	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1356.51
18	0.6535	1077.0	1096.1	1095.9	0.437	3.735	81.430	12.779	1.466	0.049	0.090	0.007	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1355.92
19	0.6516	1073.8	1092.8	1092.6	0.439	3.753	81.781	12.443	1.431	0.049	0.090	0.007	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1353.80
20	0.6511	1072.6	1091.6	1091.3	0.438	3.779	81.881	12.318	1.429	0.049	0.091	0.007	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1352.81
21	0.6541	1077.0	1096.1	1095.8	0.437	3.790	81.346	12.773	1.491	0.051	0.097	0.007	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1355.33
22	0.6537	1076.8	1095.9	1095.6	0.434	3.774	81.396	12.762	1.477	0.050	0.094	0.007	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1355.44
23	0.6529	1076.2	1095.3	1095.0	0.431	3.743	81.529	12.685	1.458	0.050	0.090	0.007	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1355.45
24	0.6531	1075.5	1094.6	1094.4	0.432	3.798	81.509	12.634	1.469	0.050	0.093	0.007	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1354.45
25	0.6531	1076.5	1095.6	1095.3	0.433	3.742	81.489	12.724	1.458	0.049	0.091	0.007	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1355.61
26	0.6532	1076.0	1095.0	1094.7	0.430	3.788	81.472	12.691	1.461	0.050	0.093	0.007	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1354.85
27	0.6527	1075.2	1094.2	1093.9	0.429	3.793	81.557	12.612	1.453	0.049	0.092	0.007	0.008	0.000	0.000	0.000	0.000	0.000	0.000	1354.33
28	0.6546	1079.1	1098.2	1097.9	0.432	3.719	81.227	12.985	1.482	0.050	0.091	0.007	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1357.40
29	0.6599	1088.1	1107.4	1107.1	0.404	3.710	80.175	14.005	1.555	0.049	0.089	0.006	0.006	0.000	0.000	0.000	0.000	0.000	0.000	1363.25
30	0.6590	1085.2	1104.4	1104.1	0.433	3.766	80.425	13.635	1.576	0.052	0.099	0.007	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1360.43
31	0.6575	1082.8	1102.0	1101.7	0.431	3.770	80.688	13.414	1.537	0.051	0.095	0.007	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1359.04
Avg	0.6543	1078.0	1097.4	1097.1	0.441	3.728	81.289	12.903	1.483	0.050	0.092	0.007	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1356.69

# Gas Composition and Properties

Effective January 1, 2022

Attachment B  
Page 19 of 24

Source #: 2702230  
Name: WATFORD CITY EAST BORDER

Component	Mole %	Liquid Content	Mass %	Property	Total Sample	C6 Plus Fraction
Carbon Dioxide, CO2	1.2168		2.8266	Pressure Base	14.730	
Nitrogen, N2	2.8700		4.2438	Temperature Base	60.00	
Methane, C1	81.1330		68.7030	HCDP @ Sample Pressure		
Ethane, C2	13.8204	3.6964	21.9354	Cricondentherm	-44.899	
Propane, C3	0.8858	0.2441	2.0618	HV, Dry @ Base P, T	1094.15	4755.9000
iso-Butane, iC4	0.0248	0.0081	0.0761	HV, Sat @ Base P, T	1075.11	
n-Butane, nC4	0.0460	0.0145	0.1411	HV, Sat @ Sample P, T	1094.15	
iso-Pentane, iC5	0.0018	0.0007	0.0069	Relative Density	0.6556	0.66406
n-Pentane, nC5	0.0014	0.0005	0.0053			
Neo-Pentane, neo						
Hexanes Plus, C6+						
Argon, Ar						
Carbon Monoxide, CO						
Hydrogen, H2						
Oxygen, O2						
Helium, He						
Water, H2O						
Hydrogen Sulfide, H2S						
				C6+: 100		
<b>Totals</b>	<b>100.0000</b>	<b>3.9650</b>	<b>100.0000</b>			

**Sample**

Date: 01/01/2022                      Type:

Tech: Wayne Sampson

Pressure:                                      Temp.:

Gauge:    H2O:

Atm. Pressure:                                      H2S:

Remarks:

**Analysis**

Date:    Instrument:

Tech:    Cylinder:

Remarks:

