



UTILITIES CO.
A Division of MDU Resources Group, Inc.

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

August 17, 2010

RECEIVED

AUG 18 2010

PUBLIC SERVICE COMMISSION

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

Re: Case No. 11,006 (Therm Billing)
Monthly Report – June 2010

Montana-Dakota Utilities Co., a Division of MDU Resources Group, Inc., herewith submits the following information, pursuant to the Ordering paragraphs one and two of the Order issued in the above-referenced docket, dated October 20, 1987:

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 July 2010.
2. Attachment B consists of copies of the monthly Heating Value Test Reports received from our supplier for the month of June 2010. There is a report for each of the 16 thermal zones for the month.
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 June.

Please acknowledge receipt by stamping or initialing the duplicate copy of this letter attached hereto and returning the same in the enclosed self-addressed, stamped envelope. Should the Commission or its Staff have any comments or questions with respect to these reports, please call me.

Sincerely,

Tamie Aberle
Pricing & Tariff Manager

MONTANA-DAKOTA UTILITIES CO.
Therm Billing Factor
JULY 2010

| Div Nbr | Off Code | City Name | Heat Zone Nbr | Therm Billing Factor |
|---------|----------|--------------|---------------|----------------------|
| 12 | 314 | APPLE VALLEY | 271 | 1.1444 |
| 12 | 327 | BISMARCK | 28 | 1.1444 |
| 12 | 343 | CARRINGTON | 273 | 1.1453 |
| 12 | 344 | CLEVELAND | 272 | 1.1373 |
| 12 | 364 | CAVALIER | 273 | 1.1694 |
| 12 | 365 | DAWSON | 271 | 1.1363 |
| 12 | 374 | FT TOTTEN | 273 | 1.1534 |
| 12 | 375 | DEVILS LAKE | 273 | 1.1534 |
| 12 | 379 | BARLOW | 273 | 1.1453 |
| 12 | 387 | ELDRIDGE | 272 | 1.1453 |
| 12 | 411 | GLEN ULLIN | 31 | .9946 |
| 12 | 417 | GRAFTON | 273 | 1.1775 |
| 12 | 439 | HANKINSON | 600 | 1.0719 |
| 12 | 449 | JAMESTOWN | 272 | 1.1534 |
| 12 | 463 | LANGDON | 273 | 1.1453 |
| 12 | 475 | LINTON | 802 | .9774 |
| 12 | 478 | LINCOLN | 28 | 1.1444 |
| 12 | 494 | MEDINA | 271 | 1.1363 |
| 12 | 498 | MANDAN | 28 | 1.1444 |
| 12 | 524 | NEW SALEM | 28 | 1.1202 |
| 12 | 532 | NEW ROCKFORD | 273 | 1.1453 |
| 12 | 539 | PARK RIVER | 273 | 1.1694 |
| 12 | 574 | SANBORN | 272 | 1.1534 |
| 12 | 593 | STEELE | 271 | 1.1363 |
| 12 | 598 | SHEYENNE | 273 | 1.1534 |
| 12 | 610 | TAPPEN | 271 | 1.1363 |
| 12 | 625 | VALLEY CITY | 272 | 1.1614 |
| 12 | 629 | WALHALLA | 273 | 1.1694 |
| 12 | 647 | WILTON | 262 | 1.1221 |
| 12 | 717 | SPIRITWOOD | 272 | 1.1534 |
| 12 | 718 | FAIRMOUNT | 600 | 1.0697 |
| 12 | 732 | MSR SITE | 273 | 1.1453 |
| 12 | 733 | PAR SITE | 273 | 1.1453 |
| 15 | 303 | ALEXANDER | 25 | 1.0711 |
| 15 | 308 | ARNEGARD | 25 | 1.0711 |

MONTANA-DAKOTA UTILITIES CO.
Therm Billing Factor
JULY 2010

| Div Nbr | Off Code | City Name | Heat Zone Nbr | Therm Billing Factor |
|---------|----------|----------------|---------------|----------------------|
| 15 | 318 | BEACH | 32 | .9638 |
| 15 | 319 | BELFIELD | 32 | .9709 |
| 15 | 323 | BERTHOLD | 262 | 1.1221 |
| 15 | 330 | BOWMAN | 34 | 1.0687 |
| 15 | 337 | BURLINGTON | 262 | 1.1463 |
| 15 | 368 | DES LACS | 262 | 1.1301 |
| 15 | 369 | DICKINSON | 31 | .9874 |
| 15 | 384 | EPPING | 264 | 1.1060 |
| 15 | 407 | GLADSTONE | 31 | .9874 |
| 15 | 413 | GOLVA | 32 | .9498 |
| 15 | 416 | GARRISON | 262 | 1.1301 |
| 15 | 429 | HEBRON | 31 | .9946 |
| 15 | 459 | KILLDEER | 33 | 1.1070 |
| 15 | 469 | LEFOR | 31 | .9874 |
| 15 | 474 | LIGNITE | 263 | 1.0502 |
| 15 | 500 | MARMARTH | 34 | 1.0766 |
| 15 | 505 | MINOT | 262 | 1.1463 |
| 15 | 510 | MOTT | 31 | .9874 |
| 15 | 512 | MAX | 262 | 1.1221 |
| 15 | 522 | NEW ENGLAND | 31 | .9802 |
| 15 | 540 | PALERMO | 262 | 1.1221 |
| 15 | 558 | RAY | 264 | 1.1060 |
| 15 | 561 | REGENT | 31 | .9874 |
| 15 | 563 | RHAME | 34 | 1.0608 |
| 15 | 564 | RICHARDTON | 31 | .9802 |
| 15 | 568 | ROSS | 261 | 1.0755 |
| 15 | 572 | RUTHVILLE | 262 | 1.1463 |
| 15 | 583 | SENTINEL BUTTE | 32 | .9638 |
| 15 | 588 | SOUTH HEART | 31 | .9802 |
| 15 | 590 | SPRINGBROOK | 264 | 1.1060 |
| 15 | 591 | STANLEY | 261 | 1.0833 |
| 15 | 605 | SURREY | 262 | 1.1463 |
| 15 | 611 | TAYLOR | 31 | .9802 |
| 15 | 616 | TIOGA | 261 | 1.0755 |
| 15 | 619 | TURTLE LAKE | 262 | 1.1301 |

MONTANA-DAKOTA UTILITIES CO.
Therm Billing Factor
JULY 2010

| Div Nbr | Off Code | City Name | Heat Zone Nbr | Therm Billing Factor |
|---------|----------|--------------|---------------|----------------------|
| 15 | 620 | TRENTON | 24 | 1.1140 |
| 15 | 624 | UNDERWOOD | 262 | 1.1301 |
| 15 | 632 | WATFORD CITY | 25 | 1.0711 |
| 15 | 636 | WHEELLOCK | 264 | 1.0980 |
| 15 | 637 | WHITE EARTH | 261 | 1.0833 |
| 15 | 642 | WILLISTON | 24 | 1.1140 |
| 15 | 646 | WASHBURN | 262 | 1.1382 |
| 15 | 664 | RIVERDALE | 262 | 1.1301 |
| 15 | 691 | FAIRVIEW | 24 | 1.1140 |
| 15 | 712 | MINOT AFB | 262 | 1.1463 |
| 15 | 743 | BAKER FIELD | 35 | .8980 |

* * * E N D O F R E P O R T * * *

GQ Source Daily Summary

June 2010

Number: 251

Pressure Base: 14.730

Contract Day: 1

Name: SIDNEY AREA

Temperature Base:

Contract Hour: 9

| Day | Relative Density | Heating Value Wet | Heating Value Dry | CO2 | N2 | C1 | C2 | C3 | IC4 | NC4 | IC5 | NC5 | C6 | C7 | C8 | C9 | C10 | Wobbe | CCT |
|-----|------------------|-------------------|-------------------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-----|
| 1 | 0.7372 | 1181.7 | 1202.6 | 1.168 | 4.109 | 68.416 | 21.381 | 4.616 | 0.102 | 0.188 | 0.010 | 0.008 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1400.66 | |
| 2 | 0.7389 | 1184.7 | 1205.6 | 1.157 | 4.101 | 68.281 | 21.310 | 4.853 | 0.099 | 0.181 | 0.010 | 0.008 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1402.57 | |
| 3 | 0.7377 | 1182.4 | 1203.3 | 1.163 | 4.122 | 68.377 | 21.332 | 4.710 | 0.098 | 0.179 | 0.010 | 0.008 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1400.97 | |
| 4 | 0.7386 | 1183.9 | 1204.8 | 1.164 | 4.108 | 68.320 | 21.290 | 4.823 | 0.097 | 0.179 | 0.010 | 0.008 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1401.94 | |
| 5 | 0.7398 | 1185.9 | 1206.9 | 1.166 | 4.096 | 68.227 | 21.247 | 4.967 | 0.098 | 0.180 | 0.010 | 0.008 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1403.15 | |
| 6 | 0.7397 | 1185.8 | 1206.8 | 1.164 | 4.098 | 68.202 | 21.303 | 4.931 | 0.099 | 0.183 | 0.010 | 0.008 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1403.17 | |
| 7 | 0.7381 | 1182.8 | 1203.7 | 1.159 | 4.140 | 68.380 | 21.235 | 4.783 | 0.100 | 0.185 | 0.010 | 0.008 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1401.09 | |
| 8 | 0.7355 | 1179.9 | 1200.8 | 1.126 | 4.126 | 68.679 | 21.191 | 4.561 | 0.104 | 0.194 | 0.010 | 0.008 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1400.09 | |
| 9 | 0.7348 | 1179.2 | 1200.1 | 1.104 | 4.136 | 68.688 | 21.310 | 4.445 | 0.105 | 0.193 | 0.011 | 0.009 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1399.95 | |
| 10 | 0.7338 | 1178.5 | 1199.4 | 1.063 | 4.144 | 68.870 | 21.143 | 4.463 | 0.105 | 0.192 | 0.010 | 0.008 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1400.09 | |
| 11 | 0.7319 | 1175.7 | 1196.5 | 1.063 | 4.142 | 69.072 | 21.135 | 4.265 | 0.107 | 0.197 | 0.011 | 0.009 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1398.52 | |
| 12 | 0.7348 | 1179.0 | 1199.9 | 1.117 | 4.120 | 68.739 | 21.247 | 4.453 | 0.107 | 0.197 | 0.011 | 0.009 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1399.82 | |
| 13 | 0.7390 | 1184.8 | 1205.8 | 1.164 | 4.091 | 68.331 | 21.229 | 4.861 | 0.106 | 0.196 | 0.011 | 0.009 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1402.62 | |
| 14 | 0.6832 | 1130.4 | 1150.4 | 0.193 | 3.649 | 75.721 | 18.144 | 2.192 | 0.038 | 0.056 | 0.002 | 0.002 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1391.43 | |
| 15 | 0.6594 | 1093.6 | 1113.0 | 0.064 | 3.858 | 79.478 | 15.190 | 1.372 | 0.017 | 0.020 | 0.001 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1370.23 | |
| 16 | 0.6944 | 1161.0 | 1181.6 | 0.032 | 3.085 | 73.065 | 21.793 | 1.957 | 0.027 | 0.036 | 0.001 | 0.002 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 1417.90 | |
| 17 | 0.7005 | 1171.3 | 1192.0 | 0.035 | 3.028 | 72.077 | 22.599 | 2.185 | 0.031 | 0.040 | 0.001 | 0.002 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1424.21 | |
| 18 | 0.6998 | 1168.6 | 1189.3 | 0.054 | 3.101 | 72.103 | 22.586 | 2.088 | 0.031 | 0.034 | 0.001 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1421.63 | |
| 19 | 0.6985 | 1166.5 | 1187.2 | 0.051 | 3.111 | 72.043 | 22.937 | 1.807 | 0.023 | 0.026 | 0.001 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1420.47 | |
| 20 | 0.7270 | 1185.6 | 1206.6 | 0.650 | 3.701 | 69.336 | 22.007 | 4.099 | 0.071 | 0.124 | 0.007 | 0.005 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1415.34 | |
| 21 | 0.6952 | 1158.3 | 1178.8 | 0.041 | 3.323 | 72.409 | 22.627 | 1.555 | 0.019 | 0.024 | 0.001 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1413.72 | |
| 22 | 0.7245 | 1177.5 | 1198.3 | 0.697 | 3.889 | 69.586 | 21.835 | 3.759 | 0.078 | 0.141 | 0.008 | 0.006 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1408.06 | |
| 23 | 0.7430 | 1192.0 | 1213.1 | 1.127 | 4.080 | 68.047 | 21.035 | 5.356 | 0.116 | 0.216 | 0.012 | 0.010 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1407.33 | |
| 24 | 0.7443 | 1193.0 | 1214.2 | 1.169 | 4.072 | 67.935 | 21.024 | 5.431 | 0.117 | 0.223 | 0.014 | 0.013 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 1407.37 | |
| 25 | 0.7426 | 1190.4 | 1211.4 | 1.170 | 4.081 | 68.076 | 21.002 | 5.356 | 0.104 | 0.190 | 0.011 | 0.009 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1405.77 | |
| 26 | 0.7386 | 1183.4 | 1204.4 | 1.173 | 4.119 | 68.538 | 20.874 | 4.969 | 0.107 | 0.198 | 0.011 | 0.009 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1401.43 | |
| 27 | 0.7371 | 1181.0 | 1201.9 | 1.171 | 4.132 | 68.671 | 20.907 | 4.789 | 0.108 | 0.201 | 0.011 | 0.009 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1399.94 | |
| 28 | 0.7417 | 1189.0 | 1210.0 | 1.169 | 4.083 | 68.111 | 21.129 | 5.180 | 0.107 | 0.199 | 0.011 | 0.009 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1404.99 | |
| 29 | 0.7450 | 1194.4 | 1215.5 | 1.165 | 4.064 | 67.796 | 21.111 | 5.544 | 0.107 | 0.192 | 0.011 | 0.009 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1408.27 | |
| 30 | 0.7441 | 1192.9 | 1214.0 | 1.162 | 4.072 | 67.891 | 21.095 | 5.460 | 0.105 | 0.193 | 0.011 | 0.009 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1407.42 | |
| Avg | 0.7266 | 1176.0 | 1197.3 | 0.863 | 3.899 | 69.716 | 21.142 | 4.128 | 0.084 | 0.152 | 0.008 | 0.007 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1404.67 | |

