



A Subsidiary of MDU Resources Group, Inc.

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

November 20, 2024

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

Re: Case No. PU-24-002 (Therm Billing)
Monthly Report – September 2024

Mr. Kahl,

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

1. Attachment A is a schedule showing the thermal billing factors by community that reflect the BTU values shown on Attachment B and were used for billing purposes in October 2024.
2. Attachment B consists of copies of the monthly Heating Value Test Reports received from our suppliers for the month of September 2024.
3. Attachment C is a listing which states the type of measuring device in place at each zone.
4. Attachment D is a monthly list of the heating value data, by zone, for the most recent 12-month period and an average thereof. It is being provided pursuant to a Staff request.
5. Attachment E provides a brief explanation of the thermal variances, where applicable, for the month of September 2024.

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

Sincerely,

/s/ Travis R. Jacobson

Travis R. Jacobson
Director of Regulatory Affairs

Montana-Dakota Utilities Co.
Therm Billing Factors - North Dakota
Oct-24

| Town | Heat Zone | Therm Factor |
|----------------------|-----------|--------------|
| MDU-303-ALEXANDER | 025 | 1.1306 |
| MDU-308-ARNEGARD | 025 | 1.1306 |
| MDU-314-APPLE VALLEY | 271 | 1.1607 |
| MDU-318-BEACH | 032 | 1.0489 |
| MDU-319-BELFIELD | 032 | 1.0566 |
| MDU-323-BERTHOLD | 262 | 1.1343 |
| MDU-327-BISMARCK | 028 | 1.1609 |
| MDU-330-BOWMAN | 034 | 0.8990 |
| MDU-337-BURLINGTON | 262 | 1.1588 |
| MDU-343-CARRINGTON | 273 | 1.1598 |
| MDU-344-CLEVELAND | 272 | 1.1516 |
| MDU-364-CAVALIER | 273 | 1.1843 |
| MDU-365-DAWSON | 271 | 1.1526 |
| MDU-368-DES LACS | 262 | 1.1425 |
| MDU-369-DICKINSON | 031 | 1.0418 |
| MDU-374-FT TOTTEN | 273 | 1.1679 |
| MDU-375-DEVILS LAKE | 273 | 1.1679 |
| MDU-379-BARLOW | 273 | 1.1598 |
| MDU-384-EPPING | 264 | 1.1221 |
| MDU-387-ELDRIDGE | 272 | 1.1598 |
| MDU-407-GLADSTONE | 031 | 1.0418 |
| MDU-411-GLEN ULLIN | 031 | 1.0493 |
| MDU-413-GOLVA | 032 | 1.0335 |
| MDU-416-GARRISON | 262 | 1.1425 |
| MDU-417-GRAFTON | 273 | 1.1924 |
| MDU-403-GWINNER | 601 | 1.1399 |
| MDU-429-HEBRON | 031 | 1.0493 |
| MDU-432-HETTINGER | 903 | 2.3875 |
| MDU-449-JAMESTOWN | 272 | 1.1679 |
| MDU-459-KILLDEER | 033 | 1.1003 |
| MDU-463-LANGDON | 273 | 1.1598 |
| MDU-469-LEFOR | 031 | 1.0418 |
| MDU-474-LIGNITE | 263 | 1.0759 |
| MDU-475-LINTON | 802 | 1.0691 |
| MDU-478-LINCOLN | 028 | 1.1607 |
| MDU-488-MCKENZIE | 271 | 1.1607 |
| MDU-494-MEDINA | 271 | 1.1526 |
| MDU-498-MANDAN | 028 | 1.1607 |
| MDU-500-MARMARTH | 034 | 0.9057 |
| MDU-505-MINOT | 262 | 1.1588 |
| MDU-510-MOTT | 031 | 1.0418 |
| MDU-512-MAX | 262 | 1.1343 |
| MDU-513-MILNOR | 601 | 1.1399 |
| MDU-522-NEW ENGLAND | 031 | 1.0343 |
| MDU-524-NEW SALEM | 028 | 1.1362 |
| MDU-532-NEW ROCKFORD | 273 | 1.1598 |
| MDU-539-PARK RIVER | 273 | 1.1843 |
| MDU-540-PALERMO | 262 | 1.1343 |
| MDU-558-RAY | 264 | 1.1164 |

| | | |
|------------------------|-----|--------|
| MDU-561-REGENT | 031 | 1.0343 |
| MDU-563-RHAME | 034 | 0.8923 |
| MDU-564-RICHARDTON | 031 | 1.0343 |
| MDU-568-ROSS | 261 | 1.1253 |
| MDU-572-RUTHVILLE | 262 | 1.1588 |
| MDU-574-SANBORN | 272 | 1.1679 |
| MDU-583-SENTINEL BUTTE | 032 | 1.0489 |
| MDU-588-SOUTH HEART | 031 | 1.0343 |
| MDU-717-SPIRITWOOD | 272 | 1.1679 |
| MDU-590-SPRINGBROOK | 264 | 1.1221 |
| MDU-591-STANLEY | 261 | 1.1334 |
| MDU-593-STEELE | 271 | 1.1526 |
| MDU-594-STERLING | 028 | 1.1607 |
| MDU-598-SHEYENNE | 273 | 1.1679 |
| MDU-605-SURREY | 262 | 1.1588 |
| MDU-610-TAPPEN | 271 | 1.1526 |
| MDU-611-TAYLOR | 031 | 1.0343 |
| MDU-616-TIOGA | 260 | 1.1243 |
| MDU-619-TURTLE LAKE | 262 | 1.1425 |
| MDU-620-TRENTON | 024 | 1.1273 |
| MDU-624-UNDERWOOD | 262 | 1.1425 |
| MDU-625-VALLEY CITY | 272 | 1.1761 |
| MDU-629-WALHALLA | 273 | 1.1843 |
| MDU-632-WATFORD CITY | 610 | 1.0645 |
| MDU-636-WHEELOCK | 264 | 1.1140 |
| MDU-637-WHITE EARTH | 261 | 1.1287 |
| MDU-642-WILLISTON | 024 | 1.1273 |
| MDU-646-WASHBURN | 262 | 1.1507 |
| MDU-647-WILTON | 262 | 1.1343 |
| MDU-664-RIVERDALE | 262 | 1.1444 |
| MDU-691-FAIRVIEW | 241 | 1.1244 |
| MDU-712-MINOT AFB | 262 | 1.1588 |
| MDU-718-FAIRMOUNT | 600 | 1.1376 |
| MDU-732-NEKOMA | 273 | 1.1598 |
| MDU-732-MSR SITE | 273 | 1.1598 |

Source Daily Summary

September 2024

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

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

| Day | Relative Density | Heating Value Wet | Heating Value Dry | Heating Value As Del | CO2 | N2 | C1 | C2 | C3 | IC4 | NC4 | IC5 | NC5 | C6 | C7 | C8 | C9 | C10 | Wobbe | CCT |
|-----|------------------|-------------------|-------------------|----------------------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-----|
| 1 | 0.7225 | 1174.1 | 1194.9 | 1193.8 | 1.197 | 3.142 | 70.671 | 21.245 | 3.249 | 0.143 | 0.300 | 0.022 | 0.021 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1405.78 | |
| 2 | 0.7210 | 1173.3 | 1194.0 | 1193.0 | 1.183 | 3.077 | 70.955 | 21.046 | 3.243 | 0.142 | 0.298 | 0.022 | 0.022 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 1406.21 | |
| 3 | 0.7231 | 1173.5 | 1194.3 | 1193.1 | 1.222 | 3.197 | 70.763 | 20.878 | 3.437 | 0.146 | 0.304 | 0.022 | 0.022 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 1404.48 | |
| 4 | 0.7326 | 1178.2 | 1199.1 | 1198.1 | 1.375 | 3.574 | 69.308 | 21.415 | 3.799 | 0.158 | 0.317 | 0.022 | 0.019 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 1400.88 | |
| 5 | 0.7341 | 1179.9 | 1200.8 | 1199.8 | 1.386 | 3.594 | 68.860 | 21.952 | 3.715 | 0.150 | 0.296 | 0.020 | 0.016 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1401.49 | |
| 6 | 0.7330 | 1177.4 | 1198.2 | 1197.2 | 1.395 | 3.628 | 69.156 | 21.549 | 3.778 | 0.149 | 0.296 | 0.020 | 0.017 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 1399.58 | |
| 7 | 0.7241 | 1172.7 | 1193.4 | 1192.3 | 1.216 | 3.354 | 70.692 | 20.618 | 3.621 | 0.148 | 0.301 | 0.021 | 0.020 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1402.50 | |
| 8 | 0.7227 | 1172.6 | 1193.4 | 1192.2 | 1.180 | 3.282 | 70.846 | 20.691 | 3.487 | 0.149 | 0.311 | 0.022 | 0.021 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1403.76 | |
| 9 | 0.7172 | 1166.6 | 1187.3 | 1186.2 | 1.124 | 3.214 | 71.586 | 20.381 | 3.222 | 0.135 | 0.286 | 0.021 | 0.021 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 1401.93 | |
| 10 | 0.7166 | 1167.8 | 1188.5 | 1187.5 | 1.033 | 3.226 | 71.415 | 20.751 | 3.169 | 0.121 | 0.244 | 0.017 | 0.016 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1403.98 | |
| 11 | 0.7150 | 1165.9 | 1186.6 | 1185.5 | 0.996 | 3.246 | 71.479 | 20.898 | 3.006 | 0.112 | 0.226 | 0.015 | 0.014 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1403.28 | |
| 12 | 0.7150 | 1165.7 | 1186.3 | 1185.4 | 0.980 | 3.287 | 71.559 | 20.706 | 3.071 | 0.117 | 0.240 | 0.016 | 0.015 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1402.98 | |
| 13 | 0.7157 | 1167.0 | 1187.7 | 1186.8 | 0.939 | 3.328 | 71.321 | 21.003 | 3.015 | 0.116 | 0.238 | 0.016 | 0.015 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1403.96 | |
| 14 | 0.7157 | 1165.1 | 1185.8 | 1184.8 | 0.995 | 3.364 | 71.376 | 20.853 | 3.003 | 0.120 | 0.247 | 0.017 | 0.016 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1401.60 | |
| 15 | 0.7148 | 1165.9 | 1186.5 | 1185.3 | 1.011 | 3.213 | 71.652 | 20.688 | 3.000 | 0.125 | 0.263 | 0.019 | 0.019 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1403.34 | |
| 16 | 0.7176 | 1170.1 | 1190.8 | 1189.7 | 1.096 | 3.083 | 71.337 | 20.952 | 3.061 | 0.134 | 0.285 | 0.021 | 0.021 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1405.73 | |
| 17 | 0.7233 | 1166.7 | 1187.3 | 1186.1 | 1.265 | 3.570 | 70.505 | 20.895 | 3.275 | 0.149 | 0.296 | 0.018 | 0.017 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 1396.10 | |
| 18 | 0.7281 | 1168.1 | 1188.8 | 1188.0 | 1.353 | 3.793 | 69.769 | 21.119 | 3.484 | 0.154 | 0.288 | 0.016 | 0.013 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 1393.27 | |
| 19 | 0.7232 | 1169.8 | 1190.5 | 1189.6 | 1.268 | 3.374 | 70.419 | 21.284 | 3.178 | 0.145 | 0.288 | 0.018 | 0.016 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1399.86 | |
| 20 | 0.7146 | 1168.5 | 1189.2 | 1188.4 | 1.083 | 2.921 | 71.628 | 21.115 | 2.815 | 0.126 | 0.267 | 0.018 | 0.018 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1406.79 | |
| 21 | 0.7160 | 1169.6 | 1190.3 | 1189.5 | 1.079 | 2.990 | 71.385 | 21.241 | 2.874 | 0.124 | 0.264 | 0.018 | 0.017 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1406.70 | |
| 22 | 0.7160 | 1168.7 | 1189.4 | 1188.5 | 1.088 | 3.032 | 71.474 | 21.030 | 2.922 | 0.130 | 0.277 | 0.019 | 0.019 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1405.61 | |
| 23 | 0.7173 | 1168.2 | 1188.8 | 1187.9 | 1.125 | 3.134 | 71.344 | 20.912 | 3.019 | 0.134 | 0.283 | 0.020 | 0.020 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1403.65 | |
| 24 | 0.7155 | 1170.1 | 1190.8 | 1189.9 | 1.075 | 2.914 | 71.684 | 20.892 | 2.957 | 0.135 | 0.291 | 0.021 | 0.022 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1407.82 | |
| 25 | 0.7178 | 1172.5 | 1193.2 | 1192.0 | 1.097 | 2.948 | 71.540 | 20.702 | 3.208 | 0.141 | 0.305 | 0.023 | 0.024 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 1408.45 | |
| 26 | 0.7171 | 1169.9 | 1190.6 | 1189.5 | 1.114 | 3.019 | 71.334 | 21.118 | 2.961 | 0.129 | 0.277 | 0.020 | 0.020 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1406.01 | |
| 27 | 0.7161 | 1170.1 | 1190.8 | 1189.8 | 1.091 | 2.953 | 71.498 | 21.054 | 2.950 | 0.129 | 0.276 | 0.019 | 0.020 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1407.16 | |
| 28 | 0.7163 | 1170.1 | 1190.8 | 1189.7 | 1.097 | 2.968 | 71.494 | 21.003 | 2.982 | 0.130 | 0.278 | 0.020 | 0.020 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1406.92 | |
| 29 | 0.7161 | 1169.5 | 1190.2 | 1189.3 | 1.095 | 2.984 | 71.573 | 20.874 | 3.009 | 0.132 | 0.284 | 0.019 | 0.020 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1406.43 | |
| 30 | 0.7161 | 1169.4 | 1190.1 | 1189.3 | 1.101 | 2.976 | 71.563 | 20.897 | 3.019 | 0.128 | 0.271 | 0.018 | 0.019 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1406.37 | |
| Avg | 0.7198 | 1170.0 | 1190.9 | 1189.9 | 1.142 | 3.213 | 71.006 | 20.992 | 3.184 | 0.135 | 0.280 | 0.019 | 0.019 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1403.75 | |

Source Daily Summary

September 2024

Source #: 571
Name: WILLISTON BDR-CHARBN STN

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

| Day | Relative Density | Heating Value Wet | Heating Value Dry | Heating Value As Del | CO2 | N2 | C1 | C2 | C3 | IC4 | NC4 | IC5 | NC5 | C6 | C7 | C8 | C9 | C10 | Wobbe | CCT |
|-----|------------------|-------------------|-------------------|----------------------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-----|
| 1 | 0.7053 | 1164.4 | 1185.0 | 1184.3 | 1.014 | 2.397 | 73.192 | 20.457 | 2.553 | 0.108 | 0.238 | 0.018 | 0.021 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 1411.05 | |
| 2 | 0.7060 | 1166.5 | 1187.1 | 1186.5 | 1.024 | 2.322 | 73.073 | 20.637 | 2.551 | 0.110 | 0.240 | 0.018 | 0.021 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 1412.86 | |
| 3 | 0.7054 | 1163.4 | 1184.0 | 1183.3 | 1.004 | 2.489 | 73.280 | 20.165 | 2.650 | 0.115 | 0.253 | 0.020 | 0.023 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 1409.66 | |
| 4 | 0.7055 | 1161.5 | 1182.1 | 1181.5 | 0.997 | 2.619 | 73.360 | 19.852 | 2.747 | 0.118 | 0.261 | 0.020 | 0.023 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 1407.34 | |
| 5 | 0.7051 | 1162.7 | 1183.3 | 1182.6 | 1.002 | 2.506 | 73.179 | 20.379 | 2.554 | 0.107 | 0.234 | 0.017 | 0.020 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 1409.13 | |
| 6 | 0.7058 | 1161.4 | 1182.0 | 1181.4 | 0.988 | 2.666 | 73.098 | 20.223 | 2.636 | 0.109 | 0.239 | 0.017 | 0.020 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 1406.95 | |
| 7 | 0.7061 | 1160.5 | 1181.1 | 1180.4 | 0.981 | 2.757 | 73.115 | 20.040 | 2.706 | 0.112 | 0.246 | 0.018 | 0.021 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 1405.56 | |
| 8 | 0.7059 | 1161.2 | 1181.7 | 1181.0 | 0.972 | 2.720 | 73.226 | 19.908 | 2.757 | 0.116 | 0.256 | 0.019 | 0.022 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 1406.46 | |
| 9 | 0.7063 | 1161.9 | 1182.5 | 1181.8 | 0.972 | 2.707 | 73.218 | 19.877 | 2.798 | 0.117 | 0.263 | 0.020 | 0.024 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 1407.05 | |
| 10 | 0.7051 | 1165.1 | 1185.7 | 1185.1 | 1.000 | 2.360 | 73.234 | 20.459 | 2.556 | 0.109 | 0.239 | 0.018 | 0.022 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 1412.05 | |
| 11 | 0.7039 | 1158.8 | 1179.3 | 1178.7 | 0.982 | 2.654 | 73.472 | 19.888 | 2.614 | 0.109 | 0.240 | 0.018 | 0.021 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 1405.67 | |
| 12 | 0.7067 | 1161.2 | 1181.8 | 1181.2 | 0.967 | 2.800 | 72.974 | 20.137 | 2.721 | 0.111 | 0.247 | 0.018 | 0.021 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 1405.73 | |
| 13 | 0.7084 | 1163.4 | 1184.0 | 1183.4 | 0.959 | 2.831 | 72.682 | 20.356 | 2.766 | 0.112 | 0.250 | 0.018 | 0.021 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 1406.78 | |
| 14 | 0.7082 | 1163.8 | 1184.5 | 1183.8 | 0.963 | 2.786 | 72.667 | 20.464 | 2.719 | 0.111 | 0.248 | 0.018 | 0.021 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 1407.44 | |
| 15 | 0.7085 | 1165.8 | 1186.4 | 1185.7 | 0.968 | 2.689 | 72.578 | 20.689 | 2.678 | 0.110 | 0.245 | 0.018 | 0.021 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 1409.47 | |
| 16 | 0.7085 | 1167.6 | 1188.3 | 1187.6 | 0.984 | 2.556 | 72.511 | 20.971 | 2.586 | 0.109 | 0.242 | 0.018 | 0.021 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 1411.67 | |
| 17 | 0.7053 | 1164.6 | 1185.3 | 1184.5 | 0.976 | 2.447 | 72.920 | 20.895 | 2.404 | 0.101 | 0.219 | 0.017 | 0.019 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 1411.30 | |
| 18 | 0.7022 | 1164.5 | 1185.2 | 1184.5 | 0.970 | 2.169 | 73.601 | 20.516 | 2.367 | 0.106 | 0.229 | 0.018 | 0.021 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 1414.30 | |
| 19 | 0.7054 | 1167.5 | 1188.2 | 1187.6 | 0.985 | 2.264 | 73.187 | 20.623 | 2.528 | 0.114 | 0.250 | 0.020 | 0.024 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 1414.69 | |
| 20 | 0.7074 | 1168.6 | 1189.3 | 1188.7 | 0.985 | 2.387 | 72.470 | 21.432 | 2.379 | 0.098 | 0.212 | 0.016 | 0.018 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 1414.00 | |
| 21 | 0.7095 | 1169.8 | 1190.5 | 1189.9 | 0.981 | 2.521 | 72.176 | 21.447 | 2.516 | 0.101 | 0.222 | 0.016 | 0.018 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 1413.32 | |
| 22 | 0.7076 | 1168.6 | 1189.3 | 1188.6 | 0.972 | 2.423 | 72.564 | 21.180 | 2.499 | 0.102 | 0.222 | 0.016 | 0.019 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 1413.83 | |
| 23 | 0.7104 | 1172.2 | 1192.9 | 1192.2 | 0.996 | 2.434 | 72.228 | 21.283 | 2.679 | 0.108 | 0.234 | 0.017 | 0.020 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 1415.35 | |
| 24 | 0.7087 | 1171.0 | 1191.8 | 1191.1 | 0.983 | 2.364 | 72.618 | 20.981 | 2.628 | 0.117 | 0.260 | 0.020 | 0.024 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 1415.62 | |
| 25 | 0.7095 | 1172.1 | 1192.9 | 1192.2 | 0.986 | 2.363 | 72.557 | 20.908 | 2.789 | 0.111 | 0.242 | 0.018 | 0.021 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 1416.21 | |
| 26 | 0.7096 | 1170.3 | 1191.0 | 1190.3 | 1.007 | 2.458 | 72.281 | 21.301 | 2.583 | 0.103 | 0.227 | 0.017 | 0.020 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 1413.83 | |
| 27 | 0.7086 | 1169.6 | 1190.3 | 1189.7 | 1.003 | 2.408 | 72.449 | 21.233 | 2.541 | 0.102 | 0.225 | 0.017 | 0.020 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 1414.08 | |
| 28 | 0.7096 | 1169.2 | 1189.9 | 1189.3 | 1.011 | 2.511 | 72.369 | 21.090 | 2.631 | 0.107 | 0.238 | 0.018 | 0.021 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 1412.63 | |
| 29 | 0.7124 | 1171.3 | 1192.0 | 1191.4 | 1.033 | 2.620 | 71.959 | 21.226 | 2.757 | 0.111 | 0.249 | 0.019 | 0.022 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 1412.28 | |
| 30 | 0.7092 | 1169.7 | 1190.4 | 1189.9 | 1.005 | 2.455 | 72.479 | 20.992 | 2.705 | 0.103 | 0.224 | 0.016 | 0.018 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 1413.57 | |
| Avg | 0.7072 | 1166.0 | 1186.6 | 1185.9 | 0.989 | 2.523 | 72.824 | 20.654 | 2.620 | 0.109 | 0.240 | 0.018 | 0.021 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 1411.00 | |