January-22

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	
1/1/2022	1/2/2022	1,816	1,983	1092.00	7,792	8,738	1121.5	1115.924	1/1/2022
1/2/2022	1/3/2022	1,839	2,005	1090.40	5,255	5,878	1118.9	1111.512	1/2/2022
1/3/2022	1/4/2022	1,861	2,027	1089.00	4,912	5,514	1122.4	1113.223	1/3/2022
1/4/2022	1/5/2022	1,884	2,051	1088.20	7,631	8,561	1122	1115.307	1/4/2022
1/5/2022	1/6/2022	1,834	1,994	1087.30	8,535	9,578	1122.5	1116.274	1/5/2022
1/6/2022	1/7/2022	2,712	2,944	1086.20	8,760	9,808	1119.7	1111.781	1/6/2022
1/7/2022	1/8/2022	2,911	3,152	1083.40	6,240	6,950	1113.9	1104.198	1/7/2022
1/8/2022	1/9/2022	1,874	2,038	1087.50	6,955	7,762	1116.4	1110.266	1/8/2022
1/9/2022	1/10/2022	1,848	2,011	1088.10	6,713	7,489	1115.5	1109.585	1/9/2022
1/10/2022	1/11/2022	1,859	2,025	1089.20	5,404	6,027	1115.1	1108.471	1/10/2022
1/11/2022	1/12/2022	1,787	1,950	1091.10	2,844	3,166	1113.4	1104.795	1/11/2022
1/12/2022	1/13/2022	1,869	2,044	1093.60	2,837	3,146	1108.5	1102.582	1/12/2022
1/13/2022	1/14/2022	1,886	2,065	1094.60	3,731	4,179	1118.8	1110.674	1/13/2022
1/14/2022	1/15/2022	1,840	2,009	1092.00	4,500	5,066	1125.9	1116.062	1/14/2022
1/15/2022	1/16/2022	1,836	2,006	1092.60	3,096	3,460	1118.4	1108.796	1/15/2022
1/16/2022	1/17/2022	1,840	2,010	1092.30	3,018	3,401	1127	1113.857	1/16/2022
1/17/2022	1/18/2022	1,847	2,020	1093.80	2,630	2,908	1105	1100.379	1/17/2022
1/18/2022	1/19/2022	1,904	2,075	1089.90	7,217	8,116	1124.5	1117.277	1/18/2022
1/19/2022	1/20/2022	1,808	1,973	1091.60	8,082	9,058	1120.1	1114.890	1/19/2022
1/20/2022	1/21/2022	1,810	1,976	1091.60	5,886	6,676	1134.2	1124.181	1/20/2022
1/21/2022	1/22/2022	1,874	2,045	1091.30	4,394	4,971	1132.3	1120.042	1/21/2022
1/22/2022	1/23/2022	1,853	2,019	1089.70	5,073	5,701	1123.9	1114.750	1/22/2022
1/23/2022	1/24/2022	1,862	2,031	1091.10	3,779	4,263	1127.7	1115.619	1/23/2022
1/24/2022	1/25/2022	1,851	2,020	1091.70	6,512	7,369	1131.5	1122.691	1/24/2022
1/25/2022	1/26/2022	1,825	1,989	1089.90	6,102	6,948	1138.9	1127.619	1/25/2022
1/26/2022	1/27/2022	1,856	2,027	1092.30	3,399	3,887	1143.6	1125.481	1/26/2022
1/27/2022	1/28/2022	1,838	2,005	1090.80	4,499	5,124	1139	1125.020	1/27/2022
1/28/2022	1/29/2022	1,861	2,030	1091.00	3,451	3,916	1134.7	1119.390	1/28/2022
1/29/2022	1/30/2022	1,850	2,017	1090.40	3,324	3,790	1138.8	1121.494	1/29/2022
1/30/2022	1/31/2022	1,842	2,010	1090.80	2,847	3,282	1151.8	1127.837	1/30/2022
1/31/2022	2/1/2022	1,910	2,084	1091.00	4,380	5,066	1157.1	1137.028	1/31/2022
		59,287	64,635	1090.4645	159,798	179,798	1125.9032	1115.7099	



