

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

January 25, 2020

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

Re: Case No. PU-20-002 (Therm Billing)  
Monthly Report – November 2020

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 December 2020.
2. Attachment B consists of copies of the monthly Heating Value Test Reports received from our suppliers for the month of November 2020.
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 November 2020.

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

Sincerely,

*/s/ Travis R. Jacobson*

Travis R. Jacobson  
Director of Regulatory Affairs

**Montana-Dakota Utilities Co.**  
**Therm Billing Factors - North Dakota**  
**Dec-20**

| <u>Town</u>          | <u>Heat Zone</u> | <u>Therm Factor</u> |
|----------------------|------------------|---------------------|
| MDU-303-ALEXANDER    | 025              | 1.1268              |
| MDU-308-ARNEGARD     | 025              | 1.1268              |
| MDU-314-APPLE VALLEY | 271              | 1.1395              |
| MDU-318-BEACH        | 032              | 1.0415              |
| MDU-319-BELFIELD     | 032              | 1.0492              |
| MDU-323-BERTHOLD     | 262              | 1.1164              |
| MDU-324-BEULAH       | 032              | 1.0492              |
| MDU-327-BISMARCK     | 028              | 1.1115              |
| MDU-330-BOWMAN       | 034              | 0.9724              |
| MDU-337-BURLINGTON   | 262              | 1.1405              |
| MDU-343-CARRINGTON   | 273              | 1.1395              |
| MDU-344-CLEVELAND    | 272              | 1.1324              |
| MDU-364-CAVALIER     | 273              | 1.1636              |
| MDU-365-DAWSON       | 271              | 1.1315              |
| MDU-368-DES LACS     | 262              | 1.1244              |
| MDU-369-DICKINSON    | 031              | 1.0652              |
| MDU-374-FT TOTTEN    | 273              | 1.1475              |
| MDU-375-DEVILS LAKE  | 273              | 1.1475              |
| MDU-379-BARLOW       | 273              | 1.1395              |
| MDU-384-EPPING       | 264              | 1.0918              |
| MDU-387-ELDRIDGE     | 272              | 1.1405              |
| MDU-407-GLADSTONE    | 031              | 1.0652              |
| MDU-411-GLEN ULLIN   | 031              | 1.0730              |
| MDU-413-GOLVA        | 032              | 1.0262              |
| MDU-416-GARRISON     | 262              | 1.1244              |
| MDU-417-GRAFTON      | 273              | 1.1716              |
| MDU-403-GWINNER      | 601              | 1.1488              |
| MDU-429-HEBRON       | 031              | 1.0730              |
| MDU-432-HETTINGER    | 903              | 2.3875              |
| MDU-449-JAMESTOWN    | 272              | 1.1485              |
| MDU-459-KILLDEER     | 033              | 1.1070              |
| MDU-463-LANGDON      | 273              | 1.1395              |
| MDU-469-LEFOR        | 031              | 1.0652              |
| MDU-474-LIGNITE      | 263              | 1.0816              |
| MDU-475-LINTON       | 802              | 1.0710              |
| MDU-478-LINCOLN      | 028              | 1.1115              |
| MDU-488-MCKENZIE     | 271              | 1.1395              |
| MDU-494-MEDINA       | 271              | 1.1315              |
| MDU-498-MANDAN       | 028              | 1.1115              |
| MDU-500-MARMARTH     | 034              | 0.9796              |
| MDU-505-MINOT        | 262              | 1.1405              |
| MDU-510-MOTT         | 031              | 1.0652              |
| MDU-512-MAX          | 262              | 1.1164              |
| MDU-513-MILNOR       | 601              | 1.1488              |
| MDU-522-NEW ENGLAND  | 031              | 1.0575              |
| MDU-524-NEW SALEM    | 028              | 1.0881              |
| MDU-532-NEW ROCKFORD | 273              | 1.1395              |
| MDU-539-PARK RIVER   | 273              | 1.1636              |
| MDU-540-PALERMO      | 262              | 1.1164              |

|                        |     |        |
|------------------------|-----|--------|
| MDU-558-RAY            | 264 | 1.0918 |
| MDU-561-REGENT         | 031 | 1.0652 |
| MDU-563-RHAME          | 034 | 0.9652 |
| MDU-564-RICHARDTON     | 031 | 1.0575 |
| MDU-568-ROSS           | 261 | 1.0915 |
| MDU-572-RUTHVILLE      | 262 | 1.1405 |
| MDU-574-SANBORN        | 272 | 1.1485 |
| MDU-583-SENTINEL BUTTE | 032 | 1.0415 |
| MDU-588-SOUTH HEART    | 031 | 1.0575 |
| MDU-717-SPIRITWOOD     | 272 | 1.1485 |
| MDU-590-SPRINGBROOK    | 264 | 1.0986 |
| MDU-591-STANLEY        | 261 | 1.0994 |
| MDU-593-STEELE         | 271 | 1.1315 |
| MDU-594-STERLING       | 028 | 1.1115 |
| MDU-598-SHEYENNE       | 273 | 1.1475 |
| MDU-605-SURREY         | 262 | 1.1405 |
| MDU-610-TAPPEN         | 271 | 1.1315 |
| MDU-611-TAYLOR         | 031 | 1.0575 |
| MDU-616-TIOGA          | 260 | 1.0446 |
| MDU-619-TURTLE LAKE    | 262 | 1.1244 |
| MDU-620-TRENTON        | 024 | 1.1016 |
| MDU-624-UNDERWOOD      | 262 | 1.1244 |
| MDU-625-VALLEY CITY    | 272 | 1.1565 |
| MDU-629-WALHALLA       | 273 | 1.1636 |
| MDU-632-WATFORD CITY   | 610 | 1.1003 |
| MDU-636-WHEELOCK       | 264 | 1.0831 |
| MDU-637-WHITE EARTH    | 261 | 1.0947 |
| MDU-642-WILLISTON      | 024 | 1.1016 |
| MDU-646-WASHBURN       | 262 | 1.1324 |
| MDU-647-WILTON         | 262 | 1.1126 |
| MDU-664-RIVERDALE      | 262 | 1.1206 |
| MDU-691-FAIRVIEW       | 241 | 1.1121 |
| MDU-712-MINOT AFB      | 262 | 1.1405 |
| MDU-718-FAIRMOUNT      | 600 | 1.1464 |
| MDU-732-NEKOMA         | 273 | 1.1395 |
| MDU-732-MSR SITE       | 273 | 1.1395 |

# Source Daily Summary

November 2020

**Number:** 251

**Pressure Base:** 14.730

**Contract Day:** 1

**Name:** SDNY BDR-MNDK JNCTN-SDNY PLT

**Temperature Base:**

**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   | 0.7363           | 1191.7            | 1212.8            | 1209.2               | 1.000 | 3.668 | 68.024 | 22.941 | 4.033 | 0.112 | 0.202 | 0.011 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1410.07 |     |
| 2   | 0.7398           | 1186.6            | 1207.6            | 1203.8               | 1.342 | 3.796 | 67.802 | 22.577 | 4.086 | 0.130 | 0.241 | 0.014 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1400.48 |     |
| 3   | 0.7440           | 1194.3            | 1215.4            | 1211.8               | 1.371 | 3.671 | 66.947 | 23.565 | 4.062 | 0.126 | 0.234 | 0.013 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1405.72 |     |
| 4   | 0.7398           | 1186.9            | 1207.9            | 1204.3               | 1.351 | 3.764 | 67.326 | 23.504 | 3.710 | 0.113 | 0.210 | 0.012 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1400.95 |     |
| 5   | 0.7391           | 1185.5            | 1206.4            | 1202.8               | 1.349 | 3.785 | 67.578 | 23.129 | 3.811 | 0.114 | 0.212 | 0.012 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1399.94 |     |
| 6   | 0.7379           | 1183.5            | 1204.5            | 1200.9               | 1.353 | 3.787 | 67.693 | 23.123 | 3.707 | 0.111 | 0.206 | 0.011 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1398.79 |     |
| 7   | 0.7387           | 1186.9            | 1207.9            | 1204.3               | 1.295 | 3.746 | 67.402 | 23.583 | 3.641 | 0.110 | 0.204 | 0.011 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1402.02 |     |
| 8   | 0.7067           | 1174.6            | 1195.4            | 1192.2               | 0.045 | 3.389 | 71.260 | 22.554 | 2.659 | 0.037 | 0.054 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1418.78 |     |
| 9   | 0.7178           | 1193.8            | 1214.9            | 1211.6               | 0.048 | 3.260 | 69.998 | 23.060 | 3.443 | 0.071 | 0.113 | 0.004 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1430.62 |     |
| 10  | 0.7154           | 1177.0            | 1197.8            | 1198.0               | 0.303 | 3.462 | 70.371 | 22.542 | 3.166 | 0.057 | 0.093 | 0.004 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1417.05 |     |
| 11  | 0.7038           | 1170.1            | 1190.8            | 1187.6               | 0.057 | 3.377 | 71.538 | 22.598 | 2.342 | 0.035 | 0.050 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1416.16 |     |
| 12  | 0.7165           | 1175.8            | 1196.7            | 1193.3               | 0.499 | 3.541 | 69.928 | 23.143 | 2.711 | 0.062 | 0.107 | 0.004 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1410.63 |     |
| 13  | 0.7056           | 1168.8            | 1189.5            | 1186.2               | 0.181 | 3.439 | 71.149 | 22.921 | 2.241 | 0.028 | 0.040 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1412.84 |     |
| 14  | 0.7045           | 1170.4            | 1191.1            | 1187.9               | 0.052 | 3.430 | 71.418 | 22.635 | 2.380 | 0.034 | 0.050 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1415.86 |     |
| 15  | 0.7016           | 1166.2            | 1186.9            | 1183.7               | 0.049 | 3.423 | 71.604 | 22.823 | 2.049 | 0.022 | 0.030 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1413.70 |     |
| 16  | 0.7041           | 1170.5            | 1191.2            | 1188.0               | 0.052 | 3.383 | 71.467 | 22.675 | 2.343 | 0.032 | 0.047 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1416.44 |     |
| 17  | 0.7235           | 1182.4            | 1203.3            | 1199.9               | 0.665 | 3.553 | 68.901 | 23.782 | 2.894 | 0.071 | 0.124 | 0.006 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1411.53 |     |
| 18  | 0.7161           | 1177.1            | 1197.9            | 1194.6               | 0.453 | 3.504 | 69.903 | 23.281 | 2.710 | 0.053 | 0.088 | 0.004 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1412.41 |     |
| 19  | 0.7030           | 1166.1            | 1186.7            | 1183.5               | 0.099 | 3.484 | 71.588 | 22.517 | 2.244 | 0.028 | 0.039 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1412.13 |     |
| 20  | 0.7061           | 1174.7            | 1195.5            | 1192.3               | 0.060 | 3.307 | 71.205 | 22.873 | 2.467 | 0.034 | 0.051 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1419.45 |     |
| 21  | 0.7268           | 1183.6            | 1204.6            | 1201.2               | 0.791 | 3.591 | 68.550 | 23.790 | 3.057 | 0.076 | 0.134 | 0.007 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1409.82 |     |
| 22  | 0.7104           | 1172.5            | 1193.3            | 1190.1               | 0.295 | 3.485 | 70.703 | 22.828 | 2.578 | 0.042 | 0.066 | 0.002 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1412.57 |     |
| 23  | 0.7061           | 1173.4            | 1194.2            | 1191.0               | 0.061 | 3.379 | 71.260 | 22.693 | 2.520 | 0.035 | 0.051 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1417.94 |     |
| 24  | 0.7054           | 1171.9            | 1192.7            | 1189.5               | 0.058 | 3.408 | 71.315 | 22.690 | 2.440 | 0.035 | 0.052 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1416.87 |     |
| 25  | 0.7273           | 1184.1            | 1205.0            | 1201.6               | 0.806 | 3.589 | 68.716 | 23.402 | 3.222 | 0.090 | 0.160 | 0.008 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1409.80 |     |
| 26  | 0.6998           | 1162.7            | 1183.3            | 1180.2               | 0.061 | 3.447 | 72.086 | 22.213 | 2.126 | 0.027 | 0.039 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1411.26 |     |
| 27  | 0.7028           | 1168.5            | 1189.2            | 1186.1               | 0.055 | 3.379 | 71.621 | 22.627 | 2.242 | 0.030 | 0.045 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1415.33 |     |
| 28  | 0.7006           | 1163.9            | 1184.5            | 1181.4               | 0.056 | 3.461 | 71.911 | 22.378 | 2.127 | 0.027 | 0.039 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1411.82 |     |
| 29  | 0.7134           | 1179.8            | 1200.7            | 1197.5               | 0.242 | 3.408 | 70.126 | 23.465 | 2.629 | 0.049 | 0.078 | 0.003 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1418.35 |     |
| 30  | 0.7104           | 1181.9            | 1202.8            | 1199.7               | 0.057 | 3.277 | 70.875 | 22.686 | 3.012 | 0.040 | 0.052 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1423.78 |     |
| Avg | 0.7168           | 1178.0            | 1198.4            | 1195.1               | 0.470 | 3.506 | 70.009 | 22.953 | 2.888 | 0.061 | 0.104 | 0.005 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1412.44 |     |

# Source Daily Summary

November 2020

Number: 571

Pressure Base: 14.730

Contract Day: 1

Name: WILLISTON BDR-CHARBN STN

Temperature Base:

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   | 0.6962           | 1148.2            | 1168.5            | 1165.2               | 0.972 | 2.601 | 74.283 | 19.804 | 2.040 | 0.085 | 0.183 | 0.014 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1397.15 |
| 2   | 0.6946           | 1145.6            | 1165.9            | 1162.6               | 0.949 | 2.639 | 74.540 | 19.571 | 2.009 | 0.083 | 0.178 | 0.014 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1395.68 |
| 3   | 0.6939           | 1144.5            | 1164.8            | 1161.5               | 0.948 | 2.645 | 74.647 | 19.470 | 2.009 | 0.081 | 0.171 | 0.013 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1395.02 |
| 4   | 0.6940           | 1144.6            | 1164.9            | 1161.6               | 0.949 | 2.641 | 74.522 | 19.714 | 1.898 | 0.079 | 0.168 | 0.013 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1395.12 |
| 5   | 0.6947           | 1145.1            | 1165.4            | 1162.1               | 0.955 | 2.675 | 74.427 | 19.709 | 1.955 | 0.079 | 0.170 | 0.013 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1394.91 |
| 6   | 0.6950           | 1145.7            | 1166.0            | 1162.7               | 0.961 | 2.655 | 74.399 | 19.743 | 1.957 | 0.081 | 0.174 | 0.014 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1395.37 |
| 7   | 0.6957           | 1147.2            | 1167.5            | 1164.2               | 0.959 | 2.636 | 74.370 | 19.696 | 2.032 | 0.086 | 0.189 | 0.015 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1396.45 |
| 8   | 0.6954           | 1146.7            | 1167.0            | 1163.7               | 0.959 | 2.634 | 74.495 | 19.524 | 2.078 | 0.088 | 0.190 | 0.015 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1396.16 |
| 9   | 0.6956           | 1147.6            | 1167.9            | 1164.7               | 0.958 | 2.598 | 74.379 | 19.739 | 2.026 | 0.086 | 0.184 | 0.014 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1397.11 |
| 10  | 0.6941           | 1145.4            | 1165.7            | 1162.4               | 0.959 | 2.597 | 74.568 | 19.646 | 1.941 | 0.082 | 0.177 | 0.014 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1395.84 |
| 11  | 0.6943           | 1145.6            | 1165.9            | 1162.6               | 0.962 | 2.593 | 74.573 | 19.631 | 1.946 | 0.085 | 0.182 | 0.014 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1395.95 |
| 12  | 0.6959           | 1148.1            | 1168.4            | 1165.2               | 0.975 | 2.576 | 74.294 | 19.873 | 1.978 | 0.086 | 0.186 | 0.015 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1397.33 |
| 13  | 0.6970           | 1148.8            | 1169.2            | 1165.9               | 0.978 | 2.623 | 74.168 | 19.864 | 2.058 | 0.087 | 0.190 | 0.015 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1397.20 |
| 14  | 0.6903           | 1137.3            | 1157.5            | 1154.2               | 0.970 | 2.706 | 75.452 | 18.596 | 1.955 | 0.089 | 0.196 | 0.016 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1389.86 |
| 15  | 0.6884           | 1134.1            | 1154.1            | 1150.9               | 0.965 | 2.734 | 75.840 | 18.172 | 1.963 | 0.091 | 0.200 | 0.016 | 0.019 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1387.81 |
| 16  | 0.6910           | 1137.7            | 1157.8            | 1154.5               | 0.951 | 2.786 | 75.501 | 18.264 | 2.157 | 0.096 | 0.209 | 0.017 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1389.51 |
| 17  | 0.6934           | 1142.2            | 1162.4            | 1159.2               | 0.943 | 2.748 | 74.975 | 18.846 | 2.163 | 0.092 | 0.199 | 0.015 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1392.65 |
| 18  | 0.6973           | 1148.1            | 1168.4            | 1165.2               | 0.964 | 2.719 | 74.198 | 19.650 | 2.144 | 0.091 | 0.199 | 0.016 | 0.019 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1395.96 |
| 19  | 0.6973           | 1148.5            | 1168.8            | 1165.6               | 0.973 | 2.681 | 74.160 | 19.759 | 2.107 | 0.091 | 0.195 | 0.015 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1396.46 |
| 20  | 0.6980           | 1150.0            | 1170.3            | 1167.1               | 0.979 | 2.646 | 74.037 | 19.916 | 2.096 | 0.093 | 0.199 | 0.016 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1397.58 |
| 21  | 0.6988           | 1150.6            | 1170.9            | 1167.7               | 0.978 | 2.688 | 73.970 | 19.851 | 2.172 | 0.096 | 0.208 | 0.017 | 0.019 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1397.47 |
| 22  | 0.6992           | 1151.4            | 1171.8            | 1168.6               | 0.972 | 2.681 | 73.988 | 19.751 | 2.259 | 0.099 | 0.214 | 0.017 | 0.019 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1398.10 |
| 23  | 0.6978           | 1149.4            | 1169.7            | 1166.6               | 0.972 | 2.678 | 74.072 | 19.824 | 2.138 | 0.090 | 0.194 | 0.015 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1397.01 |
| 24  | 0.6991           | 1150.8            | 1171.2            | 1168.0               | 0.972 | 2.713 | 73.893 | 19.892 | 2.201 | 0.093 | 0.203 | 0.016 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1397.46 |
| 25  | 0.6985           | 1149.9            | 1170.3            | 1167.1               | 0.964 | 2.724 | 74.068 | 19.666 | 2.237 | 0.096 | 0.209 | 0.017 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1396.95 |
| 26  | 0.6984           | 1149.8            | 1170.2            | 1167.0               | 0.974 | 2.703 | 74.049 | 19.752 | 2.183 | 0.095 | 0.207 | 0.017 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1396.95 |
| 27  | 0.7004           | 1152.8            | 1173.2            | 1170.0               | 0.972 | 2.706 | 73.720 | 20.022 | 2.233 | 0.097 | 0.212 | 0.017 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1398.63 |
| 28  | 0.7001           | 1152.5            | 1172.9            | 1169.8               | 0.974 | 2.701 | 73.726 | 20.050 | 2.207 | 0.096 | 0.209 | 0.017 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1398.50 |
| 29  | 0.6998           | 1152.2            | 1172.6            | 1169.4               | 0.978 | 2.683 | 73.791 | 20.021 | 2.185 | 0.096 | 0.211 | 0.017 | 0.019 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1398.43 |
| 30  | 0.7003           | 1153.3            | 1173.7            | 1170.5               | 0.973 | 2.670 | 73.740 | 20.032 | 2.238 | 0.096 | 0.213 | 0.017 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1399.26 |
| Avg | 0.6962           | 1147.0            | 1167.4            | 1164.2               | 0.965 | 2.669 | 74.362 | 19.601 | 2.086 | 0.090 | 0.194 | 0.015 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1395.93 |

