

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

June 20, 2023

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

Re: Case No. PU-23-002 (Therm Billing)
Monthly Report – April 2023

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

1. Attachment A is a schedule showing the thermal billing factors by community that reflect the BTU values shown on Attachment B and were used for billing purposes in May 2023.
2. Attachment B consists of copies of the monthly Heating Value Test Reports received from our suppliers for the month of April 2023.
3. Attachment C is a listing which states the type of measuring device in place at each zone.
4. Attachment D is a monthly list of the heating value data, by zone, for the most recent 12-month period and an average thereof. It is being provided pursuant to a Staff request.
5. Attachment E provides a brief explanation of the thermal variances, where applicable, for the month of April 2023.

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

Sincerely,

/s/ Travis R. Jacobson

Travis R. Jacobson
Director of Regulatory Affairs

Montana-Dakota Utilities Co.
Therm Billing Factors - North Dakota
May-23

| <u>Town</u> | <u>Heat Zone</u> | <u>Therm Factor</u> |
|----------------------|------------------|---------------------|
| MDU-303-ALEXANDER | 025 | 1.1173 |
| MDU-308-ARNEGARD | 025 | 1.1173 |
| MDU-314-APPLE VALLEY | 271 | 1.1395 |
| MDU-318-BEACH | 032 | 1.0507 |
| MDU-319-BELFIELD | 032 | 1.0585 |
| MDU-323-BERTHOLD | 262 | 1.1211 |
| MDU-327-BISMARCK | 028 | 1.0874 |
| MDU-330-BOWMAN | 034 | 0.9825 |
| MDU-337-BURLINGTON | 262 | 1.1453 |
| MDU-343-CARRINGTON | 273 | 1.1385 |
| MDU-344-CLEVELAND | 272 | 1.1315 |
| MDU-364-CAVALIER | 273 | 1.1626 |
| MDU-365-DAWSON | 271 | 1.1315 |
| MDU-368-DES LACS | 262 | 1.1292 |
| MDU-369-DICKINSON | 031 | 1.0615 |
| MDU-374-FT TOTTEN | 273 | 1.1466 |
| MDU-375-DEVILS LAKE | 273 | 1.1466 |
| MDU-379-BARLOW | 273 | 1.1385 |
| MDU-384-EPPING | 264 | 1.1353 |
| MDU-387-ELDRIDGE | 272 | 1.1395 |
| MDU-407-GLADSTONE | 031 | 1.0615 |
| MDU-411-GLEN ULLIN | 031 | 1.0692 |
| MDU-413-GOLVA | 032 | 1.0353 |
| MDU-416-GARRISON | 262 | 1.1292 |
| MDU-417-GRAFTON | 273 | 1.1706 |
| MDU-403-GWINNER | 601 | 1.1320 |
| MDU-429-HEBRON | 031 | 1.0692 |
| MDU-432-HETTINGER | 903 | 2.4049 |
| MDU-449-JAMESTOWN | 272 | 1.1475 |
| MDU-459-KILLDEER | 033 | 1.1117 |
| MDU-463-LANGDON | 273 | 1.1385 |
| MDU-469-LEFOR | 031 | 1.0615 |
| MDU-474-LIGNITE | 263 | 1.0759 |
| MDU-475-LINTON | 802 | 1.0585 |
| MDU-478-LINCOLN | 028 | 1.0874 |
| MDU-488-MCKENZIE | 271 | 1.1395 |
| MDU-494-MEDINA | 271 | 1.1315 |
| MDU-498-MANDAN | 028 | 1.0874 |
| MDU-500-MARMARTH | 034 | 0.9897 |
| MDU-505-MINOT | 262 | 1.1453 |
| MDU-510-MOTT | 031 | 1.0615 |
| MDU-512-MAX | 262 | 1.1453 |
| MDU-513-MILNOR | 601 | 1.1320 |
| MDU-522-NEW ENGLAND | 031 | 1.0538 |
| MDU-524-NEW SALEM | 028 | 1.0645 |
| MDU-532-NEW ROCKFORD | 273 | 1.1385 |
| MDU-539-PARK RIVER | 273 | 1.1626 |
| MDU-540-PALERMO | 262 | 1.1211 |
| MDU-558-RAY | 264 | 1.1334 |

| | | |
|------------------------|-----|--------|
| MDU-561-REGENT | 031 | 1.0615 |
| MDU-563-RHAME | 034 | 0.9752 |
| MDU-564-RICHARDTON | 031 | 1.0538 |
| MDU-568-ROSS | 261 | 1.1112 |
| MDU-572-RUTHVILLE | 262 | 1.1453 |
| MDU-574-SANBORN | 272 | 1.1475 |
| MDU-583-SENTINEL BUTTE | 032 | 1.0507 |
| MDU-588-SOUTH HEART | 031 | 1.0538 |
| MDU-717-SPIRITWOOD | 272 | 1.1475 |
| MDU-590-SPRINGBROOK | 264 | 1.1334 |
| MDU-591-STANLEY | 261 | 1.1192 |
| MDU-593-STEELE | 271 | 1.1315 |
| MDU-594-STERLING | 028 | 1.0874 |
| MDU-598-SHEYENNE | 273 | 1.1466 |
| MDU-605-SURREY | 262 | 1.1453 |
| MDU-610-TAPPEN | 271 | 1.1315 |
| MDU-611-TAYLOR | 031 | 1.0538 |
| MDU-616-TIOGA | 260 | 1.1149 |
| MDU-619-TURTLE LAKE | 262 | 1.1292 |
| MDU-620-TRENTON | 024 | 1.1368 |
| MDU-624-UNDERWOOD | 262 | 1.1292 |
| MDU-625-VALLEY CITY | 272 | 1.1555 |
| MDU-629-WALHALLA | 273 | 1.1626 |
| MDU-632-WATFORD CITY | 610 | 1.0739 |
| MDU-636-WHEELOCK | 264 | 1.1271 |
| MDU-637-WHITE EARTH | 261 | 1.1192 |
| MDU-642-WILLISTON | 024 | 1.1368 |
| MDU-646-WASHBURN | 262 | 1.1372 |
| MDU-647-WILTON | 262 | 1.1211 |
| MDU-664-RIVERDALE | 262 | 1.1292 |
| MDU-691-FAIRVIEW | 241 | 1.1425 |
| MDU-712-MINOT AFB | 262 | 1.1453 |
| MDU-718-FAIRMOUNT | 600 | 1.1297 |
| MDU-732-NEKOMA | 273 | 1.1385 |
| MDU-732-MSR SITE | 273 | 1.1385 |

Source Daily Summary

April 2023

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

| | | | |
|--------------------------|--------|-----------------------|---|
| Pressure Base: | 14.730 | Contract Day: | 1 |
| Temperature Base: | 60 | Contract Hour: | 9 |

| Day | Relative Density | Heating Value Wet | Heating Value Dry | Heating Value As Del | CO2 | N2 | C1 | C2 | C3 | IC4 | NC4 | IC5 | NC5 | C6 | C7 | C8 | C9 | C10 | Wobbe | CCT |
|-----|------------------|-------------------|-------------------|----------------------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-----|
| 1 | 0.7252 | 1186.1 | 1207.1 | 1206.8 | 0.794 | 3.286 | 69.041 | 23.655 | 2.857 | 0.112 | 0.226 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1417.50 | |
| 2 | 0.7220 | 1182.7 | 1203.7 | 1203.4 | 0.740 | 3.276 | 69.603 | 23.207 | 2.798 | 0.111 | 0.234 | 0.016 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1416.56 | |
| 3 | 0.7356 | 1194.8 | 1215.9 | 1215.6 | 1.087 | 3.294 | 67.619 | 24.428 | 3.139 | 0.136 | 0.268 | 0.015 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1417.69 | |
| 4 | 0.7374 | 1195.9 | 1217.1 | 1216.8 | 1.146 | 3.304 | 67.108 | 25.021 | 3.030 | 0.130 | 0.240 | 0.012 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1417.39 | |
| 5 | 0.7348 | 1193.2 | 1214.3 | 1214.0 | 1.103 | 3.289 | 67.491 | 24.774 | 2.982 | 0.122 | 0.222 | 0.010 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1416.62 | |
| 6 | 0.7199 | 1179.6 | 1200.5 | 1200.2 | 0.700 | 3.337 | 69.372 | 23.865 | 2.478 | 0.084 | 0.151 | 0.008 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1414.84 | |
| 7 | 0.7165 | 1178.3 | 1199.2 | 1198.9 | 0.598 | 3.251 | 69.699 | 23.958 | 2.282 | 0.072 | 0.129 | 0.006 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1416.67 | |
| 8 | 0.7194 | 1181.6 | 1202.5 | 1202.2 | 0.653 | 3.237 | 69.276 | 24.245 | 2.376 | 0.073 | 0.130 | 0.006 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1417.75 | |
| 9 | 0.7186 | 1180.1 | 1201.0 | 1200.6 | 0.685 | 3.203 | 69.589 | 23.839 | 2.452 | 0.079 | 0.142 | 0.006 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1416.74 | |
| 10 | 0.7208 | 1183.4 | 1204.3 | 1203.9 | 0.663 | 3.244 | 69.451 | 23.658 | 2.719 | 0.089 | 0.161 | 0.008 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1418.49 | |
| 11 | 0.7221 | 1184.3 | 1205.2 | 1204.7 | 0.723 | 3.218 | 69.181 | 23.964 | 2.653 | 0.088 | 0.160 | 0.007 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1418.33 | |
| 12 | 0.7217 | 1178.0 | 1198.9 | 1198.5 | 0.867 | 3.336 | 69.535 | 23.254 | 2.702 | 0.102 | 0.187 | 0.009 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1411.29 | |
| 13 | 0.7310 | 1187.8 | 1208.8 | 1208.4 | 1.067 | 3.320 | 68.145 | 24.179 | 2.950 | 0.112 | 0.207 | 0.010 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1413.80 | |
| 14 | 0.7255 | 1185.3 | 1206.3 | 1206.0 | 0.891 | 3.216 | 68.785 | 24.109 | 2.697 | 0.098 | 0.186 | 0.009 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1416.28 | |
| 15 | 0.7250 | 1185.7 | 1206.7 | 1206.4 | 0.861 | 3.192 | 68.665 | 24.449 | 2.552 | 0.094 | 0.172 | 0.008 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1417.26 | |
| 16 | 0.7214 | 1184.6 | 1205.6 | 1205.2 | 0.713 | 3.153 | 69.159 | 24.196 | 2.532 | 0.083 | 0.151 | 0.007 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1419.35 | |
| 17 | 0.7260 | 1187.5 | 1208.5 | 1208.1 | 0.869 | 3.169 | 68.629 | 24.355 | 2.687 | 0.097 | 0.178 | 0.009 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1418.33 | |
| 18 | 0.7322 | 1189.8 | 1210.9 | 1210.5 | 1.112 | 3.242 | 67.942 | 24.442 | 2.909 | 0.118 | 0.216 | 0.011 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1415.05 | |
| 19 | 0.7322 | 1193.6 | 1214.7 | 1214.3 | 0.994 | 3.191 | 67.613 | 25.119 | 2.773 | 0.104 | 0.190 | 0.009 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1419.55 | |
| 20 | 0.7442 | 1202.8 | 1224.1 | 1223.7 | 1.326 | 3.249 | 66.046 | 25.846 | 3.125 | 0.135 | 0.251 | 0.012 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1418.96 | |
| 21 | 0.7465 | 1206.3 | 1227.7 | 1227.4 | 1.341 | 3.227 | 65.757 | 25.992 | 3.261 | 0.140 | 0.259 | 0.013 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1420.90 | |
| 22 | 0.7430 | 1199.6 | 1220.8 | 1220.5 | 1.359 | 3.276 | 66.472 | 25.230 | 3.237 | 0.141 | 0.262 | 0.013 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1416.34 | |
| 23 | 0.7066 | 1171.3 | 1192.0 | 1191.7 | 0.369 | 3.087 | 70.832 | 23.717 | 1.864 | 0.041 | 0.069 | 0.003 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1418.27 | |
| 24 | 0.7038 | 1172.0 | 1192.8 | 1192.4 | 0.201 | 3.048 | 71.055 | 23.918 | 1.708 | 0.026 | 0.040 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1421.82 | |
| 25 | 0.7006 | 1169.6 | 1190.3 | 1189.9 | 0.070 | 3.091 | 71.404 | 23.790 | 1.619 | 0.013 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1422.10 | |
| 26 | 0.6993 | 1166.8 | 1187.5 | 1187.0 | 0.074 | 3.130 | 71.656 | 23.513 | 1.598 | 0.013 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1420.03 | |
| 27 | 0.6983 | 1165.8 | 1186.4 | 1186.0 | 0.082 | 3.093 | 71.819 | 23.418 | 1.561 | 0.013 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1419.75 | |
| 28 | 0.6971 | 1159.3 | 1179.8 | 1179.4 | 0.195 | 3.203 | 72.285 | 22.647 | 1.607 | 0.024 | 0.037 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1413.11 | |
| 29 | 0.7035 | 1169.9 | 1190.6 | 1190.2 | 0.210 | 3.129 | 71.151 | 23.708 | 1.734 | 0.026 | 0.040 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1419.62 | |
| 30 | 0.7295 | 1187.7 | 1208.7 | 1208.3 | 1.033 | 3.237 | 68.347 | 24.174 | 2.867 | 0.113 | 0.210 | 0.011 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1415.26 | |
| Avg | 0.7220 | 1183.0 | 1204.4 | 1204.0 | 0.751 | 3.218 | 69.091 | 24.156 | 2.525 | 0.086 | 0.159 | 0.008 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1417.52 | |

Source Daily Summary

April 2023

Source #: 571
Name: WILLISTON BDR-CHARBN STN

| | | | |
|--------------------------|--------|-----------------------|---|
| Pressure Base: | 14.730 | Contract Day: | 1 |
| Temperature Base: | 60 | Contract Hour: | 9 |

| Day | Relative Density | Heating Value Wet | Heating Value Dry | Heating Value As Del | CO2 | N2 | C1 | C2 | C3 | IC4 | NC4 | IC5 | NC5 | C6 | C7 | C8 | C9 | C10 | Wobbe | CCT |
|-----|------------------|-------------------|-------------------|----------------------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-----|
| 1 | 0.7415 | 1203.8 | 1225.1 | 1224.9 | 1.095 | 3.256 | 69.936 | 19.495 | 5.111 | 0.279 | 0.692 | 0.060 | 0.074 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1422.69 | |
| 2 | 0.7406 | 1202.4 | 1223.7 | 1223.4 | 1.094 | 3.249 | 69.982 | 19.553 | 5.059 | 0.271 | 0.663 | 0.057 | 0.070 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1422.01 | |
| 3 | 0.7218 | 1186.8 | 1207.8 | 1207.5 | 1.042 | 2.532 | 72.085 | 19.628 | 3.944 | 0.206 | 0.474 | 0.040 | 0.048 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1421.62 | |
| 4 | 0.7167 | 1175.5 | 1196.3 | 1196.1 | 0.564 | 3.478 | 70.695 | 21.948 | 2.900 | 0.115 | 0.253 | 0.022 | 0.025 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1413.17 | |
| 5 | 0.7146 | 1167.5 | 1188.1 | 1187.9 | 0.588 | 3.737 | 70.867 | 21.677 | 2.747 | 0.109 | 0.234 | 0.019 | 0.022 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1405.56 | |
| 6 | 0.7246 | 1178.4 | 1199.3 | 1199.0 | 1.080 | 3.252 | 70.473 | 21.199 | 3.437 | 0.147 | 0.350 | 0.028 | 0.034 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1408.88 | |
| 7 | 0.7148 | 1168.5 | 1189.2 | 1188.9 | 0.628 | 3.632 | 70.770 | 21.924 | 2.687 | 0.102 | 0.219 | 0.018 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1406.69 | |
| 8 | 0.7141 | 1158.0 | 1178.5 | 1178.2 | 0.615 | 4.225 | 70.724 | 21.497 | 2.564 | 0.111 | 0.224 | 0.020 | 0.021 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1394.65 | |
| 9 | 0.7032 | 1166.1 | 1186.7 | 1186.5 | 0.157 | 3.411 | 71.342 | 23.115 | 1.867 | 0.037 | 0.061 | 0.005 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1415.22 | |
| 10 | 0.7047 | 1162.6 | 1183.2 | 1182.7 | 0.269 | 3.593 | 71.375 | 22.596 | 2.000 | 0.054 | 0.097 | 0.008 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1409.45 | |
| 11 | 0.7232 | 1154.0 | 1174.4 | 1173.7 | 0.908 | 4.875 | 69.989 | 20.563 | 3.100 | 0.165 | 0.338 | 0.030 | 0.032 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.08 | |
| 12 | 0.7234 | 1166.7 | 1187.4 | 1187.0 | 1.023 | 3.938 | 70.240 | 21.078 | 3.187 | 0.149 | 0.326 | 0.027 | 0.031 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1396.17 | |
| 13 | 0.7231 | 1175.8 | 1196.6 | 1196.3 | 1.134 | 3.197 | 70.475 | 21.469 | 3.219 | 0.135 | 0.316 | 0.024 | 0.029 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1407.14 | |
| 14 | 0.7230 | 1175.4 | 1196.3 | 1195.9 | 1.137 | 3.202 | 70.457 | 21.522 | 3.182 | 0.134 | 0.313 | 0.024 | 0.029 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1406.85 | |
| 15 | 0.7219 | 1163.6 | 1184.3 | 1183.9 | 0.953 | 4.096 | 70.254 | 21.156 | 3.022 | 0.147 | 0.314 | 0.027 | 0.030 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1393.88 | |
| 16 | 0.7180 | 1169.6 | 1190.3 | 1189.9 | 0.911 | 3.436 | 70.713 | 21.679 | 2.833 | 0.118 | 0.264 | 0.021 | 0.025 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1404.74 | |
| 17 | 0.7167 | 1163.4 | 1184.1 | 1183.6 | 0.753 | 3.928 | 70.727 | 21.390 | 2.745 | 0.131 | 0.273 | 0.025 | 0.027 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1398.66 | |
| 18 | 0.7220 | 1170.3 | 1191.1 | 1190.7 | 0.952 | 3.701 | 70.284 | 21.522 | 3.031 | 0.143 | 0.309 | 0.028 | 0.031 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1401.75 | |
| 19 | 0.7130 | 1165.9 | 1186.5 | 1186.2 | 0.612 | 3.651 | 70.883 | 22.055 | 2.437 | 0.104 | 0.215 | 0.021 | 0.023 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1405.21 | |
| 20 | 0.7126 | 1162.0 | 1182.6 | 1182.2 | 0.578 | 3.898 | 70.819 | 21.959 | 2.399 | 0.102 | 0.205 | 0.019 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1400.97 | |
| 21 | 0.7049 | 1165.9 | 1186.5 | 1186.2 | 0.286 | 3.392 | 71.291 | 22.947 | 1.919 | 0.052 | 0.096 | 0.008 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1413.20 | |
| 22 | 0.7106 | 1165.5 | 1186.2 | 1185.9 | 0.460 | 3.678 | 70.906 | 22.373 | 2.295 | 0.086 | 0.171 | 0.015 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1407.12 | |
| 23 | 0.7043 | 1163.8 | 1184.4 | 1184.0 | 0.325 | 3.399 | 71.499 | 22.674 | 1.923 | 0.056 | 0.105 | 0.009 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1411.32 | |
| 24 | 0.7239 | 1181.3 | 1202.2 | 1201.8 | 0.835 | 3.394 | 68.893 | 24.017 | 2.545 | 0.102 | 0.190 | 0.012 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1413.08 | |
| 25 | 0.7271 | 1184.2 | 1205.2 | 1204.8 | 0.936 | 3.361 | 68.555 | 24.096 | 2.715 | 0.110 | 0.203 | 0.013 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1413.43 | |
| 26 | 0.7253 | 1180.9 | 1201.8 | 1201.4 | 0.908 | 3.434 | 68.928 | 23.635 | 2.759 | 0.110 | 0.203 | 0.013 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1411.25 | |
| 27 | 0.7270 | 1182.8 | 1203.8 | 1203.4 | 0.958 | 3.411 | 68.588 | 23.984 | 2.716 | 0.112 | 0.207 | 0.013 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1411.77 | |
| 28 | 0.7287 | 1182.5 | 1203.4 | 1203.0 | 1.030 | 3.474 | 68.512 | 23.772 | 2.830 | 0.123 | 0.230 | 0.015 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1409.76 | |
| 29 | 0.7172 | 1173.2 | 1193.9 | 1193.5 | 0.654 | 3.534 | 69.910 | 23.175 | 2.435 | 0.092 | 0.175 | 0.013 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1409.90 | |
| 30 | 0.7125 | 1169.9 | 1190.7 | 1190.2 | 0.644 | 3.301 | 71.163 | 21.968 | 2.580 | 0.095 | 0.212 | 0.016 | 0.019 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1410.66 | |
| Avg | 0.7192 | 1173.0 | 1193.6 | 1193.3 | 0.771 | 3.556 | 70.378 | 21.989 | 2.873 | 0.123 | 0.264 | 0.022 | 0.024 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1407.60 | |