# Alliance Pipeline

DAILY ANALYSIS --- USA  
 ND07MD1 --- Hankinson Sales  
 January 2022

DAY	Heating Value (BTU/ft3)	Relative Density	C1 Mol%	C2 Mol%	C3 Mol%	IC4 Mol%	NC4 Mol%	IC5 Mol%	NC5 Mol%	C6+ Mol%	N2 Mol%	CO2 Mol%	Hel Mol%
1	1,148.264	0.6545	85.0788	9.5247	3.2253	0.3391	0.5298	0.0556	0.0441	0.0207	0.8534	0.3199	0.0086
2	1,149.290	0.6550	85.0318	9.4961	3.3266	0.3337	0.5197	0.0552	0.0434	0.0207	0.8435	0.3207	0.0087
3	1,153.494	0.6579	84.6706	9.6082	3.5696	0.3323	0.5195	0.0542	0.0410	0.0183	0.8549	0.3224	0.0090
4	1,153.372	0.6577	84.6820	9.6539	3.5125	0.3332	0.5193	0.0552	0.0433	0.0234	0.8476	0.3205	0.0092
5	1,152.057	0.6571	84.7381	9.6013	3.5024	0.3283	0.5149	0.0526	0.0402	0.0202	0.8780	0.3147	0.0093
6	1,152.435	0.6576	84.6828	9.5734	3.5484	0.3320	0.5184	0.0529	0.0407	0.0202	0.9018	0.3199	0.0095
7	1,152.860	0.6570	84.8301	9.5086	3.5500	0.3346	0.5138	0.0542	0.0416	0.0206	0.8255	0.3116	0.0093
8	1,152.160	0.6566	84.8806	9.5004	3.5062	0.3345	0.5113	0.0543	0.0426	0.0224	0.8210	0.3178	0.0088
9	1,151.704	0.6564	84.8599	9.6282	3.3403	0.3458	0.5385	0.0590	0.0466	0.0239	0.8263	0.3228	0.0088
10	1,149.751	0.6549	85.0581	9.5282	3.2895	0.3365	0.5229	0.0594	0.0470	0.0217	0.8088	0.3194	0.0085
11	1,148.436	0.6537	85.1805	9.5262	3.2199	0.3286	0.5164	0.0561	0.0450	0.0203	0.7840	0.3134	0.0096
12	1,150.397	0.6551	84.9488	9.6753	3.2657	0.3315	0.5302	0.0562	0.0444	0.0195	0.8156	0.3034	0.0095
13	1,148.278	0.6539	85.0944	9.6028	3.2086	0.3249	0.5144	0.0547	0.0427	0.0198	0.8141	0.3140	0.0097
14	1,146.743	0.6535	85.2260	9.4435	3.1846	0.3306	0.5232	0.0550	0.0437	0.0209	0.8221	0.3406	0.0098
15	1,147.694	0.6541	85.1380	9.5278	3.1833	0.3299	0.5312	0.0564	0.0443	0.0219	0.8143	0.3434	0.0095
16	1,149.131	0.6550	85.0779	9.4903	3.2394	0.3434	0.5496	0.0602	0.0475	0.0210	0.8212	0.3399	0.0096
17	1,149.156	0.6548	85.0476	9.5835	3.2092	0.3402	0.5399	0.0583	0.0467	0.0205	0.8105	0.3338	0.0099
18	1,150.791	0.6559	84.8851	9.6965	3.2207	0.3496	0.5560	0.0597	0.0475	0.0213	0.8200	0.3339	0.0095
19	1,144.312	0.6509	85.4887	9.4835	3.0019	0.3195	0.4999	0.0540	0.0423	0.0220	0.7523	0.3261	0.0098
20	1,146.423	0.6529	85.1814	9.6408	3.0903	0.3164	0.5120	0.0541	0.0411	0.0205	0.8039	0.3298	0.0098
21	1,146.965	0.6538	85.0160	9.7619	3.0938	0.3163	0.5054	0.0564	0.0438	0.0203	0.8267	0.3496	0.0098
22	1,147.869	0.6541	84.9750	9.7836	3.1159	0.3201	0.5153	0.0563	0.0435	0.0190	0.8255	0.3357	0.0101
23	1,146.096	0.6531	85.1281	9.7017	3.0701	0.3153	0.5000	0.0550	0.0415	0.0209	0.8074	0.3501	0.0099
24	1,147.741	0.6538	85.0599	9.7109	3.1273	0.3209	0.5150	0.0557	0.0425	0.0203	0.8103	0.3275	0.0097
25	1,145.881	0.6524	85.1859	9.7140	3.0571	0.3100	0.4890	0.0525	0.0400	0.0211	0.7899	0.3308	0.0098
26	1,146.408	0.6530	85.1554	9.6717	3.0910	0.3132	0.5022	0.0547	0.0405	0.0227	0.8033	0.3356	0.0097
27	1,148.345	0.6541	85.0563	9.6929	3.1311	0.3257	0.5273	0.0575	0.0430	0.0247	0.7991	0.3327	0.0097
28	1,148.776	0.6547	84.9413	9.7672	3.1486	0.3255	0.5300	0.0554	0.0418	0.0221	0.8245	0.3338	0.0097
29	1,148.313	0.6545	84.9741	9.7292	3.1383	0.3245	0.5246	0.0582	0.0445	0.0249	0.8411	0.3310	0.0097
30	1,149.070	0.6551	84.9159	9.7674	3.1366	0.3278	0.5339	0.0609	0.0466	0.0271	0.8331	0.3413	0.0096
31	1,146.142	0.6536	85.0849	9.6662	3.0814	0.3203	0.5125	0.0572	0.0435	0.0226	0.8363	0.3655	0.0096
<b>Volume</b>	<b>1,148.903</b>	<b>0.6547</b>	<b>85.0086</b>	<b>9.6263</b>	<b>3.2322</b>	<b>0.3282</b>	<b>0.5206</b>	<b>0.0560</b>	<b>0.0434</b>	<b>0.0215</b>	<b>0.8238</b>	<b>0.3298</b>	<b>0.0095</b>
<b>Weight Avg Energy</b>	<b>1,148.908</b>	<b>0.6547</b>	<b>85.0083</b>	<b>9.6263</b>	<b>3.2325</b>	<b>0.3282</b>	<b>0.5206</b>	<b>0.0560</b>	<b>0.0434</b>	<b>0.0215</b>	<b>0.8239</b>	<b>0.3298</b>	<b>0.0095</b>