Gas Composition and Properties

Effective September 1, 2024

Attachment B
Page 3 of 24

Source #: 0602160
Name: FAIRVIEW BORDER

| Component | Mole % | Liquid Content | Mass % |
|-----------------------|-----------------|----------------|-----------------|
| Carbon Dioxide, CO2 | 0.9828 | | 2.1116 |
| Nitrogen, N2 | 2.9411 | | 4.0224 |
| Methane, C1 | 72.5571 | | 56.8275 |
| Ethane, C2 | 20.2876 | 5.4293 | 29.7821 |
| Propane, C3 | 2.8372 | 0.7822 | 6.1079 |
| iso-Butane, iC4 | 0.1076 | 0.0352 | 0.3053 |
| n-Butane, nC4 | 0.2445 | 0.0771 | 0.6938 |
| iso-Pentane, iC5 | 0.0199 | 0.0073 | 0.0701 |
| n-Pentane, nC5 | 0.0206 | 0.0075 | 0.0726 |
| Neo-Pentane, neo | | | |
| Hexanes Plus, C6+ | 0.0016 | 0.0007 | 0.0067 |
| Argon, Ar | | | |
| Carbon Monoxide, CO | | | |
| Hydrogen, H2 | | | |
| Oxygen, O2 | | | |
| Helium, He | | | |
| Water, H2O | | | |
| Hydrogen Sulfide, H2S | | | |
| Totals | 100.0000 | 6.3380 | 100.0000 |

| Property | Total Sample | C6 Plus Fraction |
|------------------------|--------------|------------------|
| Pressure Base | 14.730 | |
| Temperature Base | 60.00 | |
| HCDP @ Sample Pressure | -21.388 | |
| Cricondentherm | -4.328 | |
| HV, Dry @ Base P, T | 1182.93 | |
| HV, Sat @ Base P, T | 1162.34 | |
| HV, Sat @ Sample P, T | 1182.93 | |
| Relative Density | 0.7092 | |
| C6+: 100 | | |

Sample

Date: 09/01/2024 Type:

Tech: Tipton, Joshua

Pressure: 380 psi Temp.: °F

Gauge: Gauge H2O:

Atm. Pressure: H2S:

Remarks:

Analysis

Date: 09/01/2024 Instrument:

Tech: Tipton, Joshua Cylinder: 377

Remarks:

Source Daily Summary

September 2024

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

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

| Day | Relative Density | Heating Value Wet | Heating Value Dry | Heating Value As Del | CO2 | N2 | C1 | C2 | C3 | IC4 | NC4 | IC5 | NC5 | C6 | C7 | C8 | C9 | C10 | Wobbe | CCT |
|-----|------------------|-------------------|-------------------|----------------------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|--------|
| 1 | 0.7608 | 1183.6 | 1204.5 | 1204.0 | 0.935 | 6.552 | 65.149 | 20.716 | 5.964 | 0.194 | 0.423 | 0.027 | 0.031 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1380.95 | 21.01 |
| 2 | 0.7585 | 1179.1 | 1200.0 | 1199.5 | 0.933 | 6.612 | 65.414 | 20.548 | 5.840 | 0.187 | 0.406 | 0.025 | 0.028 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 1377.84 | 19.51 |
| 3 | 0.7592 | 1180.4 | 1201.3 | 1200.8 | 0.933 | 6.592 | 65.350 | 20.556 | 5.926 | 0.182 | 0.401 | 0.025 | 0.028 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 1378.76 | 19.79 |
| 4 | 0.7584 | 1181.6 | 1202.5 | 1202.1 | 0.952 | 6.420 | 65.467 | 20.712 | 5.783 | 0.181 | 0.419 | 0.028 | 0.031 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1380.87 | 19.85 |
| 5 | 0.7612 | 1185.9 | 1206.9 | 1206.5 | 0.945 | 6.429 | 65.159 | 20.778 | 5.987 | 0.196 | 0.437 | 0.028 | 0.032 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.34 | 21.54 |
| 6 | 0.7587 | 1182.9 | 1203.8 | 1203.4 | 0.939 | 6.391 | 65.406 | 20.796 | 5.811 | 0.187 | 0.410 | 0.026 | 0.029 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 1382.07 | 19.83 |
| 7 | 0.7582 | 1180.0 | 1200.9 | 1200.4 | 0.933 | 6.534 | 65.507 | 20.541 | 5.804 | 0.193 | 0.426 | 0.026 | 0.030 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 1379.10 | 19.81 |
| 8 | 0.7516 | 1179.4 | 1200.3 | 1199.8 | 0.940 | 5.938 | 66.507 | 20.581 | 5.358 | 0.181 | 0.424 | 0.029 | 0.033 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1384.57 | 17.61 |
| 9 | 0.7470 | 1175.2 | 1196.1 | 1195.6 | 0.944 | 5.755 | 67.102 | 20.515 | 5.040 | 0.167 | 0.404 | 0.029 | 0.034 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.93 | 15.33 |
| 10 | 0.7537 | 1179.4 | 1200.3 | 1199.8 | 0.940 | 6.137 | 66.011 | 20.871 | 5.406 | 0.166 | 0.401 | 0.027 | 0.031 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1382.55 | 17.51 |
| 11 | 0.7448 | 1168.7 | 1189.4 | 1189.0 | 0.903 | 6.010 | 67.489 | 19.866 | 5.106 | 0.164 | 0.396 | 0.027 | 0.031 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1378.21 | 14.07 |
| 12 | 0.7587 | 1183.7 | 1204.7 | 1204.2 | 0.945 | 6.327 | 65.396 | 20.957 | 5.667 | 0.183 | 0.451 | 0.030 | 0.036 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.17 | 20.17 |
| 13 | 0.7597 | 1182.8 | 1203.8 | 1203.3 | 0.936 | 6.488 | 65.291 | 20.731 | 5.884 | 0.178 | 0.423 | 0.029 | 0.033 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.15 | 20.57 |
| 14 | 0.7593 | 1182.2 | 1203.2 | 1202.7 | 0.934 | 6.496 | 65.356 | 20.674 | 5.858 | 0.182 | 0.429 | 0.029 | 0.033 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1380.74 | 20.51 |
| 15 | 0.7615 | 1185.1 | 1206.1 | 1205.6 | 0.933 | 6.529 | 65.091 | 20.751 | 5.988 | 0.185 | 0.449 | 0.031 | 0.035 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1382.08 | 21.83 |
| 16 | 0.7611 | 1185.0 | 1206.0 | 1205.5 | 0.937 | 6.494 | 65.151 | 20.736 | 5.981 | 0.184 | 0.444 | 0.030 | 0.035 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1382.30 | 21.60 |
| 17 | 0.7606 | 1183.5 | 1204.4 | 1203.9 | 0.940 | 6.534 | 65.191 | 20.705 | 5.938 | 0.183 | 0.437 | 0.030 | 0.034 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.00 | 21.17 |
| 18 | 0.7258 | 1164.5 | 1185.1 | 1184.6 | 0.957 | 4.399 | 70.190 | 20.083 | 3.878 | 0.130 | 0.308 | 0.023 | 0.026 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 1391.74 | 2.90 |
| 19 | 0.7013 | 1151.4 | 1171.8 | 1171.4 | 0.961 | 2.900 | 73.672 | 19.672 | 2.451 | 0.094 | 0.209 | 0.017 | 0.019 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 1399.51 | -10.02 |
| 20 | 0.7506 | 1177.2 | 1198.1 | 1197.7 | 0.939 | 5.975 | 66.633 | 20.461 | 5.350 | 0.171 | 0.406 | 0.027 | 0.031 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.02 | 16.27 |
| 21 | 0.7611 | 1185.9 | 1206.9 | 1206.4 | 0.926 | 6.452 | 65.198 | 20.707 | 6.006 | 0.193 | 0.445 | 0.030 | 0.034 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.39 | 21.84 |
| 22 | 0.7595 | 1183.5 | 1204.4 | 1204.0 | 0.926 | 6.446 | 65.449 | 20.519 | 5.968 | 0.202 | 0.425 | 0.027 | 0.031 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1382.06 | 20.88 |
| 23 | 0.7333 | 1175.2 | 1196.0 | 1195.6 | 0.916 | 4.510 | 69.193 | 20.447 | 4.402 | 0.151 | 0.328 | 0.022 | 0.026 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 1397.21 | 8.19 |
| 24 | 0.7066 | 1145.9 | 1166.2 | 1165.7 | 0.814 | 3.953 | 73.100 | 18.623 | 3.076 | 0.119 | 0.269 | 0.019 | 0.023 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 1387.50 | -5.83 |
| 25 | 0.6851 | 1117.9 | 1137.6 | 1137.2 | 0.761 | 3.728 | 76.242 | 16.839 | 2.145 | 0.077 | 0.176 | 0.013 | 0.016 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 1374.44 | -19.72 |
| 26 | 0.7202 | 1134.2 | 1154.3 | 1153.8 | 0.800 | 5.953 | 71.973 | 16.136 | 4.391 | 0.195 | 0.474 | 0.032 | 0.037 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1360.40 | 5.08 |
| 27 | 0.7523 | 1169.6 | 1190.3 | 1189.9 | 0.929 | 6.609 | 66.954 | 18.950 | 5.722 | 0.226 | 0.527 | 0.034 | 0.039 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1372.36 | 20.16 |
| 28 | 0.7575 | 1183.6 | 1204.6 | 1204.1 | 0.929 | 6.245 | 66.121 | 19.930 | 5.982 | 0.211 | 0.500 | 0.033 | 0.038 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.99 | 22.16 |
| 29 | 0.7570 | 1182.5 | 1203.4 | 1203.0 | 0.929 | 6.271 | 65.919 | 20.287 | 5.898 | 0.186 | 0.440 | 0.029 | 0.033 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.14 | 20.38 |
| 30 | 0.7562 | 1181.5 | 1202.4 | 1202.0 | 0.934 | 6.245 | 66.070 | 20.200 | 5.846 | 0.186 | 0.447 | 0.029 | 0.034 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1382.74 | 20.22 |
| Avg | 0.7480 | 1174.0 | 1195.2 | 1194.7 | 0.921 | 5.931 | 67.092 | 20.130 | 5.282 | 0.175 | 0.404 | 0.027 | 0.031 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1382.14 | 15.14 |

Source Daily Summary

September 2024

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

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

| Day | Relative Density | Heating Value Wet | Heating Value Dry | Heating Value As Del | CO2 | N2 | C1 | C2 | C3 | IC4 | NC4 | IC5 | NC5 | C6 | C7 | C8 | C9 | C10 | Wobbe | CCT |
|-----|------------------|-------------------|-------------------|----------------------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-----|
| 1 | 0.7598 | 1183.2 | 1204.2 | 1203.6 | 0.935 | 6.480 | 65.290 | 20.717 | 5.896 | 0.193 | 0.424 | 0.027 | 0.031 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.46 | |
| 2 | 0.7574 | 1179.0 | 1199.9 | 1199.2 | 0.935 | 6.513 | 65.540 | 20.620 | 5.754 | 0.183 | 0.397 | 0.025 | 0.028 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 1378.72 | |
| 3 | 0.7579 | 1179.4 | 1200.3 | 1199.4 | 0.934 | 6.538 | 65.497 | 20.580 | 5.809 | 0.183 | 0.400 | 0.025 | 0.028 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 1378.68 | |
| 4 | 0.7571 | 1179.1 | 1200.0 | 1199.4 | 0.943 | 6.464 | 65.654 | 20.531 | 5.762 | 0.179 | 0.406 | 0.026 | 0.029 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 1379.12 | |
| 5 | 0.7603 | 1185.7 | 1206.6 | 1206.2 | 0.948 | 6.355 | 65.268 | 20.835 | 5.896 | 0.192 | 0.435 | 0.029 | 0.033 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.87 | |
| 6 | 0.7575 | 1180.5 | 1201.5 | 1201.0 | 0.941 | 6.415 | 65.571 | 20.668 | 5.759 | 0.185 | 0.401 | 0.025 | 0.028 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 1380.47 | |
| 7 | 0.7580 | 1180.2 | 1201.1 | 1200.5 | 0.935 | 6.498 | 65.523 | 20.587 | 5.781 | 0.191 | 0.421 | 0.026 | 0.030 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 1379.50 | |
| 8 | 0.7581 | 1180.1 | 1201.0 | 1200.3 | 0.932 | 6.509 | 65.508 | 20.603 | 5.765 | 0.193 | 0.428 | 0.026 | 0.029 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 1379.45 | |
| 9 | 0.7571 | 1178.4 | 1199.2 | 1198.4 | 0.931 | 6.529 | 65.544 | 20.676 | 5.671 | 0.173 | 0.410 | 0.027 | 0.031 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1378.24 | |
| 10 | 0.7567 | 1178.7 | 1199.6 | 1199.0 | 0.932 | 6.469 | 65.583 | 20.720 | 5.669 | 0.166 | 0.397 | 0.026 | 0.029 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 1379.01 | |
| 11 | 0.7505 | 1174.0 | 1194.8 | 1194.3 | 0.925 | 6.188 | 66.511 | 20.459 | 5.283 | 0.166 | 0.401 | 0.027 | 0.031 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1379.17 | |
| 12 | 0.7553 | 1178.4 | 1199.2 | 1198.6 | 0.934 | 6.360 | 65.818 | 20.692 | 5.540 | 0.170 | 0.421 | 0.029 | 0.032 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 1379.86 | |
| 13 | 0.7597 | 1184.6 | 1205.6 | 1205.1 | 0.936 | 6.388 | 65.341 | 20.757 | 5.883 | 0.182 | 0.439 | 0.030 | 0.034 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.12 | |
| 14 | 0.7577 | 1180.3 | 1201.2 | 1200.6 | 0.936 | 6.466 | 65.526 | 20.667 | 5.748 | 0.177 | 0.413 | 0.028 | 0.032 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1379.88 | |
| 15 | 0.7594 | 1182.8 | 1203.7 | 1203.0 | 0.935 | 6.467 | 65.371 | 20.677 | 5.855 | 0.183 | 0.439 | 0.030 | 0.034 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.33 | |
| 16 | 0.7599 | 1184.2 | 1205.1 | 1204.6 | 0.937 | 6.429 | 65.315 | 20.730 | 5.895 | 0.181 | 0.441 | 0.030 | 0.035 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1382.46 | |
| 17 | 0.7600 | 1184.1 | 1205.0 | 1204.4 | 0.940 | 6.437 | 65.303 | 20.737 | 5.885 | 0.184 | 0.440 | 0.030 | 0.035 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1382.24 | |
| 18 | 0.7603 | 1185.2 | 1206.2 | 1205.6 | 0.938 | 6.399 | 65.284 | 20.770 | 5.908 | 0.184 | 0.444 | 0.031 | 0.035 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.27 | |
| 19 | 0.7601 | 1184.8 | 1205.8 | 1205.4 | 0.938 | 6.409 | 65.285 | 20.763 | 5.911 | 0.182 | 0.438 | 0.030 | 0.035 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.03 | |
| 20 | 0.7603 | 1184.5 | 1205.5 | 1205.0 | 0.938 | 6.439 | 65.293 | 20.698 | 5.925 | 0.187 | 0.446 | 0.030 | 0.035 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1382.57 | |
| 21 | 0.7595 | 1182.8 | 1203.8 | 1203.4 | 0.929 | 6.484 | 65.365 | 20.643 | 5.884 | 0.185 | 0.438 | 0.029 | 0.034 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.27 | |
| 22 | 0.7585 | 1183.7 | 1204.6 | 1204.2 | 0.926 | 6.341 | 65.581 | 20.581 | 5.876 | 0.201 | 0.426 | 0.028 | 0.032 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.20 | |
| 23 | 0.7483 | 1172.7 | 1193.4 | 1193.0 | 0.891 | 6.105 | 67.065 | 19.911 | 5.396 | 0.179 | 0.390 | 0.026 | 0.030 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 1379.73 | |
| 24 | 0.7010 | 1137.3 | 1157.5 | 1156.9 | 0.786 | 3.989 | 73.796 | 18.293 | 2.749 | 0.105 | 0.237 | 0.018 | 0.021 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 1382.61 | |
| 25 | 0.6880 | 1110.7 | 1130.4 | 1129.7 | 0.666 | 4.572 | 76.038 | 15.778 | 2.573 | 0.098 | 0.232 | 0.017 | 0.021 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 1362.94 | |
| 26 | 0.7057 | 1121.8 | 1141.6 | 1141.0 | 0.749 | 5.433 | 73.813 | 15.832 | 3.589 | 0.154 | 0.369 | 0.025 | 0.029 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 1359.23 | |
| 27 | 0.7359 | 1150.5 | 1170.9 | 1170.3 | 0.868 | 6.320 | 69.584 | 17.374 | 5.033 | 0.218 | 0.520 | 0.034 | 0.039 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1365.02 | |
| 28 | 0.7536 | 1176.8 | 1197.6 | 1197.0 | 0.932 | 6.288 | 66.618 | 19.669 | 5.716 | 0.209 | 0.490 | 0.032 | 0.037 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1379.62 | |
| 29 | 0.7573 | 1184.4 | 1205.4 | 1204.6 | 0.927 | 6.184 | 65.931 | 20.333 | 5.906 | 0.192 | 0.452 | 0.030 | 0.034 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1385.10 | |
| 30 | 0.7559 | 1181.8 | 1202.7 | 1202.4 | 0.929 | 6.208 | 66.088 | 20.260 | 5.820 | 0.183 | 0.442 | 0.029 | 0.034 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.34 | |
| Avg | 0.7509 | 1174.0 | 1195.1 | 1194.5 | 0.911 | 6.223 | 66.663 | 20.072 | 5.471 | 0.179 | 0.415 | 0.028 | 0.031 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1379.25 | |