Gas Composition and Properties

Effective April 1, 2023

Attachment B
Page 3 of 24

Source #: 0602160
Name: FAIRVIEW BORDER

| Component | Mole % | Liquid Content | Mass % |
|-----------------------|-----------------|----------------|-----------------|
| Carbon Dioxide, CO2 | 0.4972 | | 1.0636 |
| Nitrogen, N2 | 3.1901 | | 4.3440 |
| Methane, C1 | 70.5006 | | 54.9773 |
| Ethane, C2 | 23.2790 | 6.2302 | 34.0254 |
| Propane, C3 | 2.3161 | 0.6385 | 4.9645 |
| iso-Butane, iC4 | 0.0729 | 0.0239 | 0.2060 |
| n-Butane, nC4 | 0.1275 | 0.0402 | 0.3602 |
| iso-Pentane, iC5 | 0.0075 | 0.0027 | 0.0263 |
| n-Pentane, nC5 | 0.0080 | 0.0029 | 0.0281 |
| Neo-Pentane, neo | | | |
| Hexanes Plus, C6+ | 0.0011 | 0.0005 | 0.0046 |
| Argon, Ar | | | |
| Carbon Monoxide, CO | | | |
| Hydrogen, H2 | | | |
| Oxygen, O2 | | | |
| Helium, He | | | |
| Water, H2O | | | |
| Hydrogen Sulfide, H2S | | | |
| Totals | 100.0000 | 6.9390 | 100.0000 |

| Property | Total Sample | C6 Plus Fraction |
|------------------------|--------------|------------------|
| Pressure Base | 14.730 | |
| Temperature Base | 60.00 | |
| HCDP @ Sample Pressure | | |
| Cricondentherm | -7.368 | |
| HV, Dry @ Base P, T | 1196.17 | |
| HV, Sat @ Base P, T | 1175.35 | |
| HV, Sat @ Sample P, T | 1196.17 | |
| Relative Density | 0.7124 | |
| C6+: 100 | | |

Sample

Date: 04/01/2023 Type:

Tech: Tipton, Joshua

Pressure: Temp.:

Gauge: Gauge H2O:

Atm. Pressure: 450.000 psi H2S:

Remarks:

Analysis

Date: 04/01/2023 Instrument:

Tech: Tipton, Joshua Cylinder: 364

Remarks:

Source Daily Summary

April 2023

Source #: 602
Name: TIOGA STN-N TIOGA TRANSFER

| | | | |
|--------------------------|--------|-----------------------|---|
| Pressure Base: | 14.730 | Contract Day: | 1 |
| Temperature Base: | 60 | Contract Hour: | 9 |

| Day | Relative Density | Heating Value Wet | Heating Value Dry | Heating Value As Del | CO2 | N2 | C1 | C2 | C3 | IC4 | NC4 | IC5 | NC5 | C6 | C7 | C8 | C9 | C10 | Wobbe | CCT |
|-----|------------------|-------------------|-------------------|----------------------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-------|
| 1 | 0.7054 | 1166.0 | 1186.6 | 1186.4 | 1.000 | 2.334 | 73.036 | 20.798 | 2.473 | 0.101 | 0.222 | 0.016 | 0.019 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1412.86 | -6.97 |
| 2 | 0.7036 | 1162.6 | 1183.2 | 1183.0 | 0.995 | 2.379 | 73.134 | 20.867 | 2.306 | 0.091 | 0.198 | 0.014 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1410.59 | -8.99 |
| 3 | 0.7054 | 1164.4 | 1185.0 | 1184.8 | 0.994 | 2.439 | 72.806 | 21.121 | 2.299 | 0.097 | 0.211 | 0.015 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1410.96 | -8.08 |
| 4 | 0.7078 | 1165.1 | 1185.8 | 1185.6 | 1.007 | 2.598 | 72.502 | 21.101 | 2.418 | 0.103 | 0.232 | 0.018 | 0.021 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1409.47 | -6.49 |
| 5 | 0.7086 | 1166.8 | 1187.4 | 1187.2 | 1.018 | 2.560 | 72.637 | 20.754 | 2.610 | 0.116 | 0.259 | 0.020 | 0.024 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1410.59 | -4.62 |
| 6 | 0.7044 | 1161.9 | 1182.5 | 1182.3 | 1.018 | 2.468 | 72.933 | 21.011 | 2.242 | 0.093 | 0.202 | 0.015 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1408.87 | -8.89 |
| 7 | 0.7080 | 1165.8 | 1186.5 | 1186.3 | 1.031 | 2.539 | 72.496 | 21.126 | 2.446 | 0.101 | 0.224 | 0.017 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1410.11 | -6.40 |
| 8 | 0.7080 | 1166.3 | 1186.9 | 1186.7 | 1.034 | 2.510 | 72.527 | 21.092 | 2.470 | 0.102 | 0.228 | 0.017 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1410.62 | -6.17 |
| 9 | 0.7082 | 1165.3 | 1185.9 | 1185.7 | 1.042 | 2.577 | 72.509 | 21.023 | 2.474 | 0.104 | 0.233 | 0.018 | 0.021 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1409.21 | -6.06 |
| 10 | 0.7086 | 1166.8 | 1187.4 | 1187.2 | 1.039 | 2.528 | 72.452 | 21.113 | 2.493 | 0.105 | 0.231 | 0.018 | 0.021 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1410.60 | -5.78 |
| 11 | 0.7100 | 1168.1 | 1188.8 | 1188.6 | 1.043 | 2.565 | 72.288 | 21.142 | 2.568 | 0.108 | 0.243 | 0.019 | 0.023 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1410.93 | -4.74 |
| 12 | 0.7075 | 1165.8 | 1186.5 | 1186.3 | 1.028 | 2.495 | 72.665 | 20.950 | 2.496 | 0.103 | 0.225 | 0.018 | 0.021 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1410.60 | -6.26 |
| 13 | 0.7035 | 1161.4 | 1181.9 | 1181.7 | 1.010 | 2.426 | 73.073 | 20.950 | 2.228 | 0.089 | 0.194 | 0.014 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1409.14 | -9.54 |
| 14 | 0.7034 | 1161.9 | 1182.5 | 1182.3 | 1.006 | 2.393 | 72.976 | 21.178 | 2.144 | 0.086 | 0.187 | 0.014 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1409.89 | -9.95 |
| 15 | 0.7072 | 1163.3 | 1183.9 | 1183.7 | 1.044 | 2.600 | 72.499 | 21.177 | 2.345 | 0.093 | 0.208 | 0.016 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1407.82 | -7.62 |
| 16 | 0.7065 | 1164.0 | 1184.6 | 1184.4 | 1.035 | 2.508 | 72.600 | 21.221 | 2.303 | 0.094 | 0.205 | 0.015 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1409.33 | -7.92 |
| 17 | 0.7085 | 1165.6 | 1186.2 | 1186.0 | 1.037 | 2.598 | 72.408 | 21.121 | 2.472 | 0.102 | 0.225 | 0.017 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1409.23 | -6.16 |
| 18 | 0.7054 | 1162.6 | 1183.2 | 1183.0 | 1.031 | 2.498 | 72.826 | 20.997 | 2.314 | 0.094 | 0.206 | 0.016 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1408.73 | -8.26 |
| 19 | 0.7072 | 1164.1 | 1184.7 | 1184.5 | 1.038 | 2.561 | 72.621 | 21.000 | 2.421 | 0.101 | 0.222 | 0.017 | 0.019 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1408.80 | -6.88 |
| 20 | 0.7070 | 1164.0 | 1184.6 | 1184.4 | 1.044 | 2.544 | 72.655 | 20.979 | 2.424 | 0.098 | 0.218 | 0.017 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1408.79 | -6.98 |
| 21 | 0.7059 | 1163.7 | 1184.3 | 1184.1 | 1.024 | 2.488 | 72.743 | 21.086 | 2.320 | 0.095 | 0.210 | 0.016 | 0.019 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1409.56 | -7.86 |
| 22 | 0.7069 | 1165.2 | 1185.8 | 1185.6 | 1.023 | 2.484 | 72.739 | 20.925 | 2.469 | 0.101 | 0.223 | 0.017 | 0.019 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1410.47 | -6.69 |
| 23 | 0.7117 | 1170.1 | 1190.9 | 1190.6 | 0.972 | 2.718 | 72.038 | 21.124 | 2.735 | 0.115 | 0.255 | 0.020 | 0.023 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1411.56 | -3.33 |
| 24 | 0.7112 | 1170.3 | 1191.0 | 1190.8 | 0.877 | 2.808 | 71.867 | 21.435 | 2.630 | 0.107 | 0.236 | 0.019 | 0.021 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1412.23 | -4.28 |
| 25 | 0.7174 | 1176.1 | 1196.9 | 1196.7 | 1.038 | 2.785 | 71.206 | 21.603 | 2.917 | 0.127 | 0.279 | 0.021 | 0.024 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1413.15 | -0.36 |
| 26 | 0.7176 | 1175.7 | 1196.5 | 1196.3 | 1.029 | 2.844 | 71.156 | 21.590 | 2.927 | 0.127 | 0.281 | 0.021 | 0.025 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1412.45 | -0.27 |
| 27 | 0.7160 | 1172.7 | 1193.5 | 1193.3 | 1.023 | 2.889 | 71.219 | 21.674 | 2.786 | 0.116 | 0.252 | 0.019 | 0.021 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1410.40 | -2.11 |
| 28 | 0.7123 | 1170.3 | 1191.0 | 1190.8 | 1.034 | 2.667 | 71.844 | 21.435 | 2.624 | 0.112 | 0.244 | 0.019 | 0.022 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1411.23 | -3.82 |
| 29 | 0.7146 | 1171.0 | 1191.8 | 1191.5 | 1.036 | 2.836 | 71.686 | 21.149 | 2.847 | 0.123 | 0.276 | 0.022 | 0.025 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1409.80 | -1.68 |
| 30 | 0.7084 | 1166.0 | 1186.6 | 1186.4 | 0.981 | 2.647 | 72.401 | 21.105 | 2.500 | 0.103 | 0.226 | 0.018 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1409.86 | -6.04 |
| Avg | 0.7085 | 1166.0 | 1187.1 | 1186.9 | 1.018 | 2.576 | 72.418 | 21.128 | 2.490 | 0.104 | 0.228 | 0.017 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1410.26 | -5.97 |

Source Daily Summary

April 2023

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

| | | | |
|--------------------------|--------|-----------------------|---|
| Pressure Base: | 14.730 | Contract Day: | 1 |
| Temperature Base: | 60 | Contract Hour: | 9 |

| Day | Relative Density | Heating Value Wet | Heating Value Dry | Heating Value As Del | CO2 | N2 | C1 | C2 | C3 | IC4 | NC4 | IC5 | NC5 | C6 | C7 | C8 | C9 | C10 | Wobbe | CCT |
|-----|------------------|-------------------|-------------------|----------------------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-----|
| 1 | 0.7161 | 1170.5 | 1191.2 | 1191.1 | 0.991 | 3.083 | 70.576 | 22.684 | 2.293 | 0.100 | 0.234 | 0.017 | 0.021 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1407.69 | |
| 2 | 0.7138 | 1167.3 | 1188.0 | 1187.8 | 0.988 | 3.063 | 71.008 | 22.304 | 2.278 | 0.098 | 0.225 | 0.017 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1406.18 | |
| 3 | 0.7075 | 1162.6 | 1183.2 | 1183.0 | 0.992 | 2.753 | 72.304 | 21.327 | 2.289 | 0.094 | 0.210 | 0.015 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1406.65 | |
| 4 | 0.7089 | 1161.9 | 1182.5 | 1182.3 | 0.988 | 2.929 | 72.041 | 21.393 | 2.289 | 0.100 | 0.223 | 0.017 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1404.48 | |
| 5 | 0.7021 | 1151.0 | 1171.4 | 1171.2 | 0.931 | 3.049 | 73.402 | 19.929 | 2.315 | 0.103 | 0.233 | 0.018 | 0.021 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1397.88 | |
| 6 | 0.7092 | 1160.9 | 1181.4 | 1181.3 | 0.998 | 3.007 | 72.031 | 21.272 | 2.323 | 0.102 | 0.230 | 0.017 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1402.94 | |
| 7 | 0.7128 | 1161.6 | 1182.2 | 1182.0 | 0.985 | 3.325 | 71.233 | 21.757 | 2.334 | 0.100 | 0.230 | 0.017 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1400.19 | |
| 8 | 0.7104 | 1163.5 | 1184.1 | 1183.9 | 0.999 | 2.958 | 71.788 | 21.561 | 2.333 | 0.099 | 0.225 | 0.017 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1404.90 | |
| 9 | 0.7089 | 1159.7 | 1180.2 | 1180.0 | 0.982 | 3.078 | 71.972 | 21.346 | 2.272 | 0.096 | 0.218 | 0.016 | 0.019 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1401.73 | |
| 10 | 0.7096 | 1161.9 | 1182.5 | 1182.2 | 1.012 | 2.960 | 71.998 | 21.318 | 2.340 | 0.103 | 0.231 | 0.018 | 0.021 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1403.76 | |
| 11 | 0.7105 | 1163.7 | 1184.3 | 1183.9 | 1.026 | 2.921 | 71.842 | 21.461 | 2.389 | 0.099 | 0.224 | 0.017 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1404.94 | |
| 12 | 0.7121 | 1166.0 | 1186.6 | 1186.4 | 1.015 | 2.951 | 71.535 | 21.723 | 2.410 | 0.102 | 0.227 | 0.017 | 0.021 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1406.11 | |
| 13 | 0.7116 | 1164.8 | 1185.4 | 1185.2 | 1.007 | 2.978 | 71.637 | 21.611 | 2.397 | 0.101 | 0.230 | 0.018 | 0.021 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1405.30 | |
| 14 | 0.7102 | 1164.3 | 1184.9 | 1184.7 | 0.987 | 2.912 | 71.813 | 21.599 | 2.334 | 0.098 | 0.221 | 0.017 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1406.02 | |
| 15 | 0.7098 | 1164.1 | 1184.7 | 1184.5 | 0.987 | 2.888 | 71.950 | 21.425 | 2.387 | 0.100 | 0.225 | 0.017 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1406.15 | |
| 16 | 0.7101 | 1163.0 | 1183.6 | 1183.4 | 1.014 | 2.939 | 71.915 | 21.387 | 2.380 | 0.100 | 0.228 | 0.017 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1404.59 | |
| 17 | 0.7206 | 1160.4 | 1180.9 | 1180.7 | 0.981 | 4.130 | 70.578 | 20.599 | 3.299 | 0.118 | 0.257 | 0.018 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1391.27 | |
| 18 | 0.7161 | 1162.7 | 1183.2 | 1183.0 | 0.993 | 3.553 | 71.069 | 21.174 | 2.823 | 0.110 | 0.242 | 0.017 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1398.35 | |
| 19 | 0.7092 | 1160.7 | 1181.2 | 1181.1 | 1.011 | 3.003 | 72.173 | 20.996 | 2.436 | 0.105 | 0.237 | 0.018 | 0.021 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1402.63 | |
| 20 | 0.7100 | 1161.0 | 1181.6 | 1181.4 | 1.019 | 3.040 | 71.957 | 21.223 | 2.392 | 0.101 | 0.231 | 0.018 | 0.021 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1402.32 | |
| 21 | 0.7096 | 1160.7 | 1181.2 | 1181.0 | 1.023 | 3.021 | 72.015 | 21.203 | 2.371 | 0.101 | 0.229 | 0.017 | 0.021 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1402.24 | |
| 22 | 0.7098 | 1164.3 | 1184.9 | 1184.7 | 1.032 | 2.806 | 72.106 | 21.223 | 2.466 | 0.101 | 0.228 | 0.018 | 0.021 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1406.41 | |
| 23 | 0.7134 | 1169.2 | 1189.9 | 1189.7 | 1.035 | 2.837 | 71.838 | 21.036 | 2.841 | 0.113 | 0.257 | 0.020 | 0.023 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1408.82 | |
| 24 | 0.7121 | 1167.0 | 1187.7 | 1187.5 | 0.963 | 2.959 | 71.806 | 21.220 | 2.649 | 0.110 | 0.250 | 0.019 | 0.023 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1407.43 | |
| 25 | 0.7125 | 1166.0 | 1186.7 | 1186.4 | 1.033 | 2.948 | 71.713 | 21.340 | 2.569 | 0.109 | 0.247 | 0.019 | 0.022 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1405.87 | |
| 26 | 0.7097 | 1161.5 | 1182.1 | 1181.8 | 1.022 | 2.978 | 71.994 | 21.276 | 2.366 | 0.099 | 0.228 | 0.017 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1403.19 | |
| 27 | 0.7218 | 1163.0 | 1183.6 | 1183.3 | 0.991 | 4.075 | 70.323 | 20.909 | 3.291 | 0.119 | 0.255 | 0.017 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1393.23 | |
| 28 | 0.7202 | 1167.9 | 1188.6 | 1188.4 | 0.993 | 3.613 | 70.564 | 21.320 | 3.086 | 0.122 | 0.261 | 0.019 | 0.021 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1400.72 | |
| 29 | 0.7262 | 1166.8 | 1187.5 | 1187.2 | 0.981 | 4.256 | 69.829 | 20.858 | 3.624 | 0.131 | 0.279 | 0.019 | 0.022 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1393.68 | |
| 30 | 0.7132 | 1165.4 | 1186.0 | 1185.8 | 0.996 | 3.108 | 71.615 | 21.235 | 2.628 | 0.115 | 0.259 | 0.020 | 0.024 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1404.42 | |
| Avg | 0.7123 | 1163.0 | 1184.0 | 1183.8 | 0.999 | 3.137 | 71.621 | 21.324 | 2.540 | 0.105 | 0.236 | 0.018 | 0.021 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1403.00 | |

