



825 Rice Street  
Saint Paul, MN 55117

April 28, 2017

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 March 2017 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,

A handwritten signature in blue ink that reads 'Lisa Kallberg for'.

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 (Fargo)		Williston Basin Interstate (Mapleton)	
	Min BTU	Max BTU	Min BTU	Max BTU
3/1/2017 0:00	1024	1024	1156	1160
3/1/2017 1:00	1024	1024	1156	1157
3/1/2017 2:00	1024	1024	1155	1156
3/1/2017 3:00	1024	1024	1155	1156
3/1/2017 4:00	1024	1024	1156	1157
3/1/2017 5:00	1024	1024	1157	1160
3/1/2017 6:00	1024	1024	1160	1160
3/1/2017 7:00	1024	1024	1160	1168
3/1/2017 8:00	1024	1024	1160	1168
3/1/2017 9:00	1024	1024	1159	1160
3/1/2017 10:00	1024	1024	1159	1161
3/1/2017 11:00	1024	1024	1154	1161
3/1/2017 12:00	1024	1024	1154	1158
3/1/2017 13:00	1024	1024	1158	1160
3/1/2017 14:00	1024	1024	1159	1160
3/1/2017 15:00	1024	1024	1159	1160
3/1/2017 16:00	1024	1024	1159	1160
3/1/2017 17:00	1024	1024	1160	1160
3/1/2017 18:00	1024	1024	1160	1163
3/1/2017 19:00	1024	1024	1163	1167
3/1/2017 20:00	1024	1024	1163	1167
3/1/2017 21:00	1024	1024	1160	1163
3/1/2017 22:00	1024	1024	1157	1160
3/1/2017 23:00	1024	1024	1156	1157
3/2/2017 0:00	1024	1025	1156	1158
3/2/2017 1:00	1025	1025	1157	1160
3/2/2017 2:00	1025	1025	1158	1160
3/2/2017 3:00	1025	1025	1158	1159
3/2/2017 4:00	1025	1025	1158	1159
3/2/2017 5:00	1025	1025	1158	1159
3/2/2017 6:00	1025	1025	1158	1159
3/2/2017 7:00	1025	1025	1157	1158
3/2/2017 8:00	1010	1025	1157	1158
3/2/2017 9:00	1010	1025	1157	1193
3/2/2017 10:00	1025	1025	1156	1157
3/2/2017 11:00	1025	1025	1156	1159
3/2/2017 12:00	1025	1025	1159	1160
3/2/2017 13:00	1025	1025	1159	1160
3/2/2017 14:00	1025	1025	1159	1159
3/2/2017 15:00	1023	1025	1159	1163
3/2/2017 16:00	1023	1023	1162	1163
3/2/2017 17:00	1023	1023	1160	1162
3/2/2017 18:00	1023	1023	1160	1160
3/2/2017 19:00	1023	1023	1158	1160
3/2/2017 20:00	1023	1023	1156	1158
3/2/2017 21:00	1023	1023	1155	1157
3/2/2017 22:00	1023	1023	1155	1157
3/2/2017 23:00	1023	1023	1156	1158
3/3/2017 0:00	1023	1023	1156	1157
3/3/2017 1:00	1023	1023	1157	1157
3/3/2017 2:00	1023	1023	1157	1160
3/3/2017 3:00	1023	1023	1158	1160
3/3/2017 4:00	1023	1023	1156	1158
3/3/2017 5:00	1023	1023	1155	1157
3/3/2017 6:00	1023	1023	1157	1166
3/3/2017 7:00	1023	1023	1163	1165
3/3/2017 8:00	1023	1023	1163	1164
3/3/2017 9:00	1023	1023	1163	1164
3/3/2017 10:00	1023	1023	1162	1163
3/3/2017 11:00	1023	1023	1162	1163
3/3/2017 12:00	1023	1023	1163	1163
3/3/2017 13:00	1023	1023	1163	1167
3/3/2017 14:00	1023	1023	1167	1170
3/3/2017 15:00	1023	1023	1168	1170
3/3/2017 16:00	1023	1024	1168	1168
3/3/2017 17:00	1024	1024	1168	1170
3/3/2017 18:00	1024	1024	1170	1172