Source Daily Summary

September 2024

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

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

| Day | Relative Density | Heating Value Wet | Heating Value Dry | Heating Value As Del | CO2 | N2 | C1 | C2 | C3 | IC4 | NC4 | IC5 | NC5 | C6 | C7 | C8 | C9 | C10 | Wobbe | CCT |
|-----|------------------|-------------------|-------------------|----------------------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-----|
| 1 | 0.7601 | 1181.1 | 1202.0 | 1201.4 | 0.942 | 6.624 | 65.225 | 20.607 | 5.931 | 0.194 | 0.415 | 0.026 | 0.030 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 1378.74 | |
| 2 | 0.7579 | 1176.6 | 1197.5 | 1196.9 | 0.941 | 6.696 | 65.474 | 20.434 | 5.817 | 0.187 | 0.397 | 0.025 | 0.028 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 1375.47 | |
| 3 | 0.7593 | 1179.9 | 1200.8 | 1200.2 | 0.942 | 6.628 | 65.343 | 20.501 | 5.930 | 0.189 | 0.409 | 0.026 | 0.029 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 1378.00 | |
| 4 | 0.7606 | 1184.0 | 1204.9 | 1204.3 | 0.954 | 6.484 | 65.200 | 20.734 | 5.934 | 0.194 | 0.434 | 0.029 | 0.033 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.55 | |
| 5 | 0.7599 | 1182.5 | 1203.4 | 1202.8 | 0.944 | 6.525 | 65.248 | 20.706 | 5.908 | 0.193 | 0.414 | 0.026 | 0.030 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 1380.44 | |
| 6 | 0.7598 | 1181.2 | 1202.1 | 1201.5 | 0.939 | 6.601 | 65.293 | 20.577 | 5.896 | 0.200 | 0.431 | 0.027 | 0.030 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 1379.03 | |
| 7 | 0.7592 | 1179.8 | 1200.7 | 1200.1 | 0.941 | 6.626 | 65.351 | 20.545 | 5.846 | 0.200 | 0.431 | 0.026 | 0.029 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 1377.98 | |
| 8 | 0.7592 | 1179.7 | 1200.6 | 1200.0 | 0.940 | 6.626 | 65.262 | 20.714 | 5.793 | 0.181 | 0.419 | 0.028 | 0.031 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 1377.96 | |
| 9 | 0.7582 | 1178.7 | 1199.6 | 1198.9 | 0.938 | 6.605 | 65.335 | 20.743 | 5.749 | 0.170 | 0.401 | 0.026 | 0.029 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 1377.60 | |
| 10 | 0.7592 | 1180.1 | 1201.0 | 1200.4 | 0.942 | 6.607 | 65.305 | 20.645 | 5.831 | 0.179 | 0.426 | 0.028 | 0.032 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 1378.31 | |
| 11 | 0.7589 | 1180.3 | 1201.2 | 1200.6 | 0.936 | 6.573 | 65.340 | 20.679 | 5.805 | 0.178 | 0.424 | 0.028 | 0.032 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 1378.85 | |
| 12 | 0.7615 | 1185.3 | 1206.3 | 1205.7 | 0.941 | 6.497 | 65.119 | 20.748 | 5.976 | 0.190 | 0.458 | 0.031 | 0.035 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 1382.42 | |
| 13 | 0.7602 | 1183.0 | 1203.9 | 1203.4 | 0.941 | 6.527 | 65.232 | 20.707 | 5.902 | 0.184 | 0.435 | 0.030 | 0.035 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 1380.77 | |
| 14 | 0.7607 | 1182.7 | 1203.6 | 1203.0 | 0.937 | 6.596 | 65.182 | 20.629 | 5.958 | 0.188 | 0.440 | 0.030 | 0.034 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 1379.98 | |
| 15 | 0.7618 | 1184.6 | 1205.6 | 1205.0 | 0.939 | 6.573 | 65.062 | 20.714 | 5.991 | 0.191 | 0.456 | 0.032 | 0.036 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.30 | |
| 16 | 0.7612 | 1184.4 | 1205.3 | 1204.8 | 0.939 | 6.533 | 65.153 | 20.686 | 5.979 | 0.188 | 0.450 | 0.031 | 0.036 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.54 | |
| 17 | 0.7608 | 1183.2 | 1204.2 | 1203.5 | 0.940 | 6.569 | 65.179 | 20.657 | 5.950 | 0.188 | 0.446 | 0.031 | 0.035 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 1380.52 | |
| 18 | 0.7625 | 1187.2 | 1208.3 | 1207.7 | 0.937 | 6.487 | 64.982 | 20.817 | 6.053 | 0.191 | 0.458 | 0.032 | 0.036 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.66 | |
| 19 | 0.7611 | 1184.1 | 1205.0 | 1204.5 | 0.941 | 6.540 | 65.162 | 20.676 | 5.969 | 0.190 | 0.449 | 0.031 | 0.036 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.27 | |
| 20 | 0.7615 | 1183.2 | 1204.2 | 1203.6 | 0.935 | 6.640 | 65.112 | 20.587 | 6.002 | 0.193 | 0.458 | 0.031 | 0.035 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 1379.91 | |
| 21 | 0.7615 | 1186.1 | 1207.1 | 1206.6 | 0.932 | 6.465 | 65.130 | 20.754 | 6.001 | 0.197 | 0.447 | 0.031 | 0.035 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.31 | |
| 22 | 0.7603 | 1184.1 | 1205.1 | 1204.5 | 0.933 | 6.477 | 65.338 | 20.541 | 6.003 | 0.208 | 0.432 | 0.028 | 0.032 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 1382.00 | |
| 23 | 0.7610 | 1186.0 | 1207.0 | 1206.4 | 0.931 | 6.429 | 65.280 | 20.567 | 6.088 | 0.202 | 0.435 | 0.029 | 0.032 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.59 | |
| 24 | 0.7535 | 1180.9 | 1201.8 | 1201.2 | 0.905 | 6.079 | 66.526 | 20.038 | 5.726 | 0.210 | 0.447 | 0.030 | 0.034 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 1384.44 | |
| 25 | 0.7568 | 1182.5 | 1203.4 | 1202.8 | 0.928 | 6.255 | 66.093 | 20.073 | 5.886 | 0.211 | 0.477 | 0.032 | 0.037 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.31 | |
| 26 | 0.7494 | 1162.8 | 1183.4 | 1182.8 | 0.928 | 6.750 | 67.655 | 18.054 | 5.703 | 0.246 | 0.577 | 0.038 | 0.042 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1367.06 | |
| 27 | 0.7549 | 1173.6 | 1194.4 | 1193.9 | 0.947 | 6.578 | 66.546 | 19.278 | 5.806 | 0.231 | 0.530 | 0.035 | 0.040 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1374.71 | |
| 28 | 0.7592 | 1185.6 | 1206.6 | 1206.1 | 0.940 | 6.264 | 65.850 | 20.097 | 6.056 | 0.216 | 0.497 | 0.034 | 0.038 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1384.82 | |
| 29 | 0.7599 | 1186.7 | 1207.8 | 1207.2 | 0.939 | 6.263 | 65.574 | 20.447 | 6.045 | 0.197 | 0.460 | 0.031 | 0.036 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 1385.51 | |
| 30 | 0.7571 | 1182.1 | 1203.1 | 1202.5 | 0.945 | 6.275 | 65.977 | 20.186 | 5.895 | 0.195 | 0.454 | 0.031 | 0.035 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1382.64 | |
| Avg | 0.7593 | 1182.0 | 1202.7 | 1202.1 | 0.938 | 6.513 | 65.484 | 20.438 | 5.914 | 0.196 | 0.447 | 0.030 | 0.034 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 1380.22 | |

Gas Composition and Properties

Effective October 1, 2021

Attachment B
Page 8 of 24

Source #: 2501030
Name: LIGNITE PLANT

| Component | Mole % | Liquid Content | Mass % | Property | Total Sample | C6 Plus Fraction |
|-----------------------|-----------------|----------------|-----------------|------------------------|--------------|------------------|
| Carbon Dioxide, CO2 | 0.2283 | | 0.5237 | Pressure Base | 14.730 | |
| Nitrogen, N2 | 2.9631 | | 4.3268 | Temperature Base | 60.00 | |
| Methane, C1 | 79.4957 | | 66.4767 | HCDP @ Sample Pressure | | |
| Ethane, C2 | 15.2390 | 4.0765 | 23.8852 | Cricondentherm | -32.804 | |
| Propane, C3 | 2.0456 | 0.5637 | 4.7019 | HV, Dry @ Base P, T | 1130.73 | |
| iso-Butane, iC4 | 0.0244 | 0.0080 | 0.0739 | HV, Sat @ Base P, T | 1111.05 | |
| n-Butane, nC4 | 0.0039 | 0.0012 | 0.0118 | HV, Sat @ Sample P, T | 1130.73 | |
| iso-Pentane, iC5 | | | | Relative Density | 0.6640 | |
| n-Pentane, nC5 | | | | | | |
| Neo-Pentane, neo | | | | | | |
| Hexanes Plus, C6+ | | | | | | |
| Argon, Ar | | | | | | |
| Carbon Monoxide, CO | | | | | | |
| Hydrogen, H2 | | | | | | |
| Oxygen, O2 | | | | | | |
| Helium, He | | | | | | |
| Water, H2O | | | | | | |
| Hydrogen Sulfide, H2S | | | | | | |
| | | | | C6+: 100 | | |
| Totals | 100.0000 | 4.6490 | 100.0000 | | | |

Sample

Date: 10/01/2021 Type:

Tech: Wayne Sampson

Pressure: Temp.:

Gauge: H2O:

Atm. Pressure: H2S:

Remarks:

Analysis

Date: Instrument:

Tech: Cylinder:

Remarks:

Source Daily Summary

September 2024

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

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

| Day | Relative Density | Heating Value Wet | Heating Value Dry | Heating Value As Del | CO2 | N2 | C1 | C2 | C3 | IC4 | NC4 | IC5 | NC5 | C6 | C7 | C8 | C9 | C10 | Wobbe | CCT |
|-----|------------------|-------------------|-------------------|----------------------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-----|
| 1 | 0.7244 | 1168.3 | 1188.9 | 1188.4 | 0.985 | 4.003 | 70.139 | 21.001 | 3.311 | 0.140 | 0.346 | 0.028 | 0.036 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1396.89 | |
| 2 | 0.7233 | 1166.3 | 1187.0 | 1186.5 | 0.986 | 4.015 | 70.281 | 20.925 | 3.242 | 0.138 | 0.340 | 0.028 | 0.035 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1395.67 | |
| 3 | 0.7252 | 1166.3 | 1187.0 | 1186.4 | 0.989 | 4.190 | 70.018 | 20.891 | 3.331 | 0.144 | 0.359 | 0.030 | 0.037 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 1393.78 | |
| 4 | 0.7246 | 1162.2 | 1182.8 | 1182.3 | 0.994 | 4.380 | 70.207 | 20.432 | 3.387 | 0.149 | 0.370 | 0.031 | 0.038 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 1389.41 | |
| 5 | 0.7192 | 1157.1 | 1177.6 | 1177.1 | 0.974 | 4.211 | 70.822 | 20.407 | 3.064 | 0.133 | 0.321 | 0.026 | 0.032 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1388.58 | |
| 6 | 0.7220 | 1163.6 | 1184.2 | 1183.7 | 0.974 | 4.084 | 70.678 | 20.300 | 3.409 | 0.141 | 0.344 | 0.027 | 0.033 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1393.62 | |
| 7 | 0.7219 | 1162.1 | 1182.7 | 1182.2 | 0.980 | 4.144 | 70.636 | 20.368 | 3.316 | 0.139 | 0.343 | 0.029 | 0.036 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1392.02 | |
| 8 | 0.7205 | 1161.0 | 1181.6 | 1181.1 | 0.978 | 4.085 | 70.863 | 20.260 | 3.259 | 0.137 | 0.342 | 0.029 | 0.036 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 1392.02 | |
| 9 | 0.7251 | 1166.9 | 1187.5 | 1187.0 | 0.971 | 4.173 | 70.578 | 19.982 | 3.580 | 0.167 | 0.435 | 0.042 | 0.055 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 1394.53 | |
| 10 | 0.7235 | 1166.0 | 1186.7 | 1186.2 | 0.975 | 4.082 | 70.574 | 20.317 | 3.400 | 0.154 | 0.387 | 0.035 | 0.049 | 0.026 | 0.000 | 0.000 | 0.000 | 0.000 | 1395.10 | |
| 11 | 0.7213 | 1161.4 | 1182.0 | 1181.5 | 0.988 | 4.125 | 70.471 | 20.809 | 3.067 | 0.137 | 0.333 | 0.027 | 0.033 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1391.68 | |
| 12 | 0.7211 | 1163.3 | 1183.9 | 1183.3 | 0.965 | 4.031 | 70.514 | 20.870 | 3.075 | 0.138 | 0.341 | 0.027 | 0.033 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1394.09 | |
| 13 | 0.7198 | 1160.3 | 1180.8 | 1180.3 | 0.980 | 4.065 | 70.870 | 20.392 | 3.144 | 0.140 | 0.340 | 0.027 | 0.033 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1391.78 | |
| 14 | 0.7213 | 1161.6 | 1182.1 | 1181.6 | 0.987 | 4.111 | 70.630 | 20.536 | 3.179 | 0.142 | 0.344 | 0.028 | 0.035 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1391.96 | |
| 15 | 0.7228 | 1163.4 | 1184.0 | 1183.5 | 0.986 | 4.146 | 70.471 | 20.520 | 3.293 | 0.148 | 0.361 | 0.029 | 0.036 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1392.65 | |
| 16 | 0.7195 | 1159.0 | 1179.5 | 1179.0 | 0.976 | 4.119 | 71.081 | 19.996 | 3.255 | 0.144 | 0.353 | 0.029 | 0.037 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1390.54 | |
| 17 | 0.7207 | 1160.0 | 1180.6 | 1180.0 | 0.983 | 4.162 | 70.706 | 20.413 | 3.194 | 0.138 | 0.334 | 0.027 | 0.034 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1390.60 | |
| 18 | 0.7201 | 1162.6 | 1183.2 | 1182.7 | 0.982 | 3.950 | 70.918 | 20.362 | 3.244 | 0.138 | 0.336 | 0.027 | 0.034 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1394.24 | |
| 19 | 0.7192 | 1161.1 | 1181.6 | 1181.2 | 0.985 | 3.946 | 71.065 | 20.243 | 3.238 | 0.134 | 0.322 | 0.026 | 0.032 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1393.37 | |
| 20 | 0.7216 | 1163.4 | 1184.0 | 1183.5 | 0.981 | 4.038 | 70.703 | 20.397 | 3.337 | 0.139 | 0.337 | 0.027 | 0.033 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1393.81 | |
| 21 | 0.7187 | 1160.6 | 1181.2 | 1180.7 | 0.968 | 3.953 | 71.145 | 20.184 | 3.220 | 0.135 | 0.328 | 0.026 | 0.032 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1393.32 | |
| 22 | 0.7093 | 1153.9 | 1174.3 | 1173.8 | 0.960 | 3.499 | 72.396 | 20.038 | 2.648 | 0.119 | 0.281 | 0.023 | 0.028 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1394.33 | |
| 23 | 0.7149 | 1143.4 | 1163.6 | 1163.1 | 0.969 | 4.661 | 70.804 | 20.712 | 2.413 | 0.114 | 0.268 | 0.022 | 0.028 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1376.16 | |
| 24 | 0.7157 | 1143.4 | 1163.6 | 1163.1 | 0.967 | 4.735 | 70.642 | 20.793 | 2.425 | 0.114 | 0.267 | 0.022 | 0.027 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1375.44 | |
| 25 | 0.7161 | 1146.2 | 1166.5 | 1166.0 | 0.966 | 4.600 | 70.744 | 20.679 | 2.551 | 0.119 | 0.281 | 0.023 | 0.028 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1378.48 | |
| 26 | 0.7198 | 1152.8 | 1173.2 | 1172.7 | 0.960 | 4.553 | 70.499 | 20.490 | 3.024 | 0.124 | 0.290 | 0.023 | 0.029 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1382.82 | |
| 27 | 0.7194 | 1151.2 | 1171.6 | 1171.1 | 0.958 | 4.618 | 70.466 | 20.574 | 2.897 | 0.126 | 0.299 | 0.024 | 0.030 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.27 | |
| 28 | 0.7178 | 1145.5 | 1165.8 | 1165.4 | 0.961 | 4.803 | 70.594 | 20.442 | 2.715 | 0.123 | 0.297 | 0.024 | 0.031 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1376.08 | |
| 29 | 0.7267 | 1159.4 | 1179.9 | 1179.4 | 0.954 | 4.808 | 69.474 | 20.839 | 3.447 | 0.122 | 0.293 | 0.024 | 0.030 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1384.10 | |
| 30 | 0.7251 | 1152.6 | 1173.0 | 1172.6 | 0.956 | 5.068 | 69.616 | 20.589 | 3.287 | 0.124 | 0.297 | 0.024 | 0.030 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1377.53 | |
| Avg | 0.7207 | 1159.0 | 1179.3 | 1178.9 | 0.975 | 4.245 | 70.620 | 20.492 | 3.132 | 0.135 | 0.330 | 0.027 | 0.034 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1389.20 | |