Source Daily Summary

April 2023

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

| | | | |
|--------------------------|--------|-----------------------|---|
| Pressure Base: | 14.730 | Contract Day: | 1 |
| Temperature Base: | 60 | Contract Hour: | 9 |

| Day | Relative Density | Heating Value Wet | Heating Value Dry | Heating Value As Del | CO2 | N2 | C1 | C2 | C3 | IC4 | NC4 | IC5 | NC5 | C6 | C7 | C8 | C9 | C10 | Wobbe | CCT |
|-----|------------------|-------------------|-------------------|----------------------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-----|
| 1 | 0.7475 | 1168.4 | 1189.1 | 1188.9 | 0.918 | 6.260 | 66.904 | 20.108 | 5.249 | 0.172 | 0.353 | 0.017 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1375.29 | |
| 2 | 0.7483 | 1165.2 | 1185.8 | 1185.6 | 0.901 | 6.555 | 66.720 | 19.940 | 5.349 | 0.166 | 0.335 | 0.016 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1370.80 | |
| 3 | 0.7496 | 1167.6 | 1188.3 | 1188.1 | 0.904 | 6.521 | 66.533 | 20.089 | 5.429 | 0.164 | 0.330 | 0.015 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1372.53 | |
| 4 | 0.7436 | 1163.1 | 1183.7 | 1183.5 | 0.909 | 6.235 | 67.319 | 20.005 | 5.058 | 0.149 | 0.297 | 0.014 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1372.62 | |
| 5 | 0.7425 | 1160.3 | 1180.9 | 1180.6 | 0.903 | 6.301 | 67.538 | 19.726 | 5.061 | 0.148 | 0.295 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1370.45 | |
| 6 | 0.7452 | 1165.6 | 1186.3 | 1186.0 | 0.915 | 6.214 | 67.194 | 20.013 | 5.147 | 0.159 | 0.326 | 0.015 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1374.20 | |
| 7 | 0.7478 | 1165.2 | 1185.9 | 1185.6 | 0.905 | 6.495 | 66.812 | 19.931 | 5.332 | 0.163 | 0.332 | 0.015 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1371.37 | |
| 8 | 0.7476 | 1162.6 | 1183.2 | 1183.0 | 0.909 | 6.636 | 66.804 | 19.794 | 5.343 | 0.161 | 0.324 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1368.42 | |
| 9 | 0.7554 | 1174.2 | 1195.0 | 1194.7 | 0.906 | 6.661 | 65.878 | 20.126 | 5.824 | 0.187 | 0.382 | 0.017 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1374.91 | |
| 10 | 0.7509 | 1167.2 | 1187.8 | 1187.5 | 0.910 | 6.666 | 66.492 | 19.777 | 5.582 | 0.177 | 0.359 | 0.018 | 0.019 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1370.73 | |
| 11 | 0.7534 | 1170.8 | 1191.5 | 1191.1 | 0.908 | 6.680 | 66.162 | 19.908 | 5.773 | 0.181 | 0.352 | 0.018 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1372.74 | |
| 12 | 0.7502 | 1169.9 | 1190.6 | 1190.3 | 0.917 | 6.422 | 66.577 | 19.998 | 5.551 | 0.168 | 0.332 | 0.017 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1374.62 | |
| 13 | 0.7537 | 1171.6 | 1192.3 | 1192.1 | 0.906 | 6.664 | 66.004 | 20.127 | 5.782 | 0.161 | 0.322 | 0.016 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1373.38 | |
| 14 | 0.7563 | 1176.7 | 1197.5 | 1197.3 | 0.903 | 6.596 | 65.704 | 20.315 | 5.942 | 0.166 | 0.338 | 0.018 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1377.03 | |
| 15 | 0.7586 | 1180.0 | 1200.9 | 1200.7 | 0.901 | 6.613 | 65.419 | 20.427 | 6.068 | 0.175 | 0.357 | 0.019 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1378.83 | |
| 16 | 0.7539 | 1171.8 | 1192.5 | 1192.2 | 0.904 | 6.671 | 65.967 | 20.171 | 5.762 | 0.164 | 0.325 | 0.017 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1373.47 | |
| 17 | 0.7533 | 1171.3 | 1192.0 | 1191.7 | 0.906 | 6.644 | 66.022 | 20.200 | 5.719 | 0.161 | 0.315 | 0.016 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1373.40 | |
| 18 | 0.7521 | 1168.3 | 1189.0 | 1188.7 | 0.896 | 6.726 | 66.132 | 20.104 | 5.656 | 0.155 | 0.302 | 0.015 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1371.02 | |
| 19 | 0.7511 | 1166.5 | 1187.1 | 1186.9 | 0.906 | 6.734 | 66.270 | 19.973 | 5.661 | 0.143 | 0.284 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.73 | |
| 20 | 0.7534 | 1170.5 | 1191.2 | 1190.9 | 0.907 | 6.702 | 65.984 | 20.161 | 5.752 | 0.158 | 0.306 | 0.015 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1372.36 | |
| 21 | 0.7530 | 1169.5 | 1190.2 | 1190.0 | 0.908 | 6.717 | 66.042 | 20.118 | 5.720 | 0.157 | 0.307 | 0.015 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1371.63 | |
| 22 | 0.7503 | 1165.4 | 1186.0 | 1185.8 | 0.902 | 6.730 | 66.350 | 19.999 | 5.550 | 0.151 | 0.289 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.21 | |
| 23 | 0.7514 | 1167.2 | 1187.9 | 1187.6 | 0.899 | 6.725 | 66.202 | 20.098 | 5.582 | 0.163 | 0.302 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1370.38 | |
| 24 | 0.7503 | 1164.0 | 1184.6 | 1184.4 | 0.898 | 6.815 | 66.341 | 19.945 | 5.516 | 0.160 | 0.297 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1367.66 | |
| 25 | 0.7509 | 1165.5 | 1186.1 | 1185.8 | 0.900 | 6.779 | 66.284 | 19.999 | 5.538 | 0.163 | 0.307 | 0.015 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1368.80 | |
| 26 | 0.7521 | 1169.2 | 1189.9 | 1189.6 | 0.901 | 6.672 | 66.159 | 20.116 | 5.645 | 0.163 | 0.313 | 0.015 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1371.98 | |
| 27 | 0.7518 | 1168.4 | 1189.0 | 1188.8 | 0.901 | 6.690 | 66.200 | 20.089 | 5.607 | 0.166 | 0.317 | 0.015 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1371.33 | |
| 28 | 0.7505 | 1166.0 | 1186.7 | 1186.4 | 0.909 | 6.695 | 66.363 | 20.030 | 5.489 | 0.168 | 0.316 | 0.015 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.82 | |
| 29 | 0.7531 | 1170.8 | 1191.5 | 1191.2 | 0.909 | 6.651 | 66.051 | 20.179 | 5.686 | 0.169 | 0.323 | 0.016 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1372.99 | |
| 30 | 0.7510 | 1166.6 | 1187.3 | 1187.0 | 0.911 | 6.702 | 66.316 | 20.010 | 5.554 | 0.165 | 0.312 | 0.015 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1370.07 | |
| Avg | 0.7510 | 1168.0 | 1189.0 | 1188.7 | 0.906 | 6.606 | 66.358 | 20.049 | 5.564 | 0.163 | 0.322 | 0.016 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1372.06 | |

Gas Composition and Properties

Effective October 1, 2021

Attachment B
Page 8 of 24

Source #: 2501030
Name: LIGNITE PLANT

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

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

Sample

Date: 10/01/2021 Type:

Tech: Wayne Sampson

Pressure: Temp.:

Gauge: H2O:

Atm. Pressure: H2S:

Remarks:

Analysis

Date: Instrument:

Tech: Cylinder:

Remarks:

Source Daily Summary

April 2023

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

| | | | |
|--------------------------|--------|-----------------------|---|
| Pressure Base: | 14.730 | Contract Day: | 1 |
| Temperature Base: | 60 | Contract Hour: | 9 |

| Day | Relative Density | Heating Value Wet | Heating Value Dry | Heating Value As Del | CO2 | N2 | C1 | C2 | C3 | IC4 | NC4 | IC5 | NC5 | C6 | C7 | C8 | C9 | C10 | Wobbe | CCT |
|-----|------------------|-------------------|-------------------|----------------------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-----|
| 1 | 0.7191 | 1171.1 | 1191.9 | 1191.7 | 0.986 | 3.339 | 69.850 | 23.218 | 2.239 | 0.099 | 0.233 | 0.017 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1405.49 | |
| 2 | 0.7190 | 1170.6 | 1191.3 | 1191.1 | 0.985 | 3.364 | 69.870 | 23.166 | 2.248 | 0.098 | 0.231 | 0.017 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1404.93 | |
| 3 | 0.7170 | 1165.7 | 1186.3 | 1186.1 | 0.979 | 3.478 | 70.237 | 22.718 | 2.219 | 0.099 | 0.232 | 0.017 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1401.02 | |
| 4 | 0.7161 | 1162.3 | 1182.9 | 1182.7 | 0.997 | 3.575 | 70.440 | 22.381 | 2.237 | 0.100 | 0.231 | 0.017 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1397.82 | |
| 5 | 0.7151 | 1161.4 | 1181.9 | 1181.7 | 0.981 | 3.559 | 70.679 | 22.140 | 2.267 | 0.102 | 0.234 | 0.017 | 0.021 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1397.72 | |
| 6 | 0.7169 | 1164.3 | 1184.9 | 1184.7 | 0.974 | 3.560 | 70.295 | 22.540 | 2.258 | 0.101 | 0.235 | 0.017 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1399.50 | |
| 7 | 0.7144 | 1159.3 | 1179.9 | 1179.7 | 0.967 | 3.639 | 70.865 | 21.816 | 2.336 | 0.101 | 0.237 | 0.017 | 0.021 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1395.92 | |
| 8 | 0.7156 | 1160.2 | 1180.8 | 1180.6 | 0.958 | 3.711 | 70.543 | 22.133 | 2.282 | 0.101 | 0.235 | 0.017 | 0.021 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1395.85 | |
| 9 | 0.7150 | 1159.2 | 1179.7 | 1179.5 | 0.964 | 3.710 | 70.721 | 21.900 | 2.327 | 0.101 | 0.237 | 0.018 | 0.021 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1395.13 | |
| 10 | 0.7153 | 1160.1 | 1180.6 | 1180.4 | 0.968 | 3.673 | 70.600 | 22.134 | 2.251 | 0.101 | 0.234 | 0.018 | 0.021 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1396.00 | |
| 11 | 0.7159 | 1160.6 | 1181.2 | 1181.0 | 0.972 | 3.693 | 70.557 | 22.064 | 2.336 | 0.103 | 0.237 | 0.017 | 0.021 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1395.99 | |
| 12 | 0.7150 | 1159.6 | 1180.1 | 1179.9 | 0.980 | 3.666 | 70.696 | 21.989 | 2.294 | 0.102 | 0.236 | 0.017 | 0.021 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1395.62 | |
| 13 | 0.7150 | 1160.1 | 1180.6 | 1180.4 | 0.962 | 3.660 | 70.729 | 21.948 | 2.318 | 0.103 | 0.241 | 0.018 | 0.021 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1396.21 | |
| 14 | 0.7147 | 1162.5 | 1183.1 | 1182.9 | 0.934 | 3.521 | 70.810 | 22.012 | 2.341 | 0.103 | 0.241 | 0.018 | 0.021 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1399.51 | |
| 15 | 0.7163 | 1165.1 | 1185.7 | 1185.5 | 0.927 | 3.528 | 70.696 | 21.924 | 2.521 | 0.109 | 0.254 | 0.019 | 0.022 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1401.00 | |
| 16 | 0.7167 | 1165.0 | 1185.7 | 1185.5 | 0.945 | 3.541 | 70.704 | 21.831 | 2.560 | 0.113 | 0.263 | 0.020 | 0.023 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1400.53 | |
| 17 | 0.7152 | 1160.5 | 1181.1 | 1180.9 | 0.963 | 3.649 | 70.912 | 21.595 | 2.461 | 0.112 | 0.264 | 0.020 | 0.024 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1396.55 | |
| 18 | 0.7153 | 1159.5 | 1180.1 | 1179.9 | 0.965 | 3.718 | 70.873 | 21.566 | 2.460 | 0.111 | 0.262 | 0.020 | 0.024 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1395.24 | |
| 19 | 0.7127 | 1154.1 | 1174.6 | 1174.4 | 0.968 | 3.795 | 71.427 | 20.908 | 2.483 | 0.112 | 0.264 | 0.020 | 0.024 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1391.31 | |
| 20 | 0.7153 | 1158.5 | 1179.0 | 1178.8 | 0.991 | 3.744 | 70.851 | 21.578 | 2.422 | 0.110 | 0.261 | 0.020 | 0.024 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1393.95 | |
| 21 | 0.7160 | 1157.4 | 1177.9 | 1177.7 | 1.003 | 3.854 | 70.709 | 21.595 | 2.429 | 0.109 | 0.258 | 0.019 | 0.023 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1392.01 | |
| 22 | 0.7157 | 1158.1 | 1178.6 | 1178.4 | 1.049 | 3.708 | 70.969 | 21.333 | 2.514 | 0.112 | 0.268 | 0.021 | 0.026 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1393.19 | |
| 23 | 0.7268 | 1176.7 | 1197.5 | 1197.3 | 1.067 | 3.589 | 69.983 | 21.259 | 3.606 | 0.129 | 0.312 | 0.025 | 0.031 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1404.62 | |
| 24 | 0.7161 | 1158.6 | 1179.1 | 1178.9 | 0.984 | 3.818 | 70.815 | 21.411 | 2.553 | 0.113 | 0.265 | 0.019 | 0.023 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1393.38 | |
| 25 | 0.7153 | 1156.8 | 1177.2 | 1177.0 | 0.987 | 3.852 | 70.894 | 21.378 | 2.465 | 0.112 | 0.267 | 0.020 | 0.024 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1391.91 | |
| 26 | 0.7166 | 1158.7 | 1179.2 | 1179.0 | 0.987 | 3.851 | 70.622 | 21.674 | 2.445 | 0.111 | 0.267 | 0.020 | 0.024 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1393.05 | |
| 27 | 0.7143 | 1157.0 | 1177.5 | 1177.3 | 0.978 | 3.759 | 71.106 | 21.267 | 2.467 | 0.112 | 0.267 | 0.020 | 0.024 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1393.16 | |
| 28 | 0.7120 | 1159.4 | 1180.0 | 1179.7 | 0.972 | 3.398 | 71.530 | 21.316 | 2.371 | 0.109 | 0.258 | 0.021 | 0.025 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1398.41 | |
| 29 | 0.7125 | 1159.6 | 1180.2 | 1179.9 | 0.981 | 3.419 | 71.455 | 21.339 | 2.388 | 0.111 | 0.261 | 0.021 | 0.025 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1398.15 | |
| 30 | 0.7143 | 1158.1 | 1178.6 | 1178.3 | 0.985 | 3.676 | 71.100 | 21.385 | 2.438 | 0.111 | 0.261 | 0.020 | 0.024 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1394.53 | |
| Avg | 0.7158 | 1161.0 | 1181.9 | 1181.7 | 0.979 | 3.635 | 70.718 | 21.851 | 2.418 | 0.107 | 0.251 | 0.019 | 0.023 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1396.92 | |

Source Daily Summary

April 2023

Source #: 043
Name: BISMARCK STN-CLEVELAND STN

| | | | |
|--------------------------|--------|-----------------------|---|
| Pressure Base: | 14.730 | Contract Day: | 1 |
| Temperature Base: | 60 | Contract Hour: | 9 |

| Day | Relative Density | Heating Value Wet | Heating Value Dry | Heating Value As Del | CO2 | N2 | C1 | C2 | C3 | IC4 | NC4 | IC5 | NC5 | C6 | C7 | C8 | C9 | C10 | Wobbe | CCT |
|-----|------------------|-------------------|-------------------|----------------------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-----|
| 1 | 0.7452 | 1168.7 | 1189.4 | 1188.4 | 0.873 | 6.092 | 67.352 | 19.886 | 5.236 | 0.169 | 0.358 | 0.016 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1377.80 | |
| 2 | 0.7473 | 1168.2 | 1188.9 | 1187.9 | 0.855 | 6.345 | 67.005 | 19.842 | 5.401 | 0.169 | 0.353 | 0.015 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1375.31 | |
| 3 | 0.7476 | 1168.5 | 1189.2 | 1188.3 | 0.855 | 6.360 | 66.939 | 19.855 | 5.462 | 0.163 | 0.337 | 0.015 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1375.35 | |
| 4 | 0.7417 | 1163.1 | 1183.7 | 1182.8 | 0.863 | 6.120 | 67.671 | 19.826 | 5.047 | 0.146 | 0.301 | 0.013 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1374.47 | |
| 5 | 0.7417 | 1163.7 | 1184.3 | 1183.4 | 0.862 | 6.082 | 67.705 | 19.814 | 5.061 | 0.146 | 0.303 | 0.013 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1375.21 | |
| 6 | 0.7433 | 1166.8 | 1187.5 | 1186.6 | 0.860 | 6.050 | 67.594 | 19.784 | 5.190 | 0.158 | 0.334 | 0.015 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1377.35 | |
| 7 | 0.7370 | 1158.8 | 1179.4 | 1178.5 | 0.867 | 5.938 | 68.580 | 19.189 | 4.933 | 0.150 | 0.316 | 0.013 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1373.72 | |
| 8 | 0.7334 | 1152.2 | 1172.6 | 1171.8 | 0.873 | 5.985 | 69.155 | 18.702 | 4.823 | 0.143 | 0.295 | 0.012 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.34 | |
| 9 | 0.7457 | 1166.7 | 1187.4 | 1186.5 | 0.865 | 6.264 | 67.385 | 19.419 | 5.493 | 0.171 | 0.360 | 0.016 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1375.02 | |
| 10 | 0.7491 | 1170.5 | 1191.2 | 1190.3 | 0.863 | 6.361 | 66.873 | 19.762 | 5.559 | 0.177 | 0.370 | 0.017 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1376.37 | |
| 11 | 0.7496 | 1169.4 | 1190.1 | 1189.0 | 0.859 | 6.492 | 66.646 | 19.703 | 5.733 | 0.175 | 0.347 | 0.016 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1374.54 | |
| 12 | 0.7461 | 1170.5 | 1191.3 | 1190.3 | 0.874 | 6.059 | 67.264 | 19.886 | 5.390 | 0.162 | 0.332 | 0.016 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1379.25 | |
| 13 | 0.7516 | 1173.3 | 1194.1 | 1193.2 | 0.858 | 6.436 | 66.449 | 19.935 | 5.799 | 0.159 | 0.332 | 0.016 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1377.33 | |
| 14 | 0.7498 | 1173.3 | 1194.1 | 1193.2 | 0.864 | 6.257 | 66.785 | 19.838 | 5.738 | 0.156 | 0.329 | 0.016 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1378.99 | |
| 15 | 0.7528 | 1177.9 | 1198.8 | 1197.9 | 0.858 | 6.262 | 66.415 | 20.009 | 5.906 | 0.166 | 0.349 | 0.018 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.68 | |
| 16 | 0.7476 | 1170.1 | 1190.8 | 1189.9 | 0.866 | 6.246 | 67.081 | 19.696 | 5.600 | 0.157 | 0.321 | 0.016 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1377.18 | |
| 17 | 0.7458 | 1168.5 | 1189.2 | 1188.5 | 0.866 | 6.166 | 67.357 | 19.563 | 5.542 | 0.154 | 0.311 | 0.015 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1377.08 | |
| 18 | 0.7420 | 1161.8 | 1182.3 | 1181.5 | 0.864 | 6.230 | 67.821 | 19.318 | 5.313 | 0.142 | 0.286 | 0.013 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1372.57 | |
| 19 | 0.7463 | 1165.5 | 1186.2 | 1185.3 | 0.858 | 6.413 | 67.132 | 19.592 | 5.559 | 0.138 | 0.284 | 0.012 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1373.07 | |
| 20 | 0.7510 | 1172.1 | 1192.8 | 1191.9 | 0.855 | 6.462 | 66.448 | 19.988 | 5.754 | 0.155 | 0.310 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1376.42 | |
| 21 | 0.7486 | 1169.2 | 1189.9 | 1189.0 | 0.856 | 6.404 | 66.796 | 19.846 | 5.617 | 0.150 | 0.303 | 0.014 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1375.31 | |
| 22 | 0.7448 | 1163.7 | 1184.3 | 1183.4 | 0.859 | 6.378 | 67.309 | 19.608 | 5.388 | 0.145 | 0.287 | 0.013 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1372.33 | |
| 23 | 0.7500 | 1169.7 | 1190.4 | 1189.2 | 0.853 | 6.519 | 66.545 | 19.942 | 5.638 | 0.162 | 0.313 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1374.48 | |
| 24 | 0.7505 | 1169.3 | 1190.0 | 1189.1 | 0.850 | 6.588 | 66.488 | 19.903 | 5.661 | 0.165 | 0.318 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1373.63 | |
| 25 | 0.7501 | 1169.3 | 1190.0 | 1189.2 | 0.853 | 6.549 | 66.544 | 19.902 | 5.647 | 0.160 | 0.317 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1373.96 | |
| 26 | 0.7512 | 1171.8 | 1192.6 | 1191.3 | 0.856 | 6.488 | 66.444 | 19.967 | 5.730 | 0.162 | 0.324 | 0.015 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1375.99 | |
| 27 | 0.7505 | 1170.6 | 1191.3 | 1189.9 | 0.855 | 6.502 | 66.520 | 19.936 | 5.669 | 0.164 | 0.324 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1375.15 | |
| 28 | 0.7491 | 1168.5 | 1189.1 | 1187.8 | 0.857 | 6.501 | 66.688 | 19.880 | 5.557 | 0.166 | 0.323 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1373.90 | |
| 29 | 0.7523 | 1174.0 | 1194.8 | 1193.6 | 0.855 | 6.459 | 66.297 | 20.092 | 5.765 | 0.169 | 0.334 | 0.015 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1377.56 | |
| 30 | 0.7505 | 1170.8 | 1191.5 | 1190.3 | 0.856 | 6.493 | 66.516 | 19.952 | 5.662 | 0.166 | 0.325 | 0.015 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1375.33 | |
| Avg | 0.7471 | 1168.0 | 1188.9 | 1187.9 | 0.860 | 6.317 | 67.060 | 19.755 | 5.496 | 0.159 | 0.323 | 0.015 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1375.52 | |