Zone 211

GQ Source Analysis

| | | | |
|----------------------------|----------------------|------------------------------|---------|
| GQ Source Number: | 0602330 | Specific Gravity: | 0.6940 |
| GQ Source Name: | WILLISTON BORDER | BTU Base: | Dry |
| Effective Date: | 6/1/2010 9:00:00 AM | Measured Heat Value: | 1173.73 |
| Effective End Date: | 1/18/2038 9:14:07 PM | Dry Heat Value: | 1171.05 |
| Pressure Base: | 14.730 | Wet Heat Value: | 1150.67 |
| Viscosity: | | As Deliv. Heat Value: | 1171.05 |

| | | Mol % | GPM | | | Mol % |
|-----|-------------|--------|-------|-----|------------------|-------|
| C1 | Methane | 75.078 | | CO2 | Carbon Dioxide | 0.689 |
| C2 | Ethane | 18.325 | 4.886 | N2 | Nitrogen | 2.632 |
| C3 | Propane | 2.970 | 0.816 | O2 | Oxygen | 0.000 |
| IC4 | Iso-Butane | 0.102 | 0.033 | HE | Helium | |
| NC4 | N-Butane | 0.184 | 0.058 | H2 | Hydrogen | |
| IC5 | Iso-Pentane | 0.009 | 0.003 | H2S | Hydrogen Sulfide | |
| NC5 | N-Pentane | 0.009 | 0.003 | AR | Argon | |
| C6 | Hexane | 0.000 | 0.000 | CO | Carbon Monoxide | |
| C7 | Heptane | | | H2O | Water | |
| C8 | Octane | | | | | |
| C9 | Nonane | | | | | |
| C10 | Decane | | | | | |

| | | |
|---------------|----------|-----------|
| Totals | 99.999 % | 5.800 GPM |
|---------------|----------|-----------|

Sample Date: 6/30/2010 12:00:00 AM
Sample Type: Composite
Sample Tech: sampler
Sample Remarks:

Analysis Remarks:

Zone 24, 264

GQ Source Analysis

| | | | |
|----------------------------|----------------------|------------------------------|---------|
| GQ Source Number: | 0602230 | Specific Gravity: | 0.7293 |
| GQ Source Name: | WATFORD CITY BORDER | BTU Base: | Dry |
| Effective Date: | 6/1/2010 9:00:00 AM | Measured Heat Value: | 1136.24 |
| Effective End Date: | 1/18/2038 9:14:07 PM | Dry Heat Value: | 1133.56 |
| Pressure Base: | 14.730 | Wet Heat Value: | 1113.83 |
| Viscosity: | | As Deliv. Heat Value: | 1133.56 |

| | | <u>Mol %</u> | <u>GPM</u> | | | <u>Mol %</u> |
|---------------|-------------|--------------|------------|-----|------------------|--------------|
| C1 | Methane | 68.615 | | CO2 | Carbon Dioxide | 0.719 |
| C2 | Ethane | 17.982 | 4.795 | N2 | Nitrogen | 8.162 |
| C3 | Propane | 3.897 | 1.070 | O2 | Oxygen | 0.000 |
| IC4 | Iso-Butane | 0.199 | 0.065 | HE | Helium | |
| NC4 | N-Butane | 0.362 | 0.114 | H2 | Hydrogen | |
| IC5 | Iso-Pentane | 0.028 | 0.010 | H2S | Hydrogen Sulfide | |
| NC5 | N-Pentane | 0.028 | 0.010 | AR | Argon | |
| C6 | Hexane | 0.007 | 0.003 | CO | Carbon Monoxide | |
| C7 | Heptane | | | H2O | Water | |
| C8 | Octane | | | | | |
| C9 | Nonane | | | | | |
| C10 | Decane | | | | | |
| Totals | | | 99.998% | | 6.067 GPM | |

Sample Date: 6/30/2010 12:00:00 AM
Sample Type: Composite
Sample Tech: sampler
Sample Remarks:

Analysis Remarks:

Zone 25

GQ Source Daily Summary

June 2010

Number: 163

Pressure Base: 14.730

Contract Day: 1

Name: NORTH TIOGA-MINOT

Temperature Base:

Contract Hour: 9

| Day | Relative Density | Heating Value Wet | Heating Value Dry | CO2 | N2 | C1 | C2 | C3 | IC4 | NC4 | IC5 | NC5 | C6 | C7 | C8 | C9 | C10 | Wobbe | CCT |
|-----|------------------|-------------------|-------------------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|----|----|----|-----|---------|-----|
| 1 | 0.6759 | 1118.0 | 1137.8 | 0.394 | 3.415 | 76.787 | 17.892 | 1.318 | 0.051 | 0.113 | 0.008 | 0.009 | 0.013 | | | | | | |
| 2 | 0.6720 | 1110.8 | 1130.5 | 0.330 | 3.589 | 77.154 | 17.714 | 1.056 | 0.039 | 0.089 | 0.006 | 0.007 | 0.014 | | | | | 1383.97 | |
| 3 | 0.6724 | 1112.3 | 1132.0 | 0.350 | 3.506 | 77.042 | 17.928 | 1.038 | 0.036 | 0.078 | 0.005 | 0.005 | 0.012 | | | | | 1378.99 | |
| 4 | 0.6752 | 1117.2 | 1136.9 | 0.373 | 3.430 | 76.706 | 18.133 | 1.218 | 0.038 | 0.080 | 0.005 | 0.005 | 0.012 | | | | | 1380.43 | |
| 5 | 0.6780 | 1121.2 | 1141.0 | 0.347 | 3.494 | 76.183 | 18.528 | 1.300 | 0.038 | 0.084 | 0.006 | 0.007 | 0.012 | | | | | 1383.68 | |
| 6 | 0.6756 | 1115.4 | 1135.2 | 0.350 | 3.610 | 76.504 | 18.224 | 1.189 | 0.032 | 0.069 | 0.004 | 0.005 | 0.012 | | | | | 1385.71 | |
| 7 | 0.6978 | 1148.4 | 1168.8 | 0.609 | 3.286 | 73.618 | 19.989 | 2.229 | 0.072 | 0.157 | 0.012 | 0.014 | 0.014 | | | | | 1381.10 | |
| 8 | 0.7050 | 1159.4 | 1179.9 | 0.639 | 3.254 | 72.367 | 21.041 | 2.433 | 0.073 | 0.159 | 0.011 | 0.013 | 0.011 | | | | | 1399.16 | |
| 9 | 0.7084 | 1166.4 | 1187.0 | 0.581 | 3.232 | 72.116 | 20.970 | 2.750 | 0.094 | 0.212 | 0.016 | 0.018 | 0.011 | | | | | 1405.23 | |
| 10 | 0.7243 | 1191.6 | 1212.7 | 0.371 | 3.476 | 72.670 | 17.719 | 4.336 | 0.339 | 0.785 | 0.116 | 0.135 | 0.053 | | | | | 1410.30 | |
| 11 | 0.6804 | 1120.4 | 1140.3 | 0.260 | 3.890 | 76.646 | 17.160 | 1.565 | 0.090 | 0.230 | 0.042 | 0.056 | 0.059 | | | | | 1424.94 | |
| 12 | 0.6683 | 1101.6 | 1121.1 | 0.225 | 3.957 | 77.788 | 16.831 | 1.019 | 0.040 | 0.099 | 0.009 | 0.011 | 0.021 | | | | | 1382.33 | |
| 13 | 0.6653 | 1094.9 | 1114.3 | 0.214 | 4.095 | 78.247 | 16.340 | 0.947 | 0.036 | 0.086 | 0.008 | 0.010 | 0.017 | | | | | 1371.43 | |
| 14 | 0.6859 | 1129.2 | 1149.2 | 0.458 | 3.565 | 75.501 | 18.281 | 1.974 | 0.064 | 0.129 | 0.009 | 0.010 | 0.010 | | | | | 1366.22 | |
| 15 | 0.6754 | 1110.0 | 1129.6 | 0.359 | 3.908 | 77.256 | 16.442 | 1.871 | 0.052 | 0.095 | 0.006 | 0.005 | 0.006 | | | | | 1387.67 | |
| 16 | 0.6704 | 1109.5 | 1129.2 | 0.303 | 3.546 | 77.674 | 17.056 | 1.268 | 0.041 | 0.089 | 0.006 | 0.007 | 0.010 | | | | | 1374.52 | |
| 17 | 0.6695 | 1109.1 | 1128.8 | 0.295 | 3.505 | 77.382 | 17.800 | 0.928 | 0.024 | 0.051 | 0.003 | 0.003 | 0.009 | | | | | 1379.17 | |
| 18 | 0.6778 | 1120.9 | 1140.7 | 0.389 | 3.423 | 76.343 | 18.358 | 1.324 | 0.043 | 0.094 | 0.008 | 0.009 | 0.010 | | | | | 1379.55 | |
| 19 | 0.6780 | 1121.7 | 1141.6 | 0.335 | 3.475 | 76.129 | 18.668 | 1.238 | 0.040 | 0.091 | 0.006 | 0.007 | 0.010 | | | | | 1385.63 | |
| 20 | 0.6705 | 1108.5 | 1128.1 | 0.255 | 3.704 | 77.364 | 17.441 | 1.102 | 0.034 | 0.076 | 0.005 | 0.006 | 0.012 | | | | | 1386.45 | |
| 21 | 0.6741 | 1114.2 | 1133.9 | 0.273 | 3.661 | 76.831 | 17.834 | 1.258 | 0.038 | 0.082 | 0.005 | 0.006 | 0.011 | | | | | 1377.64 | |
| 22 | 0.6808 | 1126.2 | 1146.1 | 0.370 | 3.415 | 75.928 | 18.596 | 1.506 | 0.049 | 0.109 | 0.008 | 0.009 | 0.011 | | | | | 1381.11 | |
| 23 | 0.6779 | 1122.2 | 1142.0 | 0.357 | 3.400 | 76.416 | 18.221 | 1.441 | 0.046 | 0.097 | 0.006 | 0.007 | 0.010 | | | | | 1389.04 | |
| 24 | 0.6802 | 1125.4 | 1145.3 | 0.326 | 3.468 | 76.048 | 18.428 | 1.541 | 0.049 | 0.110 | 0.007 | 0.008 | 0.013 | | | | | 1387.13 | |
| 25 | 0.6912 | 1142.1 | 1162.4 | 0.411 | 3.350 | 74.671 | 19.152 | 2.160 | 0.069 | 0.150 | 0.011 | 0.013 | 0.013 | | | | | 1388.73 | |
| 26 | 0.6871 | 1136.5 | 1156.6 | 0.405 | 3.323 | 75.297 | 18.716 | 2.027 | 0.065 | 0.137 | 0.009 | 0.010 | 0.009 | | | | | 1398.12 | |
| 27 | 0.6875 | 1136.4 | 1156.5 | 0.401 | 3.371 | 75.089 | 18.995 | 1.917 | 0.063 | 0.134 | 0.009 | 0.010 | 0.010 | | | | | 1395.29 | |
| 28 | 0.6881 | 1138.2 | 1158.3 | 0.407 | 3.307 | 75.066 | 19.010 | 1.973 | 0.065 | 0.141 | 0.010 | 0.011 | 0.010 | | | | | 1394.80 | |
| 29 | 0.6827 | 1126.0 | 1145.9 | 0.370 | 3.606 | 75.782 | 18.290 | 1.750 | 0.057 | 0.121 | 0.008 | 0.009 | 0.009 | | | | | 1396.41 | |
| 30 | 0.6827 | 1126.0 | 1145.9 | 0.370 | 3.606 | 75.782 | 18.290 | 1.750 | 0.057 | 0.121 | 0.008 | 0.009 | 0.009 | | | | | 1386.84 | |
| Avg | 0.6823 | 1127.0 | 1146.5 | 0.372 | 3.526 | 75.909 | 18.283 | 1.667 | 0.063 | 0.139 | 0.013 | 0.015 | 0.015 | | | | | 1387.95 | |