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

Date/Time	Viking Gas Transmission (Fargo)		Williston Basin Interstate (Mapleton)	
	Min BTU	Max BTU	Min BTU	Max BTU
3/3/2017 19:00	1024	1024	1170	1171
3/3/2017 20:00	1023	1024	1166	1170
3/3/2017 21:00	1023	1023	1166	1178
3/3/2017 22:00	1023	1023	1169	1174
3/3/2017 23:00	1023	1023	1166	1170
3/4/2017 0:00	1023	1023	1167	1168
3/4/2017 1:00	1023	1023	1168	1170
3/4/2017 2:00	1023	1024	1170	1176
3/4/2017 3:00	1024	1024	1175	1183
3/4/2017 4:00	1024	1024	1183	1187
3/4/2017 5:00	1023	1024	1183	1188
3/4/2017 6:00	1023	1023	1183	1186
3/4/2017 7:00	1023	1023	1183	1185
3/4/2017 8:00	1023	1023	1185	1187
3/4/2017 9:00	1022	1023	1185	1187
3/4/2017 10:00	1022	1022	1185	1186
3/4/2017 11:00	1022	1022	1184	1186
3/4/2017 12:00	1022	1023	1183	1184
3/4/2017 13:00	1023	1023	1182	1184
3/4/2017 14:00	1023	1023	1182	1183
3/4/2017 15:00	1023	1023	1182	1183
3/4/2017 16:00	1023	1024	1179	1182
3/4/2017 17:00	1024	1024	1174	1179
3/4/2017 18:00	1024	1024	1173	1174
3/4/2017 19:00	1024	1024	1173	1177
3/4/2017 20:00	1024	1024	1176	1177
3/4/2017 21:00	1024	1024	1173	1176
3/4/2017 22:00	1024	1024	1170	1173
3/4/2017 23:00	1024	1024	1170	1171
3/5/2017 0:00	1024	1024	1170	1171
3/5/2017 1:00	1024	1024	1170	1171
3/5/2017 2:00	1023	1024	1171	1171
3/5/2017 3:00	1023	1024	1171	1175
3/5/2017 4:00	1023	1024	1175	1176
3/5/2017 5:00	1023	1023	1175	1177
3/5/2017 6:00	1023	1023	1172	1177
3/5/2017 7:00	1023	1023	1172	1177
3/5/2017 8:00	1023	1023	1176	1177
3/5/2017 9:00	1023	1023	1175	1177
3/5/2017 10:00	1023	1023	1175	1177
3/5/2017 11:00	1023	1023	1176	1179
3/5/2017 12:00	1023	1024	1179	1179
3/5/2017 13:00	1024	1024	1179	1179
3/5/2017 14:00	1024	1024	1177	1179
3/5/2017 15:00	1024	1024	1177	1178
3/5/2017 16:00	1024	1024	1176	1179
3/5/2017 17:00	1024	1024	1178	1179
3/5/2017 18:00	1024	1024	1177	1178
3/5/2017 19:00	1024	1024	1177	1178
3/5/2017 20:00	1024	1024	1176	1177
3/5/2017 21:00	1024	1024	1176	1179
3/5/2017 22:00	1024	1024	1177	1179
3/5/2017 23:00	1024	1024	1177	1180
3/6/2017 0:00	1024	1024	1180	1180
3/6/2017 1:00	1024	1024	1180	1182
3/6/2017 2:00	1024	1024	1180	1182
3/6/2017 3:00	1024	1024	1181	1182
3/6/2017 4:00	1024	1024	1182	1184
3/6/2017 5:00	1024	1024	1182	1184
3/6/2017 6:00	1024	1024	1182	1186
3/6/2017 7:00	1024	1024	1186	1187
3/6/2017 8:00	1024	1024	1186	1188
3/6/2017 9:00	1024	1024	1187	1188
3/6/2017 10:00	1024	1024	1187	1188
3/6/2017 11:00	1024	1024	1186	1188
3/6/2017 12:00	1024	1024	1186	1187
3/6/2017 13:00	1024	1024	1187	1188
3/6/2017 14:00	1023	1024	1187	1189
3/6/2017 15:00	1023	1023	1187	1189
3/6/2017 16:00	1023	1023	1188	1189
3/6/2017 17:00	1023	1024	1187	1189
3/6/2017 18:00	1024	1024	1186	1188
3/6/2017 19:00	1024	1024	1185	1186
3/6/2017 20:00	1023	1024	1182	1185
3/6/2017 21:00	1023	1023	1181	1184