Source Daily Summary

April 2023

Source #: 063
Name: CLEVELAND STN-MAPLETON

| | | | |
|--------------------------|--------|-----------------------|---|
| Pressure Base: | 14.730 | Contract Day: | 1 |
| Temperature Base: | 60 | Contract Hour: | 9 |

| Day | Relative Density | Heating Value Wet | Heating Value Dry | Heating Value As Del | CO2 | N2 | C1 | C2 | C3 | IC4 | NC4 | IC5 | NC5 | C6 | C7 | C8 | C9 | C10 | Wobbe | CCT |
|-----|------------------|-------------------|-------------------|----------------------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-----|
| 1 | 0.7447 | 1164.2 | 1184.8 | 1184.6 | 0.911 | 6.268 | 67.336 | 19.779 | 5.182 | 0.164 | 0.329 | 0.016 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1372.89 | |
| 2 | 0.7482 | 1170.2 | 1190.9 | 1190.8 | 0.904 | 6.238 | 66.846 | 20.132 | 5.313 | 0.175 | 0.357 | 0.017 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1376.78 | |
| 3 | 0.7480 | 1165.8 | 1186.5 | 1186.4 | 0.891 | 6.501 | 66.813 | 19.890 | 5.375 | 0.167 | 0.332 | 0.015 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1371.88 | |
| 4 | 0.7476 | 1167.1 | 1187.8 | 1187.7 | 0.895 | 6.377 | 66.902 | 19.930 | 5.380 | 0.163 | 0.324 | 0.015 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1373.80 | |
| 5 | 0.7427 | 1163.1 | 1183.7 | 1183.6 | 0.902 | 6.160 | 67.494 | 19.935 | 5.039 | 0.149 | 0.294 | 0.014 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1373.48 | |
| 6 | 0.7420 | 1161.0 | 1181.5 | 1181.4 | 0.891 | 6.238 | 67.640 | 19.697 | 5.066 | 0.148 | 0.293 | 0.014 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1371.64 | |
| 7 | 0.7454 | 1167.3 | 1188.0 | 1187.9 | 0.902 | 6.152 | 67.230 | 19.987 | 5.205 | 0.162 | 0.331 | 0.016 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1376.02 | |
| 8 | 0.7348 | 1153.4 | 1173.9 | 1173.8 | 0.907 | 5.993 | 68.873 | 18.985 | 4.785 | 0.144 | 0.289 | 0.013 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.44 | |
| 9 | 0.7346 | 1151.6 | 1172.0 | 1171.9 | 0.912 | 6.080 | 68.900 | 18.868 | 4.785 | 0.144 | 0.287 | 0.013 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1367.44 | |
| 10 | 0.7480 | 1169.5 | 1190.2 | 1190.1 | 0.906 | 6.252 | 67.002 | 19.857 | 5.415 | 0.175 | 0.357 | 0.018 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1376.23 | |
| 11 | 0.7515 | 1168.5 | 1189.2 | 1189.1 | 0.896 | 6.656 | 66.463 | 19.749 | 5.671 | 0.179 | 0.353 | 0.017 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1371.85 | |
| 12 | 0.7437 | 1165.3 | 1185.9 | 1185.8 | 0.892 | 6.128 | 67.652 | 19.538 | 5.263 | 0.167 | 0.324 | 0.017 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1375.32 | |
| 13 | 0.7493 | 1167.7 | 1188.4 | 1188.3 | 0.902 | 6.494 | 66.709 | 19.826 | 5.567 | 0.159 | 0.312 | 0.015 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1372.86 | |
| 14 | 0.7541 | 1173.9 | 1194.7 | 1194.2 | 0.894 | 6.573 | 66.036 | 20.128 | 5.849 | 0.162 | 0.325 | 0.017 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1375.80 | |
| 15 | 0.7499 | 1171.9 | 1192.6 | 1192.1 | 0.903 | 6.291 | 66.751 | 19.872 | 5.672 | 0.158 | 0.320 | 0.017 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1377.25 | |
| 16 | 0.7528 | 1174.9 | 1195.7 | 1195.0 | 0.895 | 6.392 | 66.318 | 20.039 | 5.830 | 0.163 | 0.328 | 0.017 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1378.13 | |
| 17 | 0.7494 | 1171.0 | 1191.7 | 1191.1 | 0.904 | 6.302 | 66.815 | 19.828 | 5.632 | 0.163 | 0.322 | 0.017 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1376.61 | |
| 18 | 0.7452 | 1164.9 | 1185.5 | 1184.9 | 0.905 | 6.273 | 67.352 | 19.591 | 5.416 | 0.148 | 0.288 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1373.36 | |
| 19 | 0.7449 | 1163.3 | 1183.9 | 1183.2 | 0.900 | 6.353 | 67.347 | 19.556 | 5.388 | 0.146 | 0.284 | 0.014 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1371.72 | |
| 20 | 0.7495 | 1167.5 | 1188.2 | 1187.3 | 0.894 | 6.533 | 66.617 | 19.861 | 5.646 | 0.142 | 0.282 | 0.013 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1372.52 | |
| 21 | 0.7507 | 1169.2 | 1189.9 | 1189.0 | 0.895 | 6.545 | 66.436 | 19.999 | 5.643 | 0.156 | 0.297 | 0.015 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1373.34 | |
| 22 | 0.7495 | 1167.6 | 1188.3 | 1187.4 | 0.893 | 6.531 | 66.614 | 19.899 | 5.585 | 0.153 | 0.296 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1372.59 | |
| 23 | 0.7478 | 1164.9 | 1185.6 | 1185.4 | 0.894 | 6.538 | 66.812 | 19.821 | 5.472 | 0.151 | 0.286 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1370.97 | |
| 24 | 0.7516 | 1169.3 | 1190.0 | 1189.9 | 0.889 | 6.631 | 66.253 | 20.106 | 5.619 | 0.166 | 0.306 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1372.64 | |
| 25 | 0.7513 | 1167.8 | 1188.4 | 1188.3 | 0.886 | 6.703 | 66.293 | 19.998 | 5.624 | 0.163 | 0.305 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1371.10 | |
| 26 | 0.7513 | 1168.3 | 1189.0 | 1188.9 | 0.889 | 6.663 | 66.307 | 20.011 | 5.632 | 0.161 | 0.307 | 0.015 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1371.79 | |
| 27 | 0.7526 | 1171.4 | 1192.1 | 1192.0 | 0.892 | 6.595 | 66.165 | 20.120 | 5.718 | 0.164 | 0.314 | 0.016 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1374.17 | |
| 28 | 0.7517 | 1169.7 | 1190.4 | 1190.3 | 0.891 | 6.614 | 66.272 | 20.068 | 5.649 | 0.164 | 0.312 | 0.015 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1373.02 | |
| 29 | 0.7508 | 1168.3 | 1189.0 | 1188.9 | 0.894 | 6.611 | 66.381 | 20.048 | 5.548 | 0.170 | 0.317 | 0.016 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1372.19 | |
| 30 | 0.7532 | 1172.7 | 1193.5 | 1193.4 | 0.892 | 6.572 | 66.102 | 20.163 | 5.744 | 0.171 | 0.324 | 0.016 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1375.17 | |
| Avg | 0.7479 | 1167.0 | 1187.7 | 1187.4 | 0.897 | 6.409 | 66.891 | 19.843 | 5.457 | 0.160 | 0.313 | 0.015 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1373.40 | |

Source Daily Summary

April 2023

Source #: 061
Name: CLEVELAND STN-GRAFTON BDR

| | | | |
|--------------------------|--------|-----------------------|---|
| Pressure Base: | 14.730 | Contract Day: | 1 |
| Temperature Base: | 60 | Contract Hour: | 9 |

| Day | Relative Density | Heating Value Wet | Heating Value Dry | Heating Value As Del | CO2 | N2 | C1 | C2 | C3 | IC4 | NC4 | IC5 | NC5 | C6 | C7 | C8 | C9 | C10 | Wobbe | CCT |
|-----|------------------|-------------------|-------------------|----------------------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-----|
| 1 | 0.7449 | 1164.3 | 1184.9 | 1184.8 | 0.911 | 6.274 | 67.319 | 19.777 | 5.191 | 0.165 | 0.330 | 0.016 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1372.90 | |
| 2 | 0.7480 | 1169.9 | 1190.6 | 1190.5 | 0.905 | 6.236 | 66.874 | 20.122 | 5.298 | 0.174 | 0.356 | 0.017 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1376.61 | |
| 3 | 0.7480 | 1165.8 | 1186.4 | 1186.3 | 0.892 | 6.503 | 66.812 | 19.896 | 5.368 | 0.167 | 0.332 | 0.015 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1371.81 | |
| 4 | 0.7483 | 1168.0 | 1188.7 | 1188.6 | 0.895 | 6.394 | 66.806 | 19.955 | 5.428 | 0.165 | 0.328 | 0.015 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1374.13 | |
| 5 | 0.7426 | 1162.9 | 1183.5 | 1183.5 | 0.904 | 6.157 | 67.506 | 19.933 | 5.031 | 0.149 | 0.294 | 0.014 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1373.40 | |
| 6 | 0.7422 | 1161.1 | 1181.7 | 1181.6 | 0.892 | 6.246 | 67.612 | 19.704 | 5.077 | 0.148 | 0.294 | 0.014 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1371.66 | |
| 7 | 0.7452 | 1166.7 | 1187.4 | 1187.3 | 0.903 | 6.166 | 67.243 | 19.980 | 5.190 | 0.161 | 0.327 | 0.015 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1375.52 | |
| 8 | 0.7351 | 1153.7 | 1174.2 | 1174.1 | 0.907 | 6.007 | 68.823 | 19.002 | 4.801 | 0.145 | 0.290 | 0.013 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.47 | |
| 9 | 0.7361 | 1154.0 | 1174.4 | 1174.1 | 0.912 | 6.074 | 68.692 | 19.008 | 4.841 | 0.148 | 0.298 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1368.90 | |
| 10 | 0.7395 | 1154.8 | 1175.2 | 1175.2 | 0.911 | 6.349 | 67.936 | 19.450 | 4.928 | 0.139 | 0.266 | 0.011 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1366.68 | |
| 11 | 0.7452 | 1157.0 | 1177.5 | 1177.4 | 0.899 | 6.767 | 67.102 | 19.487 | 5.295 | 0.150 | 0.279 | 0.011 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1364.00 | |
| 12 | 0.7426 | 1162.9 | 1183.5 | 1183.5 | 0.902 | 6.156 | 67.652 | 19.667 | 5.143 | 0.156 | 0.296 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1373.55 | |
| 13 | 0.7467 | 1162.9 | 1183.5 | 1183.4 | 0.904 | 6.542 | 66.974 | 19.710 | 5.413 | 0.148 | 0.285 | 0.013 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.59 | |
| 14 | 0.7511 | 1168.7 | 1189.4 | 1189.2 | 0.897 | 6.614 | 66.342 | 20.006 | 5.669 | 0.150 | 0.295 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1372.35 | |
| 15 | 0.7497 | 1171.6 | 1192.4 | 1192.1 | 0.903 | 6.296 | 66.769 | 19.855 | 5.666 | 0.158 | 0.319 | 0.017 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1377.04 | |
| 16 | 0.7535 | 1175.9 | 1196.7 | 1196.3 | 0.895 | 6.399 | 66.224 | 20.078 | 5.871 | 0.165 | 0.333 | 0.018 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1378.64 | |
| 17 | 0.7502 | 1172.1 | 1192.8 | 1192.4 | 0.903 | 6.312 | 66.709 | 19.876 | 5.676 | 0.165 | 0.325 | 0.017 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1377.16 | |
| 18 | 0.7459 | 1165.8 | 1186.5 | 1186.1 | 0.905 | 6.287 | 67.248 | 19.637 | 5.455 | 0.149 | 0.290 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1373.75 | |
| 19 | 0.7451 | 1163.5 | 1184.2 | 1183.6 | 0.901 | 6.358 | 67.316 | 19.568 | 5.399 | 0.146 | 0.285 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1371.81 | |
| 20 | 0.7496 | 1167.6 | 1188.3 | 1187.6 | 0.894 | 6.537 | 66.608 | 19.860 | 5.650 | 0.142 | 0.282 | 0.013 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1372.52 | |
| 21 | 0.7507 | 1169.1 | 1189.8 | 1189.2 | 0.895 | 6.551 | 66.432 | 19.995 | 5.645 | 0.155 | 0.297 | 0.015 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1373.24 | |
| 22 | 0.7497 | 1167.9 | 1188.6 | 1188.0 | 0.894 | 6.538 | 66.580 | 19.914 | 5.596 | 0.154 | 0.297 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1372.67 | |
| 23 | 0.7480 | 1165.4 | 1186.0 | 1185.9 | 0.895 | 6.526 | 66.796 | 19.833 | 5.487 | 0.150 | 0.287 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1371.33 | |
| 24 | 0.7518 | 1169.7 | 1190.4 | 1190.3 | 0.890 | 6.629 | 66.223 | 20.122 | 5.633 | 0.166 | 0.307 | 0.015 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1372.87 | |
| 25 | 0.7515 | 1168.0 | 1188.7 | 1188.6 | 0.886 | 6.705 | 66.263 | 20.011 | 5.634 | 0.165 | 0.307 | 0.015 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1371.23 | |
| 26 | 0.7511 | 1167.8 | 1188.5 | 1188.4 | 0.890 | 6.672 | 66.335 | 19.989 | 5.619 | 0.161 | 0.306 | 0.015 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1371.39 | |
| 27 | 0.7525 | 1171.2 | 1191.9 | 1191.8 | 0.893 | 6.600 | 66.172 | 20.112 | 5.714 | 0.164 | 0.314 | 0.016 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1373.99 | |
| 28 | 0.7515 | 1169.2 | 1189.9 | 1189.7 | 0.893 | 6.625 | 66.298 | 20.047 | 5.633 | 0.164 | 0.311 | 0.015 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1372.58 | |
| 29 | 0.7507 | 1168.0 | 1188.7 | 1188.6 | 0.894 | 6.616 | 66.401 | 20.030 | 5.543 | 0.169 | 0.316 | 0.015 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1371.95 | |
| 30 | 0.7528 | 1171.8 | 1192.6 | 1192.5 | 0.892 | 6.585 | 66.157 | 20.125 | 5.718 | 0.169 | 0.321 | 0.016 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1374.52 | |
| Avg | 0.7473 | 1166.0 | 1186.6 | 1186.4 | 0.899 | 6.424 | 66.941 | 19.825 | 5.420 | 0.157 | 0.306 | 0.015 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1372.57 | |

Source Daily Summary

April 2023

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

| | | | |
|--------------------------|--------|-----------------------|---|
| Pressure Base: | 14.730 | Contract Day: | 1 |
| Temperature Base: | 60 | Contract Hour: | 9 |

| Day | Relative Density | Heating Value Wet | Heating Value Dry | Heating Value As Del | CO2 | N2 | C1 | C2 | C3 | IC4 | NC4 | IC5 | NC5 | C6 | C7 | C8 | C9 | C10 | Wobbe | CCT |
|-----|------------------|-------------------|-------------------|----------------------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-----|
| 1 | 0.6578 | 1079.8 | 1098.9 | 1098.6 | 1.040 | 3.061 | 80.423 | 14.571 | 0.837 | 0.022 | 0.042 | 0.002 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1354.96 | |
| 2 | 0.6540 | 1075.5 | 1094.5 | 1094.1 | 1.017 | 3.005 | 81.202 | 13.859 | 0.847 | 0.023 | 0.044 | 0.002 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1353.40 | |
| 3 | 0.6782 | 1102.0 | 1121.5 | 1121.2 | 0.945 | 3.764 | 77.694 | 15.200 | 2.186 | 0.064 | 0.133 | 0.006 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1362.21 | |
| 4 | 0.6565 | 1079.7 | 1098.8 | 1098.5 | 0.963 | 3.057 | 80.990 | 13.750 | 1.142 | 0.031 | 0.062 | 0.003 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1356.35 | |
| 5 | 0.6468 | 1070.2 | 1089.2 | 1088.9 | 0.969 | 2.717 | 82.431 | 13.193 | 0.641 | 0.017 | 0.030 | 0.002 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1354.30 | |
| 6 | 0.6473 | 1069.5 | 1088.5 | 1088.1 | 0.975 | 2.801 | 82.347 | 13.151 | 0.675 | 0.016 | 0.032 | 0.002 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1352.87 | |
| 7 | 0.6454 | 1068.6 | 1087.5 | 1087.2 | 0.937 | 2.735 | 82.860 | 12.613 | 0.791 | 0.021 | 0.040 | 0.002 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1353.67 | |
| 8 | 0.6444 | 1066.8 | 1085.6 | 1085.3 | 0.968 | 2.704 | 82.935 | 12.690 | 0.654 | 0.016 | 0.031 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1352.43 | |
| 9 | 0.6451 | 1067.6 | 1086.5 | 1086.1 | 0.972 | 2.715 | 82.784 | 12.817 | 0.662 | 0.016 | 0.031 | 0.001 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1352.74 | |
| 10 | 0.6461 | 1068.5 | 1087.4 | 1086.9 | 0.982 | 2.735 | 82.617 | 12.937 | 0.679 | 0.016 | 0.031 | 0.001 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1352.87 | |
| 11 | 0.7158 | 1137.5 | 1157.6 | 1156.5 | 0.899 | 5.194 | 71.981 | 17.481 | 4.061 | 0.121 | 0.239 | 0.011 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1368.60 | |
| 12 | 0.6508 | 1074.4 | 1093.4 | 1093.0 | 0.979 | 2.817 | 81.924 | 13.326 | 0.863 | 0.030 | 0.053 | 0.004 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1355.47 | |
| 13 | 0.6496 | 1071.8 | 1090.8 | 1090.4 | 0.986 | 2.854 | 82.063 | 13.218 | 0.812 | 0.021 | 0.041 | 0.002 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1353.40 | |
| 14 | 0.6535 | 1073.9 | 1092.9 | 1092.6 | 1.025 | 3.043 | 81.327 | 13.661 | 0.871 | 0.023 | 0.045 | 0.002 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1351.89 | |
| 15 | 0.6513 | 1072.1 | 1091.1 | 1090.8 | 1.021 | 2.948 | 81.723 | 13.436 | 0.805 | 0.022 | 0.042 | 0.002 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1351.98 | |
| 16 | 0.6528 | 1072.0 | 1091.0 | 1090.6 | 1.046 | 3.053 | 81.411 | 13.631 | 0.794 | 0.021 | 0.040 | 0.002 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1350.37 | |
| 17 | 0.6446 | 1064.9 | 1083.7 | 1083.3 | 0.982 | 2.821 | 82.913 | 12.471 | 0.747 | 0.022 | 0.040 | 0.002 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1349.81 | |
| 18 | 0.6468 | 1065.3 | 1084.2 | 1083.8 | 1.019 | 2.947 | 82.489 | 12.715 | 0.762 | 0.021 | 0.041 | 0.002 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1348.04 | |
| 19 | 0.6445 | 1065.3 | 1084.2 | 1083.8 | 0.979 | 2.786 | 83.028 | 12.394 | 0.753 | 0.020 | 0.038 | 0.002 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1350.49 | |
| 20 | 0.6444 | 1064.9 | 1083.7 | 1083.4 | 1.005 | 2.766 | 82.956 | 12.500 | 0.719 | 0.018 | 0.033 | 0.002 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1350.03 | |
| 21 | 0.6444 | 1064.5 | 1083.4 | 1083.1 | 0.993 | 2.800 | 82.954 | 12.513 | 0.690 | 0.016 | 0.030 | 0.002 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1349.64 | |
| 22 | 0.6442 | 1064.3 | 1083.2 | 1082.8 | 0.996 | 2.792 | 83.037 | 12.427 | 0.694 | 0.018 | 0.033 | 0.002 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1349.53 | |
| 23 | 0.7022 | 1121.6 | 1141.4 | 1141.1 | 0.919 | 4.864 | 74.019 | 16.463 | 3.433 | 0.098 | 0.187 | 0.008 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1362.42 | |
| 24 | 0.7380 | 1156.7 | 1177.2 | 1176.8 | 0.864 | 6.162 | 68.436 | 18.989 | 5.089 | 0.148 | 0.286 | 0.013 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1370.43 | |
| 25 | 0.7481 | 1167.0 | 1187.7 | 1187.2 | 0.853 | 6.494 | 66.861 | 19.743 | 5.549 | 0.159 | 0.312 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1373.21 | |
| 26 | 0.7510 | 1171.6 | 1192.3 | 1191.8 | 0.856 | 6.492 | 66.458 | 19.957 | 5.724 | 0.161 | 0.322 | 0.015 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1375.80 | |
| 27 | 0.7506 | 1170.8 | 1191.5 | 1191.1 | 0.855 | 6.502 | 66.504 | 19.943 | 5.676 | 0.165 | 0.325 | 0.015 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1375.28 | |
| 28 | 0.7490 | 1168.3 | 1189.0 | 1188.5 | 0.857 | 6.502 | 66.702 | 19.870 | 5.555 | 0.164 | 0.321 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1373.79 | |
| 29 | 0.7524 | 1174.2 | 1195.0 | 1194.3 | 0.855 | 6.458 | 66.287 | 20.096 | 5.768 | 0.170 | 0.335 | 0.016 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1377.65 | |
| 30 | 0.7510 | 1171.6 | 1192.3 | 1191.8 | 0.856 | 6.485 | 66.465 | 19.980 | 5.688 | 0.167 | 0.328 | 0.015 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1375.87 | |
| Avg | 0.6769 | 1098.0 | 1117.5 | 1117.1 | 0.954 | 3.869 | 77.861 | 14.986 | 2.139 | 0.061 | 0.119 | 0.006 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1358.65 | |