Zone 261

GQ Source Daily Summary

June 2010

Number: 091

Pressure Base: 14.730

Contract Day: 1

Name: MINOT

Temperature Base:

Contract Hour: 9

| Day | Relative Density | Heating Value Wet | Heating Value Dry | Heating Value Dry | | | | | | | | | | | | | | | | Wobbe | CCT |
|-----|------------------|-------------------|-------------------|-------------------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|--|-------|-----|
| | | | | CO2 | N2 | C1 | C2 | C3 | IC4 | NC4 | IC5 | NC5 | C6 | C7 | C8 | C9 | C10 | | | | |
| 1 | 0.7474 | 1198.7 | 1219.9 | 0.547 | 4.958 | 67.885 | 20.842 | 4.392 | 0.281 | 0.785 | 0.096 | 0.123 | 0.092 | 0.000 | 0.000 | 0.000 | 0.000 | 1411.04 | | | |
| 2 | 0.7277 | 1165.8 | 1186.5 | 0.535 | 5.138 | 69.538 | 20.300 | 3.881 | 0.158 | 0.360 | 0.029 | 0.037 | 0.023 | 0.000 | 0.000 | 0.000 | 0.000 | 1390.87 | | | |
| 3 | 0.7258 | 1163.9 | 1184.5 | 0.542 | 5.072 | 70.002 | 19.821 | 3.934 | 0.170 | 0.385 | 0.026 | 0.031 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 1390.32 | | | |
| 4 | 0.7290 | 1167.0 | 1187.7 | 0.531 | 5.191 | 69.544 | 20.010 | 4.050 | 0.181 | 0.418 | 0.029 | 0.032 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 1391.04 | | | |
| 5 | 0.7306 | 1170.0 | 1190.7 | 0.545 | 5.146 | 69.214 | 20.310 | 4.154 | 0.177 | 0.395 | 0.023 | 0.025 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 1393.00 | | | |
| 6 | 0.7266 | 1165.2 | 1185.8 | 0.534 | 5.076 | 69.715 | 20.140 | 3.968 | 0.162 | 0.355 | 0.020 | 0.021 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1391.16 | | | |
| 7 | 0.7300 | 1170.3 | 1191.0 | 0.552 | 5.058 | 69.321 | 20.290 | 4.180 | 0.171 | 0.376 | 0.021 | 0.023 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1393.97 | | | |
| 8 | 0.7311 | 1170.5 | 1191.2 | 0.541 | 5.166 | 69.156 | 20.292 | 4.225 | 0.174 | 0.388 | 0.023 | 0.025 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1393.12 | | | |
| 9 | 0.7382 | 1179.3 | 1200.2 | 0.554 | 5.272 | 68.338 | 20.500 | 4.592 | 0.203 | 0.466 | 0.030 | 0.033 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 | 1396.89 | | | |
| 10 | 0.7503 | 1188.3 | 1209.3 | 0.663 | 5.696 | 66.588 | 21.055 | 5.227 | 0.219 | 0.483 | 0.029 | 0.031 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1396.10 | | | |
| 11 | 0.7451 | 1180.8 | 1201.7 | 0.639 | 5.702 | 67.548 | 20.211 | 5.104 | 0.224 | 0.498 | 0.031 | 0.033 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1392.08 | | | |
| 12 | 0.7583 | 1207.3 | 1228.6 | 0.485 | 5.541 | 67.294 | 19.168 | 5.974 | 0.388 | 0.898 | 0.102 | 0.113 | 0.037 | 0.000 | 0.000 | 0.000 | 0.000 | 1410.90 | | | |
| 13 | 0.7375 | 1173.1 | 1193.9 | 0.515 | 5.635 | 68.935 | 19.367 | 4.598 | 0.230 | 0.549 | 0.055 | 0.067 | 0.048 | 0.000 | 0.000 | 0.000 | 0.000 | 1390.25 | | | |
| 14 | 0.7349 | 1168.1 | 1188.8 | 0.507 | 5.712 | 69.230 | 19.080 | 4.576 | 0.229 | 0.553 | 0.043 | 0.049 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 1386.69 | | | |
| 15 | 0.7277 | 1156.1 | 1176.5 | 0.493 | 5.794 | 70.168 | 18.477 | 4.257 | 0.210 | 0.504 | 0.038 | 0.043 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 1379.20 | | | |
| 16 | 0.7002 | 1136.9 | 1157.0 | 0.481 | 4.409 | 73.421 | 18.700 | 2.604 | 0.104 | 0.239 | 0.016 | 0.019 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 1382.72 | | | |
| 17 | 0.7014 | 1143.5 | 1163.7 | 0.522 | 4.062 | 73.057 | 19.482 | 2.578 | 0.086 | 0.184 | 0.011 | 0.013 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 1389.48 | | | |
| 18 | 0.7198 | 1154.1 | 1174.5 | 0.498 | 5.170 | 70.719 | 19.357 | 3.738 | 0.149 | 0.326 | 0.019 | 0.020 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 1384.41 | | | |
| 19 | 0.7211 | 1152.9 | 1173.3 | 0.498 | 5.366 | 70.303 | 19.653 | 3.699 | 0.140 | 0.303 | 0.016 | 0.017 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.69 | | | |
| 20 | 0.7251 | 1159.5 | 1180.0 | 0.535 | 5.287 | 69.919 | 19.797 | 3.885 | 0.163 | 0.366 | 0.021 | 0.022 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 1385.72 | | | |
| 21 | 0.7245 | 1159.1 | 1179.6 | 0.533 | 5.253 | 70.264 | 19.353 | 3.958 | 0.175 | 0.402 | 0.026 | 0.028 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1385.83 | | | |
| 22 | 0.7285 | 1163.3 | 1183.9 | 0.526 | 5.374 | 69.786 | 19.441 | 4.162 | 0.192 | 0.447 | 0.030 | 0.032 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1387.16 | | | |
| 23 | 0.7270 | 1158.8 | 1179.3 | 0.494 | 5.560 | 69.943 | 19.175 | 4.153 | 0.186 | 0.425 | 0.027 | 0.028 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.15 | | | |
| 24 | 0.7282 | 1164.6 | 1185.2 | 0.504 | 5.303 | 69.558 | 19.914 | 4.114 | 0.170 | 0.382 | 0.023 | 0.024 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 1388.96 | | | |
| 25 | 0.7292 | 1169.4 | 1190.1 | 0.512 | 5.092 | 69.497 | 20.161 | 4.066 | 0.181 | 0.421 | 0.029 | 0.032 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 1393.73 | | | |
| 26 | 0.7285 | 1167.5 | 1188.2 | 0.536 | 5.109 | 69.549 | 20.103 | 4.085 | 0.173 | 0.389 | 0.023 | 0.025 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 1392.08 | | | |
| 27 | 0.7282 | 1165.3 | 1185.9 | 0.533 | 5.221 | 69.404 | 20.244 | 4.053 | 0.158 | 0.343 | 0.019 | 0.020 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 1389.73 | | | |
| 28 | 0.7291 | 1167.8 | 1188.5 | 0.555 | 5.119 | 69.427 | 20.154 | 4.172 | 0.165 | 0.359 | 0.021 | 0.022 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 1391.90 | | | |
| 29 | 0.7244 | 1163.2 | 1183.8 | 0.548 | 4.969 | 69.937 | 20.175 | 3.883 | 0.143 | 0.306 | 0.017 | 0.018 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 1390.93 | | | |
| 30 | 0.7255 | 1163.0 | 1183.6 | 0.543 | 5.094 | 69.936 | 19.898 | 3.960 | 0.162 | 0.358 | 0.021 | 0.022 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 1389.58 | | | |
| Avg | 0.7294 | 1167.0 | 1187.8 | 0.533 | 5.218 | 69.573 | 19.849 | 4.141 | 0.184 | 0.422 | 0.031 | 0.034 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 1390.79 | | | |

Zone 262

GQ Source Analysis

| | | | |
|----------------------------|----------------------|------------------------------|---------|
| GQ Source Number: | 2501030 | Specific Gravity: | 0.6479 |
| GQ Source Name: | LIGNITE PLANT | BTU Base: | Dry |
| Effective Date: | 6/1/2010 9:00:00 AM | Measured Heat Value: | 1105.59 |
| Effective End Date: | 1/18/2038 9:14:07 PM | Dry Heat Value: | 1104.26 |
| Pressure Base: | 14.730 | Wet Heat Value: | 1085.04 |
| Viscosity: | | As Deliv. Heat Value: | 1104.26 |

| | | <u>Mol %</u> | <u>GPM</u> | | | <u>Mol %</u> |
|---------------|-------------|--------------|------------|-----|------------------|--------------|
| C1 | Methane | 80.982 | | CO2 | Carbon Dioxide | 0.143 |
| C2 | Ethane | 15.321 | 0.000 | N2 | Nitrogen | 3.146 |
| C3 | Propane | 0.355 | 0.097 | O2 | Oxygen | 0.000 |
| IC4 | Iso-Butane | 0.001 | 0.000 | HE | Helium | |
| NC4 | N-Butane | 0.002 | 0.000 | H2 | Hydrogen | |
| IC5 | Iso-Pentane | 0.001 | 0.000 | H2S | Hydrogen Sulfide | |
| NC5 | N-Pentane | 0.001 | 0.000 | AR | Argon | |
| C6 | Hexane | 0.041 | 0.019 | CO | Carbon Monoxide | |
| C7 | Heptane | | | H2O | Water | |
| C8 | Octane | | | | | |
| C9 | Nonane | | | | | |
| C10 | Decane | | | | | |
| Totals | | | 99.992% | | 0.118 GPM | |

Sample Date: 6/30/2010 12:00:00 AM
Sample Type: Composite
Sample Tech: sampler
Sample Remarks:

Analysis Remarks:

*** End of Report ***

Zone 263

GQ Source Daily Summary

June 2010

Number: 043

Pressure Base: 14,730

Contract Day: 1

Name: BISMARCK-CLEVELAND

Temperature Base:

Contract Hour: 9

| Day | Relative Density | Heating Value Wet | Heating Value Dry | CO2 | N2 | C1 | C2 | C3 | IC4 | NC4 | IC5 | NCS | C6 | C7 | C8 | C9 | C10 | Wobbe | CCT |
|-----|------------------|-------------------|-------------------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-----|
| 1 | 0.7251 | 1162.5 | 1183.1 | 0.539 | 5.101 | 69.971 | 19.973 | 3.834 | 0.155 | 0.348 | 0.021 | 0.023 | 0.035 | 0.000 | 0.000 | 0.000 | 0.000 | 1389.29 | |
| 2 | 0.7254 | 1163.2 | 1183.8 | 0.564 | 5.043 | 70.145 | 19.661 | 3.960 | 0.168 | 0.386 | 0.025 | 0.027 | 0.021 | 0.000 | 0.000 | 0.000 | 0.000 | 1389.88 | |
| 3 | 0.7284 | 1166.0 | 1186.6 | 0.542 | 5.187 | 69.648 | 19.923 | 4.037 | 0.175 | 0.411 | 0.027 | 0.029 | 0.022 | 0.000 | 0.000 | 0.000 | 0.000 | 1390.37 | |
| 4 | 0.7273 | 1165.9 | 1186.5 | 0.545 | 5.091 | 69.694 | 20.063 | 4.013 | 0.165 | 0.370 | 0.021 | 0.022 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 1391.25 | |
| 5 | 0.7283 | 1168.4 | 1189.0 | 0.561 | 5.008 | 69.626 | 20.111 | 4.083 | 0.167 | 0.381 | 0.022 | 0.023 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 1393.26 | |
| 6 | 0.7312 | 1170.7 | 1191.5 | 0.549 | 5.151 | 69.242 | 20.175 | 4.232 | 0.176 | 0.404 | 0.025 | 0.027 | 0.019 | 0.000 | 0.000 | 0.000 | 0.000 | 1393.35 | |
| 7 | 0.7379 | 1179.0 | 1199.9 | 0.557 | 5.259 | 68.386 | 20.487 | 4.576 | 0.197 | 0.460 | 0.028 | 0.030 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 1396.85 | |
| 8 | 0.7448 | 1186.3 | 1207.3 | 0.660 | 5.302 | 67.445 | 20.941 | 4.898 | 0.203 | 0.467 | 0.029 | 0.032 | 0.022 | 0.000 | 0.000 | 0.000 | 0.000 | 1399.00 | |
| 9 | 0.7520 | 1192.4 | 1213.5 | 0.681 | 5.577 | 66.367 | 21.301 | 5.301 | 0.215 | 0.485 | 0.028 | 0.029 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 1399.39 | |
| 10 | 0.7521 | 1187.8 | 1208.8 | 0.668 | 5.889 | 66.474 | 20.806 | 5.313 | 0.228 | 0.530 | 0.034 | 0.037 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 1393.84 | |
| 11 | 0.7511 | 1195.1 | 1216.3 | 0.554 | 5.512 | 67.753 | 19.390 | 5.538 | 0.317 | 0.751 | 0.074 | 0.082 | 0.028 | 0.000 | 0.000 | 0.000 | 0.000 | 1403.34 | |
| 12 | 0.7365 | 1172.6 | 1193.3 | 0.527 | 5.559 | 69.087 | 19.330 | 4.569 | 0.224 | 0.549 | 0.050 | 0.059 | 0.046 | 0.000 | 0.000 | 0.000 | 0.000 | 1390.51 | |
| 13 | 0.7319 | 1162.9 | 1183.5 | 0.513 | 5.735 | 69.750 | 18.650 | 4.463 | 0.221 | 0.548 | 0.042 | 0.047 | 0.030 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.46 | |
| 14 | 0.7134 | 1143.8 | 1164.0 | 0.483 | 5.225 | 72.017 | 18.184 | 3.457 | 0.159 | 0.389 | 0.029 | 0.033 | 0.025 | 0.000 | 0.000 | 0.000 | 0.000 | 1378.20 | |
| 15 | 0.7029 | 1144.7 | 1165.0 | 0.510 | 4.147 | 72.887 | 19.445 | 2.710 | 0.085 | 0.178 | 0.011 | 0.011 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 1389.52 | |
| 16 | 0.6996 | 1129.8 | 1149.8 | 0.477 | 4.790 | 73.903 | 17.437 | 3.010 | 0.109 | 0.234 | 0.013 | 0.013 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 | 1374.70 | |
| 17 | 0.7253 | 1158.9 | 1179.5 | 0.533 | 5.336 | 69.818 | 19.885 | 3.893 | 0.149 | 0.333 | 0.019 | 0.019 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 | 1384.96 | |
| 18 | 0.7244 | 1157.5 | 1178.0 | 0.529 | 5.347 | 70.065 | 19.609 | 3.877 | 0.157 | 0.360 | 0.021 | 0.022 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 1384.11 | |
| 19 | 0.7249 | 1159.5 | 1180.0 | 0.548 | 5.243 | 70.344 | 19.191 | 4.000 | 0.178 | 0.420 | 0.027 | 0.030 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 1385.95 | |
| 20 | 0.7286 | 1163.4 | 1184.0 | 0.528 | 5.383 | 69.904 | 19.244 | 4.186 | 0.194 | 0.471 | 0.033 | 0.036 | 0.023 | 0.000 | 0.000 | 0.000 | 0.000 | 1387.10 | |
| 21 | 0.7246 | 1155.4 | 1175.8 | 0.502 | 5.532 | 70.442 | 18.750 | 4.081 | 0.182 | 0.432 | 0.028 | 0.030 | 0.022 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.36 | |
| 22 | 0.7276 | 1164.4 | 1185.1 | 0.513 | 5.253 | 69.765 | 19.747 | 4.073 | 0.173 | 0.404 | 0.026 | 0.028 | 0.019 | 0.000 | 0.000 | 0.000 | 0.000 | 1389.27 | |
| 23 | 0.7276 | 1167.3 | 1187.9 | 0.545 | 5.034 | 69.783 | 19.958 | 4.033 | 0.172 | 0.401 | 0.025 | 0.027 | 0.021 | 0.000 | 0.000 | 0.000 | 0.000 | 1392.61 | |
| 24 | 0.7304 | 1168.1 | 1188.8 | 0.544 | 5.245 | 69.423 | 19.880 | 4.241 | 0.180 | 0.417 | 0.025 | 0.027 | 0.019 | 0.000 | 0.000 | 0.000 | 0.000 | 1390.96 | |
| 25 | 0.7240 | 1160.3 | 1180.9 | 0.531 | 5.137 | 70.047 | 19.909 | 3.850 | 0.147 | 0.326 | 0.018 | 0.019 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 1387.84 | |
| 26 | 0.7273 | 1165.5 | 1186.1 | 0.565 | 5.080 | 69.749 | 19.949 | 4.088 | 0.158 | 0.352 | 0.021 | 0.022 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 1390.80 | |
| 27 | 0.7243 | 1163.1 | 1183.7 | 0.559 | 4.954 | 70.076 | 19.994 | 3.899 | 0.145 | 0.321 | 0.018 | 0.019 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 1390.86 | |
| 28 | 0.7249 | 1163.0 | 1183.6 | 0.554 | 5.027 | 70.108 | 19.789 | 3.938 | 0.159 | 0.363 | 0.022 | 0.023 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 1390.10 | |
| 29 | 0.7256 | 1163.9 | 1184.5 | 0.562 | 5.023 | 69.549 | 20.640 | 3.774 | 0.127 | 0.278 | 0.016 | 0.016 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 1390.57 | |
| 30 | 0.7217 | 1155.8 | 1176.3 | 0.551 | 5.164 | 70.183 | 19.993 | 3.666 | 0.127 | 0.274 | 0.015 | 0.015 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 1384.69 | |
| Avg | 0.7283 | 1165.0 | 1185.9 | 0.550 | 5.211 | 69.722 | 19.747 | 4.120 | 0.174 | 0.401 | 0.026 | 0.029 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 1389.58 | |

Zone 271

GQ Source Daily Summary

June 2010

Number: 063

Pressure Base: 14.730

Contract Day: 1

Name: CLEVELAND-MAPLETON

Temperature Base:

Contract Hour: 9

| Day | Relative Density | Heating Value Wet | Heating Value Dry | CO2 | N2 | C1 | C2 | C3 | IC4 | NC4 | IC5 | NC5 | C6 | C7 | C8 | C9 | C10 | Wobbe | CCT |
|-----|------------------|-------------------|-------------------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-----|
| 1 | 0.7394 | 1185.3 | 1206.3 | 0.550 | 5.019 | 68.623 | 20.564 | 4.171 | 0.227 | 0.603 | 0.068 | 0.087 | 0.087 | 0.000 | 0.000 | 0.000 | 0.000 | 1402.83 | |
| 2 | 0.7239 | 1161.2 | 1181.8 | 0.536 | 5.063 | 70.221 | 19.760 | 3.829 | 0.159 | 0.362 | 0.023 | 0.025 | 0.021 | 0.000 | 0.000 | 0.000 | 0.000 | 1389.00 | |
| 3 | 0.7266 | 1164.5 | 1185.1 | 0.551 | 5.091 | 69.887 | 19.883 | 3.958 | 0.170 | 0.389 | 0.026 | 0.028 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 1390.36 | |
| 4 | 0.7295 | 1168.4 | 1189.1 | 0.544 | 5.139 | 69.438 | 20.132 | 4.105 | 0.176 | 0.400 | 0.025 | 0.026 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 1392.23 | |
| 5 | 0.7255 | 1163.8 | 1184.4 | 0.544 | 5.039 | 69.952 | 19.969 | 3.919 | 0.161 | 0.358 | 0.021 | 0.022 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 | 1390.63 | |
| 6 | 0.7301 | 1170.1 | 1190.8 | 0.558 | 5.074 | 69.313 | 20.271 | 4.187 | 0.168 | 0.372 | 0.022 | 0.022 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 | 1393.65 | |
| 7 | 0.7327 | 1172.5 | 1193.3 | 0.543 | 5.193 | 69.062 | 20.203 | 4.321 | 0.185 | 0.420 | 0.028 | 0.030 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 1394.02 | |
| 8 | 0.7419 | 1183.2 | 1204.2 | 0.595 | 5.318 | 67.889 | 20.661 | 4.752 | 0.210 | 0.486 | 0.034 | 0.037 | 0.019 | 0.000 | 0.000 | 0.000 | 0.000 | 1398.03 | |
| 9 | 0.7483 | 1189.8 | 1210.9 | 0.677 | 5.393 | 66.881 | 21.205 | 5.106 | 0.209 | 0.457 | 0.028 | 0.030 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 | 1399.83 | |
| 10 | 0.7546 | 1194.2 | 1215.3 | 0.673 | 5.724 | 66.113 | 21.227 | 5.395 | 0.234 | 0.543 | 0.036 | 0.039 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 1399.04 | |
| 11 | 0.7441 | 1177.6 | 1198.5 | 0.651 | 5.779 | 67.576 | 20.245 | 4.999 | 0.209 | 0.472 | 0.029 | 0.030 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 1389.39 | |
| 12 | 0.7522 | 1197.0 | 1218.1 | 0.503 | 5.576 | 67.840 | 19.151 | 5.526 | 0.343 | 0.817 | 0.094 | 0.108 | 0.043 | 0.000 | 0.000 | 0.000 | 0.000 | 1404.50 | |
| 13 | 0.7337 | 1167.3 | 1188.0 | 0.519 | 5.634 | 69.374 | 19.100 | 4.518 | 0.217 | 0.525 | 0.039 | 0.045 | 0.029 | 0.000 | 0.000 | 0.000 | 0.000 | 1386.93 | |
| 14 | 0.7311 | 1160.3 | 1180.8 | 0.523 | 5.813 | 69.817 | 18.545 | 4.433 | 0.219 | 0.535 | 0.042 | 0.047 | 0.025 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.00 | |
| 15 | 0.7008 | 1138.2 | 1158.3 | 0.526 | 4.323 | 73.336 | 18.834 | 2.621 | 0.098 | 0.218 | 0.015 | 0.016 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.72 | |
| 16 | 0.6971 | 1132.8 | 1152.8 | 0.451 | 4.417 | 73.847 | 18.354 | 2.660 | 0.082 | 0.164 | 0.010 | 0.010 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 1380.73 | |
| 17 | 0.7178 | 1149.3 | 1169.7 | 0.525 | 5.237 | 71.047 | 19.008 | 3.689 | 0.142 | 0.310 | 0.019 | 0.020 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 1380.56 | |
| 18 | 0.7261 | 1159.7 | 1180.2 | 0.518 | 5.392 | 69.810 | 19.708 | 3.998 | 0.161 | 0.360 | 0.022 | 0.023 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1385.06 | |
| 19 | 0.7242 | 1158.5 | 1179.0 | 0.544 | 5.247 | 70.231 | 19.470 | 3.895 | 0.166 | 0.385 | 0.025 | 0.026 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 | 1385.42 | |
| 20 | 0.7277 | 1162.8 | 1183.4 | 0.542 | 5.317 | 69.913 | 19.411 | 4.115 | 0.186 | 0.442 | 0.029 | 0.031 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 1387.20 | |
| 21 | 0.7268 | 1160.1 | 1180.7 | 0.514 | 5.433 | 70.189 | 18.978 | 4.139 | 0.193 | 0.466 | 0.034 | 0.036 | 0.019 | 0.000 | 0.000 | 0.000 | 0.000 | 1384.91 | |
| 22 | 0.7263 | 1159.0 | 1179.5 | 0.498 | 5.478 | 69.997 | 19.290 | 4.089 | 0.175 | 0.407 | 0.025 | 0.026 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 1384.06 | |
| 23 | 0.7291 | 1168.6 | 1189.3 | 0.536 | 5.077 | 69.560 | 20.096 | 4.058 | 0.176 | 0.419 | 0.030 | 0.032 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 1393.28 | |
| 24 | 0.7239 | 1159.4 | 1180.0 | 0.555 | 5.073 | 69.590 | 19.991 | 4.136 | 0.177 | 0.411 | 0.026 | 0.027 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 1392.83 | |
| 25 | 0.7294 | 1167.6 | 1188.3 | 0.514 | 5.211 | 70.140 | 19.691 | 3.876 | 0.156 | 0.356 | 0.021 | 0.022 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 | 1386.83 | |
| 26 | 0.7237 | 1162.2 | 1182.8 | 0.563 | 5.154 | 69.309 | 20.270 | 4.150 | 0.158 | 0.349 | 0.020 | 0.020 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1391.33 | |
| 27 | 0.7248 | 1161.3 | 1181.9 | 0.546 | 4.971 | 70.149 | 19.940 | 3.882 | 0.144 | 0.318 | 0.019 | 0.020 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 1390.35 | |
| 28 | 0.7246 | 1161.9 | 1182.5 | 0.594 | 5.055 | 70.079 | 19.810 | 3.900 | 0.157 | 0.349 | 0.022 | 0.022 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 | 1388.26 | |
| 29 | 0.7246 | 1161.9 | 1182.5 | 0.607 | 4.984 | 69.794 | 20.392 | 3.757 | 0.135 | 0.290 | 0.017 | 0.017 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1389.14 | |
| 30 | 0.7258 | 1161.6 | 1182.1 | 0.597 | 5.131 | 69.634 | 20.295 | 3.870 | 0.139 | 0.298 | 0.017 | 0.017 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 1387.58 | |
| Avg | 0.7290 | 1166.0 | 1186.9 | 0.553 | 5.212 | 69.620 | 19.815 | 4.135 | 0.178 | 0.409 | 0.029 | 0.031 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 1390.09 | |