# Alliance Pipeline

DAILY ANALYSIS --- USA  
 ND14MD1 --- Milnor Sales  
 January 2022

DAY	Heating Value (BTU/ft3)	Relative Density	C1 Mol%	C2 Mol%	C3 Mol%	IC4 Mol%	NC4 Mol%	IC5 Mol%	NC5 Mol%	C6+ Mol%	N2 Mol%	CO2 Mol%	Hel Mol%
1	1,148.162	0.6545	85.0901	9.5051	3.2272	0.3396	0.5316	0.0559	0.0442	0.0207	0.8569	0.3202	0.0086
2	1,149.841	0.6554	84.9882	9.5097	3.3677	0.3314	0.5147	0.0547	0.0430	0.0203	0.8399	0.3215	0.0088
3	1,153.512	0.6579	84.6603	9.6325	3.5594	0.3316	0.5187	0.0541	0.0409	0.0184	0.8536	0.3214	0.0090
4	1,153.080	0.6575	84.7175	9.6398	3.5025	0.3325	0.5164	0.0548	0.0429	0.0234	0.8423	0.3187	0.0092
5	1,152.406	0.6575	84.6762	9.6234	3.5206	0.3290	0.5182	0.0525	0.0401	0.0201	0.8931	0.3173	0.0093
6	1,151.565	0.6567	84.8341	9.5103	3.5110	0.3302	0.5104	0.0527	0.0407	0.0203	0.8646	0.3164	0.0095
7	1,153.516	0.6578	84.7200	9.5438	3.5816	0.3367	0.5223	0.0544	0.0415	0.0205	0.8554	0.3147	0.0093
8	1,152.003	0.6565	84.9035	9.5091	3.4743	0.3364	0.5137	0.0553	0.0436	0.0234	0.8139	0.3182	0.0087
9	1,151.956	0.6568	84.8238	9.6321	3.3572	0.3464	0.5408	0.0596	0.0470	0.0235	0.8367	0.3241	0.0088
10	1,149.205	0.6545	85.1035	9.5242	3.2682	0.3333	0.5168	0.0584	0.0462	0.0213	0.8026	0.3168	0.0087
11	1,149.875	0.6547	85.0313	9.6332	3.2533	0.3293	0.5211	0.0560	0.0445	0.0211	0.7901	0.3103	0.0096
12	1,149.824	0.6548	84.9896	9.6682	3.2445	0.3287	0.5241	0.0558	0.0440	0.0196	0.8126	0.3034	0.0095
13	1,148.322	0.6541	85.0887	9.6017	3.2124	0.3257	0.5145	0.0545	0.0428	0.0198	0.8132	0.3171	0.0097
14	1,146.982	0.6537	85.2116	9.4469	3.1896	0.3320	0.5264	0.0555	0.0439	0.0212	0.8238	0.3392	0.0098
15	1,147.641	0.6541	85.1395	9.5264	3.1819	0.3300	0.5312	0.0562	0.0442	0.0218	0.8150	0.3441	0.0095
16	1,149.765	0.6554	85.0507	9.4904	3.2575	0.3477	0.5564	0.0613	0.0486	0.0209	0.8194	0.3374	0.0097
17	1,149.145	0.6548	85.0299	9.6145	3.2014	0.3386	0.5372	0.0576	0.0462	0.0204	0.8116	0.3325	0.0099
18	1,150.656	0.6559	84.8958	9.6880	3.2165	0.3497	0.5568	0.0597	0.0473	0.0213	0.8207	0.3347	0.0095
19	1,143.867	0.6506	85.5452	9.4661	2.9852	0.3169	0.4942	0.0536	0.0421	0.0223	0.7395	0.3251	0.0099
20	1,146.707	0.6533	85.1430	9.6532	3.1008	0.3176	0.5155	0.0547	0.0415	0.0204	0.8126	0.3310	0.0098
21	1,146.784	0.6538	85.0183	9.7691	3.0863	0.3153	0.5034	0.0559	0.0434	0.0201	0.8298	0.3485	0.0099
22	1,147.547	0.6540	85.0000	9.7766	3.1057	0.3185	0.5116	0.0560	0.0432	0.0191	0.8221	0.3371	0.0101
23	1,146.490	0.6533	85.1179	9.6868	3.0885	0.3179	0.5048	0.0556	0.0420	0.0211	0.8092	0.3463	0.0099
24	1,147.256	0.6535	85.0978	9.7034	3.1097	0.3188	0.5101	0.0550	0.0420	0.0202	0.8049	0.3285	0.0097
25	1,146.042	0.6526	85.1667	9.7236	3.0626	0.3099	0.4901	0.0526	0.0400	0.0212	0.7922	0.3313	0.0098
26	1,146.611	0.6531	85.1494	9.6756	3.0958	0.3138	0.5032	0.0549	0.0406	0.0229	0.7993	0.3348	0.0097
27	1,148.358	0.6542	85.0520	9.6993	3.1294	0.3258	0.5273	0.0573	0.0429	0.0245	0.7994	0.3323	0.0098
28	1,148.764	0.6548	84.9401	9.7624	3.1515	0.3257	0.5300	0.0555	0.0419	0.0221	0.8269	0.3341	0.0097
29	1,148.487	0.6547	84.9552	9.7412	3.1398	0.3249	0.5268	0.0584	0.0447	0.0251	0.8423	0.3319	0.0096
30	1,149.060	0.6552	84.9022	9.7751	3.1452	0.3274	0.5316	0.0600	0.0456	0.0258	0.8332	0.3444	0.0096
31	1,145.868	0.6535	85.1132	9.6532	3.0705	0.3195	0.5121	0.0570	0.0434	0.0227	0.8355	0.3634	0.0096
<b>Volume</b>	<b>1,149.043</b>	<b>0.6548</b>	<b>85.0045</b>	<b>9.6237</b>	<b>3.2437</b>	<b>0.3281</b>	<b>0.5194</b>	<b>0.0558</b>	<b>0.0432</b>	<b>0.0214</b>	<b>0.8225</b>	<b>0.3283</b>	<b>0.0095</b>
<b>Weight Avg Energy</b>	<b>1,149.049</b>	<b>0.6548</b>	<b>85.0041</b>	<b>9.6236</b>	<b>3.2441</b>	<b>0.3281</b>	<b>0.5194</b>	<b>0.0558</b>	<b>0.0432</b>	<b>0.0214</b>	<b>0.8225</b>	<b>0.3283</b>	<b>0.0095</b>