Source Daily Summary

April 2023

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

| | | | |
|--------------------------|--------|-----------------------|---|
| Pressure Base: | 14.730 | Contract Day: | 1 |
| Temperature Base: | 60 | Contract Hour: | 9 |

| Day | Relative Density | Heating Value Wet | Heating Value Dry | Heating Value As Del | CO2 | N2 | C1 | C2 | C3 | IC4 | NC4 | IC5 | NC5 | C6 | C7 | C8 | C9 | C10 | Wobbe | CCT |
|-----|------------------|-------------------|-------------------|----------------------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| 1 | 0.6616 | 1098.3 | 1117.7 | 1117.5 | 0.733 | 2.764 | 79.159 | 16.633 | 0.668 | 0.016 | 0.027 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1373.94 |
| 2 | 0.6503 | 1074.1 | 1093.1 | 1092.9 | 0.984 | 2.789 | 81.773 | 13.703 | 0.698 | 0.019 | 0.034 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1355.51 |
| 3 | 0.6467 | 1071.2 | 1090.1 | 1089.9 | 0.949 | 2.686 | 82.423 | 13.239 | 0.654 | 0.018 | 0.032 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1355.52 |
| 4 | 0.6826 | 1151.2 | 1171.5 | 1171.4 | 0.034 | 2.587 | 73.915 | 23.018 | 0.432 | 0.007 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1417.92 |
| 5 | 0.6836 | 1153.2 | 1173.6 | 1173.4 | 0.000 | 2.609 | 73.656 | 23.303 | 0.417 | 0.007 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1419.41 |
| 6 | 0.6849 | 1155.5 | 1176.0 | 1175.7 | 0.000 | 2.591 | 73.405 | 23.558 | 0.431 | 0.007 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1420.92 |
| 7 | 0.6781 | 1141.1 | 1161.3 | 1161.1 | 0.158 | 2.580 | 75.007 | 21.771 | 0.465 | 0.008 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1410.20 |
| 8 | 0.6467 | 1074.4 | 1093.4 | 1093.2 | 0.864 | 2.622 | 82.300 | 13.556 | 0.615 | 0.016 | 0.028 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1359.50 |
| 9 | 0.6450 | 1069.0 | 1088.0 | 1087.7 | 0.947 | 2.657 | 82.771 | 12.929 | 0.649 | 0.017 | 0.030 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1354.63 |
| 10 | 0.6460 | 1069.8 | 1088.8 | 1088.6 | 0.952 | 2.686 | 82.618 | 13.016 | 0.676 | 0.018 | 0.033 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1354.70 |
| 11 | 0.6483 | 1072.9 | 1091.9 | 1091.7 | 0.953 | 2.720 | 82.222 | 13.301 | 0.737 | 0.024 | 0.040 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1356.11 |
| 12 | 0.6508 | 1076.0 | 1095.1 | 1094.9 | 0.959 | 2.755 | 81.772 | 13.650 | 0.802 | 0.023 | 0.040 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1357.46 |
| 13 | 0.6492 | 1071.3 | 1090.3 | 1090.0 | 0.973 | 2.872 | 82.136 | 13.111 | 0.840 | 0.025 | 0.042 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1353.11 |
| 14 | 0.6537 | 1075.0 | 1094.0 | 1093.8 | 1.006 | 3.021 | 81.221 | 13.846 | 0.840 | 0.023 | 0.042 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1353.11 |
| 15 | 0.6514 | 1073.4 | 1092.4 | 1092.1 | 1.004 | 2.907 | 81.655 | 13.579 | 0.792 | 0.022 | 0.041 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1353.46 |
| 16 | 0.6500 | 1070.8 | 1089.7 | 1089.5 | 1.006 | 2.935 | 81.874 | 13.382 | 0.746 | 0.020 | 0.037 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1351.59 |
| 17 | 0.6459 | 1068.1 | 1087.0 | 1086.8 | 0.964 | 2.773 | 82.720 | 12.729 | 0.747 | 0.025 | 0.041 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1352.51 |
| 18 | 0.6463 | 1066.8 | 1085.7 | 1085.4 | 0.987 | 2.849 | 82.651 | 12.707 | 0.744 | 0.022 | 0.039 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1350.51 |
| 19 | 0.6438 | 1065.9 | 1084.7 | 1084.5 | 0.953 | 2.722 | 83.093 | 12.473 | 0.705 | 0.020 | 0.034 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1351.96 |
| 20 | 0.6450 | 1067.1 | 1086.0 | 1085.7 | 0.989 | 2.712 | 82.873 | 12.660 | 0.714 | 0.019 | 0.033 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1352.19 |
| 21 | 0.6443 | 1065.9 | 1084.7 | 1084.4 | 0.973 | 2.739 | 82.959 | 12.611 | 0.672 | 0.016 | 0.030 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1351.44 |
| 22 | 0.6438 | 1065.4 | 1084.3 | 1084.0 | 0.973 | 2.717 | 83.074 | 12.512 | 0.673 | 0.017 | 0.032 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1351.40 |
| 23 | 0.6420 | 1062.8 | 1081.6 | 1081.4 | 0.955 | 2.735 | 83.426 | 12.157 | 0.677 | 0.018 | 0.032 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1349.98 |
| 24 | 0.6400 | 1062.8 | 1081.7 | 1081.4 | 0.906 | 2.626 | 83.816 | 11.903 | 0.692 | 0.020 | 0.036 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1352.04 |
| 25 | 0.6394 | 1063.3 | 1082.1 | 1081.9 | 0.906 | 2.544 | 83.923 | 11.906 | 0.665 | 0.021 | 0.035 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1353.21 |
| 26 | 0.6433 | 1066.0 | 1084.9 | 1084.6 | 0.948 | 2.683 | 83.198 | 12.398 | 0.716 | 0.020 | 0.037 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1352.54 |
| 27 | 0.6454 | 1067.8 | 1086.7 | 1086.4 | 0.962 | 2.747 | 82.797 | 12.700 | 0.734 | 0.021 | 0.038 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1352.63 |
| 28 | 0.6470 | 1069.7 | 1088.6 | 1088.4 | 0.968 | 2.769 | 82.529 | 12.896 | 0.780 | 0.021 | 0.037 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1353.41 |
| 29 | 0.6437 | 1067.2 | 1086.1 | 1085.9 | 0.943 | 2.641 | 83.292 | 12.226 | 0.810 | 0.029 | 0.054 | 0.002 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1353.81 |
| 30 | 0.6427 | 1064.4 | 1083.3 | 1083.1 | 0.967 | 2.689 | 83.375 | 12.167 | 0.743 | 0.021 | 0.038 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1351.23 |
| Avg | 0.6514 | 1081.0 | 1099.8 | 1099.6 | 0.830 | 2.724 | 81.388 | 14.321 | 0.685 | 0.019 | 0.033 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1362.53 |

Source Daily Summary

April 2023

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

| | | | |
|--------------------------|--------|-----------------------|---|
| Pressure Base: | 14.730 | Contract Day: | 1 |
| Temperature Base: | 60 | Contract Hour: | 9 |

| Day | Relative Density | Heating Value Wet | Heating Value Dry | Heating Value As Del | CO2 | N2 | C1 | C2 | C3 | IC4 | NC4 | IC5 | NC5 | C6 | C7 | C8 | C9 | C10 | Wobbe | CCT |
|-----|------------------|-------------------|-------------------|----------------------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-----|
| 1 | 0.6807 | 1126.0 | 1145.9 | 1145.5 | 0.689 | 2.928 | 76.222 | 18.530 | 1.498 | 0.045 | 0.078 | 0.005 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1388.96 | |
| 2 | 0.6786 | 1118.3 | 1138.1 | 1137.8 | 0.889 | 2.899 | 77.057 | 17.360 | 1.612 | 0.058 | 0.109 | 0.008 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.56 | |
| 3 | 0.6758 | 1114.1 | 1133.9 | 1133.5 | 0.922 | 2.835 | 77.682 | 16.760 | 1.626 | 0.057 | 0.104 | 0.008 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1379.28 | |
| 4 | 0.6707 | 1104.1 | 1123.7 | 1123.1 | 0.953 | 2.923 | 78.597 | 15.852 | 1.511 | 0.054 | 0.096 | 0.007 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1372.02 | |
| 5 | 0.6705 | 1104.7 | 1124.2 | 1123.9 | 0.946 | 2.876 | 78.573 | 15.991 | 1.462 | 0.051 | 0.089 | 0.006 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1372.98 | |
| 6 | 0.6707 | 1105.6 | 1125.2 | 1124.8 | 0.947 | 2.840 | 78.522 | 16.088 | 1.449 | 0.051 | 0.088 | 0.007 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1373.91 | |
| 7 | 0.6710 | 1106.5 | 1126.1 | 1125.7 | 0.949 | 2.808 | 78.491 | 16.131 | 1.463 | 0.052 | 0.091 | 0.007 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1374.73 | |
| 8 | 0.6707 | 1107.0 | 1126.6 | 1126.2 | 0.925 | 2.794 | 78.481 | 16.213 | 1.434 | 0.051 | 0.088 | 0.007 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1375.55 | |
| 9 | 0.6698 | 1104.5 | 1124.1 | 1123.7 | 0.996 | 2.747 | 78.808 | 15.820 | 1.467 | 0.054 | 0.094 | 0.007 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1373.46 | |
| 10 | 0.6703 | 1104.2 | 1123.7 | 1123.4 | 1.042 | 2.737 | 78.858 | 15.650 | 1.539 | 0.058 | 0.101 | 0.008 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1372.62 | |
| 11 | 0.6669 | 1098.2 | 1117.6 | 1117.3 | 1.149 | 2.627 | 79.665 | 14.864 | 1.508 | 0.062 | 0.108 | 0.009 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1368.55 | |
| 12 | 0.6675 | 1098.7 | 1118.2 | 1117.8 | 1.162 | 2.627 | 79.600 | 14.881 | 1.542 | 0.062 | 0.109 | 0.009 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1368.63 | |
| 13 | 0.6653 | 1096.6 | 1116.0 | 1115.6 | 1.078 | 2.685 | 79.709 | 15.001 | 1.368 | 0.052 | 0.093 | 0.007 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1368.18 | |
| 14 | 0.6647 | 1096.4 | 1115.9 | 1115.5 | 1.022 | 2.723 | 79.664 | 15.152 | 1.292 | 0.049 | 0.085 | 0.007 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1368.62 | |
| 15 | 0.6650 | 1095.9 | 1115.3 | 1114.9 | 1.016 | 2.787 | 79.589 | 15.192 | 1.270 | 0.047 | 0.082 | 0.008 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1367.71 | |
| 16 | 0.6643 | 1093.6 | 1113.0 | 1112.6 | 1.057 | 2.800 | 79.718 | 15.035 | 1.252 | 0.045 | 0.081 | 0.006 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1365.57 | |
| 17 | 0.6627 | 1091.4 | 1110.7 | 1110.3 | 1.030 | 2.831 | 79.931 | 14.879 | 1.201 | 0.042 | 0.075 | 0.005 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1364.38 | |
| 18 | 0.6646 | 1093.6 | 1113.0 | 1112.6 | 1.045 | 2.848 | 79.651 | 15.057 | 1.259 | 0.046 | 0.081 | 0.006 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1365.24 | |
| 19 | 0.6631 | 1092.6 | 1112.0 | 1111.6 | 0.992 | 2.853 | 79.754 | 15.117 | 1.163 | 0.040 | 0.071 | 0.005 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1365.47 | |
| 20 | 0.6639 | 1094.3 | 1113.6 | 1113.2 | 1.017 | 2.785 | 79.702 | 15.152 | 1.216 | 0.042 | 0.075 | 0.005 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1366.77 | |
| 21 | 0.6645 | 1095.4 | 1114.8 | 1114.3 | 1.011 | 2.784 | 79.559 | 15.310 | 1.211 | 0.041 | 0.073 | 0.005 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1367.53 | |
| 22 | 0.6701 | 1104.7 | 1124.2 | 1123.8 | 0.874 | 2.951 | 78.421 | 16.257 | 1.369 | 0.044 | 0.075 | 0.005 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1373.39 | |
| 23 | 0.6690 | 1104.0 | 1123.5 | 1123.1 | 0.796 | 3.010 | 78.507 | 16.232 | 1.335 | 0.041 | 0.070 | 0.005 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1373.60 | |
| 24 | 0.6638 | 1096.6 | 1116.0 | 1115.6 | 0.772 | 3.009 | 79.389 | 15.518 | 1.206 | 0.036 | 0.062 | 0.004 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.77 | |
| 25 | 0.6591 | 1089.7 | 1109.0 | 1108.7 | 0.763 | 3.001 | 80.279 | 14.700 | 1.155 | 0.035 | 0.060 | 0.004 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1365.99 | |
| 26 | 0.6559 | 1084.3 | 1103.5 | 1103.2 | 0.728 | 3.075 | 80.839 | 14.156 | 1.104 | 0.033 | 0.056 | 0.004 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1362.64 | |
| 27 | 0.6582 | 1087.5 | 1106.7 | 1106.4 | 0.702 | 3.141 | 80.423 | 14.463 | 1.169 | 0.034 | 0.056 | 0.006 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1364.16 | |
| 28 | 0.6611 | 1091.2 | 1110.6 | 1110.2 | 0.975 | 2.774 | 80.230 | 14.669 | 1.228 | 0.041 | 0.072 | 0.005 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1365.82 | |
| 29 | 0.6613 | 1091.2 | 1110.5 | 1110.1 | 1.051 | 2.676 | 80.533 | 14.160 | 1.437 | 0.049 | 0.082 | 0.006 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1365.56 | |
| 30 | 0.6557 | 1084.6 | 1103.8 | 1103.4 | 0.969 | 2.678 | 81.321 | 13.716 | 1.190 | 0.041 | 0.074 | 0.006 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1363.10 | |
| Avg | 0.6665 | 1099.0 | 1118.6 | 1118.3 | 0.949 | 2.835 | 79.259 | 15.463 | 1.351 | 0.047 | 0.083 | 0.006 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1370.19 | |

Source Daily Summary

April 2023

Source #: 111
Name: LITTLE KNIFE PLANT

| | | | |
|--------------------------|--------|-----------------------|---|
| Pressure Base: | 14.730 | Contract Day: | 1 |
| Temperature Base: | 60 | Contract Hour: | 9 |