Zone 272

GQ Source Daily Summary

June 2010

Number: 061

Pressure Base: 14.730

Contract Day: 1

Name: CLEVELAND-GRAFTON

Temperature Base:

Contract Hour: 9

| Day | Relative Density | Heating Value Wet | Heating Value Dry | | | | | | | | | | | | | | | | | Wobbe | CCT |
|-----|------------------|-------------------|-------------------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|---------|-------|-----|
| | | | | CO2 | N2 | C1 | C2 | C3 | IC4 | NC4 | IC5 | NC5 | C6 | C7 | C8 | C9 | C10 | | | | |
| 1 | 0.7389 | 1184.5 | 1205.4 | 0.553 | 5.024 | 68.675 | 20.520 | 4.169 | 0.227 | 0.598 | 0.067 | 0.086 | 0.082 | 0.000 | 0.000 | 0.000 | 0.000 | 1402.28 | | | |
| 2 | 0.7241 | 1161.5 | 1182.1 | 0.538 | 5.061 | 70.199 | 19.767 | 3.844 | 0.159 | 0.363 | 0.023 | 0.024 | 0.022 | 0.000 | 0.000 | 0.000 | 0.000 | 1389.15 | | | |
| 3 | 0.7265 | 1164.3 | 1184.9 | 0.552 | 5.093 | 69.895 | 19.879 | 3.956 | 0.169 | 0.387 | 0.025 | 0.027 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 1390.21 | | | |
| 4 | 0.7296 | 1168.4 | 1189.1 | 0.545 | 5.142 | 69.427 | 20.141 | 4.103 | 0.176 | 0.400 | 0.025 | 0.026 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 1392.18 | | | |
| 5 | 0.7255 | 1163.9 | 1184.5 | 0.544 | 5.042 | 69.956 | 19.951 | 3.928 | 0.162 | 0.360 | 0.021 | 0.023 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 | 1390.62 | | | |
| 6 | 0.7302 | 1170.2 | 1190.9 | 0.560 | 5.067 | 69.310 | 20.283 | 4.180 | 0.169 | 0.374 | 0.021 | 0.022 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 | 1393.73 | | | |
| 7 | 0.7329 | 1172.8 | 1193.6 | 0.541 | 5.187 | 69.047 | 20.215 | 4.334 | 0.185 | 0.418 | 0.028 | 0.029 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 1394.29 | | | |
| 8 | 0.7422 | 1183.5 | 1204.5 | 0.594 | 5.331 | 67.847 | 20.662 | 4.786 | 0.210 | 0.481 | 0.034 | 0.037 | 0.019 | 0.000 | 0.000 | 0.000 | 0.000 | 1398.11 | | | |
| 9 | 0.7482 | 1189.7 | 1210.7 | 0.677 | 5.393 | 66.898 | 21.198 | 5.097 | 0.209 | 0.459 | 0.028 | 0.029 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 | 1399.74 | | | |
| 10 | 0.7553 | 1195.4 | 1216.6 | 0.672 | 5.714 | 66.016 | 21.287 | 5.444 | 0.235 | 0.542 | 0.036 | 0.039 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 1399.87 | | | |
| 11 | 0.7445 | 1178.3 | 1199.2 | 0.653 | 5.776 | 67.524 | 20.261 | 5.034 | 0.210 | 0.471 | 0.029 | 0.030 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 1389.79 | | | |
| 12 | 0.7521 | 1197.8 | 1219.0 | 0.503 | 5.515 | 67.889 | 19.145 | 5.545 | 0.345 | 0.814 | 0.094 | 0.107 | 0.043 | 0.000 | 0.000 | 0.000 | 0.000 | 1405.56 | | | |
| 13 | 0.7337 | 1167.3 | 1187.9 | 0.515 | 5.638 | 69.379 | 19.096 | 4.519 | 0.217 | 0.523 | 0.040 | 0.045 | 0.029 | 0.000 | 0.000 | 0.000 | 0.000 | 1386.90 | | | |
| 14 | 0.7310 | 1160.3 | 1180.8 | 0.518 | 5.812 | 69.837 | 18.530 | 4.429 | 0.220 | 0.539 | 0.042 | 0.047 | 0.025 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.09 | | | |
| 15 | 0.7011 | 1138.3 | 1158.5 | 0.545 | 4.316 | 73.316 | 18.821 | 2.638 | 0.099 | 0.221 | 0.015 | 0.016 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.56 | | | |
| 16 | 0.6972 | 1133.1 | 1153.2 | 0.446 | 4.417 | 73.825 | 18.371 | 2.670 | 0.082 | 0.164 | 0.009 | 0.010 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 1380.99 | | | |
| 17 | 0.7179 | 1149.6 | 1169.9 | 0.524 | 5.234 | 71.021 | 19.038 | 3.688 | 0.141 | 0.310 | 0.019 | 0.020 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 1380.77 | | | |
| 18 | 0.7265 | 1160.2 | 1180.8 | 0.517 | 5.395 | 69.755 | 19.740 | 4.015 | 0.162 | 0.362 | 0.022 | 0.023 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 1385.35 | | | |
| 19 | 0.7243 | 1158.5 | 1179.1 | 0.540 | 5.256 | 70.221 | 19.465 | 3.903 | 0.166 | 0.386 | 0.025 | 0.026 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 | 1385.43 | | | |
| 20 | 0.7278 | 1163.0 | 1183.6 | 0.541 | 5.311 | 69.904 | 19.417 | 4.124 | 0.186 | 0.441 | 0.029 | 0.031 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 1387.39 | | | |
| 21 | 0.7270 | 1160.1 | 1180.7 | 0.513 | 5.452 | 70.169 | 18.959 | 4.154 | 0.194 | 0.469 | 0.033 | 0.036 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 1387.39 | | | |
| 22 | 0.7265 | 1159.3 | 1179.8 | 0.499 | 5.477 | 69.964 | 19.313 | 4.100 | 0.175 | 0.407 | 0.025 | 0.026 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 1384.73 | | | |
| 23 | 0.7294 | 1169.7 | 1190.4 | 0.530 | 5.078 | 69.510 | 20.122 | 4.080 | 0.178 | 0.424 | 0.029 | 0.031 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 1384.24 | | | |
| 24 | 0.7293 | 1168.8 | 1189.5 | 0.555 | 5.073 | 69.580 | 19.988 | 4.148 | 0.178 | 0.411 | 0.026 | 0.027 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 1393.77 | | | |
| 25 | 0.7246 | 1160.4 | 1181.0 | 0.515 | 5.217 | 70.037 | 19.745 | 3.918 | 0.157 | 0.357 | 0.021 | 0.022 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 | 1392.95 | | | |
| 26 | 0.7295 | 1167.7 | 1188.4 | 0.563 | 5.154 | 69.308 | 20.262 | 4.157 | 0.158 | 0.349 | 0.020 | 0.020 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1387.33 | | | |
| 27 | 0.7236 | 1162.0 | 1182.6 | 0.551 | 4.970 | 70.163 | 19.927 | 3.878 | 0.144 | 0.318 | 0.018 | 0.019 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 1391.38 | | | |
| 28 | 0.7249 | 1161.5 | 1182.1 | 0.587 | 5.061 | 70.072 | 19.802 | 3.915 | 0.158 | 0.351 | 0.021 | 0.022 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 | 1390.17 | | | |
| 29 | 0.7251 | 1162.9 | 1183.5 | 0.606 | 4.970 | 69.709 | 20.475 | 3.776 | 0.134 | 0.289 | 0.017 | 0.017 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1388.42 | | | |
| 30 | 0.7261 | 1162.0 | 1182.6 | 0.599 | 5.131 | 69.578 | 20.341 | 3.882 | 0.138 | 0.295 | 0.016 | 0.016 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1389.90 | | | |
| Avg | 0.7292 | 1167.0 | 1187.2 | 0.553 | 5.210 | 69.601 | 19.824 | 4.147 | 0.178 | 0.409 | 0.029 | 0.031 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 1387.81 | | | |
| | | | | | | | | | | | | | | | | | | | 1390.26 | | |

Zone 273

GQ Source Daily Summary

June 2010

Number: 041

Pressure Base: 14.730

Contract Day: 1

Name: BISMARCK-DICKINSON

Temperature Base:

Contract Hour: 9

| Day | Relative Density | Heating Value Wet | Heating Value Dry | CO2 | N2 | C1 | C2 | C3 | IC4 | NC4 | IC5 | NC5 | C6 | C7 | C8 | C9 | C10 | Wobbe | CCT |
|-----|------------------|-------------------|-------------------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-----|
| 1 | 0.7248 | 1161.7 | 1182.3 | 0.540 | 5.111 | 70.038 | 19.914 | 3.815 | 0.153 | 0.347 | 0.021 | 0.022 | 0.038 | 0.000 | 0.000 | 0.000 | 0.000 | 1388.72 | |
| 2 | 0.7258 | 1163.8 | 1184.4 | 0.564 | 5.044 | 70.101 | 19.671 | 3.985 | 0.170 | 0.392 | 0.025 | 0.027 | 0.022 | 0.000 | 0.000 | 0.000 | 0.000 | 1390.24 | |
| 3 | 0.7282 | 1165.8 | 1186.4 | 0.541 | 5.180 | 69.657 | 19.958 | 4.003 | 0.174 | 0.410 | 0.027 | 0.029 | 0.022 | 0.000 | 0.000 | 0.000 | 0.000 | 1390.35 | |
| 4 | 0.7274 | 1165.8 | 1186.4 | 0.547 | 5.094 | 69.716 | 20.014 | 4.031 | 0.166 | 0.372 | 0.021 | 0.022 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 1391.12 | |
| 5 | 0.7279 | 1167.8 | 1188.4 | 0.559 | 5.009 | 69.674 | 20.090 | 4.066 | 0.165 | 0.375 | 0.022 | 0.023 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 1392.94 | |
| 6 | 0.7310 | 1170.4 | 1191.1 | 0.549 | 5.156 | 69.261 | 20.164 | 4.220 | 0.175 | 0.403 | 0.025 | 0.027 | 0.019 | 0.000 | 0.000 | 0.000 | 0.000 | 1393.08 | |
| 7 | 0.7374 | 1178.2 | 1199.0 | 0.556 | 5.265 | 68.458 | 20.438 | 4.553 | 0.196 | 0.456 | 0.028 | 0.030 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 1396.30 | |
| 8 | 0.7445 | 1185.8 | 1206.8 | 0.658 | 5.310 | 67.506 | 20.872 | 4.897 | 0.204 | 0.470 | 0.030 | 0.032 | 0.022 | 0.000 | 0.000 | 0.000 | 0.000 | 1398.65 | |
| 9 | 0.7517 | 1192.0 | 1213.1 | 0.681 | 5.575 | 66.401 | 21.297 | 5.280 | 0.214 | 0.482 | 0.027 | 0.028 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 1399.14 | |
| 10 | 0.7441 | 1182.7 | 1203.6 | 0.617 | 5.527 | 67.480 | 20.749 | 4.867 | 0.205 | 0.476 | 0.030 | 0.032 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 1395.35 | |
| 11 | 0.7509 | 1194.5 | 1215.6 | 0.558 | 5.519 | 67.769 | 19.385 | 5.532 | 0.316 | 0.743 | 0.072 | 0.079 | 0.027 | 0.000 | 0.000 | 0.000 | 0.000 | 1402.85 | |
| 12 | 0.7372 | 1172.2 | 1193.0 | 0.527 | 5.651 | 68.972 | 19.310 | 4.599 | 0.227 | 0.555 | 0.051 | 0.061 | 0.046 | 0.000 | 0.000 | 0.000 | 0.000 | 1389.43 | |
| 13 | 0.7319 | 1163.1 | 1183.7 | 0.512 | 5.734 | 69.738 | 18.661 | 4.466 | 0.221 | 0.548 | 0.042 | 0.047 | 0.030 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.54 | |
| 14 | 0.7141 | 1144.2 | 1164.4 | 0.481 | 5.270 | 71.925 | 18.184 | 3.494 | 0.162 | 0.394 | 0.030 | 0.034 | 0.026 | 0.000 | 0.000 | 0.000 | 0.000 | 1378.01 | |
| 15 | 0.7028 | 1144.8 | 1165.1 | 0.513 | 4.128 | 72.911 | 19.438 | 2.709 | 0.085 | 0.179 | 0.011 | 0.011 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 1389.75 | |
| 16 | 0.6994 | 1129.8 | 1149.8 | 0.475 | 4.773 | 73.924 | 17.454 | 2.995 | 0.108 | 0.231 | 0.013 | 0.013 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 1374.91 | |
| 17 | 0.7251 | 1158.8 | 1179.3 | 0.534 | 5.327 | 69.837 | 19.892 | 3.880 | 0.148 | 0.331 | 0.018 | 0.019 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 | 1384.96 | |
| 18 | 0.7242 | 1157.3 | 1177.8 | 0.528 | 5.348 | 70.080 | 19.600 | 3.872 | 0.156 | 0.357 | 0.021 | 0.022 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 1383.96 | |
| 19 | 0.7247 | 1159.3 | 1179.8 | 0.548 | 5.240 | 70.360 | 19.193 | 3.987 | 0.177 | 0.419 | 0.027 | 0.030 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 1385.88 | |
| 20 | 0.7285 | 1163.3 | 1183.9 | 0.529 | 5.378 | 69.909 | 19.254 | 4.175 | 0.194 | 0.470 | 0.032 | 0.035 | 0.023 | 0.000 | 0.000 | 0.000 | 0.000 | 1387.07 | |
| 21 | 0.7249 | 1155.9 | 1176.3 | 0.503 | 5.531 | 70.397 | 18.777 | 4.096 | 0.183 | 0.433 | 0.028 | 0.030 | 0.022 | 0.000 | 0.000 | 0.000 | 0.000 | 1381.63 | |
| 22 | 0.7278 | 1164.8 | 1185.4 | 0.512 | 5.251 | 69.734 | 19.767 | 4.089 | 0.172 | 0.401 | 0.025 | 0.027 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 1389.46 | |
| 23 | 0.7277 | 1167.4 | 1188.1 | 0.545 | 5.028 | 69.770 | 19.992 | 4.019 | 0.172 | 0.401 | 0.026 | 0.028 | 0.021 | 0.000 | 0.000 | 0.000 | 0.000 | 1392.75 | |
| 24 | 0.7304 | 1168.1 | 1188.8 | 0.545 | 5.239 | 69.435 | 19.876 | 4.232 | 0.182 | 0.420 | 0.025 | 0.027 | 0.019 | 0.000 | 0.000 | 0.000 | 0.000 | 1391.01 | |
| 25 | 0.7238 | 1159.9 | 1180.4 | 0.531 | 5.145 | 70.077 | 19.886 | 3.835 | 0.146 | 0.326 | 0.018 | 0.019 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 1387.51 | |
| 26 | 0.7274 | 1165.6 | 1186.2 | 0.565 | 5.086 | 69.723 | 19.966 | 4.091 | 0.158 | 0.352 | 0.021 | 0.022 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 1390.83 | |
| 27 | 0.7244 | 1163.4 | 1184.0 | 0.559 | 4.948 | 70.033 | 20.054 | 3.892 | 0.144 | 0.319 | 0.018 | 0.019 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 1391.12 | |
| 28 | 0.7245 | 1162.1 | 1182.7 | 0.554 | 5.036 | 70.172 | 19.747 | 3.909 | 0.159 | 0.363 | 0.022 | 0.023 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 1389.53 | |
| 29 | 0.7259 | 1164.7 | 1185.3 | 0.561 | 5.012 | 69.490 | 20.695 | 3.788 | 0.127 | 0.278 | 0.016 | 0.017 | 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 1391.15 | |
| 30 | 0.7219 | 1156.0 | 1176.5 | 0.551 | 5.173 | 70.181 | 19.948 | 3.697 | 0.129 | 0.278 | 0.015 | 0.015 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 1384.72 | |
| Avg | 0.7280 | 1165.0 | 1185.6 | 0.548 | 5.203 | 69.758 | 19.742 | 4.102 | 0.173 | 0.399 | 0.026 | 0.028 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 1389.53 | |