January-22

ZONE 610

Watford City

Start Date	End Date	Watford City West Border			Watford City East Border			Weighted AVG BTU	
		MCF	DK	BTU Zone 25	MCF	DK	BTU Zone 43		
1/1/2022	1/2/2022	654	784	1197.8	1,251	1,369	1094.2	1129.767	1/1/2022
1/2/2022	1/3/2022	466	558	1197.8	906	991	1094.2	1129.388	1/2/2022
1/3/2022	1/4/2022	478	572	1197.8	955	1,045	1094.2	1128.757	1/3/2022
1/4/2022	1/5/2022	702	841	1197.8	1,331	1,456	1094.2	1129.973	1/4/2022
1/5/2022	1/6/2022	764	916	1197.8	1,427	1,562	1094.2	1130.325	1/5/2022
1/6/2022	1/7/2022	714	855	1197.8	1,343	1,469	1094.2	1130.160	1/6/2022
1/7/2022	1/8/2022	531	636	1197.8	1,069	1,170	1094.2	1128.582	1/7/2022
1/8/2022	1/9/2022	667	799	1197.8	1,330	1,455	1094.2	1128.803	1/8/2022
1/9/2022	1/10/2022	616	738	1197.8	1,196	1,309	1094.2	1129.419	1/9/2022
1/10/2022	1/11/2022	441	529	1197.8	907	993	1094.2	1128.093	1/10/2022
1/11/2022	1/12/2022	326	390	1197.8	708	775	1094.2	1126.863	1/11/2022
1/12/2022	1/13/2022	321	384	1197.8	703	770	1094.2	1126.676	1/12/2022
1/13/2022	1/14/2022	376	450	1197.8	744	815	1094.2	1128.980	1/13/2022
1/14/2022	1/15/2022	427	511	1197.8	834	912	1094.2	1129.281	1/14/2022
1/15/2022	1/16/2022	315	377	1197.8	637	697	1094.2	1128.479	1/15/2022
1/16/2022	1/17/2022	321	384	1197.8	632	691	1094.2	1129.096	1/16/2022
1/17/2022	1/18/2022	288	345	1197.8	619	677	1094.2	1127.096	1/17/2022
1/18/2022	1/19/2022	682	817	1197.8	1,311	1,435	1094.2	1129.652	1/18/2022
1/19/2022	1/20/2022	689	826	1197.8	1,286	1,407	1094.2	1130.342	1/19/2022
1/20/2022	1/21/2022	453	543	1197.8	876	958	1094.2	1129.513	1/20/2022
1/21/2022	1/22/2022	435	521	1197.8	839	918	1094.2	1129.574	1/21/2022
1/22/2022	1/23/2022	413	495	1197.8	837	916	1094.2	1128.429	1/22/2022
1/23/2022	1/24/2022	346	414	1197.8	716	783	1094.2	1127.953	1/23/2022
1/24/2022	1/25/2022	555	665	1197.8	1,104	1,208	1094.2	1128.858	1/24/2022
1/25/2022	1/26/2022	507	607	1197.8	1,048	1,146	1094.2	1127.978	1/25/2022
1/26/2022	1/27/2022	381	456	1197.8	824	901	1094.2	1126.957	1/26/2022
1/27/2022	1/28/2022	433	518	1197.8	856	937	1094.2	1129.001	1/27/2022
1/28/2022	1/29/2022	328	393	1197.8	750	821	1094.2	1125.722	1/28/2022
1/29/2022	1/30/2022	336	402	1197.8	672	735	1094.2	1128.733	1/29/2022
1/30/2022	1/31/2022	317	379	1197.8	653	715	1094.2	1128.057	1/30/2022
1/31/2022	2/1/2022	484	580	1197.8	940	1,029	1094.2	1129.412	1/31/2022
		14,766	17,685	1197.8000	29,304	32,065	1094.2000	1128.7071	