# Gas Composition and Properties

Effective November 1, 2020

Attachment B  
Page 3 of 24

Source #: 0602160  
Name: FAIRVIEW BORDER

| Component             | Mole %          | Liquid Content | Mass %          |
|-----------------------|-----------------|----------------|-----------------|
| Carbon Dioxide, CO2   | 1.2407          |                | 2.5761          |
| Nitrogen, N2          | 3.7113          |                | 4.9051          |
| Methane, C1           | 68.1307         |                | 51.5662         |
| Ethane, C2            | 23.1037         | 6.1841         | 32.7757         |
| Propane, C3           | 3.4735          | 0.9578         | 7.2263          |
| iso-Butane, iC4       | 0.1079          | 0.0353         | 0.2959          |
| n-Butane, nC4         | 0.2061          | 0.0650         | 0.5652          |
| iso-Pentane, iC5      | 0.0136          | 0.0050         | 0.0463          |
| n-Pentane, nC5        | 0.0116          | 0.0042         | 0.0395          |
| Neo-Pentane, NeoC5    |                 |                |                 |
| Hexanes Plus, C6+     | 0.0009          | 0.0004         | 0.0037          |
| Water, H2O            |                 |                |                 |
| Hydrogen Sulfide, H2S |                 |                |                 |
| Oxygen, O2            |                 |                |                 |
| Carbon Monoxide, CO   |                 |                |                 |
| Hydrogen, H2          |                 |                |                 |
| Helium, He            |                 |                |                 |
| Argon, Ar             |                 |                |                 |
| <b>Totals</b>         | <b>100.0000</b> | <b>7.2510</b>  | <b>100.0000</b> |

| Property               | Total Sample | C6 Plus Fraction |
|------------------------|--------------|------------------|
| Pressure Base          | 14.730       |                  |
| Temperature Base       | 60.00        |                  |
| HCDP @ Sample Pressure | -13.884      |                  |
| Cricondentherm         | 3.753        |                  |
| HV, Dry @ Base P, T    | 1202.54      |                  |
| HV, Sat @ Base P, T    | 1181.61      |                  |
| HV, Sat @ Sample P, T  | 1202.54      |                  |
| Relative Density       | 0.7340       |                  |

C6+: 100

## Sample

Date: 11/01/2020      Pressure: 420.0  
Type:      Temperature:  
Tech: Joshua Tipton      H2O: lbs/mm  
   H2S: ppm

Remarks:

## Analysis

Date: 11/01/2020      Instrument:  
   Cylinder: 1004  
Tech: Joshua Tipton

Remarks:

# Gas Composition and Properties

Effective November 1, 2020

Attachment B  
Page 4 of 24

Source #: 0602225  
Name: WATFORD CITY WEST BORDER

| Component             | Mole %          | Liquid Content | Mass %          |
|-----------------------|-----------------|----------------|-----------------|
| Carbon Dioxide, CO2   | 1.2796          |                | 2.6743          |
| Nitrogen, N2          | 3.7696          |                | 5.0147          |
| Methane, C1           | 70.4005         |                | 53.6334         |
| Ethane, C2            | 20.0439         | 5.3647         | 28.6213         |
| Propane, C3           | 3.6853          | 1.0161         | 7.7171          |
| iso-Butane, iC4       | 0.2193          | 0.0718         | 0.6053          |
| n-Butane, nC4         | 0.5021          | 0.1584         | 1.3859          |
| iso-Pentane, iC5      | 0.0446          | 0.0163         | 0.1528          |
| n-Pentane, nC5        | 0.0455          | 0.0165         | 0.1559          |
| Neo-Pentane, NeoC5    |                 |                |                 |
| Hexanes Plus, C6+     | 0.0096          | 0.0040         | 0.0393          |
| Water, H2O            |                 |                |                 |
| Hydrogen Sulfide, H2S |                 |                |                 |
| Oxygen, O2            |                 |                |                 |
| Carbon Monoxide, CO   |                 |                |                 |
| Hydrogen, H2          |                 |                |                 |
| Helium, He            |                 |                |                 |
| Argon, Ar             |                 |                |                 |
| <b>Totals</b>         | <b>100.0000</b> | <b>6.6480</b>  | <b>100.0000</b> |

| Property               | Total Sample | C6 Plus Fraction |
|------------------------|--------------|------------------|
| Pressure Base          | 14.730       |                  |
| Temperature Base       | 60.00        |                  |
| HCDP @ Sample Pressure | -1.735       |                  |
| Cricondentherm         | 10.863       |                  |
| HV, Dry @ Base P, T    | 1192.78      |                  |
| HV, Sat @ Base P, T    | 1172.02      |                  |
| HV, Sat @ Sample P, T  | 1192.78      |                  |
| Relative Density       | 0.7292       |                  |
| C6+: 100               |              |                  |

## Sample

Date: 11/01/2020      Pressure: 420.0  
Type:                      Temperature:  
Tech: Joshua Tipton      H2O: lbs/mm  
   H2S: ppm

Remarks:

## Analysis

Date: 11/01/2020      Instrument:  
   Cylinder: 384  
Tech: Joshua Tipton

Remarks:

# Source Daily Summary

November 2020

Number: 164

Pressure Base: 14.730

Contract Day: 1

Name: N TIOGA TRANSFER-NESSON PLT

Temperature Base:

Contract Hour: 9

| Day | Relative Density | Heating Value Wet | Heating Value Dry | Heating Value As Del | CO2   | N2    | C1     | C2     | C3    | IC4   | NC4   | IC5   | NC5   | C6    | C7 | C8 | C9 | C10 | Wobbe   | CCT |
|-----|------------------|-------------------|-------------------|----------------------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|----|----|----|-----|---------|-----|
| 1   | 0.6858           | 1121.6            | 1141.4            |                      | 0.823 | 3.472 | 76.002 | 17.396 | 2.070 | 0.066 | 0.145 | 0.011 | 0.013 | 0.001 |    |    |    |     | 1375.16 |     |
| 2   | 0.6760           | 1107.6            | 1127.3            |                      | 0.726 | 3.552 | 77.530 | 16.200 | 1.803 | 0.054 | 0.115 | 0.009 | 0.011 | 0.002 |    |    |    |     | 1367.87 |     |
| 3   | 0.6768           | 1108.7            | 1128.3            |                      | 0.751 | 3.521 | 77.341 | 16.423 | 1.802 | 0.049 | 0.100 | 0.006 | 0.007 | 0.000 |    |    |    |     | 1368.40 |     |
| 4   | 0.6828           | 1119.3            | 1139.1            |                      | 0.759 | 3.430 | 76.146 | 17.711 | 1.778 | 0.049 | 0.105 | 0.008 | 0.011 | 0.002 |    |    |    |     | 1375.35 |     |
| 5   | 0.6830           | 1118.0            | 1137.8            |                      | 0.800 | 3.461 | 76.189 | 17.533 | 1.846 | 0.051 | 0.105 | 0.007 | 0.008 | 0.000 |    |    |    |     | 1373.64 |     |
| 6   | 0.6820           | 1116.0            | 1135.8            |                      | 0.802 | 3.481 | 76.454 | 17.225 | 1.846 | 0.055 | 0.118 | 0.009 | 0.011 | 0.001 |    |    |    |     | 1372.26 |     |
| 7   | 0.6792           | 1111.4            | 1131.0            |                      | 0.779 | 3.545 | 77.140 | 16.393 | 1.894 | 0.067 | 0.154 | 0.012 | 0.014 | 0.002 |    |    |    |     | 1369.21 |     |
| 8   | 0.6750           | 1106.2            | 1125.8            |                      | 0.747 | 3.510 | 77.770 | 16.013 | 1.737 | 0.059 | 0.137 | 0.011 | 0.013 | 0.002 |    |    |    |     | 1367.14 |     |
| 9   | 0.6720           | 1101.3            | 1120.9            |                      | 0.732 | 3.548 | 78.262 | 15.567 | 1.694 | 0.055 | 0.124 | 0.009 | 0.010 | 0.000 |    |    |    |     | 1364.16 |     |
| 10  | 0.6766           | 1094.9            | 1114.3            |                      | 0.677 | 3.698 | 78.887 | 14.874 | 1.651 | 0.057 | 0.132 | 0.011 | 0.013 | 0.001 |    |    |    |     | 1354.68 |     |
| 11  | 0.6642           | 1088.0            | 1107.2            |                      | 0.703 | 3.669 | 79.760 | 14.043 | 1.620 | 0.056 | 0.126 | 0.010 | 0.011 | 0.001 |    |    |    |     | 1355.51 |     |
| 12  | 0.6798           | 1111.0            | 1130.7            |                      | 0.827 | 3.542 | 77.044 | 16.473 | 1.869 | 0.065 | 0.151 | 0.012 | 0.015 | 0.002 |    |    |    |     | 1368.29 |     |
| 13  | 0.6861           | 1120.7            | 1140.5            |                      | 0.857 | 3.503 | 76.185 | 16.999 | 2.167 | 0.077 | 0.177 | 0.015 | 0.018 | 0.003 |    |    |    |     | 1373.76 |     |
| 14  | 0.6846           | 1118.4            | 1138.2            |                      | 0.857 | 3.503 | 76.435 | 16.813 | 2.095 | 0.075 | 0.178 | 0.016 | 0.021 | 0.006 |    |    |    |     | 1372.47 |     |
| 15  | 0.6840           | 1117.0            | 1136.8            |                      | 0.859 | 3.525 | 76.517 | 16.740 | 2.068 | 0.075 | 0.178 | 0.015 | 0.019 | 0.003 |    |    |    |     | 1371.39 |     |
| 16  | 0.6793           | 1110.9            | 1130.6            |                      | 0.794 | 3.556 | 77.288 | 16.106 | 1.980 | 0.072 | 0.166 | 0.015 | 0.019 | 0.005 |    |    |    |     | 1368.60 |     |
| 17  | 0.6758           | 1105.6            | 1125.2            |                      | 0.775 | 3.577 | 77.831 | 15.666 | 1.909 | 0.067 | 0.148 | 0.012 | 0.014 | 0.001 |    |    |    |     | 1365.62 |     |
| 18  | 0.6890           | 1126.2            | 1146.1            |                      | 0.846 | 3.453 | 75.604 | 17.652 | 2.143 | 0.078 | 0.182 | 0.016 | 0.021 | 0.005 |    |    |    |     | 1377.64 |     |
| 19  | 0.6834           | 1116.5            | 1136.3            |                      | 0.846 | 3.516 | 76.545 | 16.790 | 2.038 | 0.071 | 0.164 | 0.013 | 0.015 | 0.002 |    |    |    |     | 1371.43 |     |
| 20  | 0.6849           | 1118.9            | 1138.7            |                      | 0.852 | 3.508 | 76.354 | 16.900 | 2.096 | 0.076 | 0.176 | 0.015 | 0.019 | 0.004 |    |    |    |     | 1372.73 |     |
| 21  | 0.6857           | 1119.4            | 1139.2            |                      | 0.852 | 3.547 | 76.365 | 16.727 | 2.181 | 0.083 | 0.199 | 0.018 | 0.023 | 0.005 |    |    |    |     | 1372.62 |     |
| 22  | 0.6819           | 1113.5            | 1133.2            |                      | 0.847 | 3.562 | 76.846 | 16.445 | 2.033 | 0.072 | 0.165 | 0.013 | 0.016 | 0.003 |    |    |    |     | 1369.14 |     |
| 23  | 0.6822           | 1114.0            | 1133.7            |                      | 0.839 | 3.572 | 76.730 | 16.610 | 1.981 | 0.071 | 0.165 | 0.014 | 0.017 | 0.003 |    |    |    |     | 1369.45 |     |
| 24  | 0.6820           | 1114.0            | 1133.7            |                      | 0.830 | 3.565 | 76.677 | 16.735 | 1.944 | 0.068 | 0.153 | 0.012 | 0.014 | 0.002 |    |    |    |     | 1369.71 |     |
| 25  | 0.6855           | 1120.1            | 1140.0            |                      | 0.842 | 3.500 | 76.363 | 16.801 | 2.180 | 0.082 | 0.188 | 0.017 | 0.021 | 0.005 |    |    |    |     | 1373.72 |     |
| 26  | 0.6847           | 1119.3            | 1139.1            |                      | 0.832 | 3.498 | 76.280 | 17.063 | 2.063 | 0.073 | 0.161 | 0.013 | 0.015 | 0.002 |    |    |    |     | 1373.40 |     |
| 27  | 0.6882           | 1124.1            | 1144.0            |                      | 0.855 | 3.488 | 75.866 | 17.279 | 2.192 | 0.083 | 0.192 | 0.018 | 0.022 | 0.006 |    |    |    |     | 1375.95 |     |
| 28  | 0.6839           | 1117.6            | 1137.3            |                      | 0.832 | 3.528 | 76.350 | 17.054 | 1.971 | 0.070 | 0.163 | 0.013 | 0.016 | 0.003 |    |    |    |     | 1372.11 |     |
| 29  | 0.6869           | 1121.7            | 1141.6            |                      | 0.857 | 3.512 | 75.984 | 17.251 | 2.090 | 0.079 | 0.188 | 0.016 | 0.019 | 0.004 |    |    |    |     | 1374.29 |     |
| 30  | 0.6899           | 1126.8            | 1146.7            |                      | 0.861 | 3.484 | 75.445 | 17.750 | 2.144 | 0.081 | 0.194 | 0.017 | 0.020 | 0.004 |    |    |    |     | 1377.43 |     |
| Avg | 0.6817           | 1114.0            | 1134.0            |                      | 0.809 | 3.527 | 76.806 | 16.641 | 1.963 | 0.068 | 0.155 | 0.013 | 0.015 | 0.003 |    |    |    |     | 1370.44 |     |

# Source Daily Summary

November 2020

**Number:** 601

**Pressure Base:** 14.730

**Contract Day:** 1

**Name:** TIOGA STN-ROBINSON LAKE PLNT

**Temperature Base:**

**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   | 0.6972           | 1138.2            | 1158.3            | 1155.3               | 0.936 | 3.355 | 73.993 | 19.214 | 2.290 | 0.065 | 0.130 | 0.008 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1384.09 |     |
| 2   | 0.6969           | 1137.2            | 1157.3            | 1154.1               | 0.965 | 3.347 | 74.109 | 19.084 | 2.260 | 0.068 | 0.143 | 0.011 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.07 |     |
| 3   | 0.6986           | 1140.4            | 1160.6            | 1157.4               | 0.952 | 3.330 | 73.845 | 19.312 | 2.299 | 0.074 | 0.162 | 0.012 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1385.32 |     |
| 4   | 0.6995           | 1142.8            | 1163.0            | 1159.8               | 0.943 | 3.281 | 73.591 | 19.678 | 2.265 | 0.069 | 0.146 | 0.012 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1387.33 |     |
| 5   | 0.6975           | 1139.9            | 1160.1            | 1157.0               | 0.937 | 3.283 | 73.791 | 19.605 | 2.188 | 0.060 | 0.120 | 0.008 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1385.85 |     |
| 6   | 0.7012           | 1146.6            | 1166.9            | 1163.8               | 0.935 | 3.226 | 72.987 | 20.549 | 2.101 | 0.058 | 0.122 | 0.010 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1390.27 |     |
| 7   | 0.6994           | 1142.5            | 1162.8            | 1159.8               | 0.962 | 3.267 | 73.371 | 20.071 | 2.132 | 0.059 | 0.121 | 0.008 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1387.10 |     |
| 8   | 0.6988           | 1141.0            | 1161.2            | 1158.2               | 0.977 | 3.275 | 73.473 | 19.972 | 2.116 | 0.068 | 0.113 | 0.002 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1385.91 |     |
| 9   | 0.6983           | 1140.1            | 1160.3            | 1157.4               | 0.981 | 3.278 | 73.559 | 19.882 | 2.118 | 0.072 | 0.110 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1385.34 |     |
| 10  | 0.6999           | 1142.4            | 1162.6            | 1159.5               | 0.992 | 3.276 | 73.587 | 19.643 | 2.226 | 0.077 | 0.169 | 0.014 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1386.33 |     |
| 11  | 0.6989           | 1140.7            | 1160.9            | 1158.0               | 0.995 | 3.275 | 73.621 | 19.727 | 2.141 | 0.069 | 0.150 | 0.011 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1385.46 |     |
| 12  | 0.6976           | 1138.8            | 1158.9            | 1155.9               | 0.976 | 3.305 | 73.857 | 19.475 | 2.155 | 0.067 | 0.143 | 0.010 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1384.27 |     |
| 13  | 0.6968           | 1135.8            | 1155.9            | 1152.8               | 1.025 | 3.335 | 74.224 | 18.911 | 2.236 | 0.075 | 0.167 | 0.013 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.45 |     |
| 14  | 0.6975           | 1136.6            | 1156.7            | 1153.7               | 1.038 | 3.331 | 74.088 | 19.069 | 2.192 | 0.076 | 0.174 | 0.015 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.75 |     |
| 15  | 0.6996           | 1140.5            | 1160.7            | 1157.6               | 1.002 | 3.336 | 73.928 | 19.008 | 2.409 | 0.086 | 0.194 | 0.016 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1384.46 |     |
| 16  | 0.6988           | 1139.1            | 1159.2            | 1156.0               | 1.004 | 3.348 | 74.144 | 18.771 | 2.399 | 0.088 | 0.204 | 0.018 | 0.024 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.39 |     |
| 17  | 0.6974           | 1136.5            | 1156.7            | 1153.5               | 1.007 | 3.363 | 74.307 | 18.678 | 2.325 | 0.085 | 0.197 | 0.017 | 0.021 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.81 |     |
| 18  | 0.6981           | 1138.4            | 1158.6            | 1155.4               | 0.991 | 3.341 | 74.168 | 18.844 | 2.338 | 0.084 | 0.194 | 0.017 | 0.022 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.33 |     |
| 19  | 0.6960           | 1135.7            | 1155.8            | 1152.7               | 0.973 | 3.337 | 74.501 | 18.563 | 2.335 | 0.081 | 0.178 | 0.014 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1382.17 |     |
| 20  | 0.6989           | 1140.0            | 1160.2            | 1157.0               | 0.984 | 3.336 | 74.077 | 18.869 | 2.405 | 0.088 | 0.200 | 0.018 | 0.023 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1384.39 |     |
| 21  | 0.6958           | 1134.2            | 1154.3            | 1151.2               | 1.000 | 3.371 | 74.553 | 18.462 | 2.317 | 0.081 | 0.183 | 0.014 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1380.51 |     |
| 22  | 0.6978           | 1137.6            | 1157.7            | 1154.6               | 1.005 | 3.339 | 74.261 | 18.719 | 2.358 | 0.085 | 0.197 | 0.016 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1382.69 |     |
| 23  | 0.7002           | 1140.9            | 1161.1            | 1157.9               | 1.005 | 3.372 | 73.956 | 18.834 | 2.474 | 0.093 | 0.222 | 0.019 | 0.024 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1384.18 |     |
| 24  | 0.6967           | 1135.7            | 1155.8            | 1152.7               | 0.991 | 3.383 | 74.402 | 18.585 | 2.326 | 0.083 | 0.193 | 0.016 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.37 |     |
| 25  | 0.6962           | 1134.7            | 1154.8            | 1151.8               | 0.985 | 3.399 | 74.383 | 18.679 | 2.262 | 0.080 | 0.180 | 0.014 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1380.79 |     |
| 26  | 0.6974           | 1136.1            | 1156.2            | 1153.1               | 1.001 | 3.408 | 74.144 | 18.910 | 2.238 | 0.080 | 0.184 | 0.015 | 0.019 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.21 |     |
| 27  | 0.6976           | 1137.9            | 1158.0            | 1154.9               | 0.969 | 3.359 | 74.314 | 18.632 | 2.396 | 0.089 | 0.201 | 0.017 | 0.021 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.23 |     |
| 28  | 0.6973           | 1136.9            | 1157.0            | 1153.9               | 0.991 | 3.363 | 74.359 | 18.584 | 2.382 | 0.086 | 0.195 | 0.017 | 0.022 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1382.24 |     |
| 29  | 0.6992           | 1139.5            | 1159.6            | 1156.4               | 1.000 | 3.366 | 74.120 | 18.722 | 2.451 | 0.091 | 0.208 | 0.018 | 0.024 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.48 |     |
| 30  | 0.7000           | 1140.9            | 1161.1            | 1157.9               | 1.004 | 3.355 | 73.785 | 19.194 | 2.340 | 0.085 | 0.199 | 0.017 | 0.021 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1384.42 |     |
| Avg | 0.6982           | 1139.0            | 1159.1            | 1156.0               | 0.984 | 3.331 | 73.983 | 19.142 | 2.282 | 0.077 | 0.170 | 0.013 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.91 |     |

# Source Daily Summary

November 2020

Number: 091

Pressure Base: 14.730

Contract Day: 1

Name: MNT BRD-PLRMO BRD-BIS STN

Temperature Base:

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   | 0.7367           | 1157.6            | 1178.1            | 1174.9               | 0.930 | 5.891 | 68.301 | 19.825 | 4.606 | 0.136 | 0.281 | 0.015 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.32 |
| 2   | 0.7366           | 1158.0            | 1178.5            | 1175.3               | 0.932 | 5.852 | 68.351 | 19.828 | 4.559 | 0.144 | 0.300 | 0.017 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.94 |
| 3   | 0.7416           | 1164.1            | 1184.7            | 1181.5               | 0.930 | 5.946 | 67.718 | 20.023 | 4.858 | 0.156 | 0.329 | 0.019 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1372.55 |
| 4   | 0.7435           | 1163.1            | 1183.7            | 1180.6               | 0.927 | 6.190 | 67.387 | 19.993 | 4.988 | 0.156 | 0.323 | 0.018 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.64 |
| 5   | 0.7454           | 1166.8            | 1187.5            | 1184.3               | 0.929 | 6.146 | 67.162 | 20.121 | 5.108 | 0.160 | 0.336 | 0.019 | 0.019 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1372.13 |
| 6   | 0.7404           | 1159.1            | 1179.6            | 1176.5               | 0.928 | 6.145 | 67.720 | 19.968 | 4.766 | 0.143 | 0.296 | 0.016 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1367.74 |
| 7   | 0.7352           | 1153.0            | 1173.4            | 1170.3               | 0.935 | 6.018 | 68.438 | 19.691 | 4.494 | 0.128 | 0.267 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1365.37 |
| 8   | 0.7391           | 1158.4            | 1179.0            | 1175.8               | 0.936 | 6.053 | 67.943 | 19.883 | 4.720 | 0.137 | 0.294 | 0.016 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1368.13 |
| 9   | 0.7344           | 1154.6            | 1175.1            | 1171.9               | 0.943 | 5.833 | 68.572 | 19.805 | 4.419 | 0.125 | 0.270 | 0.015 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1368.00 |
| 10  | 0.7331           | 1151.8            | 1172.1            | 1169.0               | 0.938 | 5.893 | 68.764 | 19.603 | 4.386 | 0.123 | 0.264 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1365.82 |
| 11  | 0.7386           | 1160.3            | 1180.8            | 1177.6               | 0.938 | 5.889 | 68.080 | 19.926 | 4.688 | 0.140 | 0.304 | 0.017 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1370.78 |
| 12  | 0.7351           | 1155.2            | 1175.7            | 1172.5               | 0.954 | 5.849 | 68.616 | 19.585 | 4.538 | 0.135 | 0.291 | 0.016 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1368.01 |
| 13  | 0.7379           | 1158.5            | 1179.1            | 1175.9               | 0.945 | 5.919 | 68.180 | 19.835 | 4.640 | 0.142 | 0.305 | 0.017 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.36 |
| 14  | 0.7398           | 1158.5            | 1179.0            | 1175.8               | 0.936 | 6.109 | 67.916 | 19.776 | 4.770 | 0.147 | 0.311 | 0.017 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1367.59 |
| 15  | 0.7382           | 1157.4            | 1177.9            | 1174.7               | 0.937 | 6.031 | 68.152 | 19.705 | 4.691 | 0.144 | 0.305 | 0.017 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1367.70 |
| 16  | 0.7385           | 1156.2            | 1176.7            | 1173.5               | 0.932 | 6.141 | 68.071 | 19.674 | 4.695 | 0.144 | 0.309 | 0.017 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1366.03 |
| 17  | 0.7350           | 1152.5            | 1172.9            | 1169.7               | 0.936 | 6.035 | 68.551 | 19.514 | 4.507 | 0.136 | 0.286 | 0.016 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1364.83 |
| 18  | 0.7383           | 1156.7            | 1177.2            | 1174.0               | 0.934 | 6.087 | 68.069 | 19.791 | 4.629 | 0.143 | 0.310 | 0.018 | 0.019 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1366.78 |
| 19  | 0.7350           | 1151.3            | 1171.7            | 1168.5               | 0.934 | 6.106 | 68.489 | 19.551 | 4.476 | 0.133 | 0.278 | 0.015 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1363.48 |
| 20  | 0.7353           | 1154.0            | 1174.5            | 1171.3               | 0.940 | 5.955 | 68.545 | 19.572 | 4.531 | 0.139 | 0.286 | 0.015 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1366.47 |
| 21  | 0.7378           | 1157.5            | 1178.0            | 1174.8               | 0.943 | 5.972 | 68.199 | 19.763 | 4.645 | 0.144 | 0.300 | 0.017 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1368.26 |
| 22  | 0.7374           | 1157.0            | 1177.5            | 1174.3               | 0.943 | 5.968 | 68.271 | 19.706 | 4.632 | 0.144 | 0.301 | 0.017 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1368.00 |
| 23  | 0.7386           | 1159.5            | 1180.0            | 1176.9               | 0.945 | 5.926 | 68.129 | 19.804 | 4.703 | 0.148 | 0.311 | 0.017 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.85 |
| 24  | 0.7383           | 1159.4            | 1179.9            | 1176.7               | 0.939 | 5.914 | 68.168 | 19.803 | 4.680 | 0.148 | 0.312 | 0.018 | 0.019 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.97 |
| 25  | 0.7382           | 1158.0            | 1178.5            | 1175.4               | 0.938 | 5.993 | 68.120 | 19.814 | 4.648 | 0.147 | 0.306 | 0.017 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1368.42 |
| 26  | 0.7354           | 1152.7            | 1173.2            | 1170.1               | 0.933 | 6.058 | 68.502 | 19.515 | 4.530 | 0.139 | 0.289 | 0.016 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1364.81 |
| 27  | 0.7382           | 1158.9            | 1179.5            | 1176.3               | 0.938 | 5.934 | 68.171 | 19.776 | 4.694 | 0.146 | 0.306 | 0.017 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.54 |
| 28  | 0.7374           | 1155.2            | 1175.6            | 1172.5               | 0.941 | 6.080 | 68.244 | 19.625 | 4.634 | 0.143 | 0.299 | 0.017 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1365.89 |
| 29  | 0.7345           | 1151.3            | 1171.7            | 1168.6               | 0.938 | 6.053 | 68.595 | 19.507 | 4.453 | 0.140 | 0.282 | 0.015 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1363.96 |
| 30  | 0.7369           | 1155.4            | 1175.8            | 1172.7               | 0.945 | 6.023 | 68.373 | 19.541 | 4.625 | 0.149 | 0.309 | 0.017 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1366.49 |
| Avg | 0.7377           | 1157.0            | 1177.6            | 1174.4               | 0.937 | 6.000 | 68.193 | 19.751 | 4.644 | 0.142 | 0.299 | 0.017 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1367.83 |

# Gas Composition and Properties

Effective November 1, 2020

Attachment B  
Page 8 of 24

Source #: 2501030  
Name: LIGNITE PLANT

| Component             | Mole %          | Liquid Content | Mass %          |
|-----------------------|-----------------|----------------|-----------------|
| Carbon Dioxide, CO2   | 0.2531          |                | 0.5779          |
| Nitrogen, N2          | 2.8418          |                | 4.1300          |
| Methane, C1           | 78.4933         |                | 65.3275         |
| Ethane, C2            | 16.7241         | 4.4739         | 26.0888         |
| Propane, C3           | 1.6672          | 0.4594         | 3.8139          |
| iso-Butane, iC4       | 0.0167          | 0.0055         | 0.0504          |
| n-Butane, nC4         | 0.0038          | 0.0012         | 0.0115          |
| iso-Pentane, iC5      |                 |                |                 |
| n-Pentane, nC5        |                 |                |                 |
| Neo-Pentane, NeoC5    |                 |                |                 |
| Hexanes Plus, C6+     |                 |                |                 |
| Water, H2O            |                 |                |                 |
| Hydrogen Sulfide, H2S |                 |                |                 |
| Oxygen, O2            |                 |                |                 |
| Carbon Monoxide, CO   |                 |                |                 |
| Hydrogen, H2          |                 |                |                 |
| Helium, He            |                 |                |                 |
| Argon, Ar             |                 |                |                 |
| <b>Totals</b>         | <b>100.0000</b> | <b>4.9390</b>  | <b>100.0000</b> |

| Property               | Total Sample | C6 Plus Fraction |
|------------------------|--------------|------------------|
| Pressure Base          | 14.730       |                  |
| Temperature Base       | 60.00        |                  |
| HCDP @ Sample Pressure | -49.995      |                  |
| Cricondentherm         | -32.802      |                  |
| HV, Dry @ Base P, T    | 1137.20      |                  |
| HV, Sat @ Base P, T    | 1117.41      |                  |
| HV, Sat @ Sample P, T  | 1137.20      |                  |
| Relative Density       | 0.6672       |                  |
| C6+: 100               |              |                  |

| Sample              |              |        |
|---------------------|--------------|--------|
| Date: 11/01/2020    | Pressure:    | 400.0  |
| Type:               | Temperature: |        |
| Tech: Joshua Tipton | H2O:         | lbs/mm |
|                     | H2S:         | ppm    |
| Remarks:            |              |        |

| Analysis            |             |     |
|---------------------|-------------|-----|
| Date: 11/01/2020    | Instrument: |     |
|                     | Cylinder:   | 312 |
| Tech: Joshua Tipton |             |     |
| Remarks:            |             |     |

# Gas Composition and Properties

Effective November 1, 2020

Attachment B  
Page 9 of 24

Source #: 3002013  
Name: EPPING BORDER

| Component             | Mole %          | Liquid Content | Mass %          |
|-----------------------|-----------------|----------------|-----------------|
| Carbon Dioxide, CO2   | 0.9804          |                | 2.1569          |
| Nitrogen, N2          | 2.5914          |                | 3.6289          |
| Methane, C1           | 75.0982         |                | 60.2257         |
| Ethane, C2            | 18.9553         | 5.0719         | 28.4924         |
| Propane, C3           | 2.0416          | 0.5627         | 4.5003          |
| iso-Butane, iC4       | 0.0897          | 0.0294         | 0.2606          |
| n-Butane, nC4         | 0.2063          | 0.0651         | 0.5994          |
| iso-Pentane, iC5      | 0.0160          | 0.0059         | 0.0577          |
| n-Pentane, nC5        | 0.0182          | 0.0066         | 0.0656          |
| Neo-Pentane, NeoC5    |                 |                |                 |
| Hexanes Plus, C6+     | 0.0029          | 0.0012         | 0.0125          |
| Water, H2O            |                 |                |                 |
| Hydrogen Sulfide, H2S |                 |                |                 |
| Oxygen, O2            |                 |                |                 |
| Carbon Monoxide, CO   |                 |                |                 |
| Hydrogen, H2          |                 |                |                 |
| Helium, He            |                 |                |                 |
| Argon, Ar             |                 |                |                 |
| <b>Totals</b>         | <b>100.0000</b> | <b>5.7430</b>  | <b>100.0000</b> |

| Property               | Total Sample | C6 Plus Fraction |
|------------------------|--------------|------------------|
| Pressure Base          | 14.730       |                  |
| Temperature Base       | 60.00        |                  |
| HCDP @ Sample Pressure | -19.605      |                  |
| Cricondenthem          | -13.922      |                  |
| HV, Dry @ Base P, T    | 1162.69      |                  |
| HV, Sat @ Base P, T    | 1142.45      |                  |
| HV, Sat @ Sample P, T  | 1162.69      |                  |
| Relative Density       | 0.6925       |                  |
| C6+: 100               |              |                  |

| Sample   |               |              |        |
|----------|---------------|--------------|--------|
| Date:    | 11/01/2020    | Pressure:    | 550.0  |
| Type:    |               | Temperature: |        |
| Tech:    | Joshua Tipton | H2O:         | lbs/mm |
|          |               | H2S:         | ppm    |
| Remarks: |               |              |        |

| Analysis |               |             |     |
|----------|---------------|-------------|-----|
| Date:    | 11/01/2020    | Instrument: |     |
|          |               | Cylinder:   | 395 |
| Tech:    | Joshua Tipton |             |     |
| Remarks: |               |             |     |

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

# Source Daily Summary

November 2020

Number: 603

Pressure Base: 14.730

Contract Day: 1

Name: TIOGA STN-COUNTY LINE PLANT

Temperature Base:

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   | 0.6970           | 1137.2            | 1157.3            | 1154.2               | 0.964 | 3.357 | 74.113 | 19.032 | 2.301 | 0.068 | 0.141 | 0.010 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1382.99 |     |
| 2   | 0.6983           | 1139.7            | 1159.9            | 1156.7               | 0.958 | 3.335 | 73.884 | 19.284 | 2.279 | 0.073 | 0.160 | 0.012 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1384.77 |     |
| 3   | 0.6997           | 1142.7            | 1162.9            | 1159.7               | 0.950 | 3.296 | 73.635 | 19.557 | 2.300 | 0.073 | 0.160 | 0.013 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1386.99 |     |
| 4   | 0.6980           | 1141.0            | 1161.2            | 1158.1               | 0.933 | 3.272 | 73.701 | 19.696 | 2.200 | 0.061 | 0.121 | 0.008 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1386.62 |     |
| 5   | 0.6999           | 1143.8            | 1164.1            | 1160.9               | 0.944 | 3.258 | 73.302 | 20.161 | 2.127 | 0.060 | 0.126 | 0.010 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1388.17 |     |
| 6   | 0.7005           | 1144.9            | 1165.2            | 1162.1               | 0.954 | 3.233 | 73.120 | 20.398 | 2.105 | 0.058 | 0.117 | 0.008 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1388.96 |     |
| 7   | 0.6996           | 1142.2            | 1162.4            | 1159.3               | 0.973 | 3.287 | 73.411 | 19.962 | 2.155 | 0.062 | 0.130 | 0.009 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1386.50 |     |
| 8   | 0.6998           | 1142.3            | 1162.5            | 1159.3               | 1.005 | 3.254 | 73.459 | 19.856 | 2.202 | 0.072 | 0.148 | 0.002 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1386.38 |     |
| 9   | 0.7002           | 1142.8            | 1163.1            | 1159.9               | 1.014 | 3.242 | 73.426 | 19.862 | 2.224 | 0.076 | 0.156 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1386.65 |     |
| 10  | 0.6997           | 1142.4            | 1162.6            | 1159.4               | 0.995 | 3.248 | 73.433 | 19.969 | 2.121 | 0.068 | 0.147 | 0.009 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1386.66 |     |
| 11  | 0.6983           | 1139.4            | 1159.5            | 1156.4               | 0.983 | 3.319 | 73.820 | 19.425 | 2.198 | 0.071 | 0.157 | 0.012 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1384.36 |     |
| 12  | 0.6964           | 1136.6            | 1156.7            | 1153.5               | 0.987 | 3.307 | 74.193 | 19.063 | 2.203 | 0.070 | 0.152 | 0.011 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1382.81 |     |
| 13  | 0.6967           | 1134.2            | 1154.3            | 1151.2               | 1.062 | 3.356 | 74.300 | 18.795 | 2.203 | 0.077 | 0.176 | 0.014 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1379.74 |     |
| 14  | 0.6991           | 1140.0            | 1160.2            | 1157.0               | 0.999 | 3.332 | 73.899 | 19.138 | 2.330 | 0.082 | 0.185 | 0.015 | 0.019 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1384.28 |     |
| 15  | 0.6996           | 1140.1            | 1160.3            | 1157.0               | 1.011 | 3.346 | 74.027 | 18.853 | 2.420 | 0.090 | 0.209 | 0.019 | 0.025 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.92 |     |
| 16  | 0.6970           | 1136.0            | 1156.1            | 1152.9               | 1.009 | 3.361 | 74.353 | 18.643 | 2.324 | 0.084 | 0.191 | 0.016 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.51 |     |
| 17  | 0.6985           | 1138.8            | 1159.0            | 1155.6               | 0.994 | 3.351 | 74.091 | 18.919 | 2.317 | 0.085 | 0.200 | 0.018 | 0.024 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.37 |     |
| 18  | 0.6963           | 1136.4            | 1156.5            | 1153.3               | 0.974 | 3.331 | 74.473 | 18.555 | 2.371 | 0.083 | 0.182 | 0.014 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1382.61 |     |
| 19  | 0.6981           | 1138.5            | 1158.7            | 1155.4               | 0.991 | 3.339 | 74.218 | 18.744 | 2.383 | 0.087 | 0.199 | 0.018 | 0.022 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.42 |     |
| 20  | 0.6971           | 1136.7            | 1156.8            | 1153.7               | 0.993 | 3.355 | 74.305 | 18.708 | 2.338 | 0.082 | 0.185 | 0.015 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1382.23 |     |
| 21  | 0.6958           | 1134.5            | 1154.6            | 1151.4               | 1.004 | 3.350 | 74.576 | 18.449 | 2.316 | 0.083 | 0.188 | 0.016 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1380.84 |     |
| 22  | 0.7007           | 1141.7            | 1161.9            | 1158.6               | 1.005 | 3.366 | 73.836 | 18.976 | 2.465 | 0.093 | 0.218 | 0.018 | 0.023 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1384.71 |     |
| 23  | 0.6977           | 1137.0            | 1157.1            | 1153.8               | 0.998 | 3.381 | 74.317 | 18.596 | 2.376 | 0.087 | 0.205 | 0.018 | 0.022 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.98 |     |
| 24  | 0.6959           | 1134.2            | 1154.3            | 1151.1               | 0.988 | 3.401 | 74.465 | 18.571 | 2.280 | 0.080 | 0.183 | 0.014 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1380.40 |     |
| 25  | 0.6976           | 1136.0            | 1156.1            | 1152.9               | 1.011 | 3.415 | 74.126 | 18.909 | 2.240 | 0.080 | 0.184 | 0.015 | 0.019 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1380.89 |     |
| 26  | 0.6971           | 1136.9            | 1157.0            | 1153.9               | 0.969 | 3.371 | 74.312 | 18.706 | 2.330 | 0.086 | 0.192 | 0.016 | 0.019 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1382.58 |     |
| 27  | 0.6975           | 1137.3            | 1157.4            | 1154.2               | 0.986 | 3.365 | 74.365 | 18.548 | 2.405 | 0.089 | 0.201 | 0.018 | 0.023 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1382.50 |     |
| 28  | 0.6976           | 1137.3            | 1157.5            | 1154.3               | 0.991 | 3.364 | 74.295 | 18.642 | 2.390 | 0.087 | 0.195 | 0.016 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1382.54 |     |
| 29  | 0.7008           | 1141.5            | 1161.7            | 1158.4               | 1.019 | 3.364 | 73.872 | 18.918 | 2.467 | 0.094 | 0.220 | 0.020 | 0.026 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1384.36 |     |
| 30  | 0.6992           | 1139.4            | 1159.6            | 1156.5               | 1.004 | 3.368 | 73.831 | 19.221 | 2.270 | 0.082 | 0.191 | 0.015 | 0.019 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.51 |     |
| Avg | 0.6983           | 1139.0            | 1159.2            | 1156.0               | 0.989 | 3.331 | 73.972 | 19.138 | 2.288 | 0.078 | 0.174 | 0.013 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.91 |     |

# Source Daily Summary

November 2020

Number: 043

Pressure Base: 14.730

Contract Day: 1

Name: BISMARCK STN-CLEVELAND STN

Temperature Base:

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   | 0.7300           | 1154.9            | 1175.3            | 1171.7               | 0.872 | 5.520 | 69.289 | 19.613 | 4.290 | 0.127 | 0.263 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1372.32 |     |
| 2   | 0.7316           | 1155.6            | 1176.0            | 1172.4               | 0.883 | 5.610 | 69.089 | 19.621 | 4.348 | 0.137 | 0.282 | 0.015 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1371.64 |     |
| 3   | 0.7403           | 1164.3            | 1184.9            | 1181.1               | 0.908 | 5.853 | 67.920 | 19.994 | 4.802 | 0.157 | 0.328 | 0.019 | 0.019 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1373.84 |     |
| 4   | 0.7436           | 1165.9            | 1186.5            | 1182.6               | 0.910 | 6.058 | 67.431 | 20.075 | 4.995 | 0.160 | 0.335 | 0.018 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1372.69 |     |
| 5   | 0.7451           | 1168.2            | 1188.9            | 1185.1               | 0.909 | 6.055 | 67.244 | 20.156 | 5.093 | 0.163 | 0.343 | 0.019 | 0.019 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1374.09 |     |
| 6   | 0.7374           | 1159.2            | 1179.7            | 1176.0               | 0.869 | 5.953 | 68.211 | 19.825 | 4.672 | 0.143 | 0.296 | 0.016 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1370.50 |     |
| 7   | 0.7280           | 1150.0            | 1170.3            | 1166.7               | 0.845 | 5.670 | 69.433 | 19.533 | 4.135 | 0.117 | 0.243 | 0.012 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1368.40 |     |
| 8   | 0.7311           | 1153.3            | 1173.7            | 1170.1               | 0.910 | 5.660 | 69.130 | 19.550 | 4.329 | 0.125 | 0.268 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.42 |     |
| 9   | 0.7215           | 1146.5            | 1166.8            | 1163.2               | 0.912 | 5.169 | 70.491 | 19.300 | 3.770 | 0.106 | 0.227 | 0.012 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1370.39 |     |
| 10  | 0.7177           | 1142.5            | 1162.7            | 1159.2               | 0.851 | 5.155 | 70.952 | 19.123 | 3.593 | 0.098 | 0.208 | 0.010 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.18 |     |
| 11  | 0.7209           | 1146.9            | 1167.2            | 1163.7               | 0.759 | 5.316 | 70.619 | 19.027 | 3.894 | 0.114 | 0.244 | 0.013 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1371.49 |     |
| 12  | 0.7190           | 1145.5            | 1165.8            | 1162.2               | 0.801 | 5.168 | 70.894 | 19.007 | 3.760 | 0.111 | 0.234 | 0.012 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1371.55 |     |
| 13  | 0.7189           | 1144.0            | 1164.2            | 1160.6               | 0.849 | 5.171 | 71.032 | 18.783 | 3.781 | 0.115 | 0.243 | 0.013 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.88 |     |
| 14  | 0.7242           | 1148.3            | 1168.7            | 1165.1               | 0.852 | 5.400 | 70.239 | 19.046 | 4.047 | 0.125 | 0.263 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1370.03 |     |
| 15  | 0.7227           | 1146.9            | 1167.3            | 1163.6               | 0.858 | 5.335 | 70.464 | 18.976 | 3.957 | 0.123 | 0.258 | 0.014 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.78 |     |
| 16  | 0.7249           | 1148.2            | 1168.6            | 1164.9               | 0.851 | 5.471 | 70.097 | 19.113 | 4.050 | 0.125 | 0.264 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.27 |     |
| 17  | 0.7319           | 1151.8            | 1172.2            | 1168.4               | 0.904 | 5.831 | 69.067 | 19.364 | 4.382 | 0.135 | 0.285 | 0.016 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1366.90 |     |
| 18  | 0.7359           | 1156.2            | 1176.7            | 1172.8               | 0.908 | 5.931 | 68.501 | 19.610 | 4.563 | 0.144 | 0.308 | 0.017 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1368.36 |     |
| 19  | 0.7302           | 1149.2            | 1169.5            | 1165.8               | 0.883 | 5.865 | 69.168 | 19.432 | 4.232 | 0.126 | 0.266 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1365.37 |     |
| 20  | 0.7254           | 1147.1            | 1167.4            | 1163.8               | 0.864 | 5.567 | 69.962 | 19.150 | 4.054 | 0.123 | 0.253 | 0.013 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1367.46 |     |
| 21  | 0.7282           | 1151.6            | 1171.9            | 1168.2               | 0.884 | 5.530 | 69.626 | 19.325 | 4.200 | 0.131 | 0.272 | 0.015 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1370.07 |     |
| 22  | 0.7290           | 1151.1            | 1171.5            | 1167.7               | 0.880 | 5.643 | 69.502 | 19.283 | 4.253 | 0.133 | 0.276 | 0.015 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1368.73 |     |
| 23  | 0.7303           | 1154.1            | 1174.5            | 1170.8               | 0.874 | 5.590 | 69.322 | 19.454 | 4.311 | 0.135 | 0.283 | 0.016 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1371.08 |     |
| 24  | 0.7378           | 1160.2            | 1180.8            | 1177.0               | 0.918 | 5.853 | 68.244 | 19.815 | 4.672 | 0.149 | 0.314 | 0.017 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1371.36 |     |
| 25  | 0.7374           | 1159.5            | 1180.1            | 1176.2               | 0.922 | 5.851 | 68.297 | 19.799 | 4.637 | 0.148 | 0.312 | 0.017 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1370.92 |     |
| 26  | 0.7361           | 1155.6            | 1176.1            | 1172.1               | 0.914 | 5.979 | 68.411 | 19.661 | 4.565 | 0.142 | 0.296 | 0.016 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1367.50 |     |
| 27  | 0.7358           | 1156.9            | 1177.4            | 1173.4               | 0.921 | 5.860 | 68.513 | 19.660 | 4.570 | 0.142 | 0.300 | 0.016 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.33 |     |
| 28  | 0.7372           | 1157.9            | 1178.4            | 1174.6               | 0.915 | 5.939 | 68.294 | 19.728 | 4.642 | 0.145 | 0.304 | 0.016 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.22 |     |
| 29  | 0.7309           | 1150.9            | 1171.3            | 1167.5               | 0.897 | 5.802 | 69.159 | 19.413 | 4.287 | 0.135 | 0.277 | 0.015 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1366.79 |     |
| 30  | 0.7339           | 1153.5            | 1173.9            | 1170.1               | 0.917 | 5.898 | 68.826 | 19.389 | 4.481 | 0.150 | 0.306 | 0.016 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1367.02 |     |
| Avg | 0.7306           | 1153.0            | 1173.6            | 1169.9               | 0.881 | 5.657 | 69.248 | 19.461 | 4.312 | 0.133 | 0.278 | 0.015 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.82 |     |

# Source Daily Summary

November 2020

Number: 063

Pressure Base: 14.730

Contract Day: 1

Name: CLEVELAND STN-MAPLETON

Temperature Base:

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   | 0.7329           | 1158.1            | 1178.6            | 1174.6               | 0.861 | 5.601 | 68.870 | 19.822 | 4.412 | 0.133 | 0.272 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1373.46 |
| 2   | 0.7301           | 1154.3            | 1174.7            | 1170.8               | 0.878 | 5.554 | 69.268 | 19.609 | 4.279 | 0.126 | 0.257 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1371.46 |
| 3   | 0.7314           | 1155.0            | 1175.4            | 1171.6               | 0.890 | 5.610 | 69.095 | 19.666 | 4.299 | 0.134 | 0.274 | 0.015 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1371.13 |
| 4   | 0.7396           | 1164.0            | 1184.6            | 1180.6               | 0.917 | 5.792 | 68.004 | 20.050 | 4.719 | 0.154 | 0.323 | 0.020 | 0.021 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1374.08 |
| 5   | 0.7436           | 1165.7            | 1186.3            | 1182.3               | 0.919 | 6.058 | 67.432 | 20.080 | 4.981 | 0.160 | 0.331 | 0.019 | 0.019 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1372.39 |
| 6   | 0.7452           | 1167.7            | 1188.4            | 1184.4               | 0.917 | 6.089 | 67.227 | 20.134 | 5.094 | 0.162 | 0.338 | 0.019 | 0.019 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1373.26 |
| 7   | 0.7370           | 1158.5            | 1179.0            | 1175.1               | 0.871 | 5.949 | 68.245 | 19.857 | 4.621 | 0.140 | 0.287 | 0.015 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1370.04 |
| 8   | 0.7283           | 1150.0            | 1170.3            | 1166.5               | 0.854 | 5.682 | 69.391 | 19.554 | 4.136 | 0.117 | 0.241 | 0.013 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1368.10 |
| 9   | 0.7310           | 1153.2            | 1173.6            | 1169.7               | 0.919 | 5.641 | 69.159 | 19.553 | 4.310 | 0.125 | 0.264 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.35 |
| 10  | 0.7208           | 1145.3            | 1165.6            | 1161.7               | 0.915 | 5.166 | 70.596 | 19.246 | 3.728 | 0.104 | 0.220 | 0.012 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.64 |
| 11  | 0.7185           | 1142.9            | 1163.1            | 1159.4               | 0.843 | 5.214 | 70.816 | 19.186 | 3.614 | 0.099 | 0.207 | 0.011 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1368.88 |
| 12  | 0.7206           | 1146.3            | 1166.6            | 1162.9               | 0.769 | 5.311 | 70.694 | 18.954 | 3.890 | 0.114 | 0.242 | 0.013 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1371.01 |
| 13  | 0.7188           | 1144.4            | 1164.6            | 1160.8               | 0.809 | 5.198 | 70.958 | 18.913 | 3.756 | 0.110 | 0.231 | 0.013 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1370.39 |
| 14  | 0.7196           | 1144.6            | 1164.8            | 1161.0               | 0.855 | 5.196 | 70.926 | 18.827 | 3.810 | 0.116 | 0.243 | 0.013 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.80 |
| 15  | 0.7242           | 1147.6            | 1167.9            | 1164.1               | 0.859 | 5.431 | 70.254 | 18.998 | 4.046 | 0.124 | 0.259 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.11 |
| 16  | 0.7228           | 1146.3            | 1166.6            | 1162.8               | 0.864 | 5.372 | 70.472 | 18.918 | 3.967 | 0.122 | 0.255 | 0.014 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1368.84 |
| 17  | 0.7256           | 1148.0            | 1168.4            | 1164.7               | 0.863 | 5.535 | 70.024 | 19.051 | 4.106 | 0.127 | 0.265 | 0.015 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1368.28 |
| 18  | 0.7323           | 1151.7            | 1172.1            | 1168.2               | 0.912 | 5.862 | 68.998 | 19.395 | 4.387 | 0.134 | 0.281 | 0.016 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1366.37 |
| 19  | 0.7357           | 1155.6            | 1176.0            | 1172.2               | 0.919 | 5.936 | 68.490 | 19.666 | 4.507 | 0.141 | 0.304 | 0.018 | 0.019 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1367.75 |
| 20  | 0.7298           | 1148.8            | 1169.2            | 1165.3               | 0.883 | 5.853 | 69.223 | 19.419 | 4.209 | 0.125 | 0.260 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1365.24 |
| 21  | 0.7255           | 1146.9            | 1167.2            | 1163.3               | 0.873 | 5.582 | 69.956 | 19.130 | 4.058 | 0.123 | 0.251 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1366.96 |
| 22  | 0.7290           | 1151.8            | 1172.2            | 1168.3               | 0.893 | 5.575 | 69.513 | 19.360 | 4.228 | 0.131 | 0.271 | 0.015 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.58 |
| 23  | 0.7292           | 1151.0            | 1171.4            | 1167.4               | 0.883 | 5.661 | 69.462 | 19.311 | 4.247 | 0.132 | 0.272 | 0.016 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1368.41 |
| 24  | 0.7319           | 1155.1            | 1175.6            | 1172.4               | 0.890 | 5.652 | 69.091 | 19.536 | 4.378 | 0.137 | 0.285 | 0.016 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1370.79 |
| 25  | 0.7386           | 1160.8            | 1181.3            | 1178.1               | 0.925 | 5.881 | 68.152 | 19.831 | 4.710 | 0.151 | 0.315 | 0.017 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1371.21 |
| 26  | 0.7374           | 1158.4            | 1178.9            | 1175.8               | 0.929 | 5.905 | 68.272 | 19.795 | 4.614 | 0.146 | 0.305 | 0.017 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.58 |
| 27  | 0.7360           | 1154.7            | 1175.1            | 1171.9               | 0.921 | 6.016 | 68.428 | 19.612 | 4.558 | 0.141 | 0.291 | 0.016 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1366.44 |
| 28  | 0.7364           | 1157.1            | 1177.6            | 1174.4               | 0.928 | 5.892 | 68.441 | 19.669 | 4.594 | 0.143 | 0.298 | 0.017 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1368.92 |
| 29  | 0.7364           | 1156.6            | 1177.1            | 1173.9               | 0.916 | 5.943 | 68.416 | 19.653 | 4.598 | 0.144 | 0.298 | 0.016 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1368.36 |
| 30  | 0.7309           | 1150.1            | 1170.5            | 1167.3               | 0.903 | 5.841 | 69.154 | 19.386 | 4.281 | 0.134 | 0.272 | 0.015 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1365.79 |
| Avg | 0.7306           | 1153.0            | 1173.4            | 1169.7               | 0.886 | 5.667 | 69.234 | 19.473 | 4.305 | 0.132 | 0.274 | 0.015 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.49 |

# Source Daily Summary

November 2020

Number: 061

Pressure Base: 14.730

Contract Day: 1

Name: CLEVELAND STN-GRAFTON BDR

Temperature Base:

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   | 0.7328           | 1157.9            | 1178.4            | 1175.1               | 0.862 | 5.607 | 68.883 | 19.806 | 4.407 | 0.133 | 0.272 | 0.015 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1373.23 |
| 2   | 0.7301           | 1154.0            | 1174.5            | 1171.2               | 0.879 | 5.564 | 69.276 | 19.588 | 4.281 | 0.126 | 0.258 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1371.22 |
| 3   | 0.7310           | 1153.2            | 1173.6            | 1170.4               | 0.889 | 5.688 | 69.121 | 19.585 | 4.289 | 0.132 | 0.267 | 0.015 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.34 |
| 4   | 0.7389           | 1162.6            | 1183.2            | 1179.9               | 0.918 | 5.808 | 68.093 | 19.989 | 4.683 | 0.152 | 0.318 | 0.019 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1373.12 |
| 5   | 0.7422           | 1163.9            | 1184.5            | 1181.1               | 0.920 | 6.041 | 67.610 | 20.015 | 4.893 | 0.157 | 0.326 | 0.019 | 0.019 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1371.50 |
| 6   | 0.7447           | 1166.6            | 1187.3            | 1184.0               | 0.918 | 6.104 | 67.297 | 20.081 | 5.067 | 0.161 | 0.335 | 0.019 | 0.019 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1372.49 |
| 7   | 0.7364           | 1157.6            | 1178.1            | 1174.8               | 0.871 | 5.956 | 68.311 | 19.817 | 4.592 | 0.139 | 0.284 | 0.015 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.46 |
| 8   | 0.7279           | 1149.2            | 1169.5            | 1166.4               | 0.855 | 5.693 | 69.444 | 19.509 | 4.120 | 0.116 | 0.239 | 0.012 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1367.51 |
| 9   | 0.7306           | 1152.6            | 1173.0            | 1169.8               | 0.919 | 5.641 | 69.218 | 19.516 | 4.290 | 0.124 | 0.263 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1368.99 |
| 10  | 0.7206           | 1144.8            | 1165.1            | 1161.9               | 0.916 | 5.175 | 70.632 | 19.211 | 3.718 | 0.104 | 0.220 | 0.012 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.25 |
| 11  | 0.7183           | 1142.5            | 1162.7            | 1159.5               | 0.842 | 5.221 | 70.847 | 19.159 | 3.605 | 0.098 | 0.206 | 0.011 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1368.57 |
| 12  | 0.7205           | 1146.1            | 1166.4            | 1163.2               | 0.768 | 5.319 | 70.708 | 18.931 | 3.890 | 0.114 | 0.243 | 0.013 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1370.79 |
| 13  | 0.7187           | 1144.0            | 1164.3            | 1161.1               | 0.809 | 5.206 | 70.980 | 18.887 | 3.751 | 0.110 | 0.231 | 0.013 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1370.10 |
| 14  | 0.7196           | 1144.3            | 1164.5            | 1161.4               | 0.855 | 5.205 | 70.939 | 18.807 | 3.807 | 0.116 | 0.243 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.54 |
| 15  | 0.7239           | 1147.0            | 1167.3            | 1164.1               | 0.859 | 5.439 | 70.298 | 18.962 | 4.032 | 0.124 | 0.258 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1368.70 |
| 16  | 0.7226           | 1145.9            | 1166.2            | 1162.9               | 0.865 | 5.377 | 70.501 | 18.891 | 3.959 | 0.122 | 0.255 | 0.015 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1368.56 |
| 17  | 0.7252           | 1147.5            | 1167.8            | 1164.5               | 0.860 | 5.525 | 70.098 | 19.010 | 4.087 | 0.127 | 0.264 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1368.11 |
| 18  | 0.7326           | 1152.0            | 1172.4            | 1169.1               | 0.914 | 5.869 | 68.960 | 19.407 | 4.401 | 0.135 | 0.282 | 0.016 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1366.44 |
| 19  | 0.7352           | 1154.9            | 1175.4            | 1172.1               | 0.919 | 5.928 | 68.567 | 19.617 | 4.491 | 0.140 | 0.301 | 0.018 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1367.46 |
| 20  | 0.7300           | 1148.7            | 1169.0            | 1165.8               | 0.885 | 5.870 | 69.204 | 19.411 | 4.214 | 0.125 | 0.261 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1364.95 |
| 21  | 0.7254           | 1146.5            | 1166.8            | 1163.5               | 0.873 | 5.595 | 69.975 | 19.104 | 4.053 | 0.123 | 0.251 | 0.014 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1366.61 |
| 22  | 0.7288           | 1151.5            | 1171.9            | 1168.6               | 0.893 | 5.574 | 69.539 | 19.343 | 4.219 | 0.131 | 0.271 | 0.015 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.42 |
| 23  | 0.7293           | 1150.8            | 1171.2            | 1167.9               | 0.885 | 5.674 | 69.456 | 19.296 | 4.254 | 0.132 | 0.273 | 0.015 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1368.15 |
| 24  | 0.7304           | 1153.6            | 1174.0            | 1170.8               | 0.883 | 5.614 | 69.305 | 19.454 | 4.299 | 0.134 | 0.279 | 0.016 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1370.36 |
| 25  | 0.7382           | 1159.8            | 1180.3            | 1177.1               | 0.927 | 5.899 | 68.195 | 19.804 | 4.681 | 0.149 | 0.310 | 0.017 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1370.44 |
| 26  | 0.7384           | 1160.4            | 1180.9            | 1177.7               | 0.930 | 5.875 | 68.162 | 19.862 | 4.672 | 0.149 | 0.313 | 0.018 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1370.98 |
| 27  | 0.7365           | 1155.3            | 1175.8            | 1172.6               | 0.922 | 6.022 | 68.359 | 19.647 | 4.580 | 0.143 | 0.295 | 0.016 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1366.73 |
| 28  | 0.7356           | 1155.6            | 1176.1            | 1172.9               | 0.929 | 5.910 | 68.535 | 19.607 | 4.551 | 0.141 | 0.294 | 0.017 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1367.89 |
| 29  | 0.7375           | 1157.6            | 1178.1            | 1175.0               | 0.923 | 5.971 | 68.266 | 19.708 | 4.653 | 0.145 | 0.302 | 0.017 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1368.56 |
| 30  | 0.7311           | 1150.5            | 1170.9            | 1167.7               | 0.904 | 5.835 | 69.134 | 19.393 | 4.293 | 0.135 | 0.275 | 0.015 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1366.07 |
| Avg | 0.7304           | 1153.0            | 1173.0            | 1169.8               | 0.886 | 5.674 | 69.264 | 19.447 | 4.294 | 0.131 | 0.273 | 0.015 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.15 |

# Source Daily Summary

November 2020

Number: 041

Pressure Base: 14.730

Contract Day: 1

Name: BISMARCK STN-GLEN ULLIN STN

Temperature Base:

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   | 0.6740           | 1116.7            | 1136.4            | 1133.2               | 0.487 | 3.178 | 77.247 | 17.522 | 1.473 | 0.033 | 0.056 | 0.003 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.01 |
| 2   | 0.6746           | 1115.9            | 1135.7            | 1132.4               | 0.379 | 3.441 | 77.131 | 17.345 | 1.600 | 0.037 | 0.061 | 0.003 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1379.47 |
| 3   | 0.6928           | 1125.8            | 1145.8            | 1142.5               | 0.524 | 4.328 | 74.583 | 17.804 | 2.540 | 0.072 | 0.136 | 0.007 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1373.73 |
| 4   | 0.7207           | 1145.9            | 1166.2            | 1162.8               | 0.751 | 5.370 | 70.715 | 18.827 | 3.944 | 0.121 | 0.245 | 0.013 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1370.80 |
| 5   | 0.7207           | 1149.3            | 1169.6            | 1166.2               | 0.727 | 5.212 | 70.511 | 19.375 | 3.806 | 0.114 | 0.231 | 0.012 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1374.73 |
| 6   | 0.6692           | 1107.5            | 1127.2            | 1124.0               | 0.151 | 3.791 | 77.745 | 16.773 | 1.476 | 0.025 | 0.037 | 0.002 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1374.67 |
| 7   | 0.6801           | 1124.2            | 1144.1            | 1140.9               | 0.316 | 3.556 | 75.957 | 18.422 | 1.646 | 0.036 | 0.061 | 0.003 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1384.03 |
| 8   | 0.6711           | 1107.9            | 1127.5            | 1124.7               | 0.786 | 2.991 | 77.908 | 16.927 | 1.309 | 0.027 | 0.048 | 0.002 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1373.31 |
| 9   | 0.6683           | 1104.1            | 1123.7            | 1121.6               | 0.885 | 2.814 | 78.204 | 16.980 | 1.066 | 0.018 | 0.029 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1371.76 |
| 10  | 0.6711           | 1110.5            | 1130.2            | 1127.1               | 0.643 | 3.046 | 77.688 | 17.338 | 1.222 | 0.023 | 0.037 | 0.002 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1376.38 |
| 11  | 0.6634           | 1098.5            | 1117.9            | 1114.9               | 0.229 | 3.681 | 78.850 | 15.879 | 1.289 | 0.026 | 0.042 | 0.002 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.32 |
| 12  | 0.6737           | 1114.1            | 1133.8            | 1130.7               | 0.430 | 3.393 | 77.402 | 17.053 | 1.597 | 0.042 | 0.074 | 0.005 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1378.13 |
| 13  | 0.6648           | 1098.9            | 1118.4            | 1115.3               | 0.567 | 3.269 | 79.089 | 15.634 | 1.333 | 0.036 | 0.064 | 0.004 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1368.44 |
| 14  | 0.6667           | 1102.8            | 1122.4            | 1119.3               | 0.613 | 3.138 | 78.794 | 15.998 | 1.340 | 0.038 | 0.069 | 0.005 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1371.39 |
| 15  | 0.6654           | 1100.9            | 1120.4            | 1117.3               | 0.619 | 3.128 | 79.053 | 15.762 | 1.314 | 0.041 | 0.072 | 0.005 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1370.25 |
| 16  | 0.6651           | 1101.0            | 1120.5            | 1117.4               | 0.548 | 3.199 | 78.963 | 15.920 | 1.255 | 0.038 | 0.068 | 0.005 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1370.74 |
| 17  | 0.6653           | 1100.5            | 1120.0            | 1116.8               | 0.531 | 3.283 | 78.975 | 15.754 | 1.327 | 0.042 | 0.075 | 0.006 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.76 |
| 18  | 0.6706           | 1109.1            | 1128.8            | 1125.6               | 0.477 | 3.332 | 77.901 | 16.765 | 1.403 | 0.040 | 0.072 | 0.005 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1375.13 |
| 19  | 0.6681           | 1107.3            | 1126.9            | 1123.8               | 0.430 | 3.283 | 78.237 | 16.643 | 1.300 | 0.037 | 0.063 | 0.004 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1375.43 |
| 20  | 0.6657           | 1103.5            | 1123.0            | 1119.9               | 0.456 | 3.248 | 78.725 | 16.190 | 1.279 | 0.035 | 0.060 | 0.004 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1373.17 |
| 21  | 0.6680           | 1106.6            | 1126.2            | 1123.0               | 0.571 | 3.104 | 78.422 | 16.505 | 1.280 | 0.039 | 0.069 | 0.005 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1374.60 |
| 22  | 0.6627           | 1095.3            | 1114.7            | 1111.6               | 0.508 | 3.386 | 79.326 | 15.455 | 1.219 | 0.035 | 0.062 | 0.005 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1366.03 |
| 23  | 0.6696           | 1109.0            | 1128.6            | 1125.5               | 0.418 | 3.340 | 77.917 | 16.886 | 1.345 | 0.031 | 0.055 | 0.003 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1376.00 |
| 24  | 0.6694           | 1108.0            | 1127.6            | 1124.6               | 0.437 | 3.346 | 77.985 | 16.798 | 1.340 | 0.031 | 0.056 | 0.004 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1375.05 |
| 25  | 0.6685           | 1106.2            | 1125.8            | 1122.7               | 0.444 | 3.362 | 78.160 | 16.615 | 1.324 | 0.032 | 0.057 | 0.004 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1373.71 |
| 26  | 0.6826           | 1117.2            | 1137.0            | 1133.8               | 0.538 | 3.874 | 76.095 | 17.342 | 1.981 | 0.054 | 0.104 | 0.006 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1372.96 |
| 27  | 0.6833           | 1118.4            | 1138.2            | 1135.1               | 0.522 | 3.889 | 75.970 | 17.436 | 2.010 | 0.054 | 0.106 | 0.006 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1373.78 |
| 28  | 0.6757           | 1113.5            | 1133.2            | 1130.1               | 0.464 | 3.562 | 76.992 | 17.280 | 1.578 | 0.040 | 0.075 | 0.005 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1375.41 |
| 29  | 0.6665           | 1104.7            | 1124.3            | 1121.2               | 0.430 | 3.289 | 78.392 | 16.635 | 1.166 | 0.030 | 0.052 | 0.004 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1373.87 |
| 30  | 0.6756           | 1114.3            | 1134.0            | 1130.8               | 0.654 | 3.219 | 77.440 | 16.865 | 1.636 | 0.060 | 0.110 | 0.008 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1376.39 |
| Avg | 0.6744           | 1111.0            | 1130.9            | 1127.8               | 0.518 | 3.502 | 77.346 | 16.891 | 1.613 | 0.043 | 0.078 | 0.005 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1373.98 |

# Source Daily Summary

November 2020

Number: 271

Pressure Base: 14.730

Contract Day: 1

Name: DCKSN BRD-BLFD TSF-G.U. STN

Temperature Base:

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   | 0.6718           | 1113.5            | 1133.3            | 1130.3               | 0.326 | 3.406 | 77.594 | 16.992 | 1.587 | 0.036 | 0.058 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1379.45 |
| 2   | 0.6700           | 1114.9            | 1134.7            | 1131.7               | 0.304 | 3.182 | 77.774 | 17.258 | 1.400 | 0.032 | 0.050 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.07 |
| 3   | 0.6680           | 1110.2            | 1129.9            | 1127.0               | 0.286 | 3.310 | 77.958 | 17.126 | 1.259 | 0.024 | 0.037 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1379.32 |
| 4   | 0.6710           | 1111.0            | 1130.7            | 1127.7               | 0.175 | 3.717 | 77.423 | 17.112 | 1.500 | 0.028 | 0.043 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1377.12 |
| 5   | 0.6825           | 1130.1            | 1150.1            | 1147.1               | 0.264 | 3.495 | 75.369 | 19.157 | 1.622 | 0.035 | 0.057 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1388.98 |
| 6   | 0.6769           | 1119.4            | 1139.3            | 1136.4               | 0.234 | 3.668 | 76.595 | 17.654 | 1.745 | 0.039 | 0.065 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.51 |
| 7   | 0.6729           | 1113.7            | 1133.5            | 1130.6               | 0.194 | 3.699 | 77.127 | 17.350 | 1.550 | 0.031 | 0.048 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1378.57 |
| 8   | 0.6783           | 1126.1            | 1146.0            | 1143.1               | 0.175 | 3.484 | 75.904 | 18.934 | 1.428 | 0.029 | 0.044 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1388.29 |
| 9   | 0.6783           | 1127.9            | 1147.9            | 1144.9               | 0.134 | 3.433 | 75.990 | 18.859 | 1.487 | 0.034 | 0.057 | 0.002 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1390.54 |
| 10  | 0.6623           | 1098.8            | 1118.2            | 1115.4               | 0.117 | 3.730 | 78.869 | 15.979 | 1.251 | 0.022 | 0.032 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1370.87 |
| 11  | 0.6697           | 1109.0            | 1128.7            | 1125.8               | 0.405 | 3.357 | 78.103 | 16.491 | 1.530 | 0.040 | 0.068 | 0.003 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1376.08 |
| 12  | 0.6669           | 1103.3            | 1122.8            | 1119.9               | 0.487 | 3.325 | 78.639 | 16.014 | 1.426 | 0.037 | 0.066 | 0.003 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1371.77 |
| 13  | 0.6657           | 1102.3            | 1121.9            | 1119.0               | 0.590 | 3.109 | 78.934 | 15.926 | 1.334 | 0.036 | 0.064 | 0.003 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1371.87 |
| 14  | 0.6637           | 1099.0            | 1118.4            | 1115.6               | 0.598 | 3.111 | 79.340 | 15.534 | 1.300 | 0.040 | 0.069 | 0.004 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.77 |
| 15  | 0.6634           | 1099.3            | 1118.8            | 1115.9               | 0.547 | 3.142 | 79.269 | 15.695 | 1.238 | 0.037 | 0.065 | 0.004 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1370.48 |
| 16  | 0.6644           | 1100.2            | 1119.6            | 1116.8               | 0.515 | 3.240 | 79.103 | 15.703 | 1.316 | 0.041 | 0.072 | 0.005 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1370.41 |
| 17  | 0.6693           | 1108.5            | 1128.2            | 1125.3               | 0.483 | 3.238 | 78.141 | 16.636 | 1.380 | 0.042 | 0.073 | 0.004 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1375.82 |
| 18  | 0.6662           | 1105.8            | 1125.4            | 1122.6               | 0.363 | 3.296 | 78.440 | 16.559 | 1.257 | 0.031 | 0.051 | 0.002 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1375.63 |
| 19  | 0.6645           | 1103.2            | 1122.7            | 1119.9               | 0.398 | 3.242 | 78.855 | 16.145 | 1.270 | 0.032 | 0.054 | 0.002 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1374.10 |
| 20  | 0.6667           | 1106.3            | 1125.9            | 1123.1               | 0.534 | 3.051 | 78.637 | 16.384 | 1.279 | 0.039 | 0.069 | 0.004 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1375.76 |
| 21  | 0.6621           | 1096.1            | 1115.5            | 1112.7               | 0.484 | 3.320 | 79.393 | 15.482 | 1.219 | 0.034 | 0.061 | 0.003 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1367.71 |
| 22  | 0.6679           | 1107.2            | 1126.8            | 1123.9               | 0.393 | 3.321 | 78.195 | 16.688 | 1.319 | 0.030 | 0.051 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1375.62 |
| 23  | 0.6683           | 1107.4            | 1127.0            | 1124.2               | 0.436 | 3.284 | 78.174 | 16.681 | 1.334 | 0.031 | 0.054 | 0.002 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1375.45 |
| 24  | 0.6673           | 1105.8            | 1125.4            | 1122.5               | 0.433 | 3.294 | 78.330 | 16.559 | 1.297 | 0.031 | 0.053 | 0.002 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1374.47 |
| 25  | 0.6669           | 1105.8            | 1125.4            | 1122.5               | 0.406 | 3.294 | 78.394 | 16.521 | 1.298 | 0.030 | 0.054 | 0.002 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1374.92 |
| 26  | 0.6673           | 1107.0            | 1126.6            | 1123.8               | 0.354 | 3.332 | 78.210 | 16.763 | 1.263 | 0.028 | 0.049 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1376.09 |
| 27  | 0.6674           | 1107.4            | 1127.0            | 1124.2               | 0.438 | 3.198 | 78.250 | 16.810 | 1.217 | 0.030 | 0.053 | 0.002 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1376.39 |
| 28  | 0.6641           | 1102.4            | 1121.9            | 1119.1               | 0.381 | 3.279 | 78.773 | 16.344 | 1.144 | 0.028 | 0.047 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1373.53 |
| 29  | 0.6707           | 1111.0            | 1130.7            | 1127.9               | 0.600 | 3.036 | 78.119 | 16.662 | 1.431 | 0.051 | 0.089 | 0.006 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1377.48 |
| 30  | 0.6737           | 1115.2            | 1135.0            | 1132.1               | 0.610 | 3.052 | 77.571 | 17.114 | 1.503 | 0.050 | 0.088 | 0.006 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1379.55 |
| Avg | 0.6689           | 1109.0            | 1128.6            | 1125.7               | 0.389 | 3.322 | 78.049 | 16.771 | 1.373 | 0.034 | 0.058 | 0.002 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1376.69 |

# Source Daily Summary

November 2020

Number: 051

Pressure Base: 14.730

Contract Day: 1

Name: CABIN CRK STN-BELFIELD TRSFR

Temperature Base:

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   | 0.6606           | 1095.1            | 1114.5            | 1111.2               | 0.915 | 2.575 | 80.404 | 14.689 | 1.279 | 0.046 | 0.080 | 0.006 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1368.08 |
| 2   | 0.6697           | 1109.3            | 1129.0            | 1125.3               | 1.046 | 2.370 | 78.798 | 16.267 | 1.371 | 0.049 | 0.086 | 0.006 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1376.36 |
| 3   | 0.6685           | 1107.3            | 1126.9            | 1124.3               | 1.056 | 2.330 | 78.915 | 16.232 | 1.329 | 0.046 | 0.080 | 0.006 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1376.16 |
| 4   | 0.6672           | 1105.1            | 1124.7            | 1124.2               | 1.056 | 2.328 | 78.943 | 16.209 | 1.327 | 0.045 | 0.080 | 0.006 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1376.08 |
| 5   | 0.6660           | 1103.1            | 1122.6            | 1124.2               | 1.056 | 2.328 | 78.943 | 16.209 | 1.327 | 0.045 | 0.080 | 0.006 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1376.08 |
| 6   | 0.6648           | 1101.0            | 1120.5            | 1124.2               | 1.056 | 2.328 | 78.943 | 16.209 | 1.327 | 0.045 | 0.080 | 0.006 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1376.08 |
| 7   | 0.6635           | 1098.8            | 1118.3            | 1124.2               | 1.056 | 2.328 | 78.943 | 16.209 | 1.327 | 0.045 | 0.080 | 0.006 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1376.08 |
| 8   | 0.6623           | 1096.8            | 1116.2            | 1124.4               | 1.056 | 2.328 | 78.943 | 16.209 | 1.327 | 0.045 | 0.080 | 0.006 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1376.08 |
| 9   | 0.6610           | 1094.6            | 1114.0            | 1124.9               | 1.056 | 2.328 | 78.943 | 16.209 | 1.327 | 0.045 | 0.080 | 0.006 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1376.08 |
| 10  | 0.6598           | 1092.6            | 1111.9            | 1124.7               | 1.056 | 2.328 | 78.943 | 16.209 | 1.327 | 0.045 | 0.080 | 0.006 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1376.08 |
| 11  | 0.6598           | 1090.5            | 1109.8            | 1124.5               | 1.056 | 2.328 | 78.943 | 16.209 | 1.327 | 0.045 | 0.080 | 0.006 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1376.08 |
| 12  | 0.6573           | 1088.3            | 1107.6            | 1110.1               | 0.861 | 2.754 | 80.136 | 14.915 | 1.213 | 0.040 | 0.070 | 0.005 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1366.47 |
| 13  | 0.6561           | 1086.3            | 1105.5            | 1102.3               | 0.747 | 2.950 | 80.993 | 13.971 | 1.211 | 0.042 | 0.074 | 0.006 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1361.65 |
| 14  | 0.6618           | 1093.7            | 1113.1            | 1109.8               | 0.689 | 3.119 | 79.925 | 14.763 | 1.370 | 0.044 | 0.079 | 0.006 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1365.09 |
| 15  | 0.6590           | 1089.5            | 1108.8            | 1105.4               | 0.738 | 3.034 | 80.615 | 14.087 | 1.367 | 0.052 | 0.093 | 0.007 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1362.71 |
| 16  | 0.6738           | 1111.5            | 1131.2            | 1127.3               | 0.967 | 2.739 | 78.450 | 15.826 | 1.769 | 0.081 | 0.146 | 0.012 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1374.80 |
| 17  | 0.6743           | 1112.2            | 1131.9            | 1128.0               | 0.947 | 2.773 | 78.312 | 15.953 | 1.773 | 0.078 | 0.141 | 0.011 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1375.14 |
| 18  | 0.6673           | 1102.9            | 1122.4            | 1118.6               | 0.823 | 2.874 | 79.211 | 15.383 | 1.538 | 0.056 | 0.100 | 0.008 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1370.82 |
| 19  | 0.6590           | 1089.3            | 1108.6            | 1104.9               | 0.811 | 2.938 | 80.789 | 13.859 | 1.425 | 0.058 | 0.104 | 0.008 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1362.45 |
| 20  | 0.6735           | 1111.7            | 1131.4            | 1127.5               | 1.014 | 2.627 | 78.524 | 15.853 | 1.741 | 0.078 | 0.141 | 0.011 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1375.37 |
| 21  | 0.6794           | 1121.6            | 1141.5            | 1137.6               | 1.037 | 2.541 | 77.456 | 16.888 | 1.836 | 0.078 | 0.141 | 0.011 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.64 |
| 22  | 0.6750           | 1116.0            | 1135.8            | 1132.1               | 0.939 | 2.616 | 77.989 | 16.588 | 1.673 | 0.064 | 0.114 | 0.009 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1379.26 |
| 23  | 0.6829           | 1126.0            | 1145.9            | 1142.1               | 1.020 | 2.629 | 76.588 | 17.778 | 1.774 | 0.069 | 0.123 | 0.009 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.49 |
| 24  | 0.6816           | 1124.4            | 1144.3            | 1140.5               | 1.023 | 2.601 | 76.798 | 17.642 | 1.729 | 0.067 | 0.121 | 0.009 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1382.85 |
| 25  | 0.6750           | 1114.1            | 1133.8            | 1130.0               | 0.888 | 2.813 | 77.810 | 16.698 | 1.612 | 0.058 | 0.105 | 0.008 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1376.84 |
| 26  | 0.6657           | 1099.0            | 1118.5            | 1115.1               | 0.701 | 3.142 | 79.204 | 15.380 | 1.439 | 0.044 | 0.078 | 0.006 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1367.71 |
| 27  | 0.6656           | 1098.8            | 1118.3            | 1114.5               | 0.781 | 3.022 | 79.502 | 14.999 | 1.520 | 0.058 | 0.103 | 0.008 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1367.54 |
| 28  | 0.6643           | 1096.6            | 1116.0            | 1112.5               | 0.752 | 3.079 | 79.689 | 14.817 | 1.491 | 0.056 | 0.100 | 0.008 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1366.10 |
| 29  | 0.6790           | 1117.8            | 1137.6            | 1134.4               | 0.926 | 2.900 | 77.487 | 16.503 | 1.940 | 0.079 | 0.143 | 0.011 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1377.37 |
| 30  | 0.6724           | 1110.2            | 1129.8            | 1126.1               | 0.901 | 2.787 | 78.338 | 16.201 | 1.601 | 0.057 | 0.101 | 0.008 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1374.65 |
| Avg | 0.6675           | 1103.0            | 1123.0            | 1122.5               | 0.934 | 2.661 | 78.916 | 15.832 | 1.487 | 0.055 | 0.099 | 0.008 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1373.37 |

# Source Daily Summary

November 2020

Number: 111

Pressure Base: 14.730

Contract Day: 1

Name: LITTLE KNIFE PLANT

Temperature Base:

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   | 0.6859           | 1152.4            | 1172.8            | 1167.8               | 0.000 | 2.867 | 73.446 | 22.961 | 0.710 | 0.007 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1412.89 | -26.21 |
| 2   | 0.6858           | 1152.5            | 1172.9            | 1168.1               | 0.000 | 2.860 | 73.460 | 22.952 | 0.711 | 0.007 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1412.98 | -26.22 |
| 3   | 0.6854           | 1151.2            | 1171.5            | 1167.2               | 0.000 | 2.900 | 73.526 | 22.861 | 0.695 | 0.007 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1411.82 | -26.55 |
| 4   | 0.6859           | 1152.2            | 1172.6            | 1168.0               | 0.000 | 2.887 | 73.434 | 22.953 | 0.709 | 0.007 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1412.52 | -26.24 |
| 5   | 0.6863           | 1153.2            | 1173.6            | 1169.0               | 0.000 | 2.860 | 73.380 | 23.018 | 0.726 | 0.007 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1413.36 | -25.94 |
| 6   | 0.6857           | 1151.8            | 1172.2            | 1167.6               | 0.000 | 2.883 | 73.443 | 22.989 | 0.670 | 0.006 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1412.39 | -26.51 |
| 7   | 0.6852           | 1151.1            | 1171.5            | 1166.4               | 0.000 | 2.882 | 73.511 | 22.959 | 0.633 | 0.006 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1411.98 | -26.90 |
| 8   | 0.6925           | 1162.6            | 1183.2            | 1178.8               | 0.000 | 2.858 | 72.978 | 22.769 | 1.226 | 0.045 | 0.100 | 0.011 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1418.37 | -20.00 |
| 9   | 0.6846           | 1150.1            | 1170.5            | 1165.4               | 0.000 | 2.886 | 73.588 | 22.917 | 0.595 | 0.006 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1411.40 | -27.36 |
| 10  | 0.6854           | 1151.4            | 1171.8            | 1166.6               | 0.000 | 2.882 | 73.462 | 23.015 | 0.626 | 0.006 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1412.15 | -26.84 |
| 11  | 0.6844           | 1150.3            | 1170.7            | 1166.0               | 0.000 | 2.857 | 73.620 | 22.921 | 0.588 | 0.006 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1411.85 | -27.40 |
| 12  | 0.6848           | 1150.8            | 1171.2            | 1166.2               | 0.000 | 2.862 | 73.576 | 22.927 | 0.620 | 0.006 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1412.06 | -27.10 |
| 13  | 0.6849           | 1151.1            | 1171.5            | 1166.7               | 0.000 | 2.859 | 73.568 | 22.916 | 0.643 | 0.006 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1412.26 | -26.93 |
| 14  | 0.6847           | 1150.6            | 1171.0            | 1166.4               | 0.000 | 2.863 | 73.608 | 22.892 | 0.622 | 0.006 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1411.92 | -27.17 |
| 15  | 0.6847           | 1150.6            | 1171.0            | 1165.9               | 0.000 | 2.864 | 73.630 | 22.847 | 0.644 | 0.006 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1411.90 | -27.09 |
| 16  | 0.6848           | 1150.8            | 1171.2            | 1166.3               | 0.000 | 2.863 | 73.605 | 22.871 | 0.646 | 0.006 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1412.04 | -27.00 |
| 17  | 0.6845           | 1150.7            | 1171.0            | 1166.0               | 0.000 | 2.840 | 73.680 | 22.818 | 0.648 | 0.006 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1412.20 | -27.12 |
| 18  | 0.6867           | 1154.7            | 1175.1            | 1170.4               | 0.000 | 2.802 | 73.349 | 23.070 | 0.762 | 0.007 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1414.85 | -25.49 |
| 19  | 0.6847           | 1150.5            | 1170.9            | 1166.5               | 0.000 | 2.869 | 73.613 | 22.871 | 0.633 | 0.006 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1411.83 | -27.12 |
| 20  | 0.6853           | 1151.0            | 1171.3            | 1166.2               | 0.000 | 2.898 | 73.520 | 22.903 | 0.663 | 0.007 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1411.74 | -26.77 |
| 21  | 0.6847           | 1149.9            | 1170.2            | 1165.3               | 0.000 | 2.906 | 73.628 | 22.802 | 0.648 | 0.006 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1411.04 | -27.17 |
| 22  | 0.6848           | 1150.6            | 1170.9            | 1166.3               | 0.000 | 2.881 | 73.599 | 22.852 | 0.652 | 0.006 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1411.70 | -27.00 |
| 23  | 0.6852           | 1151.1            | 1171.5            | 1166.5               | 0.000 | 2.878 | 73.517 | 22.953 | 0.637 | 0.006 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1412.05 | -26.88 |
| 24  | 0.6850           | 1151.0            | 1171.4            | 1166.8               | 0.000 | 2.869 | 73.548 | 22.935 | 0.632 | 0.006 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1412.10 | -26.94 |
| 25  | 0.6845           | 1150.5            | 1170.9            | 1166.2               | 0.000 | 2.855 | 73.653 | 22.837 | 0.640 | 0.006 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1411.97 | -27.14 |
| 26  | 0.6842           | 1150.2            | 1170.6            | 1166.0               | 0.000 | 2.846 | 73.706 | 22.806 | 0.627 | 0.006 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1411.88 | -27.33 |
| 27  | 0.6841           | 1150.2            | 1170.6            | 1165.9               | 0.000 | 2.832 | 73.752 | 22.756 | 0.645 | 0.006 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1412.06 | -27.30 |
| 28  | 0.6841           | 1150.2            | 1170.5            | 1166.1               | 0.000 | 2.836 | 73.733 | 22.788 | 0.627 | 0.006 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1411.97 | -27.37 |
| 29  | 0.6840           | 1150.2            | 1170.6            | 1165.6               | 0.000 | 2.821 | 73.766 | 22.766 | 0.631 | 0.006 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1412.15 | -27.39 |
| 30  | 0.6848           | 1151.6            | 1172.0            | 1167.2               | 0.000 | 2.815 | 73.628 | 22.876 | 0.665 | 0.007 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1413.00 | -26.82 |
| Avg | 0.6853           | 1151.0            | 1171.9            | 1167.1               | 0.000 | 2.863 | 73.551 | 22.893 | 0.672 | 0.008 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1412.41 | -26.64 |

# Source Daily Summary

November 2020

Number: 351

Pressure Base: 14.730

Contract Day: 1

Name: BADLANDS PLANT

Temperature Base:

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   | 0.6257           | 1036.1            | 1054.4            | 979.9                | 0.113 | 3.351 | 96.145 | 0.346  | 0.032 | 0.009 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1296.31 |
| 2   | 0.6251           | 1038.2            | 1056.6            | 1053.6               | 0.384 | 3.507 | 86.523 | 8.597  | 0.902 | 0.029 | 0.051 | 0.003 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1333.14 |
| 3   | 0.5805           | 973.6             | 990.8             | 988.0                | 0.151 | 3.612 | 94.506 | 1.555  | 0.155 | 0.012 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1297.45 |
| 4   | 0.5775           | 969.7             | 986.9             | 984.0                | 0.138 | 3.583 | 95.060 | 1.100  | 0.103 | 0.010 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1295.66 |
| 5   | 0.5734           | 964.2             | 981.3             | 978.5                | 0.119 | 3.563 | 95.798 | 0.476  | 0.034 | 0.009 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1292.91 |
| 6   | 0.5728           | 963.8             | 980.9             | 978.2                | 0.118 | 3.534 | 95.913 | 0.400  | 0.026 | 0.009 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1293.02 |
| 7   | 0.5720           | 963.7             | 980.8             | 978.1                | 0.117 | 3.463 | 96.080 | 0.315  | 0.016 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1293.81 |
| 8   | 0.6351           | 1047.7            | 1066.3            | 1063.5               | 0.400 | 3.849 | 84.682 | 9.861  | 1.095 | 0.035 | 0.068 | 0.004 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1334.69 |
| 9   | 0.6609           | 1083.1            | 1102.2            | 1099.3               | 0.570 | 3.866 | 79.964 | 14.018 | 1.440 | 0.043 | 0.086 | 0.005 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1352.66 |
| 10  | 0.6623           | 1087.4            | 1106.7            | 1103.7               | 0.607 | 3.675 | 79.700 | 14.476 | 1.406 | 0.041 | 0.083 | 0.005 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1356.70 |
| 11  | 0.6624           | 1092.8            | 1112.2            | 1109.2               | 0.685 | 3.237 | 79.596 | 15.142 | 1.230 | 0.034 | 0.067 | 0.004 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1363.35 |
| 12  | 0.6582           | 1084.3            | 1103.5            | 1100.5               | 0.637 | 3.431 | 80.346 | 14.279 | 1.199 | 0.034 | 0.064 | 0.004 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1357.04 |
| 13  | 0.6550           | 1078.9            | 1098.0            | 1094.9               | 0.615 | 3.494 | 80.957 | 13.653 | 1.168 | 0.036 | 0.067 | 0.005 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1353.56 |
| 14  | 0.6535           | 1076.8            | 1095.9            | 1092.9               | 0.611 | 3.487 | 81.194 | 13.473 | 1.125 | 0.034 | 0.065 | 0.005 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1352.51 |
| 15  | 0.6552           | 1081.1            | 1100.3            | 1097.2               | 0.641 | 3.339 | 80.894 | 13.901 | 1.115 | 0.033 | 0.065 | 0.005 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1356.14 |
| 16  | 0.6556           | 1082.5            | 1101.7            | 1098.6               | 0.648 | 3.277 | 80.811 | 14.059 | 1.099 | 0.033 | 0.064 | 0.004 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1357.56 |
| 17  | 0.6505           | 1074.0            | 1093.0            | 1089.9               | 0.616 | 3.370 | 81.800 | 13.022 | 1.073 | 0.034 | 0.071 | 0.005 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1351.90 |
| 18  | 0.5719           | 964.1             | 981.1             | 978.5                | 0.112 | 3.437 | 96.109 | 0.315  | 0.018 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1294.45 |
| 19  | 0.6257           | 1035.7            | 1054.1            | 1051.2               | 0.432 | 3.652 | 86.267 | 8.801  | 0.760 | 0.028 | 0.051 | 0.004 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1329.36 |
| 20  | 0.6535           | 1076.9            | 1095.9            | 1093.0               | 0.618 | 3.472 | 81.201 | 13.487 | 1.111 | 0.034 | 0.066 | 0.005 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1352.57 |
| 21  | 0.6533           | 1076.4            | 1095.4            | 1092.5               | 0.616 | 3.492 | 81.230 | 13.437 | 1.111 | 0.035 | 0.068 | 0.005 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1352.11 |
| 22  | 0.6532           | 1076.8            | 1095.9            | 1092.9               | 0.617 | 3.446 | 81.263 | 13.457 | 1.105 | 0.034 | 0.066 | 0.005 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1352.85 |
| 23  | 0.6519           | 1075.8            | 1094.8            | 1091.9               | 0.613 | 3.401 | 81.469 | 13.337 | 1.077 | 0.033 | 0.061 | 0.004 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1352.80 |
| 24  | 0.6523           | 1075.1            | 1094.1            | 1091.2               | 0.613 | 3.480 | 81.412 | 13.287 | 1.099 | 0.034 | 0.065 | 0.004 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1351.53 |
| 25  | 0.6530           | 1075.8            | 1094.9            | 1091.9               | 0.612 | 3.505 | 81.296 | 13.349 | 1.123 | 0.035 | 0.069 | 0.005 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1351.71 |
| 26  | 0.6530           | 1075.6            | 1094.6            | 1091.7               | 0.612 | 3.517 | 81.285 | 13.360 | 1.115 | 0.034 | 0.067 | 0.005 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1351.42 |
| 27  | 0.6533           | 1076.0            | 1095.0            | 1092.1               | 0.610 | 3.525 | 81.227 | 13.399 | 1.127 | 0.035 | 0.067 | 0.005 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1351.62 |
| 28  | 0.6532           | 1075.8            | 1094.9            | 1091.9               | 0.604 | 3.528 | 81.269 | 13.349 | 1.136 | 0.035 | 0.068 | 0.005 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1351.58 |
| 29  | 0.6529           | 1076.9            | 1095.9            | 1093.0               | 0.607 | 3.431 | 81.319 | 13.418 | 1.119 | 0.034 | 0.063 | 0.004 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1353.21 |
| 30  | 0.6577           | 1083.6            | 1102.8            | 1099.8               | 0.631 | 3.439 | 80.480 | 14.107 | 1.222 | 0.037 | 0.073 | 0.005 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1356.66 |
| Avg | 0.6354           | 1051.0            | 1070.0            | 1064.7               | 0.482 | 3.499 | 84.860 | 10.193 | 0.878 | 0.029 | 0.052 | 0.003 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1338.01 |

# Gas Composition and Properties

Effective November 1, 2020

Attachment B  
Page 19 of 24

Source #: 2702230  
Name: WATFORD CITY EAST BORDER

| Component             | Mole %   | Liquid Content | Mass %   |
|-----------------------|----------|----------------|----------|
| Carbon Dioxide, CO2   | 1.0831   |                | 2.4137   |
| Nitrogen, N2          | 2.5659   |                | 3.6398   |
| Methane, C1           | 74.5634  |                | 60.5711  |
| Ethane, C2            | 21.5045  | 5.7535         | 32.7428  |
| Propane, C3           | 0.2825   | 0.0779         | 0.6308   |
| iso-Butane, iC4       |          |                |          |
| n-Butane, nC4         | 0.0006   | 0.0002         | 0.0018   |
| iso-Pentane, iC5      |          |                |          |
| n-Pentane, nC5        |          |                |          |
| Neo-Pentane, NeoC5    |          |                |          |
| Hexanes Plus, C6+     |          |                |          |
| Water, H2O            |          |                |          |
| Hydrogen Sulfide, H2S |          |                |          |
| Oxygen, O2            |          |                |          |
| Carbon Monoxide, CO   |          |                |          |
| Hydrogen, H2          |          |                |          |
| Helium, He            |          |                |          |
| Argon, Ar             |          |                |          |
| Totals                | 100.0000 | 5.8320         | 100.0000 |

| Property               | Total Sample | C6 Plus Fraction |
|------------------------|--------------|------------------|
| Pressure Base          | 14.730       |                  |
| Temperature Base       | 60.00        |                  |
| HCDP @ Sample Pressure | -51.178      |                  |
| Cricondentherm         | -31.712      |                  |
| HV, Dry @ Base P, T    | 1146.83      |                  |
| HV, Sat @ Base P, T    | 1126.87      |                  |
| HV, Sat @ Sample P, T  | 1146.83      |                  |
| Relative Density       | 0.6836       |                  |
| C6+: 100               |              |                  |

| Sample   |               |              |        |
|----------|---------------|--------------|--------|
| Date:    | 11/01/2020    | Pressure:    | 440.0  |
| Type:    |               | Temperature: |        |
| Tech:    | Joshua Tipton | H2O:         | lbs/mm |
|          |               | H2S:         | ppm    |
| Remarks: |               |              |        |

| Analysis |               |             |    |
|----------|---------------|-------------|----|
| Date:    | 11/01/2020    | Instrument: |    |
|          |               | Cylinder:   | 25 |
| Tech:    | Joshua Tipton |             |    |
| Remarks: |               |             |    |

November-20

ZONE 550

MANDAN BORDER

WBI - Mandan Border

Weighted

| Start Date | End Date   | NBPL - St Anthony |    |         | WBI - Mandan Border |         |                | AVG<br>BTU |            |
|------------|------------|-------------------|----|---------|---------------------|---------|----------------|------------|------------|
|            |            | MCF               | DK | BTU     | MCF                 | DK      | BTU<br>Zone 28 |            |            |
| 11/1/2020  | 11/2/2020  |                   |    |         | 3200                | 3637    | 1.1364         | 1.136      | 11/1/2020  |
| 11/2/2020  | 11/3/2020  |                   |    |         | 2109                | 2396    | 1.1357         | 1.136      | 11/2/2020  |
| 11/3/2020  | 11/4/2020  |                   |    |         | 1967                | 2244    | 1.1458         | 1.146      | 11/3/2020  |
| 11/4/2020  | 11/5/2020  |                   |    |         | 1836                | 2143    | 1.1662         | 1.166      | 11/4/2020  |
| 11/5/2020  | 11/6/2020  |                   |    |         | 1961                | 2289    | 1.1696         | 1.170      | 11/5/2020  |
| 11/6/2020  | 11/7/2020  |                   |    |         | 2619                | 2957    | 1.1272         | 1.127      | 11/6/2020  |
| 11/7/2020  | 11/8/2020  |                   |    |         | 3152                | 3607    | 1.1441         | 1.144      | 11/7/2020  |
| 11/8/2020  | 11/9/2020  |                   |    |         | 3537                | 3979    | 1.1275         | 1.128      | 11/8/2020  |
| 11/9/2020  | 11/10/2020 |                   |    |         | 5348                | 6010    | 1.1237         | 1.124      | 11/9/2020  |
| 11/10/2020 | 11/11/2020 |                   |    |         | 4233                | 4785    | 1.1302         | 1.130      | 11/10/2020 |
| 11/11/2020 | 11/12/2020 |                   |    |         | 5484                | 6126    | 1.1179         | 1.118      | 11/11/2020 |
| 11/12/2020 | 11/13/2020 |                   |    |         | 5518                | 6255    | 1.1338         | 1.134      | 11/12/2020 |
| 11/13/2020 | 11/14/2020 |                   |    |         | 4138                | 4630    | 1.1184         | 1.118      | 11/13/2020 |
| 11/14/2020 | 11/15/2020 |                   |    |         | 4096                | 4596    | 1.1224         | 1.122      | 11/14/2020 |
| 11/15/2020 | 11/16/2020 |                   |    |         | 4026                | 4509    | 1.1204         | 1.120      | 11/15/2020 |
| 11/16/2020 | 11/17/2020 |                   |    |         | 4724                | 5293    | 1.1205         | 1.121      | 11/16/2020 |
| 11/17/2020 | 11/18/2020 |                   |    |         | 3761                | 4216    | 1.1200         | 1.120      | 11/17/2020 |
| 11/18/2020 | 11/19/2020 |                   |    |         | 2853                | 3219    | 1.1288         | 1.129      | 11/18/2020 |
| 11/19/2020 | 11/20/2020 |                   |    |         | 4289                | 4834    | 1.1269         | 1.127      | 11/19/2020 |
| 11/20/2020 | 11/21/2020 |                   |    |         | 5139                | 5771    | 1.1230         | 1.123      | 11/20/2020 |
| 11/21/2020 | 11/22/2020 |                   |    |         | 4055                | 4565    | 1.1262         | 1.126      | 11/21/2020 |
| 11/22/2020 | 11/23/2020 |                   |    |         | 4421                | 4936    | 1.1147         | 1.115      | 11/22/2020 |
| 11/23/2020 | 11/24/2020 |                   |    |         | 4414                | 4984    | 1.1286         | 1.129      | 11/23/2020 |
| 11/24/2020 | 11/25/2020 |                   |    |         | 5548                | 6257    | 1.1276         | 1.128      | 11/24/2020 |
| 11/25/2020 | 11/26/2020 |                   |    |         | 3780                | 4256    | 1.1258         | 1.126      | 11/25/2020 |
| 11/26/2020 | 11/27/2020 |                   |    |         | 4552                | 5171    | 1.1370         | 1.137      | 11/26/2020 |
| 11/27/2020 | 11/28/2020 |                   |    |         | 3937                | 4480    | 1.1382         | 1.138      | 11/27/2020 |
| 11/28/2020 | 11/29/2020 |                   |    |         | 3523                | 3989    | 1.1332         | 1.133      | 11/28/2020 |
| 11/29/2020 | 11/30/2020 |                   |    |         | 5143                | 5778    | 1.1243         | 1.124      | 11/29/2020 |
| 11/30/2020 | 12/1/2020  |                   |    |         | 4809                | 5464    | 1.1340         | 1.134      | 11/30/2020 |
|            |            | 0                 | 0  | #DIV/0! | 118,172             | 133,376 | 1.1309         | 1.1309     |            |