Source Daily Summary

September 2024

Source #: 043
Name: BISMARCK STN-CLEVELAND STN

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

| Day | Relative Density | Heating Value Wet | Heating Value Dry | Heating Value As Del | CO2 | N2 | C1 | C2 | C3 | IC4 | NC4 | IC5 | NC5 | C6 | C7 | C8 | C9 | C10 | Wobbe | CCT |
|-----|------------------|-------------------|-------------------|----------------------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-----|
| 1 | 0.7577 | 1181.3 | 1202.2 | 1201.2 | 0.897 | 6.456 | 65.653 | 20.427 | 5.902 | 0.189 | 0.417 | 0.025 | 0.027 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.17 | |
| 2 | 0.7566 | 1179.0 | 1199.9 | 1198.9 | 0.896 | 6.498 | 65.805 | 20.273 | 5.871 | 0.188 | 0.411 | 0.024 | 0.026 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 1379.45 | |
| 3 | 0.7584 | 1183.0 | 1203.9 | 1202.9 | 0.898 | 6.423 | 65.646 | 20.347 | 6.001 | 0.191 | 0.431 | 0.026 | 0.029 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1382.43 | |
| 4 | 0.7590 | 1185.8 | 1206.8 | 1205.7 | 0.914 | 6.282 | 65.562 | 20.587 | 5.949 | 0.191 | 0.447 | 0.028 | 0.031 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1385.15 | |
| 5 | 0.7582 | 1183.6 | 1204.6 | 1203.5 | 0.902 | 6.356 | 65.593 | 20.566 | 5.907 | 0.192 | 0.424 | 0.025 | 0.027 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.38 | |
| 6 | 0.7582 | 1182.6 | 1203.5 | 1202.5 | 0.897 | 6.422 | 65.674 | 20.372 | 5.925 | 0.201 | 0.447 | 0.026 | 0.028 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1382.23 | |
| 7 | 0.7575 | 1181.2 | 1202.2 | 1201.1 | 0.894 | 6.447 | 65.736 | 20.349 | 5.869 | 0.198 | 0.445 | 0.026 | 0.028 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.24 | |
| 8 | 0.7556 | 1178.2 | 1199.0 | 1198.0 | 0.894 | 6.461 | 65.862 | 20.402 | 5.738 | 0.170 | 0.413 | 0.026 | 0.028 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1379.36 | |
| 9 | 0.7572 | 1181.2 | 1202.1 | 1201.1 | 0.894 | 6.426 | 65.649 | 20.547 | 5.832 | 0.171 | 0.420 | 0.026 | 0.028 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.46 | |
| 10 | 0.7568 | 1180.2 | 1201.1 | 1200.1 | 0.901 | 6.435 | 65.786 | 20.378 | 5.821 | 0.177 | 0.436 | 0.027 | 0.030 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1380.68 | |
| 11 | 0.7569 | 1181.3 | 1202.2 | 1201.3 | 0.894 | 6.395 | 65.751 | 20.473 | 5.807 | 0.177 | 0.438 | 0.028 | 0.030 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.78 | |
| 12 | 0.7596 | 1186.3 | 1207.3 | 1206.2 | 0.898 | 6.328 | 65.511 | 20.546 | 5.989 | 0.187 | 0.466 | 0.030 | 0.033 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1385.25 | |
| 13 | 0.7582 | 1183.7 | 1204.6 | 1203.6 | 0.899 | 6.352 | 65.640 | 20.509 | 5.908 | 0.182 | 0.440 | 0.028 | 0.031 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.49 | |
| 14 | 0.7594 | 1184.7 | 1205.7 | 1204.6 | 0.896 | 6.412 | 65.524 | 20.449 | 6.004 | 0.188 | 0.457 | 0.030 | 0.032 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.54 | |
| 15 | 0.7598 | 1185.8 | 1206.8 | 1205.7 | 0.897 | 6.386 | 65.481 | 20.486 | 6.022 | 0.188 | 0.467 | 0.031 | 0.033 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1384.40 | |
| 16 | 0.7596 | 1186.0 | 1207.0 | 1205.9 | 0.901 | 6.347 | 65.536 | 20.464 | 6.026 | 0.187 | 0.464 | 0.030 | 0.033 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1384.83 | |
| 17 | 0.7597 | 1185.6 | 1206.6 | 1205.5 | 0.903 | 6.376 | 65.493 | 20.490 | 6.014 | 0.189 | 0.462 | 0.030 | 0.033 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1384.32 | |
| 18 | 0.7610 | 1188.7 | 1209.8 | 1208.7 | 0.899 | 6.312 | 65.351 | 20.614 | 6.083 | 0.191 | 0.474 | 0.031 | 0.035 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1386.78 | |
| 19 | 0.7598 | 1186.1 | 1207.1 | 1206.1 | 0.900 | 6.352 | 65.490 | 20.524 | 6.009 | 0.190 | 0.463 | 0.030 | 0.033 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1384.89 | |
| 20 | 0.7604 | 1186.2 | 1207.2 | 1206.1 | 0.894 | 6.420 | 65.420 | 20.466 | 6.058 | 0.193 | 0.474 | 0.031 | 0.033 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1384.32 | |
| 21 | 0.7591 | 1186.5 | 1207.5 | 1206.5 | 0.889 | 6.284 | 65.574 | 20.552 | 5.985 | 0.194 | 0.452 | 0.029 | 0.032 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1385.92 | |
| 22 | 0.7588 | 1185.7 | 1206.7 | 1205.5 | 0.889 | 6.302 | 65.677 | 20.392 | 6.024 | 0.208 | 0.444 | 0.027 | 0.030 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1385.30 | |
| 23 | 0.7596 | 1187.6 | 1208.6 | 1207.7 | 0.887 | 6.264 | 65.608 | 20.411 | 6.106 | 0.204 | 0.451 | 0.028 | 0.031 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1386.78 | |
| 24 | 0.7531 | 1182.5 | 1203.5 | 1202.6 | 0.869 | 5.995 | 66.672 | 19.935 | 5.796 | 0.200 | 0.462 | 0.030 | 0.033 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1386.78 | |
| 25 | 0.7508 | 1173.3 | 1194.0 | 1193.1 | 0.888 | 6.314 | 67.150 | 19.141 | 5.715 | 0.211 | 0.502 | 0.032 | 0.036 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1377.99 | |
| 26 | 0.7486 | 1164.2 | 1184.8 | 1183.8 | 0.885 | 6.655 | 68.115 | 17.531 | 5.792 | 0.265 | 0.657 | 0.042 | 0.046 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.37 | |
| 27 | 0.7530 | 1175.0 | 1195.8 | 1194.7 | 0.900 | 6.393 | 67.029 | 18.939 | 5.858 | 0.235 | 0.561 | 0.035 | 0.039 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 1378.02 | |
| 28 | 0.7572 | 1186.1 | 1207.1 | 1205.8 | 0.892 | 6.124 | 66.248 | 19.880 | 6.055 | 0.215 | 0.508 | 0.033 | 0.036 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 1387.16 | |
| 29 | 0.7569 | 1185.5 | 1206.5 | 1205.2 | 0.892 | 6.134 | 66.192 | 19.983 | 6.039 | 0.199 | 0.484 | 0.031 | 0.034 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1386.76 | |
| 30 | 0.7547 | 1182.7 | 1203.7 | 1202.5 | 0.900 | 6.086 | 66.304 | 20.191 | 5.829 | 0.186 | 0.441 | 0.027 | 0.029 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1385.52 | |
| Avg | 0.7574 | 1183.0 | 1203.6 | 1202.5 | 0.895 | 6.348 | 65.891 | 20.208 | 5.931 | 0.195 | 0.462 | 0.029 | 0.032 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1382.99 | |

Source Daily Summary

September 2024

Source #: 063
Name: CLEVELAND STN-MAPLETON

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

| Day | Relative Density | Heating Value Wet | Heating Value Dry | Heating Value As Del | CO2 | N2 | C1 | C2 | C3 | IC4 | NC4 | IC5 | NC5 | C6 | C7 | C8 | C9 | C10 | Wobbe | CCT |
|-----|------------------|-------------------|-------------------|----------------------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-----|
| 1 | 0.7608 | 1184.1 | 1205.0 | 1204.7 | 0.934 | 6.523 | 65.222 | 20.606 | 6.025 | 0.200 | 0.426 | 0.027 | 0.029 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.55 | |
| 2 | 0.7589 | 1180.8 | 1201.7 | 1201.4 | 0.936 | 6.546 | 65.402 | 20.561 | 5.898 | 0.192 | 0.405 | 0.026 | 0.027 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 1379.40 | |
| 3 | 0.7576 | 1178.0 | 1198.9 | 1198.6 | 0.934 | 6.598 | 65.554 | 20.437 | 5.836 | 0.189 | 0.396 | 0.025 | 0.026 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 1377.33 | |
| 4 | 0.7595 | 1181.9 | 1202.9 | 1202.6 | 0.935 | 6.528 | 65.382 | 20.520 | 5.971 | 0.191 | 0.411 | 0.027 | 0.029 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 1380.27 | |
| 5 | 0.7592 | 1183.2 | 1204.1 | 1203.8 | 0.952 | 6.402 | 65.410 | 20.681 | 5.880 | 0.187 | 0.420 | 0.028 | 0.030 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.96 | |
| 6 | 0.7588 | 1182.0 | 1202.9 | 1202.6 | 0.941 | 6.455 | 65.429 | 20.639 | 5.877 | 0.192 | 0.405 | 0.025 | 0.027 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1380.91 | |
| 7 | 0.7598 | 1182.7 | 1203.7 | 1203.4 | 0.936 | 6.505 | 65.354 | 20.582 | 5.926 | 0.202 | 0.432 | 0.027 | 0.029 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1380.94 | |
| 8 | 0.7585 | 1180.2 | 1201.1 | 1200.8 | 0.934 | 6.548 | 65.483 | 20.506 | 5.840 | 0.200 | 0.427 | 0.026 | 0.028 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 1379.07 | |
| 9 | 0.7573 | 1178.4 | 1199.3 | 1199.0 | 0.933 | 6.549 | 65.522 | 20.625 | 5.732 | 0.174 | 0.403 | 0.027 | 0.029 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 1378.07 | |
| 10 | 0.7577 | 1179.5 | 1200.3 | 1200.1 | 0.932 | 6.522 | 65.446 | 20.711 | 5.765 | 0.169 | 0.396 | 0.026 | 0.027 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 1378.95 | |
| 11 | 0.7579 | 1179.5 | 1200.4 | 1200.1 | 0.940 | 6.528 | 65.508 | 20.575 | 5.790 | 0.177 | 0.417 | 0.028 | 0.030 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 1378.76 | |
| 12 | 0.7579 | 1180.2 | 1201.1 | 1200.8 | 0.932 | 6.488 | 65.515 | 20.623 | 5.782 | 0.177 | 0.418 | 0.028 | 0.030 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 1379.71 | |
| 13 | 0.7608 | 1185.7 | 1206.7 | 1206.4 | 0.936 | 6.421 | 65.232 | 20.739 | 5.957 | 0.189 | 0.451 | 0.031 | 0.034 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.44 | |
| 14 | 0.7585 | 1181.5 | 1202.5 | 1202.2 | 0.939 | 6.458 | 65.469 | 20.623 | 5.848 | 0.180 | 0.417 | 0.028 | 0.031 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1380.66 | |
| 15 | 0.7599 | 1182.8 | 1203.8 | 1203.5 | 0.935 | 6.515 | 65.317 | 20.603 | 5.942 | 0.186 | 0.433 | 0.029 | 0.032 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 1380.91 | |
| 16 | 0.7605 | 1184.2 | 1205.2 | 1204.9 | 0.936 | 6.488 | 65.253 | 20.654 | 5.970 | 0.186 | 0.442 | 0.030 | 0.033 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.93 | |
| 17 | 0.7605 | 1184.9 | 1205.8 | 1205.5 | 0.941 | 6.435 | 65.284 | 20.664 | 5.976 | 0.187 | 0.442 | 0.030 | 0.033 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 1382.76 | |
| 18 | 0.7607 | 1184.6 | 1205.5 | 1205.2 | 0.942 | 6.469 | 65.240 | 20.672 | 5.976 | 0.188 | 0.441 | 0.030 | 0.033 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1382.24 | |
| 19 | 0.7614 | 1186.4 | 1207.4 | 1207.1 | 0.939 | 6.434 | 65.154 | 20.743 | 6.019 | 0.189 | 0.447 | 0.031 | 0.034 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.70 | |
| 20 | 0.7607 | 1184.8 | 1205.8 | 1205.5 | 0.940 | 6.460 | 65.258 | 20.652 | 5.981 | 0.191 | 0.445 | 0.030 | 0.033 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1382.52 | |
| 21 | 0.7606 | 1182.4 | 1203.4 | 1203.0 | 0.935 | 6.603 | 65.277 | 20.483 | 5.988 | 0.192 | 0.449 | 0.030 | 0.032 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 1379.82 | |
| 22 | 0.7610 | 1182.4 | 1203.4 | 1203.0 | 0.934 | 6.646 | 65.202 | 20.488 | 6.015 | 0.192 | 0.451 | 0.029 | 0.032 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 1379.43 | |
| 23 | 0.7610 | 1182.4 | 1203.4 | 1203.0 | 0.934 | 6.646 | 65.202 | 20.488 | 6.015 | 0.192 | 0.451 | 0.029 | 0.032 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 1379.43 | |
| 24 | 0.7607 | 1184.4 | 1205.3 | 1204.9 | 0.930 | 6.502 | 65.296 | 20.527 | 6.035 | 0.199 | 0.440 | 0.029 | 0.031 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.98 | |
| 25 | 0.7501 | 1176.0 | 1196.9 | 1196.5 | 0.893 | 6.068 | 66.980 | 19.818 | 5.551 | 0.195 | 0.425 | 0.029 | 0.032 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.99 | |
| 26 | 0.7516 | 1173.4 | 1194.2 | 1193.8 | 0.921 | 6.326 | 66.840 | 19.539 | 5.634 | 0.204 | 0.461 | 0.031 | 0.034 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1377.51 | |
| 27 | 0.7468 | 1158.0 | 1178.5 | 1178.2 | 0.922 | 6.812 | 68.242 | 17.390 | 5.664 | 0.258 | 0.614 | 0.041 | 0.044 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 | 1363.74 | |
| 28 | 0.7540 | 1174.5 | 1195.3 | 1195.0 | 0.938 | 6.459 | 66.776 | 19.141 | 5.830 | 0.235 | 0.535 | 0.036 | 0.039 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 1376.54 | |
| 29 | 0.7585 | 1185.7 | 1206.7 | 1206.3 | 0.931 | 6.217 | 65.894 | 20.162 | 6.034 | 0.211 | 0.474 | 0.032 | 0.035 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1385.46 | |
| 30 | 0.7574 | 1183.4 | 1204.4 | 1204.1 | 0.932 | 6.250 | 66.015 | 20.092 | 5.967 | 0.200 | 0.465 | 0.032 | 0.035 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.85 | |
| Avg | 0.7583 | 1181.0 | 1201.8 | 1201.5 | 0.934 | 6.480 | 65.639 | 20.351 | 5.891 | 0.194 | 0.441 | 0.029 | 0.032 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1380.16 | |