Tsp	EffDate	EndDate	Device	GasDay	EndDt	BTU	SpecGrav	CriconTherm	WobbelIndex	CO2	N2	Methane	Ethane	Propane	iButane	NButane	iPentane	NPentane	Neopentane	C6Plus	Hydrogen	Helium	WaterVapor	TotalSulfur	HydrogenSulfur	Oxygen
NBPL	1/1/2022 0:00	1/31/2022 0:00	GLNU1 - GLEN ULLIN	12/30/2021	1/1/2022	1084	0.6415	-51.9	1353.414895	1.0088	2.4401	83.4327	12.0134	0.8619	0.0181	0.0314	0.0008	0.0003	N/A	0	0.1689	0.0236	0.4186	0.0844	0.0529	0.0008
NBPL	1/1/2022 0:00	1/31/2022 0:00	GLNU1 - GLEN ULLIN	12/30/2021	1/2/2022	1084	0.6415	-51.9	1353.414895	1.0088	2.4401	83.4327	12.0134	0.8619	0.0181	0.0314	0.0008	0.0003	N/A	0	0.1689	0.0236	0.4186	0.0844	0.0529	0.0008
NBPL	1/1/2022 0:00	1/31/2022 0:00	GLNU1 - GLEN ULLIN	1/3/2022	1/4/2022	1088	0.6403	-51.8	1359.681362	0.944	2.175	83.7179	12.0894	0.8659	0.0181	0.0299	0.0005	0.0002	N/A	0	0.1367	0.0227	0.4044	0.1113	0.0805	0.0008
NBPL	1/1/2022 0:00	1/31/2022 0:00	GLNU1 - GLEN ULLIN	1/4/2022	1/5/2022	1088	0.6412	-51.4	1358.726769	0.9817	2.2152	83.5496	12.1683	0.8708	0.0182	0.03	0.0009	0.0006	N/A	0	0.1418	0.0228	0.404	0.0995	0.0707	0.0008
NBPL	1/1/2022 0:00	1/31/2022 0:00	GLNU1 - GLEN ULLIN	1/5/2022	1/6/2022	1087	0.6405	-52.2	1358.219549	0.9899	2.1977	83.6743	12.0852	0.8429	0.0167	0.0276	0.0002	0.0001	N/A	0	0.143	0.0228	0.4044	0.1028	0.0794	0.0008
NBPL	1/1/2022 0:00	1/31/2022 0:00	GLNU1 - GLEN ULLIN	1/6/2022	1/7/2022	1086	0.6376	-52.7	1360.052494	0.9623	2.0445	84.2897	11.9514	0.8929	0.0204	0.0356	0.001	0.0009	N/A	0	0.1695	0.0217	0.3734	0.1007	0.0694	0.0008
NBPL	1/1/2022 0:00	1/31/2022 0:00	GLNU1 - GLEN ULLIN	1/7/2022	1/8/2022	1083	0.636	-54.2	1358.000403	0.9877	1.9901	84.5382	11.4129	0.816	0.019	0.0328	0.0011	0.0008	N/A	0	0.18	0.0215	0.4076	0.1003	0.0675	0.0008
NBPL	1/1/2022 0:00	1/31/2022 0:00	GLNU1 - GLEN ULLIN	1/8/2022	1/9/2022	1087	0.64	-51.8	1358.75	1.0025	2.1005	83.8403	11.9784	0.8528	0.0202	0.0347	0.0012	0.0006	N/A	0	0.1471	0.0221	0.4048	0.0959	0.0668	0.0008
NBPL	1/1/2022 0:00	1/31/2022 0:00	GLNU1 - GLEN ULLIN	1/9/2022	1/10/2022	1088	0.6401	-51.8	1359.893762	1.0049	2.0987	83.8012	12.015	0.8501	0.02	0.0336	0.0013	0.0003	N/A	0	0.1535	0.0218	0.3965	0.0928	0.0606	0.0008
NBPL	1/1/2022 0:00	1/31/2022 0:00	GLNU1 - GLEN ULLIN	1/10/2022	1/11/2022	1089	0.6404	-51.2	1360.824809	0.9777	2.1046	83.7612	12.0395	0.8877	0.0208	0.0351	0.0015	0.0008	N/A	0	0.1493	0.0221	0.4106	0.095	0.0631	0.0008
NBPL	1/1/2022 0:00	1/31/2022 0:00	GLNU1 - GLEN ULLIN	1/11/2022	1/12/2022	1091	0.6434	-49.8	1360.141909	0.9784	2.2677	83.1992	12.4481	0.9149	0.0201	0.0338	0.0009	0.0003	N/A	0	0.1131	0.0237	0.4372	0.0962	0.069	0.0008
NBPL	1/1/2022 0:00	1/31/2022 0:00	GLNU1 - GLEN ULLIN	1/12/2022	1/13/2022	1093	0.6457	-48.3	1360.206258	0.9829	2.3041	82.9163	12.7121	0.9533	0.0222	0.0369	0.0017	0.0012	N/A	0	0.0452	0.0241	0.4277	0.0915	0.0583	0.0008
NBPL	1/1/2022 0:00	1/31/2022 0:00	GLNU1 - GLEN ULLIN	1/13/2022	1/14/2022	1094	0.6457	-48	1361.450729	0.982	2.2772	82.9707	12.655	0.9832	0.0231	0.0388	0.002	0.0017	N/A	0	0.0425	0.0239	0.3805	0.0851	0.0518	0.0008
NBPL	1/1/2022 0:00	1/31/2022 0:00	GLNU1 - GLEN ULLIN	1/14/2022	1/15/2022	1092	0.6433	-50	1361.49441	0.9649	2.2159	83.3697	12.4155	0.914	0.0195	0.0323	0.0014	0.0007	N/A	0	0.0431	0.0234	0.4068	0.0859	0.0541	0.0008
