



825 Rice Street  
Saint Paul, MN 55117

December 16, 2016

Darrell Nitschke, Executive Secretary  
North Dakota Public Service Commission  
State Capitol Building, Dept. 408  
600 East Boulevard  
Bismarck, ND 58505-0480

SUBJECT: Xcel Energy Gas Heating Values Report

Dear Mr. Nitschke:

Enclosed with this letter are Xcel Energy's natural gas heating value reports for November 2016 as required by N.D. Admin. Code 69-09-01-02, part 2.

If you need further information or clarification regarding the enclosed response, please contact Lisa Kallberg at 651-229-2282.

Sincerely,

Jeff Murray  
manager Pipeline Compliance & Standards  
Xcel Energy

**Xcel Energy**  
**Natural Gas Utility - State of North Dakota**  
**Monthly Heating Values Report**

| Date/Time       | Viking Gas Transmission<br>(Fargo) |         | Williston Basin Interstate<br>(Mapleton) |         |
|-----------------|------------------------------------|---------|--|---------|
|                 | Min BTU                            | Max BTU | Min BTU                                  | Max BTU |
| 11/1/2016 0:00  | 1017                               | 1018    | 1123                                     | 1132    |
| 11/1/2016 1:00  | 1018                               | 1020    | 1132                                     | 1138    |
| 11/1/2016 2:00  | 1020                               | 1021    | 1135                                     | 1138    |
| 11/1/2016 3:00  | 1021                               | 1021    | 1133                                     | 1136    |
| 11/1/2016 4:00  | 1021                               | 1022    | 1132                                     | 1133    |
| 11/1/2016 5:00  | 1022                               | 1023    | 1131                                     | 1132    |
| 11/1/2016 6:00  | 1023                               | 1024    | 1127                                     | 1131    |
| 11/1/2016 7:00  | 1024                               | 1024    | 1127                                     | 1129    |
| 11/1/2016 8:00  | 1023                               | 1024    | 1128                                     | 1128    |
| 11/1/2016 9:00  | 1021                               | 1023    | 1126                                     | 1128    |
| 11/1/2016 10:00 | 1020                               | 1021    | 1127                                     | 1128    |
| 11/1/2016 11:00 | 1020                               | 1020    | 1125                                     | 1127    |
| 11/1/2016 12:00 | 1018                               | 1020    | 1125                                     | 1127    |
| 11/1/2016 13:00 | 1017                               | 1018    | 1127                                     | 1130    |
| 11/1/2016 14:00 | 1016                               | 1017    | 1127                                     | 1130    |
| 11/1/2016 15:00 | 1016                               | 1017    | 1129                                     | 1131    |
| 11/1/2016 16:00 | 1017                               | 1017    | 1131                                     | 1133    |
| 11/1/2016 17:00 | 1016                               | 1017    | 1131                                     | 1133    |
| 11/1/2016 18:00 | 1016                               | 1016    | 1130                                     | 1132    |
| 11/1/2016 19:00 | 1016                               | 1016    | 1130                                     | 1133    |
| 11/1/2016 20:00 | 1016                               | 1016    | 1131                                     | 1135    |
| 11/1/2016 21:00 | 1015                               | 1016    | 1128                                     | 1135    |
| 11/1/2016 22:00 | 1015                               | 1015    | 1128                                     | 1130    |
| 11/1/2016 23:00 | 1015                               | 1015    | 1129                                     | 1131    |
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| 11/2/2016 8:00  | 1015                               | 1015    | 1129                                     | 1130    |
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| 11/27/2016 8:00  | 1015 | 1016 | 1136 | 1138 |
| 11/27/2016 9:00  | 1016 | 1017 | 1135 | 1137 |
| 11/27/2016 10:00 | 1017 | 1022 | 1129 | 1137 |
| 11/27/2016 11:00 | 1022 | 1025 | 1125 | 1129 |
| 11/27/2016 12:00 | 1025 | 1026 | 1125 | 1135 |
| 11/27/2016 13:00 | 1025 | 1026 | 1134 | 1136 |
| 11/27/2016 14:00 | 1024 | 1025 | 1136 | 1136 |
| 11/27/2016 15:00 | 1023 | 1024 | 1133 | 1139 |
| 11/27/2016 16:00 | 1021 | 1023 | 1132 | 1137 |
| 11/27/2016 17:00 | 1019 | 1021 | 1136 | 1139 |
| 11/27/2016 18:00 | 1017 | 1019 | 1139 | 1144 |
| 11/27/2016 19:00 | 1016 | 1017 | 1141 | 1144 |
| 11/27/2016 20:00 | 1015 | 1016 | 1141 | 1144 |
| 11/27/2016 21:00 | 1015 | 1015 | 1134 | 1143 |
| 11/27/2016 22:00 | 1015 | 1015 | 1134 | 1143 |
| 11/27/2016 23:00 | 1015 | 1015 | 1141 | 1143 |
| 11/28/2016 0:00  | 1015 | 1016 | 1139 | 1143 |
| 11/28/2016 1:00  | 1015 | 1016 | 1140 | 1141 |
| 11/28/2016 2:00  | 1015 | 1015 | 1140 | 1141 |
| 11/28/2016 3:00  | 1015 | 1015 | 1140 | 1141 |
| 11/28/2016 4:00  | 1013 | 1015 | 1138 | 1140 |
| 11/28/2016 5:00  | 1013 | 1013 | 1137 | 1138 |
| 11/28/2016 6:00  | 1012 | 1013 | 1137 | 1139 |
| 11/28/2016 7:00  | 1012 | 1012 | 1137 | 1139 |
| 11/28/2016 8:00  | 1012 | 1013 | 1130 | 1137 |
| 11/28/2016 9:00  | 1013 | 1013 | 1127 | 1132 |
| 11/28/2016 10:00 | 1013 | 1013 | 1127 | 1128 |
| 11/28/2016 11:00 | 1013 | 1013 | 1128 | 1131 |
| 11/28/2016 12:00 | 1013 | 1014 | 1126 | 1131 |
| 11/28/2016 13:00 | 1014 | 1014 | 1129 | 1133 |
| 11/28/2016 14:00 | 1014 | 1014 | 1133 | 1136 |
| 11/28/2016 15:00 | 1014 | 1014 | 1134 | 1136 |
| 11/28/2016 16:00 | 1014 | 1014 | 1134 | 1135 |
| 11/28/2016 17:00 | 1014 | 1014 | 1134 | 1136 |