| Day | Relative Density | Heating Value Wet | Heating Value Dry | Heating Value As Del | CO2 | N2 | C1 | C2 | C3 | IC4 | NC4 | IC5 | NC5 | C6 | C7 | C8 | C9 | C10 | Wobbe | CCT |
|-----|------------------|-------------------|-------------------|----------------------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|--------|
| 1 | 0.6858 | 1155.7 | 1176.2 | 1174.1 | 0.000 | 2.660 | 73.239 | 23.631 | 0.457 | 0.006 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1420.28 | -26.71 |
| 2 | 0.6857 | 1155.8 | 1176.3 | 1174.3 | 0.000 | 2.642 | 73.250 | 23.653 | 0.442 | 0.005 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1420.53 | -26.78 |
| 3 | 0.6849 | 1154.9 | 1175.3 | 1172.9 | 0.000 | 2.621 | 73.405 | 23.535 | 0.427 | 0.005 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1420.23 | -27.23 |
| 4 | 0.6848 | 1154.2 | 1174.6 | 1172.4 | 0.000 | 2.662 | 73.403 | 23.497 | 0.424 | 0.006 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1419.38 | -27.34 |
| 5 | 0.6857 | 1155.5 | 1176.0 | 1173.9 | 0.000 | 2.662 | 73.227 | 23.672 | 0.426 | 0.006 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1420.15 | -26.87 |
| 6 | 0.6848 | 1154.8 | 1175.2 | 1173.4 | 0.000 | 2.624 | 73.424 | 23.502 | 0.436 | 0.006 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1420.14 | -27.20 |
| 7 | 0.6851 | 1155.3 | 1175.8 | 1173.0 | 0.000 | 2.620 | 73.367 | 23.561 | 0.439 | 0.006 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1420.48 | -27.04 |
| 8 | 0.6858 | 1156.1 | 1176.5 | 1174.2 | 0.000 | 2.633 | 73.256 | 23.641 | 0.456 | 0.006 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1420.76 | -26.67 |
| 9 | 0.6870 | 1157.3 | 1177.8 | 1175.7 | 0.000 | 2.675 | 73.222 | 23.415 | 0.667 | 0.007 | 0.013 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1420.95 | -25.29 |
| 10 | 0.6870 | 1157.3 | 1177.8 | 1176.1 | 0.000 | 2.676 | 73.272 | 23.302 | 0.727 | 0.008 | 0.013 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1420.95 | -25.02 |
| 11 | 0.6855 | 1153.2 | 1173.6 | 1172.0 | 0.000 | 2.779 | 73.475 | 23.086 | 0.643 | 0.006 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1417.54 | -26.47 |
| 12 | 0.6853 | 1153.1 | 1173.5 | 1171.8 | 0.000 | 2.770 | 73.493 | 23.112 | 0.605 | 0.007 | 0.012 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1417.58 | -26.59 |
| 13 | 0.6867 | 1155.6 | 1176.1 | 1174.4 | 0.000 | 2.745 | 73.246 | 23.347 | 0.641 | 0.007 | 0.012 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1419.27 | -25.68 |
| 14 | 0.6877 | 1158.6 | 1179.1 | 1177.6 | 0.000 | 2.658 | 73.041 | 23.652 | 0.625 | 0.009 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1421.87 | -24.99 |
| 15 | 0.6883 | 1159.9 | 1180.4 | 1179.0 | 0.000 | 2.638 | 72.957 | 23.730 | 0.650 | 0.009 | 0.016 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1422.81 | -24.53 |
| 16 | 0.6881 | 1159.7 | 1180.3 | 1178.8 | 0.000 | 2.633 | 72.965 | 23.736 | 0.648 | 0.007 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1422.80 | -24.74 |
| 17 | 0.6878 | 1159.2 | 1179.7 | 1178.3 | 0.000 | 2.632 | 73.057 | 23.642 | 0.641 | 0.009 | 0.018 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1422.50 | -24.78 |
| 18 | 0.6885 | 1160.1 | 1180.7 | 1179.2 | 0.000 | 2.642 | 72.901 | 23.792 | 0.640 | 0.009 | 0.016 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1422.92 | -24.47 |
| 19 | 0.6882 | 1159.4 | 1179.9 | 1178.5 | 0.000 | 2.655 | 72.947 | 23.747 | 0.626 | 0.009 | 0.016 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1422.36 | -24.70 |
| 20 | 0.6871 | 1157.9 | 1178.4 | 1176.9 | 0.000 | 2.650 | 73.138 | 23.587 | 0.600 | 0.009 | 0.016 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1421.58 | -25.32 |
| 21 | 0.6871 | 1157.9 | 1178.4 | 1176.9 | 0.000 | 2.641 | 73.158 | 23.560 | 0.623 | 0.007 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1421.70 | -25.38 |
| 22 | 0.6878 | 1159.0 | 1179.6 | 1177.9 | 0.000 | 2.646 | 73.055 | 23.619 | 0.653 | 0.009 | 0.016 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1422.26 | -24.77 |
| 23 | 0.6879 | 1159.2 | 1179.7 | 1178.3 | 0.000 | 2.645 | 73.043 | 23.620 | 0.664 | 0.009 | 0.018 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1422.37 | -24.65 |
| 24 | 0.6901 | 1160.4 | 1181.0 | 1179.5 | 0.000 | 2.777 | 72.546 | 24.011 | 0.642 | 0.008 | 0.015 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1421.61 | -23.98 |
| 25 | 0.6919 | 1162.6 | 1183.2 | 1181.7 | 0.000 | 2.810 | 72.240 | 24.245 | 0.669 | 0.010 | 0.021 | 0.002 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1422.46 | -22.79 |
| 26 | 0.6913 | 1161.5 | 1182.1 | 1180.8 | 0.000 | 2.821 | 72.295 | 24.212 | 0.654 | 0.007 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1421.75 | -23.54 |
| 27 | 0.6914 | 1161.8 | 1182.3 | 1181.0 | 0.000 | 2.814 | 72.332 | 24.149 | 0.677 | 0.009 | 0.017 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1421.95 | -23.25 |
| 28 | 0.6911 | 1161.0 | 1181.5 | 1180.0 | 0.000 | 2.834 | 72.375 | 24.098 | 0.667 | 0.009 | 0.016 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1421.28 | -23.50 |
| 29 | 0.6913 | 1161.5 | 1182.1 | 1180.8 | 0.000 | 2.820 | 72.326 | 24.163 | 0.665 | 0.009 | 0.016 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1421.75 | -23.35 |
| 30 | 0.6901 | 1159.9 | 1180.5 | 1179.0 | 0.000 | 2.803 | 72.554 | 23.974 | 0.642 | 0.009 | 0.016 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1421.05 | -23.99 |
| Avg | 0.6877 | 1158.0 | 1178.5 | 1176.8 | 0.000 | 2.696 | 73.007 | 23.683 | 0.592 | 0.008 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1421.11 | -25.25 |

Source Daily Summary

April 2023

Source #: 351
Name: BADLANDS PLANT

| | | | |
|--------------------------|--------|-----------------------|---|
| Pressure Base: | 14.730 | Contract Day: | 1 |
| Temperature Base: | 60 | Contract Hour: | 9 |

| Day | Relative Density | Heating Value Wet | Heating Value Dry | Heating Value As Del | CO2 | N2 | C1 | C2 | C3 | IC4 | NC4 | IC5 | NC5 | C6 | C7 | C8 | C9 | C10 | Wobbe | CCT |
|-----|------------------|-------------------|-------------------|----------------------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| 1 | 0.5722 | 962.6 | 979.7 | 979.3 | 0.108 | 3.568 | 96.007 | 0.295 | 0.015 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1295.05 |
| 2 | 0.5723 | 962.5 | 979.5 | 979.2 | 0.107 | 3.579 | 95.997 | 0.294 | 0.015 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1294.86 |
| 3 | 0.5723 | 962.6 | 979.6 | 979.3 | 0.108 | 3.573 | 96.002 | 0.294 | 0.015 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1294.95 |
| 4 | 0.5723 | 962.5 | 979.5 | 979.3 | 0.107 | 3.583 | 95.993 | 0.294 | 0.015 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1294.78 |
| 5 | 0.5723 | 962.4 | 979.5 | 979.2 | 0.107 | 3.584 | 95.992 | 0.294 | 0.015 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1294.76 |
| 6 | 0.5723 | 962.4 | 979.4 | 979.1 | 0.107 | 3.589 | 95.988 | 0.293 | 0.015 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1294.68 |
| 7 | 0.5723 | 962.4 | 979.4 | 979.1 | 0.108 | 3.588 | 95.988 | 0.293 | 0.015 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1294.68 |
| 8 | 0.5723 | 962.5 | 979.6 | 979.2 | 0.108 | 3.575 | 96.001 | 0.293 | 0.015 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1294.92 |
| 9 | 0.5758 | 968.1 | 985.2 | 984.8 | 0.124 | 3.539 | 95.373 | 0.880 | 0.070 | 0.010 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1298.41 |
| 10 | 0.6300 | 1038.0 | 1056.4 | 1055.7 | 0.605 | 3.653 | 86.127 | 8.282 | 1.178 | 0.051 | 0.089 | 0.007 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1330.41 |
| 11 | 0.6439 | 1066.2 | 1085.1 | 1084.3 | 0.556 | 3.314 | 83.161 | 11.719 | 1.130 | 0.041 | 0.069 | 0.005 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1352.24 |
| 12 | 0.6219 | 1034.4 | 1052.7 | 1052.2 | 0.529 | 3.222 | 87.326 | 7.983 | 0.838 | 0.035 | 0.057 | 0.004 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1334.67 |
| 13 | 0.5723 | 962.5 | 979.5 | 979.2 | 0.107 | 3.584 | 95.989 | 0.297 | 0.016 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1294.79 |
| 14 | 0.5723 | 962.5 | 979.5 | 979.2 | 0.107 | 3.582 | 95.992 | 0.295 | 0.015 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1294.80 |
| 15 | 0.5723 | 962.5 | 979.5 | 979.2 | 0.107 | 3.581 | 95.994 | 0.295 | 0.015 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1294.82 |
| 16 | 0.5884 | 985.6 | 1003.0 | 1002.5 | 0.267 | 3.446 | 93.218 | 2.738 | 0.290 | 0.017 | 0.020 | 0.002 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1307.45 |
| 17 | 0.6211 | 1029.4 | 1047.6 | 1047.1 | 0.631 | 3.296 | 87.586 | 7.547 | 0.833 | 0.036 | 0.061 | 0.005 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1329.21 |
| 18 | 0.6341 | 1048.9 | 1067.4 | 1067.0 | 0.775 | 3.117 | 85.346 | 9.582 | 1.051 | 0.043 | 0.074 | 0.006 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1340.47 |
| 19 | 0.6344 | 1049.1 | 1067.7 | 1067.4 | 0.785 | 3.113 | 85.231 | 9.758 | 0.990 | 0.041 | 0.071 | 0.006 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1340.52 |
| 20 | 0.6291 | 1040.8 | 1059.2 | 1058.9 | 0.734 | 3.206 | 86.011 | 9.128 | 0.830 | 0.031 | 0.052 | 0.004 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1335.39 |
| 21 | 0.5816 | 975.3 | 992.5 | 992.2 | 0.212 | 3.524 | 94.342 | 1.758 | 0.143 | 0.011 | 0.008 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1301.36 |
| 22 | 0.5723 | 962.5 | 979.6 | 979.3 | 0.107 | 3.577 | 95.998 | 0.295 | 0.015 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1294.90 |
| 23 | 0.5723 | 962.5 | 979.6 | 979.2 | 0.107 | 3.576 | 96.000 | 0.294 | 0.015 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1294.92 |
| 24 | 0.5723 | 962.5 | 979.6 | 979.1 | 0.108 | 3.575 | 96.000 | 0.294 | 0.015 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1294.91 |
| 25 | 0.5722 | 962.6 | 979.7 | 979.3 | 0.108 | 3.566 | 96.009 | 0.295 | 0.015 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1295.09 |
| 26 | 0.5722 | 962.6 | 979.7 | 979.1 | 0.108 | 3.566 | 96.008 | 0.295 | 0.015 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1295.07 |
| 27 | 0.5723 | 962.5 | 979.6 | 979.1 | 0.108 | 3.576 | 95.999 | 0.294 | 0.015 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1294.90 |
| 28 | 0.5723 | 962.6 | 979.6 | 979.1 | 0.109 | 3.572 | 96.002 | 0.294 | 0.015 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1294.95 |
| 29 | 0.6106 | 1014.1 | 1032.1 | 1031.5 | 0.533 | 3.398 | 89.283 | 6.130 | 0.589 | 0.025 | 0.038 | 0.003 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1320.55 |
| 30 | 0.6281 | 1043.3 | 1061.8 | 1061.2 | 0.729 | 2.958 | 86.361 | 8.954 | 0.892 | 0.036 | 0.061 | 0.005 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1339.74 |
| Avg | 0.5900 | 987.0 | 1004.8 | 1004.3 | 0.281 | 3.473 | 92.911 | 2.992 | 0.304 | 0.017 | 0.020 | 0.002 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1307.94 |

April-23

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 | |
|------------|-----------|--------|--------|-----------|--------|--------|----------------|------------|-----------|
| 4/1/2023 | 4/2/2023 | 1,312 | 1,431 | 1090.7 | 2,888 | 3,176 | 1098.9 | 1096.338 | 4/1/2023 |
| 4/2/2023 | 4/3/2023 | 1,290 | 1,404 | 1088.1 | 2,427 | 2,654 | 1094.5 | 1092.279 | 4/2/2023 |
| 4/3/2023 | 4/4/2023 | 1,286 | 1,399 | 1087.7 | 4,081 | 4,625 | 1121.5 | 1113.401 | 4/3/2023 |
| 4/4/2023 | 4/5/2023 | 2,118 | 2,302 | 1086.4 | 5,280 | 5,808 | 1098.8 | 1095.250 | 4/4/2023 |
| 4/5/2023 | 4/6/2023 | 1,274 | 1,386 | 1087.8 | 4,953 | 5,397 | 1089.2 | 1088.914 | 4/5/2023 |
| 4/6/2023 | 4/7/2023 | 1,254 | 1,360 | 1084.6 | 3,812 | 4,151 | 1088.5 | 1087.535 | 4/6/2023 |
| 4/7/2023 | 4/8/2023 | 1,267 | 1,373 | 1083.7 | 3,291 | 3,584 | 1087.5 | 1086.444 | 4/7/2023 |
| 4/8/2023 | 4/9/2023 | 1,262 | 1,368 | 1083.8 | 2,447 | 2,655 | 1085.6 | 1084.988 | 4/8/2023 |
| 4/9/2023 | 4/10/2023 | 1,258 | 1,365 | 1085.5 | 1,465 | 1,592 | 1086.5 | 1086.038 | 4/9/2023 |
| 4/10/2023 | 4/11/2023 | 1,269 | 1,380 | 1087.5 | 1,068 | 1,161 | 1087.3 | 1087.409 | 4/10/2023 |
| 4/11/2023 | 4/12/2023 | 1,259 | 1,372 | 1089.6 | 490 | 553 | 1137 | 1102.880 | 4/11/2023 |
| 4/12/2023 | 4/13/2023 | 1,262 | 1,377 | 1090.5 | 1,075 | 1,176 | 1094 | 1092.110 | 4/12/2023 |
| 4/13/2023 | 4/14/2023 | 1,259 | 1,370 | 1088.5 | 2,011 | 2,192 | 1090.8 | 1089.914 | 4/13/2023 |
| 4/14/2023 | 4/15/2023 | 1,262 | 1,377 | 1091.2 | 2,509 | 2,742 | 1092.9 | 1092.331 | 4/14/2023 |
| 4/15/2023 | 4/16/2023 | 1,263 | 1,376 | 1089.8 | 2,303 | 2,513 | 1091.1 | 1090.640 | 4/15/2023 |
| 4/16/2023 | 4/17/2023 | 1,245 | 1,348 | 1083.3 | 1,681 | 1,834 | 1091 | 1087.724 | 4/16/2023 |
| 4/17/2023 | 4/18/2023 | 1,243 | 1,346 | 1083.4 | 1,624 | 1,760 | 1083.7 | 1083.570 | 4/17/2023 |
| 4/18/2023 | 4/19/2023 | 1,236 | 1,337 | 1081.1 | 1,762 | 1,910 | 1084.2 | 1082.922 | 4/18/2023 |
| 4/19/2023 | 4/20/2023 | 1,247 | 1,348 | 1081.2 | 1,667 | 1,807 | 1084.2 | 1082.916 | 4/19/2023 |
| 4/20/2023 | 4/21/2023 | 1,280 | 1,385 | 1081.7 | 3,301 | 3,578 | 1083.7 | 1083.141 | 4/20/2023 |
| 4/21/2023 | 4/22/2023 | 1,267 | 1,368 | 1079.8 | 3,585 | 3,883 | 1083.4 | 1082.460 | 4/21/2023 |
| 4/22/2023 | 4/23/2023 | 1,252 | 1,352 | 1079.5 | 2,569 | 2,783 | 1083.2 | 1081.988 | 4/22/2023 |
| 4/23/2023 | 4/24/2023 | 1,244 | 1,341 | 1077.8 | 1,963 | 2,264 | 1141.4 | 1116.729 | 4/23/2023 |
| 4/24/2023 | 4/25/2023 | 1,245 | 1,342 | 1077.8 | 1,863 | 2,197 | 1177.2 | 1137.382 | 4/24/2023 |
| 4/25/2023 | 4/26/2023 | 1,241 | 1,337 | 1077.3 | 1,356 | 1,611 | 1187.7 | 1134.944 | 4/25/2023 |
| 4/26/2023 | 4/27/2023 | 1,231 | 1,332 | 1081.4 | 913 | 1,090 | 1192.7 | 1128.796 | 4/26/2023 |
| 4/27/2023 | 4/28/2023 | 1,260 | 1,365 | 1082.7 | 1,331 | 1,586 | 1191.5 | 1138.591 | 4/27/2023 |
| 4/28/2023 | 4/29/2023 | 1,264 | 1,369 | 1083.2 | 973 | 1,157 | 1189 | 1129.219 | 4/28/2023 |
| 4/29/2023 | 4/30/2023 | 1,253 | 1,355 | 1081.3 | 1,029 | 1,231 | 1195 | 1132.570 | 4/29/2023 |
| 4/30/2023 | 5/1/2023 | 1,235 | 1,334 | 1080.1 | 1,039 | 1,243 | 1193.5 | 1131.913 | 4/30/2023 |
| | | 38,638 | 41,899 | 1084.2333 | 66,756 | 73,913 | 1116.8500 | 1100.7111 | |

Alliance Pipeline

DAILY ANALYSIS --- USA
ND07MD1 --- Hankinson Sales
April 2023

| DAY | Heating Value (BTU/ft3) | Relative Density | C1 Mol% | C2 Mol% | C3 Mol% | IC4 Mol% | NC4 Mol% | IC5 Mol% | NC5 Mol% | C6+ Mol% | N2 Mol% | CO2 Mol% | Hel Mol% |
|--------------------------|-------------------------|------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 1 | 1,147.869 | 0.6547 | 85.1459 | 9.3075 | 3.3943 | 0.3179 | 0.5100 | 0.0548 | 0.0430 | 0.0199 | 0.8386 | 0.3569 | 0.0111 |
| 2 | 1,149.326 | 0.6549 | 85.2510 | 9.1925 | 3.4257 | 0.3321 | 0.5257 | 0.0598 | 0.0495 | 0.0240 | 0.7836 | 0.3456 | 0.0104 |
| 3 | 1,146.429 | 0.6535 | 85.3191 | 9.1702 | 3.4107 | 0.3098 | 0.4911 | 0.0526 | 0.0396 | 0.0190 | 0.8389 | 0.3384 | 0.0106 |
| 4 | 1,149.366 | 0.6555 | 85.0483 | 9.2933 | 3.5227 | 0.3154 | 0.5021 | 0.0528 | 0.0417 | 0.0190 | 0.8674 | 0.3265 | 0.0107 |
| 5 | 1,155.238 | 0.6605 | 84.4908 | 9.3454 | 3.8329 | 0.3382 | 0.5510 | 0.0564 | 0.0455 | 0.0205 | 0.9831 | 0.3266 | 0.0095 |
| 6 | 1,151.679 | 0.6571 | 84.9015 | 9.3369 | 3.5286 | 0.3383 | 0.5621 | 0.0540 | 0.0430 | 0.0201 | 0.8854 | 0.3203 | 0.0098 |
| 7 | 1,151.408 | 0.6561 | 85.0413 | 9.3741 | 3.4315 | 0.3396 | 0.5601 | 0.0566 | 0.0429 | 0.0208 | 0.7982 | 0.3251 | 0.0098 |
| 8 | 1,154.167 | 0.6586 | 84.6903 | 9.4898 | 3.5699 | 0.3428 | 0.5813 | 0.0564 | 0.0428 | 0.0198 | 0.8671 | 0.3301 | 0.0098 |
| 9 | 1,155.599 | 0.6594 | 84.5684 | 9.5784 | 3.6166 | 0.3434 | 0.5792 | 0.0551 | 0.0430 | 0.0197 | 0.8636 | 0.3227 | 0.0100 |
| 10 | 1,156.944 | 0.6602 | 84.5725 | 9.4551 | 3.6724 | 0.3603 | 0.6121 | 0.0595 | 0.0458 | 0.0229 | 0.8780 | 0.3112 | 0.0102 |
| 11 | 1,154.075 | 0.6581 | 84.7705 | 9.5034 | 3.5052 | 0.3497 | 0.5878 | 0.0573 | 0.0425 | 0.0203 | 0.8324 | 0.3207 | 0.0102 |
| 12 | 1,156.635 | 0.6597 | 84.6598 | 9.4573 | 3.5870 | 0.3639 | 0.6445 | 0.0563 | 0.0453 | 0.0208 | 0.8332 | 0.3220 | 0.0099 |
| 13 | 1,159.828 | 0.6625 | 84.3571 | 9.4873 | 3.7351 | 0.3765 | 0.6884 | 0.0575 | 0.0459 | 0.0215 | 0.9033 | 0.3176 | 0.0098 |
| 14 | 1,157.439 | 0.6603 | 84.6136 | 9.4268 | 3.6238 | 0.3706 | 0.6642 | 0.0571 | 0.0441 | 0.0214 | 0.8580 | 0.3105 | 0.0098 |
| 15 | 1,154.401 | 0.6576 | 84.9497 | 9.3466 | 3.4764 | 0.3613 | 0.6283 | 0.0576 | 0.0474 | 0.0226 | 0.7895 | 0.3105 | 0.0101 |
| 16 | 1,155.657 | 0.6594 | 84.7579 | 9.3264 | 3.5806 | 0.3698 | 0.6484 | 0.0575 | 0.0471 | 0.0224 | 0.8606 | 0.3193 | 0.0099 |
| 17 | 1,155.765 | 0.6595 | 84.7781 | 9.2821 | 3.5847 | 0.3727 | 0.6627 | 0.0577 | 0.0477 | 0.0223 | 0.8599 | 0.3222 | 0.0099 |
| 18 | 1,156.466 | 0.6590 | 84.8316 | 9.3368 | 3.5521 | 0.3728 | 0.6549 | 0.0615 | 0.0495 | 0.0230 | 0.8000 | 0.3076 | 0.0102 |
| 19 | 1,156.310 | 0.6599 | 84.6905 | 9.3470 | 3.6080 | 0.3691 | 0.6609 | 0.0577 | 0.0455 | 0.0213 | 0.8665 | 0.3235 | 0.0101 |
| 20 | 1,156.993 | 0.6602 | 84.6597 | 9.3704 | 3.6160 | 0.3722 | 0.6618 | 0.0595 | 0.0473 | 0.0232 | 0.8580 | 0.3217 | 0.0101 |
| 21 | 1,155.529 | 0.6597 | 84.6756 | 9.3618 | 3.5944 | 0.3643 | 0.6523 | 0.0560 | 0.0451 | 0.0208 | 0.8924 | 0.3276 | 0.0097 |
| 22 | 1,154.354 | 0.6582 | 84.8678 | 9.3388 | 3.5206 | 0.3592 | 0.6333 | 0.0559 | 0.0447 | 0.0202 | 0.8225 | 0.3271 | 0.0099 |
| 23 | 1,154.229 | 0.6579 | 84.9345 | 9.3077 | 3.5003 | 0.3620 | 0.6363 | 0.0576 | 0.0453 | 0.0198 | 0.7973 | 0.3297 | 0.0095 |
| 24 | 1,152.880 | 0.6570 | 85.0668 | 9.2567 | 3.4378 | 0.3611 | 0.6242 | 0.0600 | 0.0468 | 0.0214 | 0.7808 | 0.3347 | 0.0097 |
| 25 | 1,154.128 | 0.6576 | 85.0180 | 9.2567 | 3.4912 | 0.3638 | 0.6346 | 0.0590 | 0.0469 | 0.0211 | 0.7691 | 0.3295 | 0.0099 |
| 26 | 1,154.174 | 0.6587 | 84.8802 | 9.2347 | 3.5478 | 0.3632 | 0.6526 | 0.0562 | 0.0454 | 0.0213 | 0.8279 | 0.3607 | 0.0099 |
| 27 | 1,150.507 | 0.6567 | 85.0692 | 9.2479 | 3.3667 | 0.3537 | 0.6241 | 0.0565 | 0.0445 | 0.0223 | 0.8254 | 0.3804 | 0.0091 |
| 28 | 1,148.128 | 0.6550 | 85.1942 | 9.2851 | 3.2760 | 0.3386 | 0.5782 | 0.0568 | 0.0446 | 0.0220 | 0.8197 | 0.3761 | 0.0087 |
| 29 | 1,148.324 | 0.6549 | 85.1916 | 9.3025 | 3.2763 | 0.3376 | 0.5787 | 0.0550 | 0.0435 | 0.0229 | 0.8173 | 0.3658 | 0.0088 |
| 30 | 1,150.644 | 0.6564 | 85.1029 | 9.2643 | 3.3460 | 0.3554 | 0.6132 | 0.0604 | 0.0469 | 0.0239 | 0.8146 | 0.3637 | 0.0085 |
| Volume | 1,153.451 | 0.6579 | 84.8718 | 9.3424 | 3.5201 | 0.3523 | 0.6064 | 0.0570 | 0.0451 | 0.0213 | 0.8410 | 0.3326 | 0.0099 |
| Weight Avg Energy | 1,153.460 | 0.6579 | 84.8712 | 9.3426 | 3.5204 | 0.3524 | 0.6065 | 0.0570 | 0.0451 | 0.0213 | 0.8411 | 0.3326 | 0.0099 |