# Alliance Pipeline

DAILY ANALYSIS --- USA  
 ND07MD1 --- Hankinson Sales  
 November 2020

| 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                        | 1,162.279               | 0.6662           | 84.0540        | 9.3435        | 3.9366        | 0.4002        | 0.6743        | 0.0815        | 0.0676        | 0.0377        | 0.9970        | 0.3971        | 0.0104        |
| 2                        | 1,156.774               | 0.6633           | 84.3115        | 9.2933        | 3.7504        | 0.3810        | 0.6419        | 0.0759        | 0.0630        | 0.0297        | 1.0314        | 0.4115        | 0.0102        |
| 3                        | 1,158.112               | 0.6648           | 84.1393        | 9.3127        | 3.8198        | 0.3876        | 0.6688        | 0.0765        | 0.0608        | 0.0286        | 1.0720        | 0.4238        | 0.0101        |
| 4                        | 1,156.919               | 0.6636           | 84.3762        | 9.1665        | 3.7023        | 0.3984        | 0.7308        | 0.0723        | 0.0555        | 0.0281        | 1.0405        | 0.4189        | 0.0105        |
| 5                        | 1,153.524               | 0.6618           | 84.6475        | 8.9628        | 3.6283        | 0.3923        | 0.7219        | 0.0710        | 0.0543        | 0.0274        | 1.0604        | 0.4241        | 0.0101        |
| 6                        | 1,150.011               | 0.6591           | 84.9474        | 8.8759        | 3.5064        | 0.3805        | 0.6892        | 0.0668        | 0.0512        | 0.0242        | 1.0216        | 0.4263        | 0.0105        |
| 7                        | 1,150.727               | 0.6588           | 85.0541        | 8.8221        | 3.5131        | 0.3856        | 0.6951        | 0.0684        | 0.0514        | 0.0239        | 0.9505        | 0.4253        | 0.0105        |
| 8                        | 1,150.600               | 0.6596           | 84.8634        | 8.9457        | 3.5234        | 0.3791        | 0.6880        | 0.0660        | 0.0497        | 0.0230        | 1.0158        | 0.4357        | 0.0102        |
| 9                        | 1,149.472               | 0.6585           | 85.0761        | 8.7849        | 3.5127        | 0.3796        | 0.6828        | 0.0668        | 0.0494        | 0.0227        | 0.9821        | 0.4325        | 0.0104        |
| 10                       | 1,153.726               | 0.6611           | 84.7461        | 8.9494        | 3.6279        | 0.3924        | 0.7216        | 0.0665        | 0.0504        | 0.0230        | 0.9957        | 0.4164        | 0.0105        |
| 11                       | 1,155.276               | 0.6622           | 84.5443        | 9.1189        | 3.6727        | 0.3892        | 0.7023        | 0.0689        | 0.0522        | 0.0231        | 0.9908        | 0.4270        | 0.0104        |
| 12                       | 1,153.719               | 0.6603           | 84.7921        | 9.0749        | 3.5903        | 0.3863        | 0.6698        | 0.0685        | 0.0520        | 0.0231        | 0.9005        | 0.4321        | 0.0104        |
| 13                       | 1,156.310               | 0.6617           | 84.6997        | 9.0476        | 3.6168        | 0.4247        | 0.7352        | 0.0674        | 0.0515        | 0.0229        | 0.9182        | 0.4057        | 0.0102        |
| 14                       | 1,153.846               | 0.6610           | 84.7910        | 8.9519        | 3.5806        | 0.4156        | 0.7224        | 0.0673        | 0.0506        | 0.0229        | 0.9579        | 0.4295        | 0.0103        |
| 15                       | 1,154.862               | 0.6619           | 84.6934        | 8.9338        | 3.6636        | 0.4162        | 0.7287        | 0.0672        | 0.0501        | 0.0233        | 0.9868        | 0.4262        | 0.0106        |
| 16                       | 1,153.281               | 0.6610           | 84.7285        | 8.9453        | 3.6747        | 0.3818        | 0.6923        | 0.0661        | 0.0491        | 0.0231        | 0.9973        | 0.4312        | 0.0106        |
| 17                       | 1,152.963               | 0.6611           | 84.6976        | 8.9700        | 3.6624        | 0.3822        | 0.6863        | 0.0653        | 0.0501        | 0.0240        | 1.0223        | 0.4293        | 0.0105        |
| 18                       | 1,151.572               | 0.6594           | 84.9452        | 8.8662        | 3.6068        | 0.3788        | 0.6723        | 0.0654        | 0.0494        | 0.0232        | 0.9643        | 0.4179        | 0.0106        |
| 19                       | 1,152.603               | 0.6610           | 84.7045        | 8.9640        | 3.6296        | 0.3868        | 0.7020        | 0.0647        | 0.0481        | 0.0230        | 1.0339        | 0.4330        | 0.0105        |
| 20                       | 1,154.625               | 0.6616           | 84.6375        | 9.0779        | 3.5954        | 0.4107        | 0.7231        | 0.0649        | 0.0486        | 0.0235        | 0.9908        | 0.4170        | 0.0106        |
| 21                       | 1,154.659               | 0.6609           | 84.7516        | 9.0852        | 3.5313        | 0.4162        | 0.7183        | 0.0668        | 0.0518        | 0.0265        | 0.9193        | 0.4217        | 0.0112        |
| 22                       | 1,154.099               | 0.6611           | 84.7870        | 8.9163        | 3.6137        | 0.4194        | 0.7185        | 0.0668        | 0.0515        | 0.0245        | 0.9821        | 0.4094        | 0.0108        |
| 23                       | 1,155.478               | 0.6620           | 84.7109        | 8.9162        | 3.6649        | 0.4278        | 0.7351        | 0.0670        | 0.0513        | 0.0252        | 0.9751        | 0.4161        | 0.0106        |
| 24                       | 1,156.672               | 0.6626           | 84.6746        | 8.9063        | 3.6878        | 0.4349        | 0.7537        | 0.0721        | 0.0531        | 0.0257        | 0.9765        | 0.4049        | 0.0104        |
| 25                       | 1,157.553               | 0.6631           | 84.6043        | 8.9560        | 3.6964        | 0.4394        | 0.7578        | 0.0738        | 0.0551        | 0.0270        | 0.9839        | 0.3960        | 0.0104        |
| 26                       | 1,157.539               | 0.6633           | 84.5488        | 8.9929        | 3.7172        | 0.4284        | 0.7446        | 0.0747        | 0.0568        | 0.0280        | 0.9960        | 0.4021        | 0.0104        |
| 27                       | 1,156.994               | 0.6632           | 84.5670        | 8.9680        | 3.7320        | 0.4053        | 0.7311        | 0.0779        | 0.0609        | 0.0332        | 0.9907        | 0.4233        | 0.0106        |
| 28                       | 1,160.223               | 0.6657           | 84.2557        | 9.1409        | 3.7685        | 0.4359        | 0.7697        | 0.0790        | 0.0618        | 0.0336        | 1.0107        | 0.4336        | 0.0107        |
| 29                       | 1,160.606               | 0.6662           | 84.2198        | 9.0867        | 3.7933        | 0.4480        | 0.7889        | 0.0805        | 0.0618        | 0.0335        | 1.0507        | 0.4263        | 0.0106        |
| 30                       | 1,159.695               | 0.6651           | 84.4591        | 8.9093        | 3.7761        | 0.4571        | 0.7994        | 0.0753        | 0.0591        | 0.0321        | 0.9946        | 0.4275        | 0.0104        |
| <b>Volume</b>            | <b>1,155.151</b>        | <b>0.6620</b>    | <b>84.6358</b> | <b>9.0085</b> | <b>3.6595</b> | <b>0.4055</b> | <b>0.7157</b> | <b>0.0704</b> | <b>0.0539</b> | <b>0.0263</b> | <b>0.9933</b> | <b>0.4207</b> | <b>0.0105</b> |
| <b>Weight Avg Energy</b> | <b>1,155.159</b>        | <b>0.6620</b>    | <b>84.6351</b> | <b>9.0088</b> | <b>3.6597</b> | <b>0.4055</b> | <b>0.7157</b> | <b>0.0704</b> | <b>0.0539</b> | <b>0.0263</b> | <b>0.9934</b> | <b>0.4207</b> | <b>0.0105</b> |



# Alliance Pipeline

DAILY ANALYSIS --- USA  
 ND14MD1 --- Milnor Sales  
 November 2020

| 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                        | 1,161.784               | 0.6660           | 84.0606        | 9.3835        | 3.8988        | 0.3991        | 0.6716        | 0.0799        | 0.0660        | 0.0365        | 0.9986        | 0.3951        | 0.0104        |
| 2                        | 1,157.626               | 0.6640           | 84.2374        | 9.3239        | 3.7705        | 0.3847        | 0.6514        | 0.0772        | 0.0643        | 0.0300        | 1.0379        | 0.4126        | 0.0102        |
| 3                        | 1,157.920               | 0.6647           | 84.1680        | 9.2884        | 3.8110        | 0.3886        | 0.6748        | 0.0760        | 0.0602        | 0.0282        | 1.0708        | 0.4238        | 0.0102        |
| 4                        | 1,156.231               | 0.6632           | 84.4424        | 9.1245        | 3.6833        | 0.3959        | 0.7295        | 0.0724        | 0.0554        | 0.0281        | 1.0398        | 0.4183        | 0.0104        |
| 5                        | 1,153.357               | 0.6618           | 84.6507        | 8.9637        | 3.6220        | 0.3919        | 0.7217        | 0.0706        | 0.0540        | 0.0272        | 1.0597        | 0.4284        | 0.0101        |
| 6                        | 1,149.729               | 0.6589           | 84.9926        | 8.8488        | 3.4988        | 0.3804        | 0.6877        | 0.0667        | 0.0510        | 0.0243        | 1.0154        | 0.4238        | 0.0106        |
| 7                        | 1,150.862               | 0.6589           | 85.0515        | 8.8214        | 3.5212        | 0.3861        | 0.6945        | 0.0680        | 0.0514        | 0.0238        | 0.9486        | 0.4233        | 0.0104        |
| 8                        | 1,151.414               | 0.6606           | 84.7599        | 8.9351        | 3.5783        | 0.3842        | 0.7023        | 0.0670        | 0.0493        | 0.0229        | 1.0535        | 0.4375        | 0.0099        |
| 9                        | 1,149.507               | 0.6582           | 85.1099        | 8.8029        | 3.4943        | 0.3785        | 0.6789        | 0.0667        | 0.0496        | 0.0227        | 0.9550        | 0.4311        | 0.0105        |
| 10                       | 1,153.914               | 0.6614           | 84.6877        | 8.9853        | 3.6364        | 0.3916        | 0.7209        | 0.0660        | 0.0503        | 0.0231        | 1.0100        | 0.4181        | 0.0106        |
| 11                       | 1,155.244               | 0.6622           | 84.5571        | 9.1106        | 3.6813        | 0.3883        | 0.6946        | 0.0698        | 0.0526        | 0.0231        | 0.9849        | 0.4272        | 0.0104        |
| 12                       | 1,153.916               | 0.6604           | 84.8054        | 9.0657        | 3.5864        | 0.3891        | 0.6774        | 0.0683        | 0.0519        | 0.0230        | 0.8936        | 0.4288        | 0.0103        |
| 13                       | 1,156.227               | 0.6618           | 84.6994        | 9.0489        | 3.6081        | 0.4267        | 0.7371        | 0.0670        | 0.0514        | 0.0231        | 0.9225        | 0.4055        | 0.0102        |
| 14                       | 1,153.928               | 0.6611           | 84.7828        | 8.9513        | 3.5853        | 0.4159        | 0.7242        | 0.0674        | 0.0505        | 0.0227        | 0.9608        | 0.4287        | 0.0104        |
| 15                       | 1,154.636               | 0.6619           | 84.6874        | 8.9395        | 3.6687        | 0.4102        | 0.7221        | 0.0673        | 0.0502        | 0.0235        | 0.9949        | 0.4256        | 0.0106        |
| 16                       | 1,153.141               | 0.6609           | 84.7442        | 8.9425        | 3.6720        | 0.3811        | 0.6894        | 0.0654        | 0.0487        | 0.0227        | 0.9936        | 0.4299        | 0.0105        |
| 17                       | 1,153.015               | 0.6612           | 84.6851        | 8.9703        | 3.6642        | 0.3829        | 0.6884        | 0.0657        | 0.0503        | 0.0243        | 1.0287        | 0.4296        | 0.0105        |
| 18                       | 1,151.817               | 0.6597           | 84.9060        | 8.8809        | 3.6174        | 0.3789        | 0.6753        | 0.0655        | 0.0494        | 0.0233        | 0.9713        | 0.4214        | 0.0107        |
| 19                       | 1,152.855               | 0.6612           | 84.6836        | 8.9916        | 3.6201        | 0.3905        | 0.7053        | 0.0646        | 0.0479        | 0.0229        | 1.0325        | 0.4306        | 0.0105        |
| 20                       | 1,154.585               | 0.6616           | 84.6525        | 9.0717        | 3.5922        | 0.4111        | 0.7226        | 0.0650        | 0.0486        | 0.0234        | 0.9860        | 0.4161        | 0.0106        |
| 21                       | 1,154.403               | 0.6609           | 84.7704        | 9.0778        | 3.5239        | 0.4148        | 0.7147        | 0.0671        | 0.0521        | 0.0267        | 0.9158        | 0.4253        | 0.0113        |
| 22                       | 1,155.347               | 0.6619           | 84.6827        | 8.9541        | 3.6555        | 0.4250        | 0.7301        | 0.0670        | 0.0517        | 0.0243        | 0.9980        | 0.4008        | 0.0108        |
| 23                       | 1,155.611               | 0.6620           | 84.7246        | 8.9041        | 3.6670        | 0.4288        | 0.7382        | 0.0673        | 0.0514        | 0.0253        | 0.9674        | 0.4155        | 0.0105        |
| 24                       | 1,156.306               | 0.6624           | 84.7075        | 8.8977        | 3.6732        | 0.4334        | 0.7502        | 0.0720        | 0.0531        | 0.0256        | 0.9710        | 0.4059        | 0.0104        |
| 25                       | 1,157.573               | 0.6632           | 84.5838        | 8.9736        | 3.6965        | 0.4391        | 0.7554        | 0.0735        | 0.0551        | 0.0272        | 0.9860        | 0.3993        | 0.0105        |
| 26                       | 1,157.388               | 0.6632           | 84.5678        | 8.9855        | 3.7144        | 0.4216        | 0.7403        | 0.0767        | 0.0585        | 0.0296        | 0.9930        | 0.4022        | 0.0104        |
| 27                       | 1,156.771               | 0.6632           | 84.5700        | 8.9795        | 3.7225        | 0.4033        | 0.7278        | 0.0771        | 0.0607        | 0.0331        | 0.9925        | 0.4227        | 0.0108        |
| 28                       | 1,161.312               | 0.6666           | 84.1558        | 9.1650        | 3.7988        | 0.4451        | 0.7859        | 0.0806        | 0.0621        | 0.0334        | 1.0312        | 0.4315        | 0.0106        |
| 29                       | 1,159.771               | 0.6655           | 84.3515        | 9.0142        | 3.7608        | 0.4517        | 0.7876        | 0.0784        | 0.0609        | 0.0333        | 1.0296        | 0.4215        | 0.0105        |
| 30                       | 1,159.215               | 0.6648           | 84.5028        | 8.8895        | 3.7676        | 0.4529        | 0.7936        | 0.0752        | 0.0589        | 0.0319        | 0.9901        | 0.4271        | 0.0105        |
| <b>Volume</b>            | <b>1,155.279</b>        | <b>0.6622</b>    | <b>84.6226</b> | <b>9.0181</b> | <b>3.6656</b> | <b>0.4053</b> | <b>0.7145</b> | <b>0.0702</b> | <b>0.0538</b> | <b>0.0262</b> | <b>0.9937</b> | <b>0.4196</b> | <b>0.0105</b> |
| <b>Weight Avg Energy</b> | <b>1,155.285</b>        | <b>0.6622</b>    | <b>84.6225</b> | <b>9.0184</b> | <b>3.6655</b> | <b>0.4053</b> | <b>0.7146</b> | <b>0.0702</b> | <b>0.0538</b> | <b>0.0262</b> | <b>0.9935</b> | <b>0.4196</b> | <b>0.0105</b> |

Watford City

Watford City West Border

Watford City East Border

Weighted

| Start Date | End Date   | BTU    |        |         | BTU    |        |         | AVG<br>BTU |            |
|------------|------------|--------|--------|---------|--------|--------|---------|------------|------------|
|            |            | MCF    | DK     | Zone 25 | MCF    | DK     | Zone 43 |            |            |
| 11/1/2020  | 11/2/2020  | 292    | 348    | 1.1928  | 339    | 389    | 1.1468  | 1.168      | 11/1/2020  |
| 11/2/2020  | 11/3/2020  | 225    | 268    | 1.1928  | 209    | 239    | 1.1468  | 1.171      | 11/2/2020  |
| 11/3/2020  | 11/4/2020  | 226    | 269    | 1.1928  | 240    | 275    | 1.1468  | 1.169      | 11/3/2020  |
| 11/4/2020  | 11/5/2020  | 225    | 269    | 1.1928  | 199    | 228    | 1.1468  | 1.171      | 11/4/2020  |
| 11/5/2020  | 11/6/2020  | 231    | 275    | 1.1928  | 203    | 233    | 1.1468  | 1.171      | 11/5/2020  |
| 11/6/2020  | 11/7/2020  | 287    | 342    | 1.1928  | 351    | 403    | 1.1468  | 1.167      | 11/6/2020  |
| 11/7/2020  | 11/8/2020  | 330    | 393    | 1.1928  | 471    | 540    | 1.1468  | 1.166      | 11/7/2020  |
| 11/8/2020  | 11/9/2020  | 421    | 503    | 1.1928  | 683    | 784    | 1.1468  | 1.164      | 11/8/2020  |
| 11/9/2020  | 11/10/2020 | 517    | 616    | 1.1928  | 851    | 976    | 1.1468  | 1.164      | 11/9/2020  |
| 11/10/2020 | 11/11/2020 | 382    | 456    | 1.1928  | 620    | 711    | 1.1468  | 1.164      | 11/10/2020 |
| 11/11/2020 | 11/12/2020 | 499    | 595    | 1.1928  | 865    | 992    | 1.1468  | 1.164      | 11/11/2020 |
| 11/12/2020 | 11/13/2020 | 426    | 508    | 1.1928  | 819    | 940    | 1.1468  | 1.163      | 11/12/2020 |
| 11/13/2020 | 11/14/2020 | 306    | 364    | 1.1928  | 529    | 607    | 1.1468  | 1.164      | 11/13/2020 |
| 11/14/2020 | 11/15/2020 | 361    | 431    | 1.1928  | 611    | 701    | 1.1468  | 1.164      | 11/14/2020 |
| 11/15/2020 | 11/16/2020 | 332    | 396    | 1.1928  | 558    | 640    | 1.1468  | 1.164      | 11/15/2020 |
| 11/16/2020 | 11/17/2020 | 365    | 436    | 1.1928  | 646    | 740    | 1.1468  | 1.163      | 11/16/2020 |
| 11/17/2020 | 11/18/2020 | 304    | 362    | 1.1928  | 459    | 526    | 1.1468  | 1.165      | 11/17/2020 |
| 11/18/2020 | 11/19/2020 | 299    | 356    | 1.1928  | 413    | 474    | 1.1468  | 1.166      | 11/18/2020 |
| 11/19/2020 | 11/20/2020 | 391    | 466    | 1.1928  | 666    | 764    | 1.1468  | 1.164      | 11/19/2020 |
| 11/20/2020 | 11/21/2020 | 412    | 491    | 1.1928  | 673    | 771    | 1.1468  | 1.164      | 11/20/2020 |
| 11/21/2020 | 11/22/2020 | 386    | 460    | 1.1928  | 589    | 676    | 1.1468  | 1.165      | 11/21/2020 |
| 11/22/2020 | 11/23/2020 | 368    | 439    | 1.1928  | 575    | 659    | 1.1468  | 1.165      | 11/22/2020 |
| 11/23/2020 | 11/24/2020 | 391    | 467    | 1.1928  | 643    | 737    | 1.1468  | 1.164      | 11/23/2020 |
| 11/24/2020 | 11/25/2020 | 410    | 489    | 1.1928  | 657    | 754    | 1.1468  | 1.164      | 11/24/2020 |
| 11/25/2020 | 11/26/2020 | 344    | 410    | 1.1928  | 487    | 558    | 1.1468  | 1.166      | 11/25/2020 |
| 11/26/2020 | 11/27/2020 | 396    | 473    | 1.1928  | 653    | 749    | 1.1468  | 1.164      | 11/26/2020 |
| 11/27/2020 | 11/28/2020 | 332    | 396    | 1.1928  | 459    | 526    | 1.1468  | 1.166      | 11/27/2020 |
| 11/28/2020 | 11/29/2020 | 377    | 449    | 1.1928  | 537    | 615    | 1.1468  | 1.166      | 11/28/2020 |
| 11/29/2020 | 11/30/2020 | 404    | 482    | 1.1928  | 640    | 734    | 1.1468  | 1.165      | 11/29/2020 |
| 11/30/2020 | 12/1/2020  | 351    | 418    | 1.1928  | 463    | 532    | 1.1468  | 1.167      | 11/30/2020 |
|            |            | 10,590 | 12,627 | 1.1928  | 16,108 | 18,473 | 1.1468  | 1.1656     |            |