|                  |      |              |      |      |
|------------------|------|--------------|------|------|
| 11/28/2016 18:00 | 1014 | 1014         | 1134 | 1135 |
| 11/28/2016 19:00 | 1014 | 1014         | 1133 | 1135 |
| 11/28/2016 20:00 | 1014 | 1014         | 1133 | 1137 |
| 11/28/2016 21:00 | 1014 | 1014         | 1133 | 1137 |
| 11/28/2016 22:00 | 1014 | 1014         | 1133 | 1142 |
| 11/28/2016 23:00 | 1014 | 1014         | 1136 | 1142 |
| 11/29/2016 0:00  | 1014 | 1014         | 1136 | 1138 |
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| 11/29/2016 2:00  | 1014 | 1014         | 1133 | 1137 |
| 11/29/2016 3:00  | 1013 | 1014         | 1125 | 1133 |
| 11/29/2016 4:00  | 1013 | 1013         | 1125 | 1135 |
| 11/29/2016 5:00  | 1013 | 1013         | 1132 | 1135 |
| 11/29/2016 6:00  | 1012 | 1013         | 1132 | 1136 |
| 11/29/2016 7:00  | 1012 | 1012         | 1133 | 1136 |
| 11/29/2016 8:00  | 1012 | 1012         | 1134 | 1135 |
| 11/29/2016 9:00  | 1012 | 1012         | 1131 | 1135 |
| 11/29/2016 10:00 | 1012 | 1012         | 1129 | 1133 |
| 11/29/2016 11:00 | 1011 | 1012         | 1129 | 1134 |
| 11/29/2016 12:00 | 1011 | 1012         | 1134 | 1134 |
| 11/29/2016 13:00 | 1012 | 1014         | 1133 | 1135 |
| 11/29/2016 14:00 | 1014 | 1018         | 1133 | 1135 |
| 11/29/2016 15:00 | 1018 | 1021         | 1133 | 1137 |
| 11/29/2016 16:00 | 1021 | 1023         | 1132 | 1137 |
| 11/29/2016 17:00 | 1022 | 1023         | 1132 | 1133 |
| 11/29/2016 18:00 | 1018 | 1022         | 1133 | 1136 |
| 11/29/2016 19:00 | 1014 | 1018         | 1136 | 1140 |
| 11/29/2016 20:00 | 1012 | 1014         | 1137 | 1143 |
| 11/29/2016 21:00 | 1011 | 1012         | 1139 | 1143 |
| 11/29/2016 22:00 | 1011 | 1011         | 1138 | 1139 |
| 11/29/2016 23:00 | 1011 | 1011         | 1134 | 1138 |
| 11/30/2016 0:00  | 1011 | 1012         | 1134 | 1137 |
| 11/30/2016 1:00  | 1012 | 1012         | 1137 | 1138 |
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| 11/30/2016 5:00  | 1013 | 1013         | 1141 | 1144 |
| 11/30/2016 6:00  | 1013 | 1013         | 1141 | 1144 |
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| 11/30/2016 8:00  | 1013 | 1013         | 1135 | 1137 |
| 11/30/2016 9:00  | 1013 | 1013         | 1133 | 1135 |
| 11/30/2016 10:00 | 1013 | 1013         | 1132 | 1133 |
| 11/30/2016 11:00 | 1013 | 1013         | 1132 | 1133 |
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| 11/30/2016 19:00 | 1014 | 1014         | 1121 | 1126 |
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| 12/1/2016 2:00   | 1021 | 1024         | 1113 | 1119 |
| 12/1/2016 3:00   | 1024 | 1026         | 1114 | 1116 |
| 12/1/2016 4:00   | 1026 | 1029         | 1116 | 1117 |
| 12/1/2016 5:00   | 1029 | 1031         | 1117 | 1119 |
| 12/1/2016 6:00   | 1031 | 1033         | 1119 | 1123 |
| 12/1/2016 7:00   | 1033 | 1033         | 1123 | 1123 |
| 12/1/2016 8:00   | 1032 | 1033         | 1123 | 1126 |
| 12/1/2016 9:00   | 1032 | 1034         | 1126 | 1128 |
| Min (Btu/cf)     |      | Min (Btu/cf) |      |      |
|                  | 1011 | 1034         | 1053 | 1170 |
| Max (Btu/cf)     |      |              |      |      |