Alliance Pipeline

DAILY ANALYSIS --- USA
 ND14MD1 --- Milnor Sales
 April 2023

| 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 | 1,148.169 | 0.6549 | 85.1379 | 9.3124 | 3.3986 | 0.3194 | 0.5124 | 0.0554 | 0.0435 | 0.0203 | 0.8317 | 0.3574 | 0.0111 |
| 2 | 1,148.909 | 0.6548 | 85.2418 | 9.2059 | 3.4232 | 0.3287 | 0.5209 | 0.0578 | 0.0470 | 0.0230 | 0.7966 | 0.3446 | 0.0104 |
| 3 | 1,145.917 | 0.6531 | 85.3639 | 9.1428 | 3.4065 | 0.3066 | 0.4850 | 0.0520 | 0.0390 | 0.0186 | 0.8387 | 0.3362 | 0.0106 |
| 4 | 1,150.862 | 0.6568 | 84.9049 | 9.3173 | 3.5916 | 0.3220 | 0.5151 | 0.0542 | 0.0430 | 0.0196 | 0.8935 | 0.3283 | 0.0105 |
| 5 | 1,155.187 | 0.6604 | 84.5158 | 9.3310 | 3.8210 | 0.3399 | 0.5587 | 0.0556 | 0.0451 | 0.0204 | 0.9778 | 0.3252 | 0.0095 |
| 6 | 1,151.290 | 0.6567 | 84.9439 | 9.3436 | 3.4990 | 0.3366 | 0.5581 | 0.0541 | 0.0429 | 0.0200 | 0.8709 | 0.3210 | 0.0098 |
| 7 | 1,152.128 | 0.6565 | 85.0005 | 9.3777 | 3.4532 | 0.3433 | 0.5674 | 0.0582 | 0.0441 | 0.0217 | 0.7988 | 0.3254 | 0.0097 |
| 8 | 1,154.422 | 0.6588 | 84.6551 | 9.5066 | 3.5854 | 0.3425 | 0.5811 | 0.0558 | 0.0423 | 0.0193 | 0.8729 | 0.3292 | 0.0097 |
| 9 | 1,154.764 | 0.6590 | 84.6124 | 9.5416 | 3.5980 | 0.3419 | 0.5763 | 0.0551 | 0.0429 | 0.0196 | 0.8770 | 0.3249 | 0.0104 |
| 10 | 1,157.773 | 0.6606 | 84.5302 | 9.4797 | 3.6895 | 0.3636 | 0.6186 | 0.0603 | 0.0462 | 0.0232 | 0.8735 | 0.3051 | 0.0101 |
| 11 | 1,153.646 | 0.6578 | 84.8016 | 9.4902 | 3.4838 | 0.3494 | 0.5905 | 0.0565 | 0.0423 | 0.0202 | 0.8284 | 0.3269 | 0.0102 |
| 12 | 1,157.297 | 0.6603 | 84.6077 | 9.4360 | 3.6269 | 0.3671 | 0.6575 | 0.0561 | 0.0458 | 0.0211 | 0.8496 | 0.3225 | 0.0098 |
| 13 | 1,159.857 | 0.6625 | 84.3316 | 9.5176 | 3.7287 | 0.3762 | 0.6877 | 0.0573 | 0.0451 | 0.0212 | 0.9073 | 0.3174 | 0.0098 |
| 14 | 1,156.975 | 0.6598 | 84.6857 | 9.3985 | 3.6046 | 0.3692 | 0.6580 | 0.0574 | 0.0448 | 0.0216 | 0.8411 | 0.3094 | 0.0098 |
| 15 | 1,154.283 | 0.6576 | 84.9496 | 9.3441 | 3.4756 | 0.3610 | 0.6282 | 0.0573 | 0.0470 | 0.0224 | 0.7921 | 0.3127 | 0.0101 |
| 16 | 1,156.015 | 0.6595 | 84.7399 | 9.3380 | 3.5839 | 0.3719 | 0.6506 | 0.0581 | 0.0485 | 0.0230 | 0.8586 | 0.3176 | 0.0098 |
| 17 | 1,155.718 | 0.6593 | 84.8066 | 9.2629 | 3.5819 | 0.3737 | 0.6633 | 0.0582 | 0.0477 | 0.0224 | 0.8533 | 0.3200 | 0.0100 |
| 18 | 1,156.185 | 0.6589 | 84.8334 | 9.3455 | 3.5482 | 0.3695 | 0.6505 | 0.0606 | 0.0483 | 0.0226 | 0.7984 | 0.3127 | 0.0102 |
| 19 | 1,156.521 | 0.6602 | 84.6615 | 9.3521 | 3.6180 | 0.3704 | 0.6631 | 0.0580 | 0.0459 | 0.0216 | 0.8737 | 0.3256 | 0.0101 |
| 20 | 1,157.000 | 0.6603 | 84.6509 | 9.3653 | 3.6192 | 0.3720 | 0.6655 | 0.0596 | 0.0471 | 0.0232 | 0.8659 | 0.3213 | 0.0101 |
| 21 | 1,155.309 | 0.6596 | 84.6872 | 9.3639 | 3.5875 | 0.3632 | 0.6490 | 0.0556 | 0.0446 | 0.0204 | 0.8914 | 0.3273 | 0.0098 |
| 22 | 1,154.165 | 0.6581 | 84.9011 | 9.3177 | 3.5143 | 0.3595 | 0.6329 | 0.0563 | 0.0449 | 0.0200 | 0.8167 | 0.3268 | 0.0099 |
| 23 | 1,153.441 | 0.6574 | 85.0230 | 9.2386 | 3.4772 | 0.3631 | 0.6357 | 0.0586 | 0.0467 | 0.0203 | 0.7964 | 0.3310 | 0.0094 |
| 24 | 1,153.313 | 0.6573 | 85.0161 | 9.2874 | 3.4521 | 0.3608 | 0.6260 | 0.0599 | 0.0466 | 0.0214 | 0.7865 | 0.3334 | 0.0098 |
| 25 | 1,154.100 | 0.6576 | 85.0028 | 9.2696 | 3.4896 | 0.3632 | 0.6340 | 0.0588 | 0.0467 | 0.0211 | 0.7721 | 0.3323 | 0.0099 |
| 26 | 1,153.937 | 0.6587 | 84.8958 | 9.2152 | 3.5440 | 0.3633 | 0.6539 | 0.0561 | 0.0454 | 0.0214 | 0.8295 | 0.3655 | 0.0099 |
| 27 | 1,150.207 | 0.6565 | 85.0816 | 9.2564 | 3.3537 | 0.3520 | 0.6188 | 0.0565 | 0.0442 | 0.0223 | 0.8228 | 0.3827 | 0.0091 |
| 28 | 1,147.819 | 0.6547 | 85.2187 | 9.2866 | 3.2617 | 0.3367 | 0.5734 | 0.0566 | 0.0447 | 0.0222 | 0.8183 | 0.3725 | 0.0087 |
| 29 | 1,148.920 | 0.6553 | 85.1557 | 9.3179 | 3.2931 | 0.3401 | 0.5828 | 0.0557 | 0.0436 | 0.0231 | 0.8154 | 0.3638 | 0.0088 |
| 30 | 1,150.060 | 0.6560 | 85.1543 | 9.2353 | 3.3288 | 0.3538 | 0.6105 | 0.0600 | 0.0473 | 0.0238 | 0.8153 | 0.3625 | 0.0085 |
| Volume | 1,153.518 | 0.6580 | 84.8669 | 9.3388 | 3.5273 | 0.3524 | 0.6064 | 0.0570 | 0.0450 | 0.0213 | 0.8436 | 0.3314 | 0.0099 |
| Weight Avg Energy | 1,153.524 | 0.6580 | 84.8662 | 9.3390 | 3.5276 | 0.3524 | 0.6065 | 0.0570 | 0.0450 | 0.0213 | 0.8438 | 0.3313 | 0.0099 |

April-23

ZONE 610

Watford City

Watford City West Border

Watford City East Border

Weighted

| Start Date | End Date | BTU | | | BTU | | | AVG BTU | |
|------------|-----------|-------|-------|-----------|--------|--------|-----------|------------|-----------|
| | | MCF | DK | Zone 25 | MCF | DK | Zone 43 | | |
| 4/1/2023 | 4/2/2023 | 184 | 217 | 1179.6 | 534 | 578 | 1082.9 | 1107.681 | 4/1/2023 |
| 4/2/2023 | 4/3/2023 | 288 | 340 | 1179.6 | 678 | 734 | 1082.9 | 1111.730 | 4/2/2023 |
| 4/3/2023 | 4/4/2023 | 368 | 434 | 1179.6 | 851 | 921 | 1082.9 | 1112.092 | 4/3/2023 |
| 4/4/2023 | 4/5/2023 | 445 | 524 | 1179.6 | 1,068 | 1,156 | 1082.9 | 1111.341 | 4/4/2023 |
| 4/5/2023 | 4/6/2023 | 413 | 488 | 1179.6 | 983 | 1,065 | 1082.9 | 1111.508 | 4/5/2023 |
| 4/6/2023 | 4/7/2023 | 320 | 377 | 1179.6 | 813 | 881 | 1082.9 | 1110.212 | 4/6/2023 |
| 4/7/2023 | 4/8/2023 | 282 | 332 | 1179.6 | 677 | 734 | 1082.9 | 1111.335 | 4/7/2023 |
| 4/8/2023 | 4/9/2023 | 164 | 194 | 1179.6 | 487 | 527 | 1082.9 | 1107.261 | 4/8/2023 |
| 4/9/2023 | 4/10/2023 | 99 | 117 | 1179.6 | 380 | 411 | 1082.9 | 1102.886 | 4/9/2023 |
| 4/10/2023 | 4/11/2023 | 64 | 75 | 1179.6 | 304 | 330 | 1082.9 | 1099.717 | 4/10/2023 |
| 4/11/2023 | 4/12/2023 | 64 | 75 | 1179.6 | 202 | 219 | 1082.9 | 1106.166 | 4/11/2023 |
| 4/12/2023 | 4/13/2023 | 168 | 198 | 1179.6 | 404 | 438 | 1082.9 | 1111.301 | 4/12/2023 |
| 4/13/2023 | 4/14/2023 | 238 | 280 | 1179.6 | 520 | 564 | 1082.9 | 1113.262 | 4/13/2023 |
| 4/14/2023 | 4/15/2023 | 260 | 307 | 1179.6 | 586 | 635 | 1082.9 | 1112.619 | 4/14/2023 |
| 4/15/2023 | 4/16/2023 | 220 | 260 | 1179.6 | 550 | 595 | 1082.9 | 1110.529 | 4/15/2023 |
| 4/16/2023 | 4/17/2023 | 150 | 177 | 1179.6 | 371 | 402 | 1082.9 | 1110.741 | 4/16/2023 |
| 4/17/2023 | 4/18/2023 | 168 | 198 | 1179.6 | 375 | 406 | 1082.9 | 1112.818 | 4/17/2023 |
| 4/18/2023 | 4/19/2023 | 243 | 287 | 1179.6 | 568 | 615 | 1082.9 | 1111.874 | 4/18/2023 |
| 4/19/2023 | 4/20/2023 | 304 | 358 | 1179.6 | 698 | 756 | 1082.9 | 1112.238 | 4/19/2023 |
| 4/20/2023 | 4/21/2023 | 351 | 415 | 1179.6 | 782 | 847 | 1082.9 | 1112.857 | 4/20/2023 |
| 4/21/2023 | 4/22/2023 | 314 | 370 | 1179.6 | 745 | 807 | 1082.9 | 1111.572 | 4/21/2023 |
| 4/22/2023 | 4/23/2023 | 271 | 319 | 1179.6 | 598 | 647 | 1082.9 | 1113.056 | 4/22/2023 |
| 4/23/2023 | 4/24/2023 | 223 | 263 | 1179.6 | 505 | 547 | 1082.9 | 1112.521 | 4/23/2023 |
| 4/24/2023 | 4/25/2023 | 200 | 236 | 1179.6 | 447 | 484 | 1082.9 | 1112.792 | 4/24/2023 |
| 4/25/2023 | 4/26/2023 | 169 | 200 | 1179.6 | 389 | 421 | 1082.9 | 1112.187 | 4/25/2023 |
| 4/26/2023 | 4/27/2023 | 124 | 146 | 1179.6 | 294 | 318 | 1082.9 | 1111.586 | 4/26/2023 |
| 4/27/2023 | 4/28/2023 | 173 | 204 | 1179.6 | 380 | 412 | 1082.9 | 1113.152 | 4/27/2023 |
| 4/28/2023 | 4/29/2023 | 120 | 141 | 1179.6 | 306 | 331 | 1082.9 | 1110.139 | 4/28/2023 |
| 4/29/2023 | 4/30/2023 | 160 | 188 | 1179.6 | 340 | 368 | 1082.9 | 1113.844 | 4/29/2023 |
| 4/30/2023 | 5/1/2023 | 134 | 158 | 1179.6 | 318 | 344 | 1082.9 | 1111.568 | 4/30/2023 |
| | | 6,681 | 7,878 | 1179.6000 | 16,153 | 17,493 | 1082.9000 | 1110.7529 | |