Source Daily Summary

September 2024

Source #: 061
Name: CLEVELAND STN-GRAFTON BDR

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

| Day | Relative Density | Heating Value Wet | Heating Value Dry | Heating Value As Del | CO2 | N2 | C1 | C2 | C3 | IC4 | NC4 | IC5 | NC5 | C6 | C7 | C8 | C9 | C10 | Wobbe | CCT |
|-----|------------------|-------------------|-------------------|----------------------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-----|
| 1 | 0.7611 | 1184.5 | 1205.4 | 1205.3 | 0.934 | 6.524 | 65.196 | 20.607 | 6.041 | 0.201 | 0.430 | 0.027 | 0.030 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.76 | |
| 2 | 0.7587 | 1180.3 | 1201.2 | 1201.1 | 0.937 | 6.556 | 65.432 | 20.529 | 5.889 | 0.192 | 0.405 | 0.026 | 0.028 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 1379.04 | |
| 3 | 0.7574 | 1177.4 | 1198.3 | 1198.1 | 0.938 | 6.609 | 65.585 | 20.403 | 5.826 | 0.188 | 0.395 | 0.025 | 0.027 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 1376.84 | |
| 4 | 0.7595 | 1181.9 | 1202.9 | 1202.7 | 0.935 | 6.532 | 65.382 | 20.510 | 5.975 | 0.191 | 0.412 | 0.027 | 0.029 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 1380.22 | |
| 5 | 0.7599 | 1184.4 | 1205.4 | 1205.3 | 0.952 | 6.389 | 65.341 | 20.710 | 5.920 | 0.190 | 0.427 | 0.029 | 0.031 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1382.79 | |
| 6 | 0.7590 | 1182.3 | 1203.3 | 1203.1 | 0.941 | 6.454 | 65.412 | 20.639 | 5.888 | 0.194 | 0.409 | 0.026 | 0.028 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.12 | |
| 7 | 0.7601 | 1183.3 | 1204.2 | 1204.1 | 0.936 | 6.503 | 65.321 | 20.590 | 5.946 | 0.204 | 0.436 | 0.027 | 0.030 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.25 | |
| 8 | 0.7585 | 1180.1 | 1201.0 | 1200.9 | 0.934 | 6.552 | 65.494 | 20.487 | 5.843 | 0.200 | 0.429 | 0.026 | 0.029 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 1379.01 | |
| 9 | 0.7574 | 1178.4 | 1199.3 | 1199.1 | 0.933 | 6.554 | 65.524 | 20.609 | 5.736 | 0.175 | 0.406 | 0.027 | 0.029 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 1378.01 | |
| 10 | 0.7573 | 1178.5 | 1199.4 | 1199.2 | 0.932 | 6.542 | 65.497 | 20.666 | 5.742 | 0.168 | 0.394 | 0.025 | 0.027 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 1378.20 | |
| 11 | 0.7580 | 1179.7 | 1200.6 | 1200.4 | 0.941 | 6.517 | 65.511 | 20.578 | 5.792 | 0.177 | 0.418 | 0.028 | 0.030 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 1378.98 | |
| 12 | 0.7575 | 1179.5 | 1200.3 | 1200.2 | 0.933 | 6.502 | 65.558 | 20.587 | 5.763 | 0.176 | 0.416 | 0.028 | 0.030 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1379.13 | |
| 13 | 0.7607 | 1185.5 | 1206.5 | 1206.3 | 0.937 | 6.430 | 65.241 | 20.720 | 5.957 | 0.189 | 0.451 | 0.031 | 0.034 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.22 | |
| 14 | 0.7605 | 1185.2 | 1206.2 | 1206.0 | 0.939 | 6.425 | 65.248 | 20.726 | 5.969 | 0.186 | 0.435 | 0.030 | 0.033 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.08 | |
| 15 | 0.7604 | 1183.7 | 1204.7 | 1204.6 | 0.935 | 6.510 | 65.263 | 20.620 | 5.974 | 0.189 | 0.439 | 0.030 | 0.033 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.47 | |
| 16 | 0.7605 | 1183.9 | 1204.9 | 1204.8 | 0.936 | 6.496 | 65.269 | 20.629 | 5.967 | 0.187 | 0.443 | 0.031 | 0.033 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.71 | |
| 17 | 0.7602 | 1184.4 | 1205.4 | 1205.2 | 0.941 | 6.442 | 65.312 | 20.642 | 5.968 | 0.186 | 0.439 | 0.030 | 0.032 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 1382.42 | |
| 18 | 0.7607 | 1184.6 | 1205.6 | 1205.4 | 0.942 | 6.473 | 65.242 | 20.655 | 5.984 | 0.189 | 0.443 | 0.030 | 0.033 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1382.21 | |
| 19 | 0.7618 | 1187.1 | 1208.1 | 1208.0 | 0.939 | 6.430 | 65.119 | 20.749 | 6.044 | 0.191 | 0.453 | 0.031 | 0.034 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1384.11 | |
| 20 | 0.7612 | 1185.8 | 1206.7 | 1206.6 | 0.940 | 6.454 | 65.205 | 20.667 | 6.014 | 0.193 | 0.451 | 0.031 | 0.034 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.10 | |
| 21 | 0.7601 | 1181.5 | 1202.4 | 1202.2 | 0.934 | 6.614 | 65.334 | 20.457 | 5.951 | 0.190 | 0.446 | 0.030 | 0.033 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 1379.19 | |
| 22 | 0.7601 | 1180.7 | 1201.6 | 1201.3 | 0.933 | 6.664 | 65.308 | 20.443 | 5.945 | 0.189 | 0.443 | 0.030 | 0.033 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 | 1378.27 | |
| 23 | 0.7601 | 1180.7 | 1201.6 | 1201.3 | 0.933 | 6.664 | 65.308 | 20.443 | 5.945 | 0.189 | 0.443 | 0.030 | 0.033 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 | 1378.27 | |
| 24 | 0.7602 | 1183.5 | 1204.5 | 1204.2 | 0.930 | 6.511 | 65.348 | 20.502 | 6.005 | 0.196 | 0.437 | 0.029 | 0.032 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.43 | |
| 25 | 0.7540 | 1181.6 | 1202.5 | 1202.2 | 0.903 | 6.085 | 66.458 | 20.072 | 5.755 | 0.206 | 0.447 | 0.031 | 0.034 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1384.88 | |
| 26 | 0.7532 | 1176.6 | 1197.4 | 1197.1 | 0.922 | 6.283 | 66.599 | 19.745 | 5.708 | 0.205 | 0.462 | 0.032 | 0.035 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1379.74 | |
| 27 | 0.7466 | 1158.3 | 1178.8 | 1178.4 | 0.924 | 6.772 | 68.197 | 17.537 | 5.639 | 0.249 | 0.589 | 0.039 | 0.042 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 | 1364.22 | |
| 28 | 0.7543 | 1174.4 | 1195.2 | 1194.8 | 0.941 | 6.484 | 66.730 | 19.151 | 5.838 | 0.236 | 0.535 | 0.035 | 0.039 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 1376.21 | |
| 29 | 0.7567 | 1182.4 | 1203.4 | 1203.1 | 0.936 | 6.237 | 66.308 | 19.730 | 5.980 | 0.222 | 0.504 | 0.034 | 0.038 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.32 | |
| 30 | 0.7591 | 1186.8 | 1207.8 | 1207.4 | 0.933 | 6.201 | 65.702 | 20.406 | 6.037 | 0.195 | 0.450 | 0.031 | 0.033 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 | 1386.23 | |
| Avg | 0.7585 | 1181.0 | 1202.1 | 1201.9 | 0.935 | 6.480 | 65.615 | 20.360 | 5.901 | 0.195 | 0.443 | 0.030 | 0.032 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1380.31 | |

Source Daily Summary

September 2024

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

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

| Day | Relative Density | Heating Value Wet | Heating Value Dry | Heating Value As Del | CO2 | N2 | C1 | C2 | C3 | IC4 | NC4 | IC5 | NC5 | C6 | C7 | C8 | C9 | C10 | Wobbe | CCT |
|-----|------------------|-------------------|-------------------|----------------------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-----|
| 1 | 0.7578 | 1181.7 | 1202.6 | 1201.5 | 0.897 | 6.449 | 65.636 | 20.437 | 5.912 | 0.190 | 0.419 | 0.025 | 0.027 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.43 | |
| 2 | 0.7565 | 1178.9 | 1199.7 | 1198.6 | 0.897 | 6.500 | 65.815 | 20.267 | 5.865 | 0.187 | 0.411 | 0.024 | 0.026 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 1379.33 | |
| 3 | 0.7587 | 1183.4 | 1204.3 | 1203.2 | 0.898 | 6.425 | 65.610 | 20.363 | 6.016 | 0.192 | 0.432 | 0.026 | 0.029 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1382.63 | |
| 4 | 0.7589 | 1185.5 | 1206.5 | 1205.5 | 0.914 | 6.286 | 65.569 | 20.589 | 5.942 | 0.189 | 0.444 | 0.028 | 0.031 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1384.96 | |
| 5 | 0.7582 | 1183.7 | 1204.7 | 1203.7 | 0.903 | 6.354 | 65.587 | 20.572 | 5.909 | 0.192 | 0.423 | 0.025 | 0.027 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.44 | |
| 6 | 0.7584 | 1183.1 | 1204.1 | 1203.1 | 0.897 | 6.417 | 65.639 | 20.396 | 5.939 | 0.201 | 0.448 | 0.026 | 0.029 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1382.56 | |
| 7 | 0.7573 | 1180.8 | 1201.7 | 1200.7 | 0.895 | 6.454 | 65.766 | 20.321 | 5.861 | 0.199 | 0.444 | 0.026 | 0.028 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1380.92 | |
| 8 | 0.7560 | 1178.9 | 1199.8 | 1198.7 | 0.894 | 6.446 | 65.829 | 20.425 | 5.753 | 0.172 | 0.417 | 0.026 | 0.028 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1379.92 | |
| 9 | 0.7570 | 1180.8 | 1201.7 | 1200.5 | 0.893 | 6.433 | 65.674 | 20.531 | 5.820 | 0.170 | 0.417 | 0.026 | 0.028 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.12 | |
| 10 | 0.7570 | 1180.7 | 1201.6 | 1200.5 | 0.901 | 6.425 | 65.760 | 20.406 | 5.828 | 0.177 | 0.436 | 0.028 | 0.030 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.02 | |
| 11 | 0.7571 | 1181.7 | 1202.6 | 1201.5 | 0.894 | 6.388 | 65.730 | 20.489 | 5.818 | 0.177 | 0.439 | 0.028 | 0.030 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1382.07 | |
| 12 | 0.7596 | 1186.3 | 1207.3 | 1206.1 | 0.898 | 6.328 | 65.508 | 20.551 | 5.985 | 0.188 | 0.467 | 0.031 | 0.034 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1385.25 | |
| 13 | 0.7586 | 1184.6 | 1205.6 | 1204.6 | 0.900 | 6.340 | 65.583 | 20.549 | 5.934 | 0.183 | 0.443 | 0.028 | 0.031 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1384.13 | |
| 14 | 0.7595 | 1184.9 | 1205.9 | 1204.9 | 0.896 | 6.410 | 65.506 | 20.458 | 6.012 | 0.188 | 0.458 | 0.030 | 0.032 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.68 | |
| 15 | 0.7599 | 1186.0 | 1207.0 | 1205.8 | 0.897 | 6.378 | 65.478 | 20.494 | 6.023 | 0.188 | 0.467 | 0.031 | 0.033 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1384.57 | |
| 16 | 0.7599 | 1186.3 | 1207.3 | 1206.2 | 0.901 | 6.349 | 65.505 | 20.480 | 6.039 | 0.188 | 0.465 | 0.031 | 0.033 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1385.00 | |
| 17 | 0.7595 | 1185.2 | 1206.2 | 1205.0 | 0.903 | 6.380 | 65.519 | 20.478 | 6.000 | 0.188 | 0.460 | 0.030 | 0.033 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1384.03 | |
| 18 | 0.7613 | 1189.3 | 1210.3 | 1209.3 | 0.899 | 6.302 | 65.320 | 20.637 | 6.097 | 0.192 | 0.477 | 0.032 | 0.035 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1387.19 | |
| 19 | 0.7598 | 1186.2 | 1207.2 | 1206.3 | 0.900 | 6.350 | 65.476 | 20.538 | 6.011 | 0.189 | 0.462 | 0.030 | 0.033 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1384.97 | |
| 20 | 0.7607 | 1186.6 | 1207.6 | 1206.5 | 0.894 | 6.418 | 65.401 | 20.464 | 6.076 | 0.194 | 0.478 | 0.031 | 0.034 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1384.58 | |
| 21 | 0.7591 | 1186.4 | 1207.4 | 1206.6 | 0.890 | 6.285 | 65.564 | 20.577 | 5.974 | 0.192 | 0.449 | 0.029 | 0.031 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1385.85 | |
| 22 | 0.7588 | 1185.7 | 1206.7 | 1205.8 | 0.889 | 6.301 | 65.674 | 20.396 | 6.022 | 0.208 | 0.445 | 0.027 | 0.030 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1385.32 | |
| 23 | 0.7595 | 1187.3 | 1208.4 | 1207.5 | 0.888 | 6.270 | 65.623 | 20.396 | 6.103 | 0.204 | 0.450 | 0.028 | 0.031 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1386.56 | |
| 24 | 0.7544 | 1184.2 | 1205.1 | 1204.2 | 0.872 | 6.007 | 66.492 | 20.033 | 5.857 | 0.202 | 0.464 | 0.030 | 0.033 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1387.56 | |
| 25 | 0.7518 | 1175.0 | 1195.8 | 1194.8 | 0.890 | 6.296 | 66.995 | 19.270 | 5.760 | 0.210 | 0.500 | 0.032 | 0.036 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1379.14 | |
| 26 | 0.7486 | 1164.3 | 1184.9 | 1183.8 | 0.885 | 6.656 | 68.098 | 17.545 | 5.796 | 0.264 | 0.655 | 0.042 | 0.046 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.41 | |
| 27 | 0.7528 | 1174.4 | 1195.2 | 1194.3 | 0.900 | 6.414 | 67.035 | 18.933 | 5.843 | 0.234 | 0.558 | 0.035 | 0.038 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 1377.47 | |
| 28 | 0.7569 | 1185.6 | 1206.6 | 1205.5 | 0.892 | 6.125 | 66.320 | 19.805 | 6.046 | 0.217 | 0.514 | 0.033 | 0.037 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 1386.85 | |
| 29 | 0.7574 | 1186.4 | 1207.4 | 1206.1 | 0.893 | 6.123 | 66.096 | 20.085 | 6.056 | 0.198 | 0.477 | 0.031 | 0.034 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1387.36 | |
| 30 | 0.7544 | 1181.9 | 1202.9 | 1202.1 | 0.899 | 6.102 | 66.400 | 20.071 | 5.821 | 0.189 | 0.451 | 0.028 | 0.031 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1384.91 | |
| Avg | 0.7575 | 1183.0 | 1203.8 | 1202.8 | 0.896 | 6.347 | 65.874 | 20.219 | 5.937 | 0.195 | 0.462 | 0.029 | 0.032 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.11 | |

Source Daily Summary

September 2024

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

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

| Day | Relative Density | Heating Value Wet | Heating Value Dry | Heating Value As Del | CO2 | N2 | C1 | C2 | C3 | IC4 | NC4 | IC5 | NC5 | C6 | C7 | C8 | C9 | C10 | Wobbe | CCT |
|-----|------------------|-------------------|-------------------|----------------------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| 1 | 0.6594 | 1088.7 | 1108.0 | 1107.4 | 1.024 | 2.692 | 80.153 | 15.198 | 0.869 | 0.022 | 0.042 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1364.49 |
| 2 | 0.6590 | 1089.4 | 1108.7 | 1107.9 | 1.002 | 2.644 | 80.237 | 15.175 | 0.879 | 0.022 | 0.041 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1365.75 |
| 3 | 0.6570 | 1087.4 | 1106.7 | 1105.9 | 0.985 | 2.602 | 80.611 | 14.881 | 0.857 | 0.022 | 0.041 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1365.36 |
| 4 | 0.6569 | 1087.4 | 1106.7 | 1106.0 | 0.989 | 2.586 | 80.684 | 14.775 | 0.902 | 0.022 | 0.041 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1365.47 |
| 5 | 0.6564 | 1086.0 | 1105.2 | 1104.7 | 0.995 | 2.622 | 80.733 | 14.728 | 0.860 | 0.022 | 0.040 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1364.14 |
| 6 | 0.6581 | 1087.6 | 1106.9 | 1106.3 | 1.010 | 2.659 | 80.436 | 14.930 | 0.901 | 0.022 | 0.041 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1364.42 |
| 7 | 0.6580 | 1088.4 | 1107.7 | 1107.0 | 0.998 | 2.620 | 80.500 | 14.890 | 0.913 | 0.025 | 0.050 | 0.002 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1365.52 |
| 8 | 0.6575 | 1087.6 | 1106.9 | 1106.1 | 0.991 | 2.634 | 80.482 | 14.987 | 0.846 | 0.021 | 0.039 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1365.03 |
| 9 | 0.6568 | 1086.7 | 1106.0 | 1105.2 | 0.981 | 2.632 | 80.613 | 14.884 | 0.831 | 0.021 | 0.039 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1364.69 |
| 10 | 0.6544 | 1082.2 | 1101.3 | 1100.7 | 0.991 | 2.675 | 80.972 | 14.589 | 0.717 | 0.018 | 0.036 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1361.39 |
| 11 | 0.6587 | 1089.4 | 1108.7 | 1108.1 | 0.992 | 2.632 | 80.189 | 15.340 | 0.783 | 0.021 | 0.041 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1366.09 |
| 12 | 0.6561 | 1085.2 | 1104.5 | 1103.9 | 0.998 | 2.636 | 80.727 | 14.808 | 0.748 | 0.024 | 0.051 | 0.003 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1363.50 |
| 13 | 0.6567 | 1086.5 | 1105.8 | 1105.3 | 0.998 | 2.611 | 80.612 | 14.935 | 0.772 | 0.023 | 0.045 | 0.002 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1364.54 |
| 14 | 0.6578 | 1087.0 | 1106.3 | 1105.7 | 1.003 | 2.677 | 80.342 | 15.156 | 0.762 | 0.020 | 0.038 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1364.02 |
| 15 | 0.6565 | 1085.9 | 1105.1 | 1104.4 | 0.991 | 2.643 | 80.593 | 14.960 | 0.752 | 0.021 | 0.039 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1363.93 |
| 16 | 0.6569 | 1087.0 | 1106.2 | 1105.6 | 0.991 | 2.609 | 80.532 | 15.052 | 0.756 | 0.020 | 0.039 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1364.94 |
| 17 | 0.6584 | 1090.0 | 1109.3 | 1108.5 | 0.984 | 2.583 | 80.266 | 15.292 | 0.813 | 0.021 | 0.040 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1367.10 |
| 18 | 0.6587 | 1090.2 | 1109.5 | 1109.0 | 0.994 | 2.580 | 80.276 | 15.230 | 0.854 | 0.023 | 0.043 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1367.09 |
| 19 | 0.6591 | 1090.9 | 1110.3 | 1109.8 | 0.989 | 2.579 | 80.195 | 15.318 | 0.847 | 0.025 | 0.045 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1367.59 |
| 20 | 0.6639 | 1095.6 | 1115.0 | 1114.4 | 1.017 | 2.702 | 79.193 | 16.190 | 0.835 | 0.022 | 0.040 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1368.52 |
| 21 | 0.6592 | 1088.2 | 1107.4 | 1107.1 | 1.022 | 2.707 | 80.290 | 14.980 | 0.915 | 0.028 | 0.056 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1364.01 |
| 22 | 0.6565 | 1084.4 | 1103.6 | 1103.1 | 1.015 | 2.701 | 80.780 | 14.541 | 0.882 | 0.027 | 0.052 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1361.98 |
| 23 | 0.6586 | 1086.6 | 1105.9 | 1105.4 | 1.024 | 2.749 | 80.496 | 14.650 | 0.975 | 0.034 | 0.069 | 0.002 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1362.61 |
| 24 | 0.6604 | 1085.4 | 1104.6 | 1104.0 | 0.995 | 3.034 | 80.140 | 14.658 | 1.075 | 0.031 | 0.062 | 0.002 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1359.22 |
| 25 | 0.6594 | 1085.4 | 1104.6 | 1103.8 | 0.970 | 2.976 | 80.327 | 14.561 | 1.071 | 0.030 | 0.060 | 0.002 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1360.28 |
| 26 | 0.6596 | 1084.2 | 1103.4 | 1102.8 | 0.981 | 3.051 | 80.265 | 14.551 | 1.057 | 0.029 | 0.060 | 0.002 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1358.59 |
| 27 | 0.6526 | 1075.9 | 1095.0 | 1094.3 | 0.982 | 2.894 | 81.324 | 14.013 | 0.730 | 0.018 | 0.037 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1355.48 |
| 28 | 0.6505 | 1075.2 | 1094.2 | 1093.5 | 0.948 | 2.790 | 81.875 | 13.486 | 0.821 | 0.025 | 0.051 | 0.001 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1356.75 |
| 29 | 0.6572 | 1083.3 | 1102.5 | 1101.7 | 0.962 | 2.908 | 80.694 | 14.346 | 0.999 | 0.029 | 0.058 | 0.002 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1359.97 |
| 30 | 0.6545 | 1081.4 | 1100.6 | 1100.2 | 0.997 | 2.721 | 81.016 | 14.426 | 0.788 | 0.019 | 0.033 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1360.35 |
| Avg | 0.6575 | 1086.0 | 1105.5 | 1104.9 | 0.994 | 2.705 | 80.518 | 14.851 | 0.860 | 0.024 | 0.046 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1363.43 |