NBPL	1/1/2022 0:00	1/31/2022 0:00	GLNU1 - GLEN ULLIN	1/15/2022	1/16/2022	1092	0.6439	-49.7	1360.859927	0.959	2.2406	83.2264	12.5306	0.9127	0.0184	0.0306	0.0006	0.0002	N/A	0	0.0463	0.0236	0.422	0.0829	0.0533	0.0008
NBPL	1/1/2022 0:00	1/31/2022 0:00	GLNU1 - GLEN ULLIN	1/16/2022	1/17/2022	1092	0.6439	-49.8	1360.859927	0.9647	2.2428	83.2238	12.5395	0.918	0.0181	0.0299	0.0004	0	N/A	0	0.0392	0.0237	0.4106	0.0858	0.0559	0.0008
NBPL	1/1/2022 0:00	1/31/2022 0:00	GLNU1 - GLEN ULLIN	1/17/2022	1/18/2022	1093	0.644	-49.8	1362.000379	0.9595	2.2246	83.1488	12.6364	0.8993	0.0175	0.029	0.0002	0.0001	N/A	0	0.0616	0.0233	0.4243	0.0829	0.0513	0.0008
NBPL	1/1/2022 0:00	1/31/2022 0:00	GLNU1 - GLEN ULLIN	1/18/2022	1/19/2022	1089	0.6415	-51	1359.657584	0.954	2.1957	83.39	12.3223	0.8808	0.0174	0.0289	0.0002	0.0002	N/A	0	0.1878	0.0228	0.4083	0.0861	0.0465	0.0008
NBPL	1/1/2022 0:00	1/31/2022 0:00	GLNU1 - GLEN ULLIN	1/19/2022	1/20/2022	1092	0.6436	-50	1361.177058	0.9804	2.2168	83.1384	12.5862	0.89	0.0178	0.0299	0.0002	0.0001	N/A	0	0.1179	0.0226	0.3823	0.0775	0.0376	0.0008
NBPL	1/1/2022 0:00	1/31/2022 0:00	GLNU1 - GLEN ULLIN	1/20/2022	1/21/2022	1091	0.6423	-50.4	1361.306097	0.956	2.1953	83.271	12.4353	0.8963	0.0177	0.0301	0.0004	0.0002	N/A	0	0.1756	0.0223	0.3903	0.0879	0.0441	0.0008
NBPL	1/1/2022 0:00	1/31/2022 0:00	GLNU1 - GLEN ULLIN	1/21/2022	1/22/2022	1091	0.6427	-50.4	1360.88241	0.9548	2.2377	83.2845	12.4264	0.9012	0.018	0.0303	0.0004	0.0001	N/A	0	0.1237	0.023	0.3972	0.104	0.0581	0.0008
NBPL	1/1/2022 0:00	1/31/2022 0:00	GLNU1 - GLEN ULLIN	1/22/2022	1/23/2022	1089	0.6419	-50.7	1359.233882	0.9531	2.2472	83.4052	12.2707	0.906	0.0187	0.0314	0.0005	0	N/A	0	0.1445	0.0229	0.39	0.1061	0.0601	0.0008
NBPL	1/1/2022 0:00	1/31/2022 0:00	GLNU1 - GLEN ULLIN	1/23/2022	1/24/2022	1091	0.6435	-49.7	1360.036221	0.965	2.2913	83.1189	12.4734	0.934	0.0192	0.0324	0.0007	0.0001	N/A	0	0.1419	0.0232	0.4076	0.1027	0.0579	0.0008
NBPL	1/1/2022 0:00	1/31/2022 0:00	GLNU1 - GLEN ULLIN	1/24/2022	1/25/2022	1090	0.6431	-50.3	1359.212139	0.9697	2.2654	83.1586	12.5152	0.8757	0.0191	0.0323	0.0005	0	N/A	0	0.1407	0.023	0.3787	0.0818	0.0426	0.0008
NBPL	1/1/2022 0:00	1/31/2022 0:00	GLNU1 - GLEN ULLIN	1/25/2022	1/26/2022	1090	0.6417	-51.1	1360.694027	0.9607	2.1988	83.4422	12.3463	0.8418	0.0197	0.0338	0.0006	0.0003	N/A	0	0.1334	0.0226	0.3902	0.0802	0.0408	0.0008
NBPL	1/1/2022 0:00	1/31/2022 0:00	GLNU1 - GLEN ULLIN	1/26/2022	1/27/2022	1092	0.6435	-49.6	1361.282817	0.9649	2.2317	83.1682	12.5205	0.9084	0.021	0.0363	0.001	0.0005	N/A	0	0.1248	0.0228	0.3928	0.0881	0.048	0.0008
NBPL	1/1/2022 0:00	1/31/2022 0:00	GLNU1 - GLEN ULLIN	1/27/2022	1/28/2022	1090	0.6428	-50.8	1359.529275	0.9681	2.2625	83.2053	12.5382	0.8343	0.0178	0.0304	0.0005	0.0001	N/A	0	0.1196	0.0234	0.3982	0.095	0.0539	0.0008
NBPL	1/1/2022 0:00	1/31/2022 0:00	GLNU1 - GLEN ULLIN	1/28/2022	1/29/2022	1091	0.6433	-50.5	1360.247621	0.969	2.2687	83.0811	12.637	0.8411	0.0176	0.0298	0.0002	0	N/A	0	0.1325	0.0232	0.4049	0.0974	0.0488	0.0008
NBPL	1/1/2022 0:00	1/31/2022 0:00	GLNU1 - GLEN ULLIN	1/29/2022	1/30/2022	1090	0.6428	-50.9	1359.529275	0.9698	2.2721	83.1935	12.5383	0.8274	0.0172	0.0293	0.0002	0.0001	N/A	0	0.1288	0.0235	0.4033	0.0904	0.0465	0.0008
NBPL	1/1/2022 0:00	1/31/2022 0:00	GLNU1 - GLEN ULLIN	1/30/2022	1/31/2022	1090	0.643	-50.8	1359.317824	0.9886	2.2392	83.1465	12.5901	0.8271	0.0171	0.0289	0	0	N/A	0	0.1397	0.023	0.4014	0.092	0.0463	0.0008