| Tsp | EffDate | EndDate | Device | GasDay | EndDt | BTU | SpecGrav | CriconTherm | WobbeIndex | CO2 | N2 | Methane | Ethane | Propane | iButane | nButane | iPentane | nPentane | Neopentane | C6Plus | Hydrogen | Helium | WaterVapor | TotalSulfur | HydrogenSulfur | Oxygen |
|------|----------------|---------------|--------------------|-----------|-----------|------|----------|-------------|-------------|--------|--------|---------|---------|---------|---------|---------|----------|----------|------------|--------|----------|--------|------------|-------------|----------------|--------|
| NBPL | 2/28/2023 0:00 | 6/9/2023 0:00 | GLNU1 - GLEN ULLIN | 4/1/2023 | 4/2/2023 | 1091 | 0.6512 | -48 | 1351.971556 | 1.0432 | 2.9084 | 81.3634 | 13.7701 | 0.7178 | 0.0182 | 0.0333 | 0.0015 | 0.0013 | N/A | 0 | 0.1168 | 0.0262 | N/A | 0.003 | 0.0009 | 0.4936 |
| NBPL | 2/28/2023 0:00 | 6/9/2023 0:00 | GLNU1 - GLEN ULLIN | 4/2/2023 | 4/3/2023 | 1088 | 0.6467 | -50.5 | 1352.93666 | 1.0027 | 2.7131 | 82.3056 | 13.1456 | 0.6799 | 0.0174 | 0.0314 | 0.0015 | 0.0012 | N/A | 0 | 0.0765 | 0.0252 | N/A | 0.0034 | 0.0009 | 0.4936 |
| NBPL | 2/28/2023 0:00 | 6/9/2023 0:00 | GLNU1 - GLEN ULLIN | 4/3/2023 | 4/4/2023 | 1088 | 0.6467 | -50.7 | 1352.93666 | 1.0069 | 2.7053 | 82.2823 | 13.1839 | 0.6644 | 0.0165 | 0.0299 | 0.0013 | 0.0011 | N/A | 0 | 0.0841 | 0.0246 | N/A | 0.003 | 0.0008 | 0.4936 |
| NBPL | 2/28/2023 0:00 | 6/9/2023 0:00 | GLNU1 - GLEN ULLIN | 4/4/2023 | 4/5/2023 | 1086 | 0.6445 | -52.4 | 1352.75256 | 0.9904 | 2.6409 | 82.6746 | 12.9251 | 0.6228 | 0.0142 | 0.0247 | 0.0004 | 0.0001 | N/A | 0 | 0.0819 | 0.0246 | N/A | 0.0029 | 0.0008 | 0.4936 |
| NBPL | 2/28/2023 0:00 | 6/9/2023 0:00 | GLNU1 - GLEN ULLIN | 4/5/2023 | 4/6/2023 | 1088 | 0.6467 | -50.5 | 1352.93666 | 0.9940 | 2.7281 | 82.2502 | 13.1959 | 0.6546 | 0.0191 | 0.0313 | 0.0016 | 0.0012 | N/A | 0.0003 | 0.0978 | 0.0252 | N/A | 0.0028 | 0.0008 | 0.4936 |
| NBPL | 2/28/2023 0:00 | 6/9/2023 0:00 | GLNU1 - GLEN ULLIN | 4/6/2023 | 4/7/2023 | 1084 | 0.6436 | -52.6 | 1351.205065 | 0.9763 | 2.6627 | 82.8177 | 12.7408 | 0.6321 | 0.0155 | 0.0278 | 0.0011 | 0.0008 | N/A | 0 | 0.1012 | 0.0245 | N/A | 0.0028 | 0.0007 | 0.4936 |
| NBPL | 2/28/2023 0:00 | 6/9/2023 0:00 | GLNU1 - GLEN ULLIN | 4/7/2023 | 4/8/2023 | 1084 | 0.6423 | -53.2 | 1352.571777 | 0.971 | 2.6014 | 83.1307 | 12.4923 | 0.6417 | 0.0162 | 0.0293 | 0.0012 | 0.0011 | N/A | 0 | 0.0911 | 0.0242 | N/A | 0.0028 | 0.0008 | 0.4936 |
| NBPL | 2/28/2023 0:00 | 6/9/2023 0:00 | GLNU1 - GLEN ULLIN | 4/8/2023 | 4/9/2023 | 1084 | 0.6436 | -52.5 | 1351.205065 | 0.9875 | 2.684 | 82.8265 | 12.6487 | 0.6575 | 0.0164 | 0.0298 | 0.0011 | 0.0008 | N/A | 0 | 0.1232 | 0.0247 | N/A | 0.0034 | 0.0009 | 0.4936 |
| NBPL | 2/28/2023 0:00 | 6/9/2023 0:00 | GLNU1 - GLEN ULLIN | 4/9/2023 | 4/10/2023 | 1086 | 0.6452 | -51.4 | 1352.018536 | 1.0022 | 2.6956 | 82.5175 | 12.9103 | 0.6757 | 0.0164 | 0.0297 | 0.0012 | 0.0008 | N/A | 0 | 0.1259 | 0.0247 | N/A | 0.0038 | 0.0011 | 0.4936 |
| NBPL | 2/28/2023 0:00 | 6/9/2023 0:00 | GLNU1 - GLEN ULLIN | 4/10/2023 | 4/11/2023 | 1088 | 0.6468 | -49.1 | 1352.832069 | 0.9965 | 2.7205 | 82.3716 | 12.9703 | 0.7488 | 0.0251 | 0.042 | 0.0031 | 0.0027 | N/A | 0.0005 | 0.0942 | 0.025 | N/A | 0.0106 | 0.0012 | 0.4936 |
| NBPL | 2/28/2023 0:00 | 6/9/2023 0:00 | GLNU1 - GLEN ULLIN | 4/11/2023 | 4/12/2023 | 1090 | 0.6484 | -48.8 | 1353.645659 | 0.9973 | 2.7418 | 82.1147 | 13.2263 | 0.7765 | 0.0208 | 0.0371 | 0.002 | 0.0017 | N/A | 0.0001 | 0.0568 | 0.0252 | N/A | 0.0083 | 0.0012 | 0.4936 |
| NBPL | 2/28/2023 0:00 | 6/9/2023 0:00 | GLNU1 - GLEN ULLIN | 4/12/2023 | 4/13/2023 | 1090 | 0.6497 | -48 | 1352.29071 | 1.0128 | 2.8263 | 81.9008 | 13.3051 | 0.81 | 0.0218 | 0.0401 | 0.0018 | 0.0017 | N/A | 0 | 0.0537 | 0.026 | N/A | 0.0084 | 0.0009 | 0.4936 |
| NBPL | 2/28/2023 0:00 | 6/9/2023 0:00 | GLNU1 - GLEN ULLIN | 4/13/2023 | 4/14/2023 | 1088 | 0.6503 | -47.5 | 1349.186597 | 1.0297 | 2.9651 | 81.7718 | 13.178 | 0.8682 | 0.0234 | 0.043 | 0.0019 | 0.0019 | N/A | 0 | 0.0901 | 0.0271 | N/A | 0.0079 | 0.0008 | 0.4936 |
| NBPL | 2/28/2023 0:00 | 6/9/2023 0:00 | GLNU1 - GLEN ULLIN | 4/14/2023 | 4/15/2023 | 1091 | 0.6527 | -46.8 | 1350.417148 | 1.0608 | 3.0033 | 81.5202 | 13.6454 | 0.825 | 0.0216 | 0.04 | 0.0017 | 0.0016 | N/A | 0 | 0.0528 | 0.0278 | N/A | 0.0083 | 0.0008 | 0.4936 |
| NBPL | 2/28/2023 0:00 | 6/9/2023 0:00 | GLNU1 - GLEN ULLIN | 4/15/2023 | 4/16/2023 | 1090 | 0.6514 | -47.3 | 1350.524978 | 1.0572 | 2.9515 | 81.4627 | 13.5285 | 0.805 | 0.0217 | 0.0403 | 0.0018 | 0.0018 | N/A | 0 | 0.1031 | 0.0266 | N/A | 0.0083 | 0.0009 | 0.4936 |
| NBPL | 2/28/2023 0:00 | 6/9/2023 0:00 | GLNU1 - GLEN ULLIN | 4/16/2023 | 4/17/2023 | 1083 | 0.6459 | -50.9 | 1347.52873 | 1.0397 | 2.8689 | 82.3979 | 12.7268 | 0.7369 | 0.0193 | 0.0355 | 0.0014 | 0.0013 | N/A | 0 | 0.1563 | 0.0261 | N/A | 0.0083 | 0.0009 | 0.4936 |
| NBPL | 2/28/2023 0:00 | 6/9/2023 0:00 | GLNU1 - GLEN ULLIN | 4/17/2023 | 4/18/2023 | 1084 | 0.6461 | -49.7 | 1348.588375 | 1.0251 | 2.8641 | 82.2691 | 12.7245 | 0.7834 | 0.0241 | 0.0427 | 0.0025 | 0.0021 | N/A | 0.0002 | 0.2367 | 0.0257 | N/A | 0.008 | 0.0008 | 0.4936 |
| NBPL | 2/28/2023 0:00 | 6/9/2023 0:00 | GLNU1 - GLEN ULLIN | 4/18/2023 | 4/19/2023 | 1082 | 0.6436 | -51.8 | 1348.712067 | 1.009 | 2.7806 | 82.877 | 12.3466 | 0.7499 | 0.0201 | 0.0368 | 0.0016 | 0.0014 | N/A | 0 | 0.1514 | 0.0256 | N/A | 0.008 | 0.0008 | 0.4936 |
| NBPL | 2/28/2023 0:00 | 6/9/2023 0:00 | GLNU1 - GLEN ULLIN | 4/19/2023 | 4/20/2023 | 1081 | 0.6427 | -52.7 | 1348.408694 | 1.0155 | 2.7149 | 82.9907 | 12.3184 | 0.712 | 0.0181 | 0.0325 | 0.0012 | 0.0008 | N/A | 0 | 0.1712 | 0.0248 | N/A | 0.0081 | 0.0009 | 0.4936 |
| NBPL | 2/28/2023 0:00 | 6/9/2023 0:00 | GLNU1 - GLEN ULLIN | 4/20/2023 | 4/21/2023 | 1082 | 0.644 | -52 | 1348.293147 | 1.0233 | 2.7762 | 82.6891 | 12.538 | 0.7122 | 0.0169 | 0.0306 | 0.0013 | 0.0012 | N/A | 0 | 0.1857 | 0.0256 | N/A | 0.0075 | 0.0008 | 0.4936 |
| NBPL | 2/28/2023 0:00 | 6/9/2023 0:00 | GLNU1 - GLEN ULLIN | 4/21/2023 | 4/22/2023 | 1080 | 0.6421 | -53.5 | 1347.790592 | 1.0132 | 2.7246 | 83.0788 | 12.2736 | 0.6714 | 0.0165 | 0.0298 | 0.0011 | 0.0009 | N/A | 0 | 0.165 | 0.0253 | N/A | 0.0078 | 0.0007 | 0.4936 |
| NBPL | 2/28/2023 0:00 | 6/9/2023 0:00 | GLNU1 - GLEN ULLIN | 4/22/2023 | 4/23/2023 | 1079 | 0.6422 | -53.5 | 1346.437795 | 1.0199 | 2.773 | 83.1679 | 12.1474 | 0.6943 | 0.0179 | 0.0318 | 0.0012 | 0.0008 | N/A | 0 | 0.1201 | 0.0257 | N/A | 0.0082 | 0.0008 | 0.4936 |
| NBPL | 2/28/2023 0:00 | 6/9/2023 0:00 | GLNU1 - GLEN ULLIN | 4/23/2023 | 4/24/2023 | 1078 | 0.6398 | -54.2 | 1347.710596 | 0.9615 | 2.7029 | 83.5404 | 11.8375 | 0.7061 | 0.0189 | 0.0341 | 0.0015 | 0.0013 | N/A | 0 | 0.1713 | 0.0246 | N/A | 0.0082 | 0.0009 | 0.4936 |
| NBPL | 2/28/2023 0:00 | 6/9/2023 0:00 | GLNU1 - GLEN ULLIN | 4/24/2023 | 4/25/2023 | 1078 | 0.6372 | -55.3 | 1350.457364 | 0.9305 | 2.5396 | 84.0372 | 11.5431 | 0.6865 | 0.0196 | 0.0355 | 0.0019 | 0.0016 | N/A | 0.0001 | 0.1808 | 0.0238 | N/A | 0.008 | 0.0008 | 0.4936 |
| NBPL | 2/28/2023 0:00 | 6/9/2023 0:00 | GLNU1 - GLEN ULLIN | 4/25/2023 | 4/26/2023 | 1077 | 0.6378 | -55.5 | 1348.56985 | 0.9335 | 2.5976 | 83.9564 | 11.6966 | 0.6562 | 0.0169 | 0.0314 | 0.0014 | 0.0013 | N/A | 0 | 0.1844 | 0.0245 | N/A | 0.0081 | 0.0009 | 0.4936 |
| NBPL | 2/28/2023 0:00 | 6/9/2023 0:00 | GLNU1 - GLEN ULLIN | 4/26/2023 | 4/27/2023 | 1081 | 0.6415 | -52.7 | 1349.669282 | 0.9608 | 2.6896 | 83.2383 | 12.1225 | 0.7383 | 0.02 | 0.0373 | 0.0018 | 0.0017 | N/A | 0 | 0.165 | 0.0249 | N/A | 0.0088 | 0.001 | 0.4936 |
| NBPL | 2/28/2023 0:00 | 6/9/2023 0:00 | GLNU1 - GLEN ULLIN | 4/27/2023 | 4/28/2023 | 1083 | 0.6435 | -51.7 | 1350.063454 | 0.9677 | 2.7634 | 82.8577 | 12.4054 | 0.76 | 0.0197 | 0.0361 | 0.0015 | 0.0014 | N/A | 0 | 0.162 | 0.0253 | N/A | 0.0087 | 0.0009 | 0.4936 |
| NBPL | 2/28/2023 0:00 | 6/9/2023 0:00 | GLNU1 - GLEN ULLIN | 4/28/2023 | 4/29/2023 | 1083 | 0.6427 | -51.8 | 1350.903437 | 0.9601 | 2.6828 | 83.1232 | 12.2279 | 0.7882 | 0.021 | 0.0378 | 0.0017 | 0.0013 | N/A | 0 | 0.1313 | 0.0249 | N/A | 0.0084 | 0.0009 | 0.4936 |
| NBPL | 2/28/2023 0:00 | 6/9/2023 0:00 | GLNU1 - GLEN ULLIN | 4/29/2023 | 4/30/2023 | 1081 | 0.6405 | -51.6 | 1350.722477 | 0.9505 | 2.6116 | 83.6231 | 11.7514 | 0.8104 | 0.0267 | 0.0526 | 0.0035 | 0.0035 | N/A | 0.0006 | 0.142 | 0.0241 | N/A | 0.0086 | 0.001 | 0.4936 |
| NBPL | 2/28/2023 0:00 | 6/9/2023 0:00 | GLNU1 - GLEN ULLIN | 4/30/2023 | 5/1/2023 | 1080 | 0.6412 | -52.8 | 1348.736152 | 0.9852 | 2.6729 | 83.4243 | 11.9141 | 0.7747 | 0.0212 | 0.0385 | 0.0017 | 0.0016 | N/A | 0 | 0.1412 | 0.0248 | N/A | 0.0084 | 0.001 | 0.4936 |

| NORTH DAKOTA HEATING VALUE ZONES | | |
|---|------------------------------------|--|
| ZONES | MEASURING DEVICE | LOCATION |
| 211 | Chromatograph | Sidney Border |
| 24 | Chromatograph | Williston Border |
| 241 | Accumulated Sample | Fairview Border |
| 25 | Accumulated Sample | Watford City West Border |
| 260 | Chromatograph | North Tioga Transfer |
| 261 | Chromatograph | Tioga Comp Station – Robinson Lake Plant |
| 262 | Chromatograph | Minot Border |
| 263 | Accumulated Sample | Lignite Plant |
| 264 | Accumulated Sample | Epping Border |
| 265 | Chromatograph | Tioga Comp Station – County Line Plant |
| 271 | Chromatograph | Bismarck – Cleveland |
| 272 | Chromatograph | Cleveland – Mapleton |
| 273 | Chromatograph | Cleveland – Grafton |
| 28 | Chromatograph | Bismarck Station |
| 31 | Chromatograph | Dickinson Border |
| 32 | Chromatograph | Cabin Creek Station |
| 33 | Chromatograph | Little Knife Plant |
| 34 | Chromatograph | Bowman Border |
| 43 | Accumulated Sample | Watford City East Border |
| 550 | Accumulated Sample & Chromatograph | Mandan Border |
| 600 | Chromatograph | Hankinson Area |
| 601 | Chromatograph | Milnor Area |
| 610 | Accumulated Sample & Chromatograph | Watford City |
| 802 | Chromatograph | Linton |

MONTANA DAKOTA UTILITIES CO
NORTH DAKOTA
HEATING VALUE DATA

| STATE | ZONE | ZONE BOUNDARY | 12 MONTH AVERAGE | APR23 | MAR23 | FEB23 | JAN23 | DEC22 | NOV22 | OCT22 | SEP22 | AUG22 | JUL22 | JUN22 | MAY22 | ZONE |
|-------|------|--|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| MT/ND | 211 | Sidney Border - MonDak Tfr - Sidney Plt | 1200 | 1204 | 1208 | 1191 | 1203 | 1206 | 1202 | 1201 | 1198 | 1205 | 1200 | 1198 | 1185 | 211 |
| ND | 24 | Williston Border - Charbonneau Station | 1193 | 1194 | 1195 | 1198 | 1197 | 1193 | 1198 | 1194 | 1188 | 1192 | 1195 | 1187 | 1185 | 24 |
| ND | 25 | Watford City West Border | 1199 | 1180 | 1183 | 1200 | 1195 | 1202 | 1207 | 1210 | 1209 | 1210 | 1201 | 1199 | 1195 | 25 |
| ND | 28 | Bismarck Station - Glen Ullin Station | 1159 | 1118 | 1127 | 1115 | 1118 | 1133 | 1126 | 1175 | 1191 | 1198 | 1202 | 1204 | 1196 | 28 |
| ND | 31 | Dickinson Brd - Belfield Trf - G Ullin Stn | 1112 | 1100 | 1132 | 1126 | 1132 | 1140 | 1131 | 1097 | 1099 | 1087 | 1094 | 1105 | 1100 | 31 |
| ND/MT | 32 | Cabin Creek Station - Belfied Transfer | 1127 | 1119 | 1137 | 1116 | 1125 | 1139 | 1132 | 1122 | 1128 | 1129 | 1115 | 1124 | 1138 | 32 |
| ND | 33 | Little Knife Plant | 1176 | 1179 | 1177 | 1175 | 1176 | 1176 | 1176 | 1179 | 1173 | 1174 | 1177 | 1175 | 1175 | 33 |
| ND | 34 | Badlands Plant/Bowman Border | 1046 | 1005 | 1071 | 1086 | 1079 | 1086 | 1077 | 989 | 1056 | 1031 | 1033 | 1014 | 1019 | 34 |
| ND | 43 | Watford City East Border | 1080 | 1083 | 1116 | 1128 | 1143 | 1133 | 1054 | 1050 | 1051 | 1057 | 1062 | 1044 | 1036 | 43 |
| ND/MT | 241 | Fairview Border | 1200 | 1196 | 1201 | 1212 | 1218 | 1201 | 1210 | 1205 | 1193 | 1197 | 1199 | 1186 | 1178 | 241 |
| ND | 267 | North Tioga Transfer - Nesson Plant | 1180 | 1187 | 1189 | 1188 | 1181 | 1176 | 1176 | 1178 | 1174 | 1184 | 1184 | 1173 | 1172 | 267 |
| ND | 261 | Tioga Comp Station - Robinson Lake Plan | 1190 | 1184 | 1185 | 1184 | 1176 | 1176 | 1182 | 1194 | 1196 | 1196 | 1201 | 1200 | 1200 | 261 |
| ND | 262 | Minot Bdr - Palermo Bdr - Bismarck Stn | 1194 | 1189 | 1187 | 1187 | 1188 | 1189 | 1186 | 1195 | 1198 | 1196 | 1203 | 1205 | 1202 | 262 |
| ND | 263 | Lignite Plant | 1131 | 1131 | 1131 | 1131 | 1131 | 1131 | 1131 | 1131 | 1131 | 1131 | 1130 | 1131 | 1131 | 263 |
| ND | 264 | Epping Border | 1196 | 1202 | 1200 | 1208 | 1202 | 1198 | 1194 | 1198 | 1196 | 1192 | 1188 | 1182 | 1188 | 264 |
| ND | 265 | Tioga Comp Station - County Line Plant | 1178 | 1182 | 1183 | 1181 | 1182 | 1169 | 1182 | 1180 | 1178 | 1178 | 1180 | 1176 | 1163 | 265 |
| ND | 266 | County Line Plant | 1179 | 1182 | 1183 | 1180 | 1183 | 1168 | 1181 | 1180 | 1180 | 1182 | 1179 | 1179 | 1167 | 266 |
| ND | 271 | Bismarck Station - Cleveland Station | 1188 | 1189 | 1181 | 1168 | 1168 | 1176 | 1181 | 1197 | 1191 | 1198 | 1202 | 1205 | 1205 | 271 |
| ND | 272 | Cleveland Station - Mapleton | 1188 | 1188 | 1181 | 1168 | 1168 | 1176 | 1181 | 1197 | 1191 | 1198 | 1202 | 1205 | 1204 | 272 |
| ND | 273 | Cleveland Station - Grafton Border | 1188 | 1187 | 1180 | 1168 | 1168 | 1176 | 1181 | 1198 | 1194 | 1198 | 1200 | 1205 | 1202 | 273 |
| ND | 550 | Mandan Border / NBPL-St Anthony | 1150 | 1101 | 1118 | 1109 | 1109 | 1127 | 1107 | 1173 | 1189 | 1194 | 1182 | 1201 | 1189 | 550 |
| ND | 610 | MDU-Watford City BTU | 1107 | 1111 | 1137 | 1149 | 1159 | 1155 | 1102 | 1113 | 1072 | 1068 | 1065 | 1063 | 1086 | 610 |
| ND | 802 | NBPL - Linton | 1087 | 1085 | 1097 | 1095 | 1093 | 1090 | 1087 | 1084 | 1081 | 1083 | 1086 | 1084 | 1074 | 802 |
| ND | 903 | Hettinger Propane | 2549 | 2549 | 2549 | 2549 | 2549 | 2549 | 2549 | 2549 | 2549 | 2549 | 2549 | 2549 | 2549 | 903 |
| ND | 600 | Alliance Pipeline - Hankinson | 1153 | 1153 | 1149 | 1152 | 1148 | 1143 | 1149 | 1159 | 1159 | 1157 | 1160 | 1153 | 1151 | 600 |
| ND | 601 | Alliance Pipeline - Milnor | 1153 | 1154 | 1149 | 1152 | 1148 | 1143 | 1149 | 1159 | 1160 | 1157 | 1160 | 1153 | 1151 | 602 |

| THERMAL ZONE VARIANCE DOCUMENTATION | | |
|--|--------------------------------|-------------------------|
| April 2023 | | |
| <i>ZONE</i> | <i>BTU VARIANCE</i> | <i>REASON</i> |
| 31 | -32 | Blend of Gas |
| 34 | -66 | Operational Maintenance |
| 43 | -33 | Blend of Gas |
| 610 | -26 | Blend of Gas |