Source Daily Summary

September 2024

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

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

| Day | Relative Density | Heating Value Wet | Heating Value Dry | Heating Value As Del | CO2 | N2 | C1 | C2 | C3 | IC4 | NC4 | IC5 | NC5 | C6 | C7 | C8 | C9 | C10 | Wobbe | CCT |
|-----|------------------|-------------------|-------------------|----------------------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-----|
| 1 | 0.6769 | 1111.1 | 1130.8 | 1130.2 | 0.727 | 3.423 | 77.262 | 16.685 | 1.727 | 0.059 | 0.109 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1374.40 | |
| 2 | 0.6796 | 1116.0 | 1135.7 | 1135.1 | 0.712 | 3.400 | 76.920 | 16.881 | 1.886 | 0.066 | 0.125 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1377.67 | |
| 3 | 0.6786 | 1112.8 | 1132.5 | 1131.9 | 0.639 | 3.608 | 77.157 | 16.383 | 2.006 | 0.069 | 0.129 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1374.79 | |
| 4 | 0.6727 | 1103.6 | 1123.2 | 1122.6 | 0.555 | 3.744 | 78.067 | 15.570 | 1.885 | 0.062 | 0.110 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.39 | |
| 5 | 0.6736 | 1103.6 | 1123.1 | 1122.5 | 0.454 | 3.982 | 77.760 | 15.705 | 1.942 | 0.057 | 0.094 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1368.44 | |
| 6 | 0.6774 | 1111.9 | 1131.6 | 1130.9 | 0.441 | 3.856 | 76.973 | 16.642 | 1.935 | 0.055 | 0.093 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1374.83 | |
| 7 | 0.6825 | 1118.1 | 1137.9 | 1137.2 | 0.531 | 3.822 | 76.384 | 16.858 | 2.208 | 0.068 | 0.121 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1377.30 | |
| 8 | 0.6846 | 1120.9 | 1140.7 | 1140.1 | 0.599 | 3.736 | 76.264 | 16.834 | 2.323 | 0.081 | 0.152 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1378.71 | |
| 9 | 0.6834 | 1120.5 | 1140.3 | 1139.7 | 0.581 | 3.677 | 76.398 | 16.873 | 2.236 | 0.077 | 0.147 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1379.43 | |
| 10 | 0.6799 | 1116.0 | 1135.8 | 1135.2 | 0.654 | 3.515 | 76.842 | 16.818 | 1.983 | 0.064 | 0.117 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1377.43 | |
| 11 | 0.6747 | 1111.2 | 1130.8 | 1130.2 | 0.696 | 3.262 | 77.484 | 16.833 | 1.588 | 0.048 | 0.084 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1376.69 | |
| 12 | 0.6740 | 1109.5 | 1129.1 | 1128.5 | 0.709 | 3.277 | 77.569 | 16.790 | 1.522 | 0.046 | 0.082 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1375.33 | |
| 13 | 0.6836 | 1123.4 | 1143.3 | 1142.7 | 0.538 | 3.589 | 76.077 | 17.519 | 2.080 | 0.067 | 0.123 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1382.78 | |
| 14 | 0.6833 | 1120.8 | 1140.7 | 1140.0 | 0.518 | 3.750 | 76.155 | 17.244 | 2.131 | 0.069 | 0.126 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1379.88 | |
| 15 | 0.6821 | 1116.8 | 1136.6 | 1135.9 | 0.619 | 3.728 | 76.606 | 16.652 | 2.158 | 0.078 | 0.149 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1376.12 | |
| 16 | 0.6784 | 1105.8 | 1125.3 | 1124.7 | 0.848 | 3.694 | 77.867 | 15.050 | 2.213 | 0.102 | 0.211 | 0.015 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1366.30 | |
| 17 | 0.6706 | 1098.5 | 1118.0 | 1117.4 | 0.939 | 3.270 | 78.728 | 15.260 | 1.599 | 0.066 | 0.130 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1365.25 | |
| 18 | 0.6593 | 1084.1 | 1103.3 | 1102.7 | 0.975 | 3.035 | 80.293 | 14.584 | 1.023 | 0.032 | 0.056 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1358.79 | |
| 19 | 0.6586 | 1078.5 | 1097.6 | 1097.0 | 0.919 | 3.396 | 80.632 | 13.681 | 1.236 | 0.047 | 0.085 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1352.45 | |
| 20 | 0.6796 | 1111.3 | 1131.0 | 1130.3 | 0.999 | 3.251 | 77.255 | 16.420 | 1.831 | 0.079 | 0.155 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1371.86 | |
| 21 | 0.6790 | 1111.8 | 1131.5 | 1130.9 | 1.004 | 3.156 | 77.246 | 16.641 | 1.735 | 0.070 | 0.139 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1373.12 | |
| 22 | 0.6763 | 1107.1 | 1126.7 | 1126.0 | 0.987 | 3.217 | 77.827 | 15.982 | 1.754 | 0.075 | 0.150 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.99 | |
| 23 | 0.6724 | 1101.1 | 1120.6 | 1120.0 | 0.974 | 3.233 | 78.435 | 15.521 | 1.619 | 0.070 | 0.139 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1366.57 | |
| 24 | 0.6769 | 1107.1 | 1126.7 | 1126.1 | 1.013 | 3.224 | 77.674 | 16.137 | 1.726 | 0.072 | 0.145 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.53 | |
| 25 | 0.6758 | 1105.7 | 1125.2 | 1124.6 | 0.962 | 3.285 | 78.048 | 15.606 | 1.841 | 0.081 | 0.165 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1368.82 | |
| 26 | 0.6794 | 1111.0 | 1130.6 | 1130.0 | 0.967 | 3.299 | 77.387 | 16.163 | 1.927 | 0.081 | 0.165 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1371.67 | |
| 27 | 0.6784 | 1109.1 | 1128.8 | 1128.1 | 0.968 | 3.316 | 77.533 | 16.052 | 1.876 | 0.080 | 0.163 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1370.41 | |
| 28 | 0.6723 | 1102.0 | 1121.5 | 1120.8 | 0.990 | 3.147 | 78.482 | 15.546 | 1.624 | 0.067 | 0.135 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1367.73 | |
| 29 | 0.6749 | 1104.6 | 1124.1 | 1123.5 | 0.983 | 3.236 | 78.040 | 15.695 | 1.803 | 0.076 | 0.156 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1368.31 | |
| 30 | 0.6718 | 1100.8 | 1120.3 | 1119.6 | 0.985 | 3.179 | 78.536 | 15.487 | 1.610 | 0.065 | 0.129 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1366.80 | |
| Avg | 0.6764 | 1108.0 | 1128.1 | 1127.5 | 0.783 | 3.444 | 77.597 | 16.137 | 1.834 | 0.068 | 0.129 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1371.69 | |

Source Daily Summary

September 2024

Source #: 111
Name: LITTLE KNIFE PLANT

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

| Day | Relative Density | Heating Value Wet | Heating Value Dry | Heating Value As Del | CO2 | N2 | C1 | C2 | C3 | IC4 | NC4 | IC5 | NC5 | C6 | C7 | C8 | C9 | C10 | Wobbe | CCT |
|-----|------------------|-------------------|-------------------|----------------------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|--------|
| 1 | 0.6960 | 1138.2 | 1158.3 | 1156.6 | 1.132 | 2.973 | 72.144 | 23.346 | 0.394 | 0.005 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1388.40 | -25.68 |
| 2 | 0.6957 | 1138.2 | 1158.4 | 1156.6 | 1.123 | 2.953 | 72.209 | 23.307 | 0.395 | 0.005 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1388.76 | -25.78 |
| 3 | 0.6960 | 1138.2 | 1158.3 | 1156.5 | 1.130 | 2.968 | 72.168 | 23.320 | 0.401 | 0.005 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1388.49 | -25.69 |
| 4 | 0.6953 | 1137.1 | 1157.2 | 1155.3 | 1.137 | 2.958 | 72.315 | 23.184 | 0.392 | 0.005 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1387.83 | -26.08 |
| 5 | 0.6961 | 1138.5 | 1158.6 | 1156.5 | 1.135 | 2.961 | 72.138 | 23.354 | 0.400 | 0.005 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1388.65 | -25.60 |
| 6 | 0.6954 | 1137.8 | 1158.0 | 1155.8 | 1.123 | 2.948 | 72.275 | 23.243 | 0.398 | 0.005 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1388.59 | -25.92 |
| 7 | 0.6957 | 1138.2 | 1158.4 | 1156.7 | 1.131 | 2.937 | 72.239 | 23.274 | 0.407 | 0.005 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1388.82 | -25.74 |
| 8 | 0.6961 | 1139.5 | 1159.7 | 1157.7 | 1.117 | 2.921 | 72.151 | 23.370 | 0.427 | 0.005 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1389.97 | -25.35 |
| 9 | 0.6955 | 1138.5 | 1158.7 | 1156.9 | 1.115 | 2.924 | 72.282 | 23.245 | 0.420 | 0.006 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1389.41 | -25.64 |
| 10 | 0.6955 | 1138.7 | 1158.9 | 1157.3 | 1.112 | 2.920 | 72.254 | 23.297 | 0.405 | 0.005 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1389.59 | -25.75 |
| 11 | 0.6953 | 1138.2 | 1158.4 | 1156.7 | 1.117 | 2.925 | 72.285 | 23.268 | 0.393 | 0.005 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1389.16 | -25.92 |
| 12 | 0.6960 | 1139.2 | 1159.4 | 1157.8 | 1.110 | 2.936 | 72.153 | 23.382 | 0.407 | 0.005 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1389.76 | -25.52 |
| 13 | 0.6958 | 1138.7 | 1158.9 | 1156.9 | 1.120 | 2.931 | 72.202 | 23.333 | 0.401 | 0.005 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1389.36 | -25.67 |
| 14 | 0.6952 | 1137.9 | 1158.1 | 1156.6 | 1.112 | 2.943 | 72.302 | 23.226 | 0.405 | 0.005 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1388.91 | -25.93 |
| 15 | 0.6995 | 1145.2 | 1165.5 | 1163.9 | 1.106 | 2.907 | 71.505 | 24.007 | 0.452 | 0.008 | 0.014 | 0.001 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1393.57 | -23.27 |
| 16 | 0.6997 | 1145.7 | 1166.0 | 1164.5 | 1.104 | 2.903 | 71.405 | 24.155 | 0.417 | 0.006 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1393.89 | -23.46 |
| 17 | 0.7001 | 1146.6 | 1166.9 | 1165.4 | 1.099 | 2.890 | 71.337 | 24.235 | 0.423 | 0.006 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1394.61 | -23.20 |
| 18 | 0.6998 | 1146.4 | 1166.7 | 1165.2 | 1.103 | 2.870 | 71.381 | 24.222 | 0.409 | 0.006 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1394.69 | -23.35 |
| 19 | 0.6990 | 1144.8 | 1165.1 | 1163.1 | 1.105 | 2.892 | 71.539 | 24.039 | 0.410 | 0.006 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1393.48 | -23.80 |
| 20 | 0.6990 | 1145.0 | 1165.3 | 1163.7 | 1.098 | 2.892 | 71.537 | 24.046 | 0.412 | 0.006 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1393.70 | -23.78 |
| 21 | 0.6990 | 1144.6 | 1164.9 | 1163.4 | 1.108 | 2.892 | 71.552 | 24.023 | 0.410 | 0.006 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1393.31 | -23.84 |
| 22 | 0.6991 | 1144.8 | 1165.1 | 1163.8 | 1.106 | 2.890 | 71.540 | 24.035 | 0.414 | 0.006 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1393.52 | -23.78 |
| 23 | 0.6960 | 1139.1 | 1159.3 | 1157.8 | 1.114 | 2.932 | 72.211 | 23.278 | 0.450 | 0.006 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1389.66 | -25.35 |
| 24 | 0.6952 | 1138.2 | 1158.4 | 1156.9 | 1.100 | 2.937 | 72.372 | 23.111 | 0.464 | 0.006 | 0.010 | 0.000 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1389.34 | -25.59 |
| 25 | 0.6969 | 1141.0 | 1161.2 | 1159.5 | 1.102 | 2.932 | 72.068 | 23.369 | 0.511 | 0.006 | 0.010 | 0.000 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1390.90 | -24.48 |
| 26 | 0.6998 | 1146.1 | 1166.4 | 1164.9 | 1.092 | 2.902 | 71.407 | 24.136 | 0.448 | 0.006 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1394.32 | -23.28 |
| 27 | 0.7002 | 1146.2 | 1166.5 | 1165.1 | 1.102 | 2.917 | 71.319 | 24.220 | 0.426 | 0.006 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1394.08 | -23.21 |
| 28 | 0.7001 | 1146.4 | 1166.7 | 1165.3 | 1.093 | 2.908 | 71.328 | 24.231 | 0.425 | 0.006 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1394.45 | -23.23 |
| 29 | 0.7005 | 1146.6 | 1166.9 | 1165.3 | 1.103 | 2.921 | 71.252 | 24.287 | 0.421 | 0.006 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1394.22 | -23.09 |
| 30 | 0.7002 | 1147.0 | 1167.3 | 1165.9 | 1.098 | 2.880 | 71.291 | 24.307 | 0.410 | 0.006 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1395.01 | -23.16 |
| Avg | 0.6975 | 1142.0 | 1161.9 | 1160.3 | 1.112 | 2.922 | 71.872 | 23.662 | 0.418 | 0.006 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1391.28 | -24.67 |