| ROW ID | LOCATION DESCRIPTION | GROSS HEATING VALUE (BTU/CF) | SPECIFIC GRAVITY | WOBBE (calc) | CRICONDENTHERM (deg F) | NITROGEN (mole percent) | CARBON DIOXIDE (mole percent) | METHANE (mole percent) | ETHANE (mole percent) | PROPANE (mole percent) | NORMAL BUTANE (mole percent) | ISO BUTANE (mole percent) | PENTANE (mole percent) | ISO PENTANE (mole percent) | NEO PENTANE (mole percent) | HEXANES PLUS (mole percent) | HYDROGEN (mole percent) | HELIUM (mole percent) | PRODUCTION DATE | POSTING DATE | Changetimestamp       | NOTES |
|--------|----------------------|------------------------------|------------------|--------------|------------------------|-------------------------|-------------------------------|------------------------|-----------------------|------------------------|------------------------------|---------------------------|------------------------|----------------------------|----------------------------|-----------------------------|-------------------------|-----------------------|-----------------|--------------|-----------------------|-------|
| 11587  | GLEN ULLIN           | 1102.6                       | 0.6504           | 1367.2       | -46.1                  | 2.2692                  | 0.96                          | 81.4467                | 14.2144               | 0.8436                 | 0.0203                       | 0.013                     | 0.0001                 | 0.0002                     | N/A                        | 0                           | 0.2096                  | 0.023                 | 10/31/2020      | 11/1/2020    | 11/1/2020 4:18:53 PM  |       |
| 11587  | GLEN ULLIN           | 1105.2                       | 0.6522           | 1368.6       | -44.4                  | 2.2718                  | 0.9686                        | 81.1496                | 14.4044               | 0.9177                 | 0.0251                       | 0.0163                    | 0.0002                 | 0.0011                     | N/A                        | 0                           | 0.2222                  | 0.023                 | 11/1/2020       | 11/2/2020    | 11/2/2020 4:23:48 PM  |       |
| 11587  | GLEN ULLIN           | 1101.6                       | 0.6494           | 1367         | -46.3                  | 2.2586                  | 0.9492                        | 81.6343                | 13.9904               | 0.8774                 | 0.0221                       | 0.0141                    | 0                      | 0.0001                     | N/A                        | 0                           | 0.2311                  | 0.0229                | 11/2/2020       | 11/3/2020    | 11/3/2020 5:06:46 PM  |       |
| 11587  | GLEN ULLIN           | 1103.4                       | 0.6508           | 1367.7       | -45.3                  | 2.2832                  | 0.944                         | 81.4143                | 14.1489               | 0.9214                 | 0.0241                       | 0.0153                    | 0                      | 0                          | N/A                        | 0                           | 0.2257                  | 0.0232                | 11/3/2020       | 11/4/2020    | 11/4/2020 4:49:30 PM  |       |
| 11587  | GLEN ULLIN           | 1103                         | 0.6503           | 1367.8       | -46                    | 2.2671                  | 0.9399                        | 81.5254                | 14.1496               | 0.8758                 | 0.0207                       | 0.0137                    | 0                      | 0                          | N/A                        | 0                           | 0.1846                  | 0.0232                | 11/4/2020       | 11/5/2020    | 11/5/2020 4:49:38 PM  |       |
| 11587  | GLEN ULLIN           | 1109.4                       | 0.654            | 1371.8       | -43.3                  | 2.2292                  | 0.9447                        | 80.8386                | 14.8053               | 0.9334                 | 0.0229                       | 0.0147                    | 0                      | 0                          | N/A                        | 0                           | 0.1889                  | 0.0224                | 11/5/2020       | 11/6/2020    | 11/6/2020 4:29:20 PM  |       |
| 11587  | GLEN ULLIN           | 1109.4                       | 0.6544           | 1371.4       | -43.6                  | 2.248                   | 0.955                         | 80.7255                | 14.965                | 0.873                  | 0.0215                       | 0.0138                    | 0                      | 0                          | N/A                        | 0                           | 0.1755                  | 0.0229                | 11/6/2020       | 11/7/2020    | 11/7/2020 4:25:45 PM  |       |
| 11587  | GLEN ULLIN           | 1118.1                       | 0.6628           | 1373.4       | -38.6                  | 2.4865                  | 0.9738                        | 79.057                 | 16.225                | 0.9869                 | 0.0252                       | 0.0162                    | 0                      | 0.0002                     | N/A                        | 0                           | 0.2055                  | 0.0237                | 11/7/2020       | 11/8/2020    | 11/8/2020 4:18:42 PM  |       |
| 11587  | GLEN ULLIN           | 1119.8                       | 0.6649           | 1373.3       | -37.5                  | 2.5763                  | 0.982                         | 78.5578                | 16.577                | 1.0041                 | 0.0241                       | 0.0152                    | 0                      | 0                          | N/A                        | 0                           | 0.2396                  | 0.0238                | 11/8/2020       | 11/9/2020    | 11/9/2020 4:18:42 PM  |       |
| 11587  | GLEN ULLIN           | 1116.6                       | 0.6637           | 1370.6       | -38.4                  | 2.6375                  | 0.9914                        | 78.771                 | 16.2861               | 0.996                  | 0.0234                       | 0.0147                    | 0.0002                 | 0.0001                     | N/A                        | 0                           | 0.2551                  | 0.0245                | 11/9/2020       | 11/10/2020   | 11/10/2020 4:23:21 PM |       |
| 11587  | GLEN ULLIN           | 1107.9                       | 0.6548           | 1369.1       | -43.1                  | 2.3896                  | 0.9452                        | 80.588                 | 14.8355               | 0.9482                 | 0.0237                       | 0.0151                    | 0                      | 0.0001                     | N/A                        | 0                           | 0.2315                  | 0.0232                | 11/10/2020      | 11/11/2020   | 11/11/2020 4:31:04 PM |       |
| 11587  | GLEN ULLIN           | 1097.4                       | 0.6458           | 1365.6       | -48.6                  | 2.221                   | 0.9079                        | 82.4112                | 13.3413               | 0.8673                 | 0.0207                       | 0.0133                    | 0                      | 0                          | N/A                        | 0                           | 0.1946                  | 0.0226                | 11/11/2020      | 11/12/2020   | 11/12/2020 4:21:51 PM |       |
| 11587  | GLEN ULLIN           | 1097.7                       | 0.6448           | 1367         | -49.1                  | 2.1059                  | 0.9161                        | 82.6135                | 13.3097               | 0.8198                 | 0.0213                       | 0.0141                    | 0                      | 0.0001                     | N/A                        | 0                           | 0.177                   | 0.0226                | 11/12/2020      | 11/13/2020   | 11/13/2020 4:37:35 PM |       |
| 11587  | GLEN ULLIN           | 1106.9                       | 0.6517           | 1371.2       | -43.9                  | 2.1414                  | 0.9505                        | 81.4723                | 14.2647               | 0.9472                 | 0.03                         | 0.0211                    | 0.0009                 | 0.0014                     | N/A                        | 0.0008                      | 0.1473                  | 0.0226                | 11/13/2020      | 11/14/2020   | 11/14/2020 4:19:49 PM |       |
| 11587  | GLEN ULLIN           | 1106.6                       | 0.652            | 1370.5       | -44.8                  | 2.1868                  | 0.9516                        | 81.3237                | 14.4549               | 0.884                  | 0.0229                       | 0.0147                    | 0                      | 0.0003                     | N/A                        | 0                           | 0.1383                  | 0.0229                | 11/14/2020      | 11/15/2020   | 11/15/2020 4:19:25 PM |       |
| 11587  | GLEN ULLIN           | 1106.5                       | 0.6512           | 1371.2       | -45.4                  | 2.1334                  | 0.9413                        | 81.4744                | 14.4179               | 0.8513                 | 0.0212                       | 0.0139                    | 0                      | 0.0002                     | N/A                        | 0                           | 0.1237                  | 0.0228                | 11/15/2020      | 11/16/2020   | 11/16/2020 4:26:26 PM |       |
| 11587  | GLEN ULLIN           | 1107.4                       | 0.6523           | 1371.2       | -44.8                  | 2.179                   | 0.942                         | 81.2725                | 14.5423               | 0.8812                 | 0.0207                       | 0.0137                    | 0                      | 0                          | N/A                        | 0                           | 0.1258                  | 0.0228                | 11/16/2020      | 11/17/2020   | 11/17/2020 4:34:25 PM |       |
| 11587  | GLEN ULLIN           | 1105.7                       | 0.6502           | 1371.2       | -45.7                  | 2.1099                  | 0.9314                        | 81.7242                | 14.1881               | 0.8762                 | 0.0223                       | 0.0151                    | 0.0001                 | 0.0007                     | N/A                        | 0                           | 0.1097                  | 0.0224                | 11/17/2020      | 11/18/2020   | 11/18/2020 4:32:05 PM |       |
| 11587  | GLEN ULLIN           | 1109.6                       | 0.6534           | 1372.7       | -44                    | 2.1601                  | 0.9417                        | 81.1674                | 14.7012               | 0.8948                 | 0.0231                       | 0.0157                    | 0.0002                 | 0.0008                     | N/A                        | 0                           | 0.0721                  | 0.023                 | 11/18/2020      | 11/19/2020   | 11/19/2020 4:24:53 PM |       |
| 11587  | GLEN ULLIN           | 1117.7                       | 0.6594           | 1376.4       | -39.5                  | 2.1995                  | 0.9656                        | 80.1168                | 15.5479               | 1.0188                 | 0.0307                       | 0.02                      | 0.0011                 | 0.0015                     | N/A                        | 0.0008                      | 0.0748                  | 0.0227                | 11/19/2020      | 11/20/2020   | 11/20/2020 4:24:04 PM |       |
| 11587  | GLEN ULLIN           | 1129.6                       | 0.6703           | 1379.7       | -34.5                  | 2.5233                  | 0.9631                        | 77.8256                | 17.4506               | 1.0884                 | 0.0225                       | 0.0146                    | 0                      | 0                          | N/A                        | 0                           | 0.0876                  | 0.0245                | 11/20/2020      | 11/21/2020   | 11/21/2020 4:31:12 PM |       |
| 11587  | GLEN ULLIN           | 1124.8                       | 0.6662           | 1378.1       | -36.7                  | 2.42                    | 0.9625                        | 78.5895                | 16.8389               | 1.023                  | 0.0229                       | 0.015                     | 0                      | 0.0001                     | N/A                        | 0                           | 0.1045                  | 0.0236                | 11/21/2020      | 11/22/2020   | 11/22/2020 4:17:52 PM |       |
| 11587  | GLEN ULLIN           | 1123.4                       | 0.6653           | 1377.2       | -37.1                  | 2.41                    | 0.9705                        | 78.7363                | 16.6489               | 1.0362                 | 0.0232                       | 0.0149                    | 0                      | 0.0001                     | N/A                        | 0                           | 0.1364                  | 0.0236                | 11/22/2020      | 11/23/2020   | 11/23/2020 4:21:17 PM |       |
| 11587  | GLEN ULLIN           | 1123.4                       | 0.665            | 1377.6       | -37                    | 2.3821                  | 0.9702                        | 78.8031                | 16.5917               | 1.047                  | 0.0241                       | 0.0158                    | 0.0001                 | 0.0006                     | N/A                        | 0                           | 0.1422                  | 0.0231                | 11/23/2020      | 11/24/2020   | 11/24/2020 4:34:38 PM |       |
| 11587  | GLEN ULLIN           | 1116.9                       | 0.6595           | 1375.3       | -40.7                  | 2.2693                  | 0.9611                        | 79.7885                | 15.879                | 0.9087                 | 0.0193                       | 0.0125                    | 0                      | 0                          | N/A                        | 0                           | 0.1389                  | 0.0228                | 11/24/2020      | 11/25/2020   | 11/25/2020 4:22:59 PM |       |
| 11587  | GLEN ULLIN           | 1116                         | 0.6582           | 1375.5       | -41.5                  | 2.1948                  | 0.9641                        | 80.0512                | 15.7434               | 0.8633                 | 0.0197                       | 0.0126                    | 0                      | 0                          | N/A                        | 0                           | 0.1285                  | 0.0225                | 11/25/2020      | 11/26/2020   | 11/26/2020 4:28:32 PM |       |
| 11587  | GLEN ULLIN           | 1117.6                       | 0.6599           | 1375.8       | -40.4                  | 2.2447                  | 0.9701                        | 79.7608                | 15.9332               | 0.9089                 | 0.022                        | 0.0137                    | 0.0001                 | 0.0001                     | N/A                        | 0                           | 0.1238                  | 0.0228                | 11/26/2020      | 11/27/2020   | 11/27/2020 4:27:22 PM |       |
| 11587  | GLEN ULLIN           | 1120.2                       | 0.6621           | 1376.7       | -39.1                  | 2.304                   | 0.9687                        | 79.2797                | 16.3186               | 0.9308                 | 0.0209                       | 0.0133                    | 0                      | 0                          | N/A                        | 0                           | 0.1411                  | 0.023                 | 11/27/2020      | 11/28/2020   | 11/28/2020 4:18:43 PM |       |
| 11587  | GLEN ULLIN           | 1118.9                       | 0.6608           | 1376.4       | -39.7                  | 2.2351                  | 0.983                         | 79.5649                | 16.0859               | 0.9266                 | 0.0216                       | 0.0138                    | 0.0001                 | 0.0002                     | N/A                        | 0                           | 0.1463                  | 0.0226                | 11/28/2020      | 11/29/2020   | 11/29/2020 4:21:12 PM |       |
| 11587  | GLEN ULLIN           | 1118.9                       | 0.6613           | 1376         | -39.6                  | 2.2635                  | 0.9946                        | 79.4557                | 16.1582               | 0.923                  | 0.0206                       | 0.0134                    | 0                      | 0                          | N/A                        | 0                           | 0.148                   | 0.0231                | 11/29/2020      | 11/30/2020   | 11/30/2020 4:25:37 PM |       |
| 11587  | GLEN ULLIN           | 1117                         | 0.6595           | 1375.4       | -40.6                  | 2.2187                  | 0.9899                        | 79.844                 | 15.8568               | 0.9026                 | 0.0212                       | 0.0137                    | 0                      | 0                          | N/A                        | 0                           | 0.1304                  | 0.0229                | 11/30/2020      | 12/1/2020    | 12/1/2020 4:34:06 PM  |       |

31 record(s) retrieved

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

MONTANA DAKOTA UTILITIES CO  
NORTH DAKOTA  
HEATING VALUE DATA

| STATE | ZONE | ZONE BOUNDARY                              | 12 MONTH AVERAGE | NOV 20 | OCT 20 | SEPT 20 | AUG 20 | JULY 20 | JUNE 20 | MAY 20 | APR 20 | MAR 20 | FEB 20 | JAN 20 | DEC 19 | ZONE |
|-------|------|--|------------------|--------|--------|---------|--------|---------|---------|--------|--------|--------|--------|--------|--------|------|
| MT/ND | 211  | Sidney Border - MonDak Tfr - Sidney Plt    | 1198             | 1198   | 1200   | 1202    | 1196   | 1191    | 1169    | 1174   | 1202   | 1211   | 1215   | 1207   | 1209   | 211  |
| ND    | 24   | Williston Border - Charbonneau Station     | 1163             | 1167   | 1158   | 1157    | 1157   | 1153    | 1163    | 1159   | 1155   | 1169   | 1171   | 1172   | 1173   | 24   |
| ND    | 25   | Watford City West Border                   | 1193             | 1193   | 1193   | 1194    | 1191   | 1194    | 1161    | 1206   | 1188   | 1202   | 1204   | 1196   | 1192   | 25   |
| ND    | 28   | Bismarck Station - Glen Ullin Station      | 1152             | 1131   | 1152   | 1174    | 1195   | 1190    | 1186    | 1129   | 1149   | 1138   | 1126   | 1123   | 1128   | 28   |
| ND    | 31   | Dickinson Brd - Belfield Trf - G Ullin Str | 1119             | 1129   | 1136   | 1125    | 1104   | 1092    | 1085    | 1093   | 1150   | 1138   | 1126   | 1122   | 1128   | 31   |
| ND/MT | 32   | Cabin Creek Station - Belfield Transfer    | 1111             | 1123   | 1127   | 1134    | 1120   | 1115    | 1109    | 1109   | 1133   | 1103   | 1096   | 1093   | 1074   | 32   |
| ND    | 33   | Little Knife Plant                         | 1176             | 1172   | 1172   | 1174    | 1179   | 1183    | 1182    | 1179   | 1175   | 1173   | 1175   | 1174   | 1173   | 33   |
| ND    | 34   | Badlands Plant/Bowman Border               | 1045             | 1070   | 1060   | 1025    | 984    | 984     | 1036    | 1047   | 1046   | 1024   | 1073   | 1062   | 1110   | 34   |
| ND    | 43   | Watford City East Border 1/                | 1146             | 1147   | 1140   | 1139    | 1137   | 1142    | 1136    | 1151   | 1157   | 1152   | 1151   | 1154   | 1144   | 43   |
| ND/MT | 241  | Fairview Border                            | 1161             | 1203   | 1169   | 1157    | 1172   | 1153    | 1159    | 1164   | 1162   | 1195   | 1203   | 1209   | 1206   | 241  |
| ND    | 260  | North Tioga Transfer - Nesson Plant        | 1114             | 1134   | 1114   | 1131    | 1129   | 1116    | 1116    | 1099   | 1096   | 1132   | 1111   | 1069   | 1106   | 260  |
| ND    | 261  | Tioga Comp Station - Robinson Lake Plan    | 1170             | 1159   | 1164   | 1162    | 1172   | 1167    | 1177    | 1176   | 1179   | 1174   | 1173   | 1166   | 1166   | 261  |
| ND    | 262  | Minot Bdr - Palermo Bdr - Bismarck Stn     | 1166             | 1176   | 1162   | 1191    | 1195   | 1169    | 1192    | 1193   | 1190   | 1160   | 1160   | 1176   | 1164   | 262  |
| ND    | 263  | Lignite Plant                              | 1146             | 1137   | 1137   | 1149    | 1147   | 1143    | 1149    | 1146   | 1146   | 1160   | 1143   | 1145   | 1149   | 263  |
| ND    | 264  | Epping Border                              | 1157             | 1163   | 1156   | 1155    | 1147   | 1147    | 1153    | 1166   | 1147   | 1157   | 1165   | 1163   | 1162   | 264  |
| ND    | 265  | Tioga Comp Station - County Line Plant     | 1169             | 1159   | 1164   | 1163    | 1173   | 1166    | 1176    | 1156   | 1160   | 1174   | 1174   | 1166   | 1167   | 265  |
| ND    | 266  | County Line Plant                          | 1176             | 1165   | 1161   | 1190    | 1194   | 1191    | 1194    | 1166   | 1193   | 1164   | 1161   | 1162   | 1165   | 266  |
| ND    | 271  | Bismarck Station - Cleveland Station       | 1160             | 1174   | 1161   | 1191    | 1195   | 1190    | 1193    | 1190   | 1166   | 1169   | 1165   | 1159   | 1168   | 271  |
| ND    | 272  | Cleveland Station - Mapleton               | 1160             | 1173   | 1162   | 1191    | 1195   | 1190    | 1192    | 1169   | 1165   | 1169   | 1165   | 1159   | 1166   | 272  |
| ND    | 273  | Cleveland Station - Grafton Border         | 1160             | 1173   | 1161   | 1190    | 1194   | 1190    | 1192    | 1169   | 1164   | 1169   | 1165   | 1159   | 1166   | 273  |
| ND    | 550  | Mandan Border / NBPL-St Anthony            | 1147             | 1131   | 1152   | 1174    | 1190   | 1161    | 1166    | 1129   | 1149   | 1119   | 1117   | 1115   | 1121   | 550  |
| ND    | 610  | MDU-Watford City BTU                       | 1166             | 1166   | 1165   | 1170    | 1163   | 1163    | 1149    | 1162   | 1171   | 1169   | 1166   | 1166   | 1161   | 610  |
| ND    | 602  | NBPL - Linton                              | 1101             | 1113   | 1110   | 1120    | 1102   | 1086    | 1062    | 1086   | 1105   | 1102   | 1102   | 1102   | 1102   | 602  |
| ND    | 903  | Hettinger Propane                          | 2549             | 2549   | 2549   | 2549    | 2549   | 2549    | 2549    | 2549   | 2549   | 2549   | 2549   | 2549   | 2549   | 903  |
| ND    | 600  | Alliance Pipeline - Hankinson              | 1161             | 1155   | 1166   | 1166    | 1160   | 1156    | 1164    | 1158   | 1163   | 1164   | 1162   | 1160   | 1159   | 600  |
| ND    | 601  | Alliance Pipeline - Milnor                 | 1161             | 1155   | 1166   | 1167    | 1161   | 1156    | 1164    | 1157   | 1158   | 1164   | 1162   | 1160   | 1159   | 601  |

1/ Values for June 2020 forward reflect the BTU from the accumulated sampler and previous values were from the chromatograph

| <b>THERMAL ZONE VARIANCE<br/>DOCUMENTATION</b> |                                |                           |
|--|--------------------------------|---------------------------|
| <b>November 2020</b>                           |                                |                           |
| <b><i>ZONE</i></b>                             | <b><i>BTU<br/>VARIANCE</i></b> | <b><i>REASON</i></b>      |
| 28   | (21)                           | Operational - Maintenance |
| 260  | 20                             | Operational               |