Zone 28

GQ Source Daily Summary

June 2010

Number: 271

Pressure Base: 14.730

Contract Day: 1

Name: DICKINSON AREA

Temperature Base:

Contract Hour: 9

| Day | Relative Density | Heating Value Wet | Heating Value Dry | CO2 | N2 | C1 | C2 | C3 | IC4 | NC4 | IC5 | NC5 | C6 | C7 | C8 | C9 | C10 | Wobbe | CCT |
|-----|------------------|-------------------|-------------------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-----|
| 1 | 0.5900 | 978.3 | 995.6 | 1.051 | 2.839 | 93.440 | 2.594 | 0.076 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1296.14 | |
| 2 | 0.5882 | 973.5 | 990.8 | 1.049 | 2.959 | 93.771 | 2.168 | 0.053 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1291.88 | |
| 3 | 0.5863 | 971.7 | 988.9 | 1.035 | 2.919 | 94.137 | 1.861 | 0.048 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1291.43 | |
| 4 | 0.5879 | 973.4 | 990.6 | 1.078 | 2.898 | 93.860 | 2.114 | 0.050 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1291.99 | |
| 5 | 0.5903 | 980.2 | 997.6 | 0.826 | 3.092 | 93.107 | 2.908 | 0.067 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1298.35 | |
| 6 | 0.5981 | 1007.9 | 1025.8 | 0.714 | 2.305 | 91.978 | 4.563 | 0.361 | 0.042 | 0.031 | 0.002 | 0.000 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 1326.17 | |
| 7 | 0.6100 | 1051.2 | 1069.8 | 0.553 | 1.021 | 90.358 | 7.024 | 0.826 | 0.109 | 0.085 | 0.009 | 0.000 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.78 | |
| 8 | 0.6005 | 1026.2 | 1044.3 | 0.610 | 1.573 | 91.858 | 5.234 | 0.579 | 0.076 | 0.057 | 0.003 | 0.000 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1347.47 | |
| 9 | 0.6032 | 1044.2 | 1062.7 | 0.538 | 0.830 | 91.616 | 6.118 | 0.681 | 0.108 | 0.083 | 0.010 | 0.000 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 1368.30 | |
| 10 | 0.5951 | 1032.2 | 1050.5 | 0.587 | 0.724 | 93.333 | 4.501 | 0.616 | 0.116 | 0.088 | 0.017 | 0.000 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 1361.72 | |
| 11 | 0.5985 | 1038.0 | 1056.4 | 0.583 | 0.700 | 92.704 | 5.096 | 0.666 | 0.123 | 0.094 | 0.017 | 0.000 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 1365.43 | |
| 12 | 0.6030 | 1042.4 | 1060.8 | 0.641 | 0.766 | 91.933 | 5.684 | 0.697 | 0.132 | 0.101 | 0.023 | 0.000 | 0.022 | 0.000 | 0.000 | 0.000 | 0.000 | 1366.13 | |
| 13 | 0.6037 | 1045.5 | 1064.0 | 0.535 | 0.803 | 91.727 | 5.926 | 0.717 | 0.139 | 0.107 | 0.024 | 0.000 | 0.021 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.37 | |
| 14 | 0.6039 | 1046.6 | 1065.2 | 0.482 | 0.835 | 91.588 | 6.101 | 0.715 | 0.138 | 0.100 | 0.022 | 0.000 | 0.019 | 0.000 | 0.000 | 0.000 | 0.000 | 1370.64 | |
| 15 | 0.6036 | 1045.6 | 1064.1 | 0.504 | 0.835 | 91.676 | 5.996 | 0.707 | 0.136 | 0.103 | 0.023 | 0.000 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.65 | |
| 16 | 0.6045 | 1046.2 | 1064.7 | 0.545 | 0.822 | 91.579 | 6.033 | 0.731 | 0.139 | 0.107 | 0.024 | 0.000 | 0.021 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.39 | |
| 17 | 0.6307 | 1082.8 | 1101.9 | 0.323 | 1.402 | 85.535 | 11.926 | 0.648 | 0.085 | 0.065 | 0.005 | 0.000 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 1387.53 | |
| 18 | 0.6145 | 1055.2 | 1073.9 | 0.689 | 0.994 | 89.677 | 7.484 | 0.934 | 0.120 | 0.086 | 0.004 | 0.000 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 | 1369.93 | |
| 19 | 0.6176 | 1058.4 | 1077.2 | 0.723 | 1.040 | 89.075 | 7.999 | 0.938 | 0.125 | 0.083 | 0.005 | 0.000 | 0.013 | 0.000 | 0.000 | 0.000 | 0.000 | 1370.66 | |
| 20 | 0.6177 | 1057.0 | 1075.7 | 0.761 | 1.078 | 89.025 | 8.012 | 0.915 | 0.119 | 0.079 | 0.001 | 0.000 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 1368.70 | |
| 21 | 0.6195 | 1060.3 | 1079.1 | 0.763 | 1.045 | 88.822 | 8.140 | 0.977 | 0.135 | 0.093 | 0.013 | 0.000 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 | 1370.95 | |
| 22 | 0.6178 | 1060.4 | 1079.2 | 0.709 | 0.955 | 89.282 | 7.711 | 1.068 | 0.147 | 0.099 | 0.013 | 0.000 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 1373.02 | |
| 23 | 0.6128 | 1045.2 | 1063.7 | 0.674 | 1.471 | 89.805 | 7.006 | 0.836 | 0.114 | 0.076 | 0.008 | 0.000 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 1358.71 | |
| 24 | 0.6062 | 1025.2 | 1043.4 | 0.694 | 2.042 | 90.696 | 5.838 | 0.587 | 0.077 | 0.053 | 0.007 | 0.000 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 1339.72 | |
| 25 | 0.6229 | 1067.7 | 1086.6 | 0.654 | 1.076 | 88.515 | 8.213 | 1.152 | 0.167 | 0.154 | 0.039 | 0.010 | 0.021 | 0.000 | 0.000 | 0.000 | 0.000 | 1376.77 | |
| 26 | 0.6211 | 1064.1 | 1082.9 | 0.747 | 0.976 | 89.135 | 7.542 | 1.166 | 0.178 | 0.167 | 0.047 | 0.014 | 0.028 | 0.000 | 0.000 | 0.000 | 0.000 | 1374.16 | |
| 27 | 0.6204 | 1062.2 | 1081.0 | 0.791 | 0.959 | 89.293 | 7.393 | 1.137 | 0.170 | 0.163 | 0.047 | 0.015 | 0.033 | 0.000 | 0.000 | 0.000 | 0.000 | 1372.49 | |
| 28 | 0.6124 | 1043.2 | 1061.7 | 0.945 | 1.136 | 90.559 | 6.161 | 0.875 | 0.131 | 0.125 | 0.034 | 0.007 | 0.028 | 0.000 | 0.000 | 0.000 | 0.000 | 1356.63 | |
| 29 | 0.6133 | 1045.9 | 1064.4 | 0.801 | 1.282 | 90.264 | 6.387 | 0.930 | 0.139 | 0.133 | 0.035 | 0.003 | 0.026 | 0.000 | 0.000 | 0.000 | 0.000 | 1359.07 | |
| 30 | 0.5953 | 997.8 | 1015.5 | 0.795 | 2.528 | 92.696 | 3.487 | 0.385 | 0.054 | 0.048 | 0.001 | 0.000 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 1316.19 | |
| Avg | 0.6063 | 1034.0 | 1052.6 | 0.713 | 1.463 | 91.035 | 5.907 | 0.671 | 0.101 | 0.079 | 0.014 | 0.002 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 | 1351.61 | |

Zone 31

GQ Source Daily Summary

June 2010

Number: 051

Pressure Base: 14.730

Contract Day: 1

Name: CABIN CR-DICKINSON

Temperature Base:

Contract Hour: 9

| Day | Relative Density | Heating Value Wet | Heating Value Dry | CO2 | | | | | | | | | | | | | | | | Wobbe | CCT |
|-----|------------------|-------------------|-------------------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-------|-----|
| | | | | N2 | C1 | C2 | C3 | IC4 | NC4 | IC5 | NC5 | C6 | C7 | C8 | C9 | C10 | | | | | |
| 1 | 0.5794 | 955.6 | 972.5 | 1.179 | 3.043 | 95.674 | 0.084 | 0.011 | 0.002 | 0.003 | 0.001 | 0.000 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1277.64 | | |
| 2 | 0.5786 | 956.6 | 973.6 | 1.107 | 3.010 | 95.785 | 0.080 | 0.010 | 0.002 | 0.003 | 0.001 | 0.000 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1279.95 | | |
| 3 | 0.5791 | 956.1 | 973.1 | 1.189 | 2.971 | 95.744 | 0.081 | 0.008 | 0.002 | 0.002 | 0.001 | 0.000 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1278.63 | | |
| 4 | 0.5782 | 956.1 | 973.0 | 0.981 | 3.197 | 95.695 | 0.114 | 0.008 | 0.003 | 0.001 | 0.000 | 0.000 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1279.67 | | |
| 5 | 0.5926 | 1009.4 | 1027.2 | 0.767 | 1.626 | 93.787 | 3.040 | 0.581 | 0.086 | 0.066 | 0.019 | 0.010 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1334.11 | | |
| 6 | 0.5987 | 1033.6 | 1051.9 | 0.648 | 0.897 | 92.998 | 4.332 | 0.837 | 0.123 | 0.095 | 0.027 | 0.015 | 0.027 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1359.45 | | |
| 7 | 0.5888 | 1000.1 | 1017.9 | 0.738 | 1.872 | 94.295 | 2.479 | 0.456 | 0.069 | 0.053 | 0.015 | 0.008 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1326.27 | | |
| 8 | 0.5947 | 1031.9 | 1050.1 | 0.612 | 0.677 | 93.764 | 3.923 | 0.733 | 0.123 | 0.093 | 0.027 | 0.018 | 0.030 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1361.79 | | |
| 9 | 0.5914 | 1027.8 | 1046.0 | 0.621 | 0.607 | 94.334 | 3.513 | 0.627 | 0.124 | 0.097 | 0.029 | 0.017 | 0.031 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1360.12 | | |
| 10 | 0.5915 | 1028.4 | 1046.6 | 0.592 | 0.618 | 94.302 | 3.557 | 0.633 | 0.126 | 0.097 | 0.029 | 0.016 | 0.030 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1360.83 | | |
| 11 | 0.5957 | 1032.0 | 1050.3 | 0.737 | 0.569 | 93.771 | 3.878 | 0.702 | 0.143 | 0.112 | 0.034 | 0.019 | 0.035 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1360.89 | | |
| 12 | 0.5960 | 1035.0 | 1053.4 | 0.607 | 0.611 | 93.675 | 3.994 | 0.743 | 0.155 | 0.121 | 0.037 | 0.021 | 0.036 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1364.49 | | |
| 13 | 0.5961 | 1035.5 | 1053.8 | 0.571 | 0.654 | 93.605 | 4.046 | 0.753 | 0.160 | 0.120 | 0.036 | 0.020 | 0.035 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1364.91 | | |
| 14 | 0.6014 | 1044.6 | 1063.1 | 0.568 | 0.591 | 92.864 | 4.619 | 0.911 | 0.199 | 0.145 | 0.043 | 0.022 | 0.037 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1370.95 | | |
| 15 | 0.5957 | 1035.0 | 1053.3 | 0.564 | 0.653 | 93.690 | 3.978 | 0.744 | 0.159 | 0.120 | 0.037 | 0.020 | 0.036 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1364.73 | | |
| 16 | 0.6340 | 1087.1 | 1106.3 | 0.317 | 1.469 | 84.997 | 12.360 | 0.646 | 0.090 | 0.068 | 0.020 | 0.011 | 0.022 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1389.43 | | |
| 17 | 0.6064 | 1042.7 | 1061.2 | 0.780 | 0.865 | 91.572 | 5.611 | 0.900 | 0.126 | 0.088 | 0.024 | 0.012 | 0.022 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1362.75 | | |
| 18 | 0.6106 | 1048.4 | 1067.0 | 0.822 | 0.849 | 90.941 | 6.059 | 1.025 | 0.147 | 0.098 | 0.027 | 0.013 | 0.019 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1365.45 | | |
| 19 | 0.6087 | 1043.1 | 1061.6 | 0.897 | 0.880 | 91.347 | 5.591 | 0.990 | 0.145 | 0.096 | 0.026 | 0.012 | 0.017 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1360.65 | | |
| 20 | 0.6108 | 1047.0 | 1065.5 | 0.895 | 0.843 | 91.068 | 5.805 | 1.059 | 0.156 | 0.107 | 0.032 | 0.016 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1363.38 | | |
| 21 | 0.6117 | 1050.7 | 1069.3 | 0.818 | 0.813 | 90.887 | 6.029 | 1.120 | 0.161 | 0.108 | 0.029 | 0.014 | 0.021 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1367.29 | | |
| 22 | 0.6080 | 1041.7 | 1060.2 | 0.777 | 1.078 | 91.389 | 5.440 | 1.008 | 0.148 | 0.099 | 0.027 | 0.013 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1359.61 | | |
| 23 | 0.5934 | 1000.4 | 1018.1 | 0.808 | 2.181 | 93.442 | 2.880 | 0.526 | 0.079 | 0.053 | 0.015 | 0.007 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1321.36 | | |
| 24 | 0.6141 | 1054.1 | 1072.8 | 0.760 | 0.923 | 90.769 | 5.829 | 1.241 | 0.191 | 0.176 | 0.053 | 0.029 | 0.028 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1368.91 | | |
| 25 | 0.6149 | 1054.7 | 1073.4 | 0.837 | 0.840 | 90.786 | 5.783 | 1.245 | 0.197 | 0.187 | 0.058 | 0.032 | 0.034 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1368.84 | | |
| 26 | 0.6153 | 1056.1 | 1074.8 | 0.839 | 0.794 | 90.772 | 5.809 | 1.264 | 0.199 | 0.187 | 0.061 | 0.035 | 0.040 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1370.12 | | |
| 27 | 0.6096 | 1041.3 | 1059.7 | 1.056 | 0.834 | 91.774 | 4.833 | 1.053 | 0.168 | 0.164 | 0.052 | 0.029 | 0.037 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1357.23 | | |
| 28 | 0.6039 | 1028.4 | 1046.6 | 0.932 | 1.270 | 92.411 | 4.126 | 0.887 | 0.143 | 0.135 | 0.043 | 0.024 | 0.031 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1346.71 | | |
| 29 | 0.5926 | 998.1 | 1015.8 | 0.856 | 2.175 | 93.788 | 2.443 | 0.515 | 0.085 | 0.079 | 0.026 | 0.014 | 0.019 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1319.45 | | |
| 30 | 0.5949 | 1002.7 | 1020.5 | 0.917 | 2.020 | 93.507 | 2.733 | 0.585 | 0.093 | 0.083 | 0.026 | 0.015 | 0.022 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1322.92 | | |
| Avg | 0.5996 | 1024.0 | 1042.6 | 0.793 | 1.314 | 92.781 | 4.102 | 0.727 | 0.120 | 0.095 | 0.029 | 0.015 | 0.023 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1346.28 | | |

Zone 32

GQ Source Daily Summary

June 2010

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 | CO2 | N2 | C1 | C2 | C3 | IC4 | NC4 | IC5 | NC5 | C6 | C7 | C8 | C9 | C10 | Wobbe | CCT |
|-----|------------------|-------------------|-------------------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-----|
| 1 | 0.6789 | 1149.7 | 1170.1 | 0.000 | 2.366 | 74.769 | 22.331 | 0.519 | 0.007 | 0.009 | 0.000 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1420.15 | |
| 2 | 0.6760 | 1144.9 | 1165.1 | 0.000 | 2.396 | 75.374 | 21.672 | 0.537 | 0.007 | 0.011 | 0.001 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1417.06 | |
| 3 | 0.6790 | 1149.6 | 1170.0 | 0.000 | 2.386 | 74.731 | 22.352 | 0.515 | 0.006 | 0.009 | 0.000 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1419.86 | |
| 4 | 0.6777 | 1147.6 | 1167.9 | 0.000 | 2.391 | 74.995 | 22.081 | 0.517 | 0.007 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1418.65 | |
| 5 | 0.6790 | 1150.0 | 1170.4 | 0.000 | 2.363 | 74.764 | 22.313 | 0.544 | 0.007 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1420.33 | |
| 6 | 0.6798 | 1151.3 | 1171.7 | 0.000 | 2.352 | 74.491 | 22.532 | 0.582 | 0.007 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1421.11 | |
| 7 | 0.6808 | 1152.5 | 1172.9 | 0.018 | 2.352 | 74.491 | 22.532 | 0.582 | 0.009 | 0.011 | 0.002 | 0.002 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 1421.53 | |
| 8 | 0.6781 | 1148.9 | 1169.2 | 0.000 | 2.353 | 74.900 | 22.228 | 0.504 | 0.006 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1419.80 | |
| 9 | 0.6774 | 1147.9 | 1168.2 | 0.000 | 2.345 | 75.029 | 22.128 | 0.483 | 0.006 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1419.33 | |
| 10 | 0.6771 | 1147.1 | 1167.5 | 0.000 | 2.360 | 75.085 | 22.060 | 0.480 | 0.006 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1418.76 | |
| 11 | 0.6801 | 1145.2 | 1165.5 | 0.000 | 2.760 | 74.471 | 22.214 | 0.540 | 0.006 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1418.76 | |
| 12 | 0.6799 | 1151.1 | 1171.5 | 0.000 | 2.382 | 74.561 | 22.517 | 0.525 | 0.006 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1413.29 | |
| 13 | 0.6784 | 1149.2 | 1169.6 | 0.000 | 2.359 | 74.838 | 22.284 | 0.504 | 0.006 | 0.008 | 0.000 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1420.70 | |
| 14 | 0.6792 | 1150.5 | 1170.9 | 0.000 | 2.355 | 74.699 | 22.403 | 0.526 | 0.006 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1419.92 | |
| 15 | 0.6805 | 1152.4 | 1172.8 | 0.000 | 2.357 | 74.445 | 22.661 | 0.522 | 0.006 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1420.68 | |
| 16 | 0.6841 | 1157.6 | 1178.1 | 0.000 | 2.378 | 74.308 | 22.233 | 1.001 | 0.027 | 0.045 | 0.003 | 0.002 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 1421.72 | |
| 17 | 0.6799 | 1151.1 | 1171.5 | 0.000 | 2.378 | 74.503 | 22.635 | 0.468 | 0.006 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1424.30 | |
| 18 | 0.6791 | 1149.9 | 1170.3 | 0.000 | 2.372 | 74.683 | 22.452 | 0.478 | 0.006 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1420.79 | |
| 19 | 0.6801 | 1152.2 | 1172.6 | 0.000 | 2.333 | 74.523 | 22.598 | 0.531 | 0.006 | 0.008 | 0.000 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1420.19 | |
| 20 | 0.6798 | 1151.7 | 1172.1 | 0.000 | 2.338 | 74.582 | 22.536 | 0.528 | 0.007 | 0.009 | 0.000 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1421.87 | |
| 21 | 0.6806 | 1152.6 | 1173.0 | 0.000 | 2.351 | 74.436 | 22.667 | 0.529 | 0.007 | 0.009 | 0.000 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1421.57 | |
| 22 | 0.6807 | 1152.3 | 1172.8 | 0.000 | 2.383 | 74.411 | 22.646 | 0.544 | 0.007 | 0.009 | 0.000 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1421.92 | |
| 23 | 0.6823 | 1154.8 | 1175.3 | 0.000 | 2.384 | 74.079 | 22.979 | 0.542 | 0.007 | 0.009 | 0.000 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1421.41 | |
| 24 | 0.6840 | 1157.7 | 1178.2 | 0.000 | 2.370 | 73.761 | 23.284 | 0.569 | 0.007 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1422.79 | |
| 25 | 0.6825 | 1155.1 | 1175.5 | 0.000 | 2.386 | 74.051 | 22.991 | 0.557 | 0.006 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1424.52 | |
| 26 | 0.6790 | 1150.0 | 1170.4 | 0.000 | 2.366 | 74.716 | 22.401 | 0.503 | 0.006 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1422.90 | |
| 27 | 0.6820 | 1155.0 | 1175.4 | 0.000 | 2.340 | 74.179 | 22.900 | 0.565 | 0.006 | 0.009 | 0.000 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1420.29 | |
| 28 | 0.6808 | 1152.9 | 1173.3 | 0.000 | 2.357 | 74.392 | 22.697 | 0.536 | 0.007 | 0.009 | 0.000 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1423.35 | |
| 29 | 0.6817 | 1154.0 | 1174.4 | 0.000 | 2.379 | 74.246 | 22.773 | 0.585 | 0.007 | 0.009 | 0.000 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1421.99 | |
| 30 | 0.6830 | 1155.3 | 1175.7 | 0.000 | 2.422 | 74.182 | 22.587 | 0.792 | 0.007 | 0.009 | 0.000 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1422.35 | |
| Avg | 0.6801 | 1151.0 | 1171.7 | 0.001 | 2.381 | 74.561 | 22.487 | 0.553 | 0.007 | 0.010 | 0.000 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 1422.58 | |
| | | | | | | | | | | | | | | | | | | 1420.86 | |

Zone 33

GQ Source Daily Summary

June 2010

Number: 331
 Name: MARMARTH PLANT

Pressure Base: 14.730
 Temperature Base:

Contract Day: 1
 Contract Hour: 9

| Day | Relative Density | Heating Value Wet | Heating Value Dry | CO2 | N2 | C1 | C2 | C3 | IC4 | NC4 | IC5 | NC5 | C6 | C7 | C8 | C9 | C10 | Wobbe | CCT |
|-----|------------------|-------------------|-------------------|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-----|
| 1 | 0.7984 | 1141.2 | 1161.5 | 2.030 | 11.047 | 54.136 | 29.509 | 2.902 | 0.081 | 0.252 | 0.011 | 0.029 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 1299.84 | |
| 2 | 0.8005 | 1144.7 | 1165.0 | 2.052 | 10.995 | 53.892 | 29.664 | 2.994 | 0.086 | 0.269 | 0.012 | 0.031 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 1302.11 | |
| 3 | 0.8014 | 1146.1 | 1166.4 | 2.073 | 10.963 | 53.856 | 29.613 | 3.069 | 0.090 | 0.284 | 0.013 | 0.034 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 1302.94 | |
| 4 | 0.8012 | 1146.2 | 1166.5 | 2.103 | 10.901 | 53.943 | 29.543 | 3.082 | 0.091 | 0.286 | 0.013 | 0.034 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 1303.12 | |
| 5 | 0.8020 | 1148.8 | 1169.1 | 2.021 | 10.933 | 53.881 | 29.526 | 3.173 | 0.098 | 0.311 | 0.014 | 0.037 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 1305.52 | |
| 6 | 0.8024 | 1147.8 | 1168.1 | 2.100 | 10.918 | 53.782 | 29.621 | 3.135 | 0.094 | 0.297 | 0.013 | 0.035 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 1303.98 | |
| 7 | 0.8016 | 1147.8 | 1168.1 | 2.093 | 10.849 | 53.892 | 29.651 | 3.077 | 0.093 | 0.293 | 0.013 | 0.035 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 1304.68 | |
| 8 | 0.7996 | 1147.5 | 1167.9 | 1.990 | 10.833 | 53.956 | 29.891 | 2.944 | 0.082 | 0.259 | 0.011 | 0.030 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 1306.05 | |
| 9 | 0.7970 | 1151.6 | 1172.0 | 1.949 | 10.404 | 54.273 | 30.223 | 2.823 | 0.071 | 0.218 | 0.010 | 0.026 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 1312.79 | |
| 10 | 0.8012 | 1152.2 | 1172.6 | 2.154 | 10.455 | 53.842 | 30.136 | 3.100 | 0.069 | 0.208 | 0.009 | 0.023 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 1309.98 | |
| 11 | 0.7966 | 1155.4 | 1175.8 | 1.815 | 10.341 | 54.262 | 30.380 | 2.888 | 0.069 | 0.208 | 0.009 | 0.023 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 1317.45 | |
| 12 | 0.8031 | 1153.6 | 1174.0 | 2.122 | 10.596 | 53.428 | 30.437 | 3.085 | 0.073 | 0.222 | 0.009 | 0.024 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 1310.04 | |
| 13 | 0.8071 | 1157.6 | 1178.1 | 2.185 | 10.625 | 53.084 | 30.312 | 3.426 | 0.080 | 0.247 | 0.010 | 0.027 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 1311.31 | |
| 14 | 0.8005 | 1144.7 | 1164.9 | 2.209 | 10.758 | 53.882 | 29.838 | 3.015 | 0.065 | 0.199 | 0.008 | 0.022 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 1302.08 | |
| 15 | 0.7993 | 1140.3 | 1160.5 | 2.214 | 10.909 | 54.008 | 29.639 | 2.944 | 0.063 | 0.191 | 0.008 | 0.021 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 1298.02 | |
| 16 | 0.7984 | 1137.2 | 1157.3 | 2.223 | 10.952 | 54.064 | 29.644 | 2.822 | 0.062 | 0.186 | 0.008 | 0.020 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 1295.18 | |
| 17 | 0.7463 | 1093.5 | 1112.8 | 2.603 | 8.187 | 64.397 | 22.748 | 1.858 | 0.047 | 0.136 | 0.006 | 0.016 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 1289.48 | |
| 18 | 0.8093 | 1145.6 | 1165.9 | 3.324 | 9.838 | 52.956 | 30.869 | 2.773 | 0.055 | 0.160 | 0.006 | 0.017 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 1296.03 | |
| 19 | 0.8024 | 1141.1 | 1161.3 | 2.706 | 10.408 | 53.783 | 29.997 | 2.838 | 0.060 | 0.178 | 0.007 | 0.019 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 1296.41 | |
| 20 | 0.8004 | 1140.6 | 1160.8 | 2.526 | 10.521 | 53.995 | 29.866 | 2.824 | 0.061 | 0.179 | 0.007 | 0.020 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 1297.50 | |
| 21 | 0.7926 | 1139.9 | 1160.1 | 1.850 | 10.854 | 54.721 | 29.673 | 2.603 | 0.065 | 0.199 | 0.009 | 0.024 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 1303.14 | |
| 22 | 0.7951 | 1153.6 | 1174.0 | 1.761 | 10.397 | 54.319 | 30.489 | 2.733 | 0.067 | 0.200 | 0.008 | 0.022 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 1316.58 | |
| 23 | 0.7964 | 1145.3 | 1165.6 | 2.002 | 10.650 | 54.514 | 29.559 | 2.956 | 0.072 | 0.212 | 0.009 | 0.023 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 1306.16 | |
| 24 | 0.7969 | 1140.7 | 1160.9 | 2.070 | 10.871 | 54.508 | 29.220 | 3.006 | 0.073 | 0.215 | 0.009 | 0.024 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 1300.51 | |
| 25 | 0.7966 | 1138.6 | 1158.8 | 2.068 | 10.977 | 54.516 | 29.132 | 2.987 | 0.072 | 0.212 | 0.009 | 0.023 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 1298.36 | |
| 26 | 0.8089 | 1165.5 | 1186.1 | 2.022 | 10.551 | 54.081 | 28.407 | 4.257 | 0.142 | 0.452 | 0.022 | 0.057 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 1318.64 | |
| 27 | 0.7969 | 1141.6 | 1161.8 | 2.029 | 10.885 | 54.737 | 28.803 | 3.171 | 0.084 | 0.250 | 0.011 | 0.027 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 1301.40 | |
| 28 | 0.7973 | 1141.6 | 1161.8 | 2.075 | 10.856 | 54.450 | 29.259 | 3.038 | 0.073 | 0.214 | 0.009 | 0.022 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 1301.09 | |
| 29 | 0.7964 | 1130.6 | 1150.6 | 2.148 | 11.326 | 55.200 | 27.497 | 3.417 | 0.091 | 0.275 | 0.011 | 0.029 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 1289.28 | |
| 30 | 0.8097 | 1156.8 | 1177.3 | 2.173 | 10.932 | 53.781 | 28.336 | 4.145 | 0.133 | 0.423 | 0.019 | 0.052 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 1308.21 | |
| Avg | 0.7985 | 1145.0 | 1164.8 | 2.156 | 10.658 | 54.405 | 29.383 | 3.036 | 0.079 | 0.241 | 0.010 | 0.027 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 1303.60 | |

*** End of Report***

Zone 34

GQ Source Analysis

| | | | |
|----------------------------|----------------------|------------------------------|--------|
| GQ Source Number: | 1201140 | Specific Gravity: | 0.5725 |
| GQ Source Name: | EAGLE 8B ND | BTU Base: | Dry |
| Effective Date: | 6/7/2010 9:00:00 AM | Measured Heat Value: | 979.18 |
| Effective End Date: | 1/18/2038 9:14:07 PM | Dry Heat Value: | 979.09 |
| Pressure Base: | 14.730 | Wet Heat Value: | 962.05 |
| Viscosity: | | As Deliv. Heat Value: | 979.09 |

| | | Mol % | GPM | | | Mol % |
|---------------|-------------|--------|-----------|-------|------------------|-------|
| C1 | Methane | 95.949 | | CO2 | Carbon Dioxide | 0.088 |
| C2 | Ethane | 0.311 | 0.083 | N2 | Nitrogen | 3.635 |
| C3 | Propane | 0.009 | 0.003 | O2 | Oxygen | 0.000 |
| IC4 | Iso-Butane | 0.007 | 0.002 | HE | Helium | |
| NC4 | N-Butane | 0.000 | 0.000 | H2 | Hydrogen | |
| IC5 | Iso-Pentane | 0.000 | 0.000 | H2S | Hydrogen Sulfide | |
| NC5 | N-Pentane | 0.000 | 0.000 | AR | Argon | |
| C6 | Hexane | 0.000 | 0.000 | CO | Carbon Monoxide | |
| C7 | Heptane | | | H2O | Water | |
| C8 | Octane | | | | | |
| C9 | Nonane | | | | | |
| C10 | Decane | | | | | |
| Totals | | | 100.000 % | 0.088 | GPM | |

Sample Date: 6/7/2010 12:00:00 AM
Sample Type: Spot
Sample Tech: MG
Sample Remarks:

Analysis Remarks:

zone 35

| NORTH DAKOTA HEATING VALUE ZONES | | |
|---|-------------------------|--------------------------------|
| ZONES | MEASURING DEVICE | LOCATION |
| 211 | Chromatograph | Sidney Area |
| 24 | Monthly Sampler | Williston Area |
| 25 | Monthly Sampler | Watford City Area |
| 261 | Chromatograph | Williston – Tioga – Minot Line |
| 262 | Chromatograph | Minot Area |
| 263 | Monthly Sampler | Tioga – Portal |
| 264 | Monthly Sampler | Williston – Ray |
| 271 | Chromatograph | Bismarck – Cleveland |
| 272 | Chromatograph | Cleveland – Mapleton |
| 273 | Chromatograph | Cleveland – Grafton |
| 28 | Chromatograph | Bismarck |
| 31 | Chromatograph | Dickinson |
| 32 | Chromatograph | Cabin Creek – Dickinson |
| 33 | Chromatograph | Killdeer |
| 34 | Chromatograph | Bowman Area |
| 35 | Yearly Sampler | Baker Field – North Dakota |

MONTANA DAKOTA UTILITIES CO
NORTH DAKOTA
HEATING VALUE DATA
12 MONTH ACCUMULATIVE AT 14.73 psia, 60 f. DRY

| STATE | ZONE | ZONE BOUNDARY | 12 MONTH AVERAGE | JUNE 10 | MAY 10 | APR 10 | MAR 10 | FEB 10 | JAN 10 | DEC 09 | NOV 09 | OCT 09 | SEPT 09 | AUG 09 | JULY 09 | ZONE |
|-------|------|--------------------------------|------------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|------|
| MT/ND | 211 | Sidney Area | 1183 | 1197 | 1199 | 1197 | 1193 | 1132 | 1155 | 1152 | 1191 | 1187 | 1192 | 1195 | 1202 | 21 |
| ND | 24 | Williston Area | 1178 | 1171 | 1186 | 1192 | 1200 | 1161 | 1176 | 1173 | 1193 | 1182 | 1181 | 1175 | 1143 | 24 |
| ND | 25 | Watford City Area | 1129 | 1134 | 1132 | 1128 | 1132 | 1125 | 1132 | 1131 | 1129 | 1121 | 1123 | 1130 | 1125 | 25 |
| ND | 261 | Williston - Tioga - Minot Line | 1142 | 1147 | 1134 | 1150 | 1156 | 1144 | 1141 | 1142 | 1140 | 1160 | 1138 | 1129 | 1126 | 261 |
| ND | 262 | Minot Area | 1172 | 1188 | 1187 | 1184 | 1175 | 1164 | 1163 | 1163 | 1165 | 1174 | 1168 | 1165 | 1165 | 262 |
| ND | 263 | Tioga - Portal | 1109 | 1104 | 1102 | 1110 | 1090 | 1078 | 1073 | 1090 | 1113 | 1126 | 1138 | 1141 | 1141 | 263 |
| ND | 264 | Williston - Ray | 1178 | 1171 | 1186 | 1192 | 1200 | 1161 | 1176 | 1173 | 1193 | 1182 | 1181 | 1175 | 1143 | 264 |
| ND | 271 | Bismarck - Cleveland | 1160 | 1186 | 1185 | 1183 | 1164 | 1117 | 1135 | 1128 | 1163 | 1174 | 1166 | 1162 | 1160 | 271 |
| ND | 272 | Cleveland - Mapleton | 1160 | 1187 | 1186 | 1182 | 1163 | 1115 | 1134 | 1128 | 1163 | 1174 | 1167 | 1163 | 1162 | 272 |
| ND | 273 | Cleveland - Grafton | 1161 | 1187 | 1186 | 1182 | 1163 | 1116 | 1135 | 1128 | 1164 | 1173 | 1167 | 1163 | 1162 | 273 |
| ND | 28 | Bismarck - Cabin Creek | 1115 | 1188 | 1174 | 1178 | 1055 | 1023 | 1025 | 1018 | 1094 | 1141 | 1166 | 1163 | 1162 | 28 |
| ND | 31 | Dickinson Area | 1037 | 1053 | 1066 | 1033 | 1029 | 1021 | 1017 | 1019 | 994 | 1024 | 1140 | 1052 | 998 | 31 |
| ND/MT | 32 | Cabin Creek - Dickinson | 1022 | 1043 | 1005 | 996 | 1022 | 1019 | 1015 | 1017 | 989 | 994 | 1140 | 1040 | 980 | 32 |
| ND | 33 | Kuldeer | 1163 | 1172 | 1169 | 1168 | 1169 | 1163 | 1160 | 1158 | 1158 | 1159 | 1158 | 1160 | 1164 | 33 |
| ND | 34 | Bowman Area | 1167 | 1165 | 1162 | 1170 | 1169 | 1172 | 1161 | 1150 | 1169 | 1174 | 1174 | 1172 | 1170 | 34 |
| ND | 35 | Baker Field - North Dakota | 978 | 979 | 978 | 978 | 978 | 978 | 978 | 978 | 978 | 978 | 978 | 978 | 978 | 35 |

**THERMAL ZONE VARIANCE
DOCUMENTATION**

June 2010

| <i>ZONE</i> | <i>BTU VARIANCE</i> | <i>REASON</i> |
|--------------------|--------------------------------|------------------------|
| 32 | 38 | Mix of gas in the area |