Source Daily Summary

September 2024

Source #: 351
Name: BADLANDS PLANT

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

| Day | Relative Density | Heating Value Wet | Heating Value Dry | Heating Value As Del | CO2 | N2 | C1 | C2 | C3 | IC4 | NC4 | IC5 | NC5 | C6 | C7 | C8 | C9 | C10 | Wobbe | CCT |
|-----|------------------|-------------------|-------------------|----------------------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-----|
| 1 | 0.5723 | 962.7 | 979.7 | 978.6 | 0.109 | 3.566 | 95.999 | 0.303 | 0.015 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1295.09 | |
| 2 | 0.5723 | 962.7 | 979.8 | 978.5 | 0.109 | 3.562 | 96.002 | 0.303 | 0.015 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1295.15 | |
| 3 | 0.5723 | 962.8 | 979.8 | 978.6 | 0.109 | 3.559 | 96.006 | 0.303 | 0.015 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1295.22 | |
| 4 | 0.5723 | 962.8 | 979.8 | 978.8 | 0.109 | 3.558 | 96.006 | 0.304 | 0.015 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1295.24 | |
| 5 | 0.5735 | 964.6 | 981.7 | 980.8 | 0.113 | 3.552 | 95.815 | 0.470 | 0.034 | 0.010 | 0.002 | 0.002 | 0.002 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 1296.37 | |
| 6 | 0.5722 | 962.8 | 979.8 | 978.9 | 0.108 | 3.555 | 96.010 | 0.303 | 0.015 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1295.30 | |
| 7 | 0.5722 | 962.8 | 979.9 | 978.8 | 0.109 | 3.551 | 96.013 | 0.304 | 0.015 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1295.38 | |
| 8 | 0.5722 | 962.8 | 979.8 | 978.6 | 0.109 | 3.558 | 96.007 | 0.303 | 0.015 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1295.25 | |
| 9 | 0.5722 | 962.8 | 979.8 | 978.6 | 0.108 | 3.559 | 96.006 | 0.303 | 0.015 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1295.22 | |
| 10 | 0.5722 | 963.0 | 980.0 | 979.0 | 0.110 | 3.535 | 96.026 | 0.305 | 0.015 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1295.63 | |
| 11 | 0.5723 | 963.0 | 980.1 | 978.9 | 0.109 | 3.543 | 96.011 | 0.312 | 0.016 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1295.56 | |
| 12 | 0.5723 | 962.9 | 980.0 | 979.0 | 0.109 | 3.556 | 95.994 | 0.316 | 0.016 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1295.36 | |
| 13 | 0.5817 | 971.4 | 988.7 | 987.8 | 0.200 | 3.784 | 94.228 | 1.658 | 0.115 | 0.009 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1296.26 | |
| 14 | 0.6468 | 1059.1 | 1077.9 | 1076.8 | 0.839 | 3.595 | 82.679 | 11.715 | 1.078 | 0.032 | 0.056 | 0.003 | 0.003 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1339.97 | |
| 15 | 0.6455 | 1057.9 | 1076.6 | 1075.4 | 0.916 | 3.425 | 82.932 | 11.683 | 0.949 | 0.030 | 0.055 | 0.004 | 0.004 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 1340.07 | |
| 16 | 0.6453 | 1054.7 | 1073.4 | 1072.1 | 0.946 | 3.562 | 82.917 | 11.567 | 0.928 | 0.027 | 0.046 | 0.003 | 0.003 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 1336.15 | |
| 17 | 0.6449 | 1054.6 | 1073.3 | 1072.0 | 0.910 | 3.581 | 83.003 | 11.463 | 0.962 | 0.028 | 0.047 | 0.003 | 0.002 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 1336.49 | |
| 18 | 0.6470 | 1059.3 | 1078.0 | 1077.2 | 0.888 | 3.529 | 82.673 | 11.760 | 1.061 | 0.031 | 0.052 | 0.003 | 0.003 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1340.20 | |
| 19 | 0.6580 | 1077.2 | 1096.3 | 1095.4 | 0.915 | 3.422 | 80.861 | 13.295 | 1.390 | 0.040 | 0.070 | 0.003 | 0.003 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1351.53 | |
| 20 | 0.6557 | 1076.2 | 1095.3 | 1094.2 | 0.882 | 3.319 | 81.276 | 13.044 | 1.361 | 0.040 | 0.069 | 0.003 | 0.003 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1352.60 | |
| 21 | 0.6548 | 1075.0 | 1094.0 | 1093.3 | 0.882 | 3.315 | 81.401 | 12.972 | 1.319 | 0.038 | 0.066 | 0.003 | 0.003 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1351.94 | |
| 22 | 0.6556 | 1075.7 | 1094.7 | 1093.8 | 0.884 | 3.344 | 81.260 | 13.053 | 1.355 | 0.036 | 0.061 | 0.003 | 0.003 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1351.98 | |
| 23 | 0.6406 | 1055.3 | 1074.0 | 1073.1 | 0.736 | 3.400 | 83.902 | 10.748 | 1.137 | 0.029 | 0.043 | 0.002 | 0.002 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1341.74 | |
| 24 | 0.6200 | 1027.4 | 1045.6 | 1044.7 | 0.554 | 3.433 | 87.542 | 7.635 | 0.787 | 0.021 | 0.026 | 0.001 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1327.71 | |
| 25 | 0.6163 | 1021.0 | 1039.1 | 1037.9 | 0.545 | 3.487 | 88.195 | 7.022 | 0.704 | 0.019 | 0.025 | 0.001 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1323.55 | |
| 26 | 0.6420 | 1052.1 | 1070.8 | 1069.6 | 0.884 | 3.501 | 83.495 | 11.151 | 0.895 | 0.025 | 0.042 | 0.002 | 0.002 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1336.32 | |
| 27 | 0.6416 | 1052.0 | 1070.6 | 1069.5 | 0.889 | 3.458 | 83.514 | 11.245 | 0.828 | 0.023 | 0.037 | 0.002 | 0.002 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1336.66 | |
| 28 | 0.6407 | 1050.8 | 1069.4 | 1068.2 | 0.868 | 3.483 | 83.647 | 11.120 | 0.819 | 0.022 | 0.035 | 0.002 | 0.002 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1336.03 | |
| 29 | 0.6395 | 1049.6 | 1068.1 | 1066.9 | 0.879 | 3.426 | 83.844 | 11.046 | 0.747 | 0.020 | 0.033 | 0.002 | 0.002 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1335.73 | |
| 30 | 0.6439 | 1057.3 | 1076.0 | 1075.3 | 0.894 | 3.347 | 83.133 | 11.676 | 0.879 | 0.025 | 0.041 | 0.002 | 0.002 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1340.92 | |
| Avg | 0.6129 | 1016.0 | 1034.1 | 1033.0 | 0.527 | 3.502 | 88.747 | 6.589 | 0.584 | 0.020 | 0.027 | 0.001 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1320.69 | |

September-24

ZONE 550

MANDAN BORDER

NBPL - St Anthony

WBI - Mandan Border

Weighted

| Start Date | End Date | MCF | DK | BTU | MCF | DK | BTU Zone 28 | AVG BTU | |
|------------|-----------|--------|--------|----------|--------|--------|----------------|------------|-----------|
| 9/1/2024 | 9/2/2024 | 0 | 0 | 0 | 646 | 777 | 1202.6 | 1202.600 | 9/1/2024 |
| 9/2/2024 | 9/3/2024 | 0 | 0 | 0 | 727 | 873 | 1199.7 | 1199.700 | 9/2/2024 |
| 9/3/2024 | 9/4/2024 | 0 | 0 | 0 | 895 | 1,078 | 1204.3 | 1204.300 | 9/3/2024 |
| 9/4/2024 | 9/5/2024 | 0 | 0 | 0 | 884 | 1,066 | 1206.5 | 1206.500 | 9/4/2024 |
| 9/5/2024 | 9/6/2024 | 0 | 0 | 0 | 873 | 1,052 | 1204.7 | 1204.700 | 9/5/2024 |
| 9/6/2024 | 9/7/2024 | 0 | 0 | 0 | 892 | 1,074 | 1204.1 | 1204.100 | 9/6/2024 |
| 9/7/2024 | 9/8/2024 | 0 | 0 | 0 | 821 | 987 | 1201.7 | 1201.700 | 9/7/2024 |
| 9/8/2024 | 9/9/2024 | 0 | 0 | 0 | 784 | 940 | 1199.8 | 1199.800 | 9/8/2024 |
| 9/9/2024 | 9/10/2024 | 0 | 0 | 0 | 793 | 953 | 1201.7 | 1201.700 | 9/9/2024 |
| 9/10/2024 | 9/11/2024 | 52 | 58 | 1103.8 | 856 | 1,028 | 1201.6 | 1195.999 | 9/10/2024 |
| 9/11/2024 | 9/12/2024 | 0 | 0 | 0 | 863 | 1,038 | 1202.6 | 1202.600 | 9/11/2024 |
| 9/12/2024 | 9/13/2024 | 0 | 0 | 0 | 792 | 956 | 1207.3 | 1207.300 | 9/12/2024 |
| 9/13/2024 | 9/14/2024 | 0 | 0 | 0 | 784 | 945 | 1205.6 | 1205.600 | 9/13/2024 |
| 9/14/2024 | 9/15/2024 | 0 | 0 | 0 | 723 | 872 | 1205.9 | 1205.900 | 9/14/2024 |
| 9/15/2024 | 9/16/2024 | 0 | 0 | 0 | 699 | 843 | 1207.0 | 1207.000 | 9/15/2024 |
| 9/16/2024 | 9/17/2024 | 0 | 0 | 0 | 782 | 944 | 1207.3 | 1207.300 | 9/16/2024 |
| 9/17/2024 | 9/18/2024 | 0 | 0 | 0 | 854 | 1,030 | 1206.2 | 1206.200 | 9/17/2024 |
| 9/18/2024 | 9/19/2024 | 0 | 0 | 0 | 873 | 1,057 | 1210.3 | 1210.300 | 9/18/2024 |
| 9/19/2024 | 9/20/2024 | 0 | 0 | 0 | 826 | 997 | 1207.2 | 1207.200 | 9/19/2024 |
| 9/20/2024 | 9/21/2024 | 13,689 | 15,154 | 1108.9 | 780 | 942 | 1207.6 | 1114.221 | 9/20/2024 |
| 9/21/2024 | 9/22/2024 | 6 | 7 | 1111.5 | 854 | 1,031 | 1207.4 | 1206.731 | 9/21/2024 |
| 9/22/2024 | 9/23/2024 | 0 | 0 | 0 | 860 | 1,038 | 1206.7 | 1206.700 | 9/22/2024 |
| 9/23/2024 | 9/24/2024 | 0 | 0 | 0 | 1,110 | 1,342 | 1208.4 | 1208.400 | 9/23/2024 |
| 9/24/2024 | 9/25/2024 | 0 | 0 | 0 | 948 | 1,143 | 1205.1 | 1205.100 | 9/24/2024 |
| 9/25/2024 | 9/26/2024 | 193 | 211 | 1093.7 | 835 | 998 | 1195.8 | 1176.631 | 9/25/2024 |
| 9/26/2024 | 9/27/2024 | 535 | 584 | 1093.7 | 853 | 1,009 | 1184.9 | 1149.747 | 9/26/2024 |
| 9/27/2024 | 9/28/2024 | 339 | 370 | 1088.5 | 811 | 968 | 1195.2 | 1163.747 | 9/27/2024 |
| 9/28/2024 | 9/29/2024 | 0 | 0 | 0 | 718 | 865 | 1206.6 | 1206.600 | 9/28/2024 |
| 9/29/2024 | 9/30/2024 | 0 | 0 | 0 | 702 | 847 | 1207.4 | 1207.400 | 9/29/2024 |
| 9/30/2024 | 10/1/2024 | 10 | 11 | 1097.3 | 1,098 | 1,322 | 1202.9 | 1201.947 | 9/30/2024 |
| | | 14,824 | 16,395 | 256.5800 | 24,936 | 30,015 | 1203.8033 | 1197.5908 | |



Alliance Pipeline

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

| DAY | Heating Value (BTU/ft3) | Relative Density | C1 Mol% | C2 Mol% | C3 Mol% | IC4 Mol% | NC4 Mol% | IC5 Mol% | NC5 Mol% | C6+ Mol% | N2 Mol% | CO2 Mol% | Hel Mol% |
|--------------------------|-------------------------|------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 1 | 1,155.822 | 0.6614 | 84.1603 | 9.9824 | 3.4305 | 0.3528 | 0.6112 | 0.0628 | 0.0495 | 0.0185 | 0.9322 | 0.3925 | 0.0073 |
| 2 | 1,159.955 | 0.6640 | 83.9042 | 10.0604 | 3.5311 | 0.3704 | 0.6566 | 0.0675 | 0.0564 | 0.0236 | 0.9377 | 0.3852 | 0.0070 |
| 3 | 1,157.794 | 0.6626 | 84.0119 | 10.0757 | 3.4612 | 0.3563 | 0.6255 | 0.0640 | 0.0549 | 0.0222 | 0.9357 | 0.3855 | 0.0070 |
| 4 | 1,158.757 | 0.6627 | 84.0788 | 10.0036 | 3.4737 | 0.3653 | 0.6479 | 0.0660 | 0.0561 | 0.0242 | 0.8978 | 0.3793 | 0.0075 |
| 5 | 1,155.218 | 0.6604 | 84.4165 | 9.7707 | 3.3994 | 0.3594 | 0.6255 | 0.0656 | 0.0563 | 0.0246 | 0.8925 | 0.3818 | 0.0079 |
| 6 | 1,152.114 | 0.6590 | 84.6194 | 9.5696 | 3.3426 | 0.3656 | 0.6165 | 0.0662 | 0.0551 | 0.0241 | 0.9517 | 0.3811 | 0.0080 |
| 7 | 1,155.137 | 0.6610 | 84.2556 | 9.9151 | 3.3689 | 0.3557 | 0.6190 | 0.0682 | 0.0561 | 0.0243 | 0.9414 | 0.3873 | 0.0085 |
| 8 | 1,156.992 | 0.6625 | 84.1058 | 9.9341 | 3.4332 | 0.3661 | 0.6451 | 0.0703 | 0.0575 | 0.0254 | 0.9423 | 0.4110 | 0.0092 |
| 9 | 1,157.280 | 0.6619 | 84.1841 | 9.9316 | 3.4154 | 0.3654 | 0.6428 | 0.0694 | 0.0595 | 0.0265 | 0.9333 | 0.3630 | 0.0091 |
| 10 | 1,156.862 | 0.6617 | 84.2060 | 9.9033 | 3.4127 | 0.3662 | 0.6461 | 0.0674 | 0.0574 | 0.0256 | 0.9334 | 0.3721 | 0.0096 |
| 11 | 1,156.449 | 0.6617 | 84.2092 | 9.8924 | 3.4145 | 0.3620 | 0.6387 | 0.0680 | 0.0580 | 0.0264 | 0.9400 | 0.3813 | 0.0095 |
| 12 | 1,157.298 | 0.6625 | 84.1520 | 9.8710 | 3.4383 | 0.3683 | 0.6631 | 0.0721 | 0.0593 | 0.0260 | 0.9466 | 0.3940 | 0.0093 |
| 13 | 1,157.966 | 0.6628 | 84.1320 | 9.8648 | 3.4613 | 0.3732 | 0.6696 | 0.0724 | 0.0602 | 0.0254 | 0.9447 | 0.3874 | 0.0090 |
| 14 | 1,157.669 | 0.6627 | 84.0825 | 9.9200 | 3.4679 | 0.3687 | 0.6582 | 0.0671 | 0.0554 | 0.0251 | 0.9641 | 0.3818 | 0.0091 |
| 15 | 1,157.161 | 0.6620 | 84.2172 | 9.8394 | 3.4452 | 0.3691 | 0.6594 | 0.0690 | 0.0564 | 0.0245 | 0.9284 | 0.3822 | 0.0093 |
| 16 | 1,157.647 | 0.6625 | 84.1704 | 9.8490 | 3.4645 | 0.3701 | 0.6622 | 0.0690 | 0.0573 | 0.0273 | 0.9250 | 0.3960 | 0.0093 |
| 17 | 1,158.172 | 0.6628 | 84.1252 | 9.8860 | 3.4791 | 0.3702 | 0.6578 | 0.0681 | 0.0581 | 0.0294 | 0.9269 | 0.3901 | 0.0092 |
| 18 | 1,159.828 | 0.6645 | 83.8702 | 9.9917 | 3.5327 | 0.3753 | 0.6806 | 0.0712 | 0.0593 | 0.0274 | 0.9987 | 0.3838 | 0.0090 |
| 19 | 1,158.496 | 0.6627 | 84.1447 | 9.9002 | 3.4432 | 0.3733 | 0.6673 | 0.0728 | 0.0612 | 0.0305 | 0.9326 | 0.3649 | 0.0093 |
| 20 | 1,156.662 | 0.6616 | 84.2110 | 9.9618 | 3.3669 | 0.3629 | 0.6285 | 0.0714 | 0.0612 | 0.0306 | 0.9051 | 0.3912 | 0.0094 |
| 21 | 1,156.618 | 0.6618 | 84.2202 | 9.8912 | 3.3911 | 0.3671 | 0.6428 | 0.0724 | 0.0596 | 0.0291 | 0.9350 | 0.3828 | 0.0088 |
| 22 | 1,157.360 | 0.6621 | 84.1403 | 9.9627 | 3.4090 | 0.3668 | 0.6440 | 0.0701 | 0.0579 | 0.0281 | 0.9360 | 0.3764 | 0.0087 |
| 23 | 1,158.988 | 0.6631 | 83.9870 | 10.0559 | 3.4621 | 0.3664 | 0.6514 | 0.0695 | 0.0581 | 0.0273 | 0.9631 | 0.3504 | 0.0088 |
| 24 | 1,159.321 | 0.6628 | 84.0769 | 10.0102 | 3.4561 | 0.3693 | 0.6591 | 0.0703 | 0.0574 | 0.0280 | 0.9011 | 0.3629 | 0.0088 |
| 25 | 1,167.490 | 0.6701 | 83.0449 | 10.5247 | 3.7180 | 0.3877 | 0.7192 | 0.0714 | 0.0597 | 0.0299 | 1.0321 | 0.4041 | 0.0085 |
| 26 | 1,167.279 | 0.6690 | 83.2759 | 10.3929 | 3.6826 | 0.3930 | 0.7272 | 0.0747 | 0.0620 | 0.0304 | 0.9612 | 0.3913 | 0.0087 |
| 27 | 1,166.402 | 0.6679 | 83.4698 | 10.2800 | 3.6396 | 0.3962 | 0.7276 | 0.0747 | 0.0634 | 0.0322 | 0.9235 | 0.3841 | 0.0089 |
| 28 | 1,165.687 | 0.6675 | 83.5035 | 10.2862 | 3.6203 | 0.3897 | 0.7077 | 0.0773 | 0.0657 | 0.0321 | 0.9245 | 0.3848 | 0.0083 |
| 29 | 1,166.616 | 0.6680 | 83.3659 | 10.4473 | 3.6221 | 0.3826 | 0.6975 | 0.0763 | 0.0654 | 0.0326 | 0.9214 | 0.3807 | 0.0082 |
| 30 | 1,165.127 | 0.6669 | 83.5883 | 10.2296 | 3.6209 | 0.3847 | 0.7056 | 0.0768 | 0.0647 | 0.0293 | 0.9205 | 0.3716 | 0.0080 |
| Volume | 1,158.758 | 0.6632 | 84.0264 | 9.9892 | 3.4718 | 0.3699 | 0.6576 | 0.0697 | 0.0583 | 0.0268 | 0.9385 | 0.3831 | 0.0087 |
| Weight Avg Energy | 1,158.770 | 0.6632 | 84.0254 | 9.9898 | 3.4720 | 0.3699 | 0.6577 | 0.0697 | 0.0583 | 0.0268 | 0.9385 | 0.3831 | 0.0087 |