<b>NORTH DAKOTA HEATING VALUE ZONES</b>		
<b>ZONES</b>	<b>MEASURING DEVICE</b>	<b>LOCATION</b>
211	Chromatograph	Sidney Border
24	Chromatograph	Williston Border
241	Accumulated Sample	Fairview Border
25	Accumulated Sample	Watford City West Border
260	Chromatograph	North Tioga Transfer
261	Chromatograph	Tioga Comp Station – Robinson Lake Plant
262	Chromatograph	Minot Border
263	Accumulated Sample	Lignite Plant
264	Accumulated Sample	Epping Border
265	Chromatograph	Tioga Comp Station – County Line Plant
271	Chromatograph	Bismarck – Cleveland
272	Chromatograph	Cleveland – Mapleton
273	Chromatograph	Cleveland – Grafton
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	JAN22	DEC21	NOV21	OCT21	SEP21	AUG21	JUL21	JUN 21	MAY 21	APR 21	MAR 21	FEB 21	ZONE
MT/ND	211	Sidney Border - MonDak Tfr - Sidney Plt	1200	1171	1215	1208	1201	1213	1216	1210	1152	1204	1198	1208	1206	211
ND	24	Williston Border - Charbonneau Station	1166	1155	1152	1161	1159	1167	1173	1172	1164	1168	1167	1176	1176	24
ND	25	Watford City West Border	1202	1198	1202	1208	1206	1205	1211	1203	1199	1202	1199	1194	1194	25
ND	28	Bismarck Station - Glen Ullin Station	1160	1126	1142	1135	1185	1196	1202	1200	1202	1161	1117	1148	1110	28
ND	31	Dickinson Brd - Belfield Trf - G Ullin Stn	1140	1132	1143	1141	1141	1130	1191	1123	1129	1160	1154	1127	1113	31
ND/MT	32	Cabin Creek Station - Belfield Transfer	1128	1127	1131	1129	1132	1136	1162	1135	1127	1122	1124	1121	1091	32
ND	33	Little Knife Plant	1177	1173	1176	1182	1177	1179	1182	1184	1179	1175	1173	1172	1171	33
ND	34	Badlands Plant/Bowman Border	1027	1097	1093	981	1022	1059	1025	980	980	989	981	1040	1079	34
ND	43	Watford City East Border	1091	1094	1042	1047	1060	1062	1088	1109	1119	1123	1119	1126	1106	43
ND/MT	241	Fairview Border	1193	1200	1208	1197	1162	1193	1201	1213	1185	1173	1185	1198	1204	241
ND	260	North Tioga Transfer - Nesson Plant	1146	1122	1122	1137	1135	1145	1159	1167	1153	1159	1148	1160	1149	260
ND	261	Tioga Comp Station - Robinson Lake Plan	1184	1175	1161	1176	1197	1192	1194	1196	1195	1193	1180	1173	1171	261
ND	262	Minot Bdr - Palermo Bdr - Bismarck Stn	1197	1180	1199	1198	1211	1203	1202	1200	1203	1195	1189	1191	1187	262
ND	263	Lignite Plant	1136	1131	1131	1131	1131	1134	1129	1143	1147	1137	1147	1148	1125	263
ND	264	Epping Border	1160	1145	1147	1152	1145	1164	1167	1172	1165	1163	1165	1168	1168	264
ND	265	Tioga Comp Station - County Line Plant	1165	1157	1152	1159	1166	1165	1163	1166	1165	1172	1170	1172	1171	265
ND	266	County Line Plant	1175	1175	1178	1183	1174	1185	1175	1174	1169	1171	1169	1174	1176	266
ND	271	Bismarck Station - Cleveland Station	1191	1162	1188	1198	1208	1197	1202	1200	1202	1196	1186	1191	1165	271
ND	272	Cleveland Station - Mapleton	1191	1161	1189	1198	1211	1196	1202	1199	1200	1196	1185	1190	1165	272
ND	273	Cleveland Station - Grafton Border	1191	1161	1188	1198	1210	1195	1202	1200	1200	1195	1184	1189	1164	273
ND	550	Mandan Border / NBPL-St Anthony	1155	1116	1136	1135	1173	1196	1196	1190	1182	1161	1120	1148	1110	550
ND	610	MDU-Watford City BTU	1128	1129	1095	1110	1130	1098	1106	1121	1132	1162	1158	1158	1141	610
ND	802	NBPL - Linton	1092	1091	1085	1086	1089	1094	1090	1089	1090	1094	1093	1099	1101	802
ND	903	Hettinger Propane	2549	2549	2549	2549	2549	2549	2549	2549	2549	2549	2549	2549	2549	903
ND	600	Alliance Pipeline - Hankinson	1154	1149	1155	1158	1158	1158	1153	1156	1157	1158	1154	1150	1146	600
ND	601	Alliance Pipeline - Milnor	1154	1149	1154	1157	1158	1158	1153	1156	1157	1158	1154	1150	1146	602

<b>THERMAL ZONE VARIANCE DOCUMENTATION</b>		
<b>January 2022</b>		
<b><i>ZONE</i></b>	<b><i>BTU VARIANCE</i></b>	<b><i>REASON</i></b>
43	52	Operational / Blend
211	-44	Operational / Maint.
271	-26	Operational / Blend
272	-28	Operational / Blend
273	-27	Operational / Blend
610	34	Operational / Blend