Alliance Pipeline

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

| DAY | Heating Value (BTU/ft3) | Relative Density | C1 Mol% | C2 Mol% | C3 Mol% | IC4 Mol% | NC4 Mol% | IC5 Mol% | NC5 Mol% | C6+ Mol% | N2 Mol% | CO2 Mol% | HeI Mol% |
|--------------------------|-------------------------|------------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 1 | 1,156.421 | 0.6616 | 84.1399 | 9.9864 | 3.4483 | 0.3551 | 0.6152 | 0.0631 | 0.0501 | 0.0193 | 0.9255 | 0.3898 | 0.0072 |
| 2 | 1,159.875 | 0.6640 | 83.8902 | 10.0731 | 3.5259 | 0.3694 | 0.6557 | 0.0677 | 0.0569 | 0.0235 | 0.9437 | 0.3869 | 0.0069 |
| 3 | 1,157.847 | 0.6625 | 84.0224 | 10.0672 | 3.4609 | 0.3571 | 0.6277 | 0.0642 | 0.0549 | 0.0223 | 0.9311 | 0.3852 | 0.0070 |
| 4 | 1,158.569 | 0.6625 | 84.1116 | 9.9843 | 3.4652 | 0.3660 | 0.6469 | 0.0662 | 0.0565 | 0.0246 | 0.8937 | 0.3774 | 0.0075 |
| 5 | 1,154.736 | 0.6601 | 84.4670 | 9.7334 | 3.3897 | 0.3582 | 0.6228 | 0.0657 | 0.0565 | 0.0252 | 0.8931 | 0.3805 | 0.0079 |
| 6 | 1,152.710 | 0.6594 | 84.5585 | 9.6158 | 3.3526 | 0.3664 | 0.6185 | 0.0667 | 0.0555 | 0.0243 | 0.9530 | 0.3807 | 0.0080 |
| 7 | 1,154.990 | 0.6609 | 84.2569 | 9.9133 | 3.3641 | 0.3552 | 0.6182 | 0.0682 | 0.0563 | 0.0248 | 0.9432 | 0.3911 | 0.0085 |
| 8 | 1,157.274 | 0.6626 | 84.1061 | 9.9355 | 3.4370 | 0.3684 | 0.6495 | 0.0700 | 0.0571 | 0.0247 | 0.9394 | 0.4029 | 0.0093 |
| 9 | 1,157.234 | 0.6618 | 84.1907 | 9.9310 | 3.4137 | 0.3649 | 0.6411 | 0.0695 | 0.0597 | 0.0265 | 0.9313 | 0.3626 | 0.0091 |
| 10 | 1,156.880 | 0.6619 | 84.1838 | 9.9099 | 3.4157 | 0.3664 | 0.6477 | 0.0672 | 0.0572 | 0.0258 | 0.9423 | 0.3744 | 0.0096 |
| 11 | 1,156.608 | 0.6617 | 84.2172 | 9.8813 | 3.4195 | 0.3630 | 0.6407 | 0.0686 | 0.0583 | 0.0266 | 0.9336 | 0.3816 | 0.0095 |
| 12 | 1,157.001 | 0.6623 | 84.1782 | 9.8604 | 3.4284 | 0.3677 | 0.6606 | 0.0720 | 0.0591 | 0.0258 | 0.9443 | 0.3941 | 0.0094 |
| 13 | 1,158.130 | 0.6629 | 84.1131 | 9.8714 | 3.4686 | 0.3731 | 0.6715 | 0.0721 | 0.0602 | 0.0255 | 0.9498 | 0.3858 | 0.0089 |
| 14 | 1,157.607 | 0.6627 | 84.0925 | 9.9113 | 3.4646 | 0.3692 | 0.6602 | 0.0670 | 0.0553 | 0.0252 | 0.9645 | 0.3812 | 0.0091 |
| 15 | 1,157.168 | 0.6621 | 84.2129 | 9.8469 | 3.4475 | 0.3682 | 0.6557 | 0.0689 | 0.0566 | 0.0246 | 0.9230 | 0.3863 | 0.0094 |
| 16 | 1,157.712 | 0.6626 | 84.1637 | 9.8481 | 3.4672 | 0.3706 | 0.6634 | 0.0690 | 0.0575 | 0.0276 | 0.9273 | 0.3963 | 0.0093 |
| 17 | 1,158.159 | 0.6628 | 84.1111 | 9.8991 | 3.4789 | 0.3691 | 0.6567 | 0.0679 | 0.0578 | 0.0293 | 0.9339 | 0.3871 | 0.0091 |
| 18 | 1,160.038 | 0.6646 | 83.8720 | 9.9915 | 3.5337 | 0.3764 | 0.6822 | 0.0719 | 0.0601 | 0.0278 | 0.9939 | 0.3815 | 0.0090 |
| 19 | 1,158.195 | 0.6624 | 84.1730 | 9.8928 | 3.4323 | 0.3722 | 0.6638 | 0.0723 | 0.0608 | 0.0306 | 0.9269 | 0.3658 | 0.0094 |
| 20 | 1,156.070 | 0.6613 | 84.2418 | 9.9500 | 3.3516 | 0.3608 | 0.6210 | 0.0712 | 0.0615 | 0.0308 | 0.9105 | 0.3915 | 0.0094 |
| 21 | 1,156.942 | 0.6619 | 84.2148 | 9.8956 | 3.3984 | 0.3679 | 0.6457 | 0.0724 | 0.0595 | 0.0290 | 0.9276 | 0.3804 | 0.0087 |
| 22 | 1,157.410 | 0.6622 | 84.1275 | 9.9759 | 3.4096 | 0.3666 | 0.6434 | 0.0698 | 0.0577 | 0.0277 | 0.9396 | 0.3735 | 0.0087 |
| 23 | 1,159.465 | 0.6634 | 83.9498 | 10.0740 | 3.4759 | 0.3673 | 0.6548 | 0.0699 | 0.0583 | 0.0277 | 0.9632 | 0.3504 | 0.0088 |
| 24 | 1,160.119 | 0.6637 | 83.9576 | 10.0651 | 3.4813 | 0.3717 | 0.6685 | 0.0704 | 0.0574 | 0.0279 | 0.9206 | 0.3708 | 0.0087 |
| 25 | 1,167.761 | 0.6702 | 83.0469 | 10.5180 | 3.7259 | 0.3888 | 0.7216 | 0.0720 | 0.0601 | 0.0300 | 1.0252 | 0.4027 | 0.0086 |
| 26 | 1,166.949 | 0.6687 | 83.3245 | 10.3692 | 3.6708 | 0.3930 | 0.7244 | 0.0742 | 0.0622 | 0.0305 | 0.9526 | 0.3898 | 0.0088 |
| 27 | 1,166.325 | 0.6679 | 83.4728 | 10.2758 | 3.6378 | 0.3962 | 0.7275 | 0.0750 | 0.0636 | 0.0321 | 0.9255 | 0.3849 | 0.0088 |
| 28 | 1,165.894 | 0.6676 | 83.4828 | 10.3067 | 3.6247 | 0.3887 | 0.7051 | 0.0780 | 0.0662 | 0.0323 | 0.9225 | 0.3848 | 0.0082 |
| 29 | 1,167.532 | 0.6688 | 83.3548 | 10.3596 | 3.6644 | 0.3949 | 0.7260 | 0.0793 | 0.0673 | 0.0323 | 0.9122 | 0.4010 | 0.0084 |
| 30 | 1,164.867 | 0.6667 | 83.6071 | 10.2251 | 3.6118 | 0.3839 | 0.7058 | 0.0764 | 0.0634 | 0.0284 | 0.9169 | 0.3733 | 0.0082 |
| Volume | 1,159.586 | 0.6637 | 83.9663 | 10.0183 | 3.4903 | 0.3724 | 0.6655 | 0.0706 | 0.0592 | 0.0275 | 0.9386 | 0.3825 | 0.0088 |
| Weight Avg Energy | 1,159.602 | 0.6637 | 83.9644 | 10.0193 | 3.4908 | 0.3724 | 0.6656 | 0.0707 | 0.0592 | 0.0275 | 0.9388 | 0.3826 | 0.0088 |

September-24

ZONE 610

Watford City

Watford City West Border

Watford City East Border

Weighted

| Start Date | End Date | BTU | | | BTU | | | AVG BTU | |
|------------|-----------|-----|-----|-----------|-------|-------|-----------|------------|-----------|
| | | MCF | DK | Zone 25 | MCF | DK | Zone 43 | | |
| 9/1/2024 | 9/2/2024 | 4 | 4 | 1193.7 | 68 | 76 | 1112 | 1116.539 | 9/1/2024 |
| 9/2/2024 | 9/3/2024 | 1 | 2 | 1193.7 | 87 | 97 | 1112 | 1112.928 | 9/2/2024 |
| 9/3/2024 | 9/4/2024 | 8 | 9 | 1193.7 | 73 | 82 | 1112 | 1120.069 | 9/3/2024 |
| 9/4/2024 | 9/5/2024 | 13 | 15 | 1193.7 | 105 | 117 | 1112 | 1121.001 | 9/4/2024 |
| 9/5/2024 | 9/6/2024 | 27 | 32 | 1193.7 | 117 | 130 | 1112 | 1127.319 | 9/5/2024 |
| 9/6/2024 | 9/7/2024 | 20 | 24 | 1193.7 | 116 | 129 | 1112 | 1124.015 | 9/6/2024 |
| 9/7/2024 | 9/8/2024 | 12 | 15 | 1193.7 | 76 | 84 | 1112 | 1123.141 | 9/7/2024 |
| 9/8/2024 | 9/9/2024 | 9 | 11 | 1193.7 | 80 | 89 | 1112 | 1120.262 | 9/8/2024 |
| 9/9/2024 | 9/10/2024 | 9 | 11 | 1193.7 | 83 | 92 | 1112 | 1119.992 | 9/9/2024 |
| 9/10/2024 | 9/11/2024 | 0 | 0 | 1193.7 | 131 | 145 | 1112 | 1112.000 | 9/10/2024 |
| 9/11/2024 | 9/12/2024 | 0 | 0 | 1193.7 | 129 | 143 | 1112 | 1112.000 | 9/11/2024 |
| 9/12/2024 | 9/13/2024 | 0 | 0 | 1193.7 | 143 | 158 | 1112 | 1112.000 | 9/12/2024 |
| 9/13/2024 | 9/14/2024 | 0 | 0 | 1193.7 | 149 | 166 | 1112 | 1112.000 | 9/13/2024 |
| 9/14/2024 | 9/15/2024 | 0 | 0 | 1193.7 | 121 | 135 | 1112 | 1112.000 | 9/14/2024 |
| 9/15/2024 | 9/16/2024 | 0 | 0 | 1193.7 | 121 | 135 | 1112 | 1112.000 | 9/15/2024 |
| 9/16/2024 | 9/17/2024 | 0 | 0 | 1193.7 | 149 | 165 | 1112 | 1112.000 | 9/16/2024 |
| 9/17/2024 | 9/18/2024 | 0 | 0 | 1193.7 | 181 | 201 | 1112 | 1112.000 | 9/17/2024 |
| 9/18/2024 | 9/19/2024 | 1 | 1 | 1193.7 | 182 | 203 | 1112 | 1112.446 | 9/18/2024 |
| 9/19/2024 | 9/20/2024 | 0 | 0 | 1193.7 | 178 | 198 | 1112 | 1112.000 | 9/19/2024 |
| 9/20/2024 | 9/21/2024 | 1 | 1 | 1193.7 | 152 | 169 | 1112 | 1112.534 | 9/20/2024 |
| 9/21/2024 | 9/22/2024 | 2 | 3 | 1193.7 | 198 | 220 | 1112 | 1112.817 | 9/21/2024 |
| 9/22/2024 | 9/23/2024 | 1 | 2 | 1193.7 | 136 | 152 | 1112 | 1112.596 | 9/22/2024 |
| 9/23/2024 | 9/24/2024 | 15 | 18 | 1193.7 | 161 | 180 | 1112 | 1118.963 | 9/23/2024 |
| 9/24/2024 | 9/25/2024 | 0 | 0 | 1193.7 | 153 | 170 | 1112 | 1112.000 | 9/24/2024 |
| 9/25/2024 | 9/26/2024 | 7 | 9 | 1193.7 | 179 | 199 | 1112 | 1115.075 | 9/25/2024 |
| 9/26/2024 | 9/27/2024 | 7 | 8 | 1193.7 | 159 | 177 | 1112 | 1115.445 | 9/26/2024 |
| 9/27/2024 | 9/28/2024 | 0 | 0 | 1193.7 | 148 | 164 | 1112 | 1112.000 | 9/27/2024 |
| 9/28/2024 | 9/29/2024 | 0 | 0 | 1193.7 | 125 | 139 | 1112 | 1112.000 | 9/28/2024 |
| 9/29/2024 | 9/30/2024 | 0 | 0 | 1193.7 | 143 | 159 | 1112 | 1112.000 | 9/29/2024 |
| 9/30/2024 | 10/1/2024 | 37 | 44 | 1193.7 | 226 | 251 | 1112 | 1123.494 | 9/30/2024 |
| | | 174 | 209 | 1193.7000 | 4,069 | 4,525 | 1112.0000 | 1115.4879 | |

| 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 | SEP24 | AUG24 | JUL24 | JUN24 | MAY24 | APR24 | MAR24 | FEB24 | JAN24 | DEC23 | NOV23 | OCT23 | Zone |
|-------|------|--|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| MT/ND | 211 | Sidney Border - MonDak Tfr - Sidney Plt | 1189 | 1191 | 1194 | 1192 | 1190 | 1187 | 1184 | 1185 | 1187 | 1179 | 1192 | 1195 | 1194 | 211 |
| ND | 24 | Williston Border - Charbonneau Station | 1188 | 1187 | 1185 | 1191 | 1186 | 1184 | 1181 | 1181 | 1192 | 1197 | 1194 | 1194 | 1188 | 24 |
| ND | 25 | Watford City West Border | 1196 | 1194 | 1197 | 1192 | 1187 | 1201 | 1193 | 1194 | 1194 | 1198 | 1197 | 1198 | 1207 | 25 |
| ND | 28 | Bismarck Station - Glen Ullin Station | 1169 | 1204 | 1203 | 1200 | 1202 | 1200 | 1160 | 1147 | 1126 | 1131 | 1138 | 1161 | 1154 | 28 |
| ND | 31 | Dickinson Brd - Belfield Trf - G Ullin Stn | 1125 | 1106 | 1111 | 1115 | 1108 | 1106 | 1133 | 1147 | 1127 | 1127 | 1134 | 1147 | 1138 | 31 |
| ND/MT | 32 | Cabin Creek Station - Belfied Transfer | 1130 | 1128 | 1135 | 1110 | 1135 | 1144 | 1144 | 1116 | 1118 | 1122 | 1132 | 1138 | 1135 | 32 |
| ND | 33 | Little Knife Plant | 1170 | 1162 | 1165 | 1173 | 1170 | 1170 | 1173 | 1173 | 1171 | 1169 | 1168 | 1174 | 1173 | 33 |
| ND | 34 | Badlands Plant/Bowman Border | 1023 | 1034 | 980 | 981 | 1040 | 1043 | 1005 | 1027 | 1000 | 1094 | 1079 | 1017 | 980 | 34 |
| ND | 43 | Watford City East Border | 1106 | 1112 | 1117 | 1085 | 1081 | 1075 | 1066 | 1085 | 1113 | 1127 | 1132 | 1154 | 1119 | 43 |
| ND/MT | 241 | Fairview Border | 1186 | 1183 | 1182 | 1185 | 1181 | 1172 | 1182 | 1186 | 1192 | 1185 | 1192 | 1198 | 1192 | 241 |
| ND | 267 | North Tioga Transfer - Nesson Plant | 1182 | 1195 | 1199 | 1191 | 1191 | 1193 | 1183 | 1187 | 1165 | 1166 | 1171 | 1169 | 1169 | 267 |
| ND | 261 | Tioga Comp Station - Robinson Lake Plant | 1196 | 1195 | 1200 | 1195 | 1197 | 1195 | 1196 | 1195 | 1192 | 1178 | 1201 | 1203 | 1203 | 261 |
| ND | 262 | Minot Bdr - Palermo Bdr - Bismarck Stn | 1200 | 1203 | 1201 | 1199 | 1200 | 1199 | 1195 | 1195 | 1196 | 1198 | 1202 | 1204 | 1206 | 262 |
| ND | 263 | Lignite Plant | 1131 | 1131 | 1131 | 1131 | 1131 | 1131 | 1131 | 1131 | 1131 | 1131 | 1131 | 1131 | 1131 | 263 |
| ND | 264 | Epping Border | 1186 | 1188 | 1182 | 1179 | 1172 | 1168 | 1176 | 1172 | 1193 | 1204 | 1206 | 1206 | 1191 | 264 |
| ND | 265 | Tioga Comp Station - County Line Plant | 1181 | 1179 | 1181 | 1183 | 1174 | 1188 | 1195 | 1192 | 1179 | 1169 | 1183 | 1175 | 1171 | 265 |
| ND | 266 | County Line Plant | 1182 | 1181 | 1183 | 1187 | 1174 | 1188 | 1195 | 1193 | 1181 | 1171 | 1184 | 1177 | 1172 | 266 |
| ND | 271 | Bismarck Station - Cleveland Station | 1198 | 1204 | 1203 | 1200 | 1202 | 1201 | 1198 | 1192 | 1183 | 1186 | 1201 | 1206 | 1204 | 271 |
| ND | 272 | Cleveland Station - Mapleton | 1198 | 1202 | 1202 | 1200 | 1201 | 1200 | 1197 | 1191 | 1183 | 1185 | 1200 | 1204 | 1205 | 272 |
| ND | 273 | Cleveland Station - Grafton Border | 1198 | 1202 | 1202 | 1200 | 1202 | 1199 | 1198 | 1191 | 1183 | 1186 | 1201 | 1205 | 1204 | 273 |
| ND | 550 | Mandan Border / NBPL-St Anthony | 1158 | 1198 | 1179 | 1168 | 1160 | 1192 | 1157 | 1146 | 1126 | 1124 | 1138 | 1161 | 1142 | 550 |
| ND | 610 | MDU-Watford City BTU | 1131 | 1115 | 1127 | 1108 | 1111 | 1121 | 1112 | 1118 | 1138 | 1150 | 1151 | 1167 | 1152 | 610 |
| ND | 802 | NBPL - Linton | 1107 | 1103 | 1108 | 1100 | 1100 | 1104 | 1109 | 1114 | 1114 | 1103 | 1114 | 1104 | 1106 | 802 |
| ND | 903 | Hettinger Propane | 2549 | 2549 | 2549 | 2549 | 2549 | 2549 | 2549 | 2549 | 2549 | 2549 | 2549 | 2549 | 2549 | 903 |
| ND | 600 | Alliance Pipeline - Hankinson | 1149 | 1159 | 1157 | 1148 | 1147 | 1148 | 1148 | 1146 | 1144 | 1144 | 1147 | 1146 | 1153 | 600 |
| ND | 601 | Alliance Pipeline - Milnor | 1149 | 1160 | 1157 | 1149 | 1147 | 1149 | 1148 | 1146 | 1144 | 1144 | 1147 | 1147 | 1154 | 601 |

| THERMAL ZONE VARIANCE DOCUMENTATION | | |
|--|--------------------------------|----------------------|
| September 2024 | | |
| <i>ZONE</i> | <i>BTU VARIANCE</i> | <i>REASON</i> |
| 34 | 54 | Blend |