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

Date/Time	Viking Gas Transmission (Fargo)		Williston Basin Interstate (Mapleton)	
	Min BTU	Max BTU	Min BTU	Max BTU
3/6/2017 22:00	1023	1023	1178	1181
3/6/2017 23:00	1023	1023	1176	1178
3/7/2017 0:00	1023	1023	1176	1176
3/7/2017 1:00	1023	1023	1159	1177
3/7/2017 2:00	1023	1023	1159	1165
3/7/2017 3:00	1023	1023	1165	1168
3/7/2017 4:00	1023	1023	1168	1168
3/7/2017 5:00	1023	1023	1168	1169
3/7/2017 6:00	1023	1023	1167	1168
3/7/2017 7:00	1023	1023	1167	1168
3/7/2017 8:00	1023	1023	1161	1168
3/7/2017 9:00	1023	1023	1161	1161
3/7/2017 10:00	1023	1023	1159	1161
3/7/2017 11:00	1023	1024	1157	1159
3/7/2017 12:00	1024	1024	1157	1159
3/7/2017 13:00	1024	1024	1156	1157
3/7/2017 14:00	1024	1024	1157	1162
3/7/2017 15:00	1024	1024	1161	1162
3/7/2017 16:00	1024	1025	1161	1164
3/7/2017 17:00	1024	1025	1164	1167
3/7/2017 18:00	1024	1024	1167	1170
3/7/2017 19:00	1024	1024	1164	1170
3/7/2017 20:00	1024	1024	1164	1170
3/7/2017 21:00	1024	1024	1153	1170
3/7/2017 22:00	1024	1024	1150	1153
3/7/2017 23:00	1024	1024	1148	1150
3/8/2017 0:00	1024	1024	1146	1149
3/8/2017 1:00	1024	1024	1146	1149
3/8/2017 2:00	1024	1024	1147	1149
3/8/2017 3:00	1024	1024	1147	1149
3/8/2017 4:00	1024	1024	1148	1151
3/8/2017 5:00	1024	1024	1150	1153
3/8/2017 6:00	1024	1024	1149	1150
3/8/2017 7:00	1024	1024	1143	1149
3/8/2017 8:00	1024	1024	1132	1143
3/8/2017 9:00	1024	1024	1123	1132
3/8/2017 10:00	1024	1024	1125	1130
3/8/2017 11:00	1024	1025	1123	1127
3/8/2017 12:00	1025	1025	1123	1124
3/8/2017 13:00	1025	1025	1123	1124
3/8/2017 14:00	1025	1025	1123	1123
3/8/2017 15:00	1025	1025	1123	1127
3/8/2017 16:00	1025	1025	1127	1129
3/8/2017 17:00	1025	1025	1129	1131
3/8/2017 18:00	1025	1025	1126	1131
3/8/2017 19:00	1025	1025	1121	1127
3/8/2017 20:00	1025	1025	1120	1122
3/8/2017 21:00	1025	1025	1120	1122
3/8/2017 22:00	1025	1025	1115	1120
3/8/2017 23:00	1024	1025	1112	1117
3/9/2017 0:00	1024	1024	1110	1114
3/9/2017 1:00	1024	1024	1108	1114
3/9/2017 2:00	1024	1024	1101	1108
3/9/2017 3:00	1024	1024	1102	1106
3/9/2017 4:00	1024	1025	1106	1115
3/9/2017 5:00	1025	1025	1115	1117
3/9/2017 6:00	1024	1025	1117	1118
3/9/2017 7:00	1024	1024	1118	1122
3/9/2017 8:00	1024	1024	1121	1123
3/9/2017 9:00	1024	1024	1123	1126
3/9/2017 10:00	1024	1024	1126	1129
3/9/2017 11:00	1024	1024	1129	1132
3/9/2017 12:00	1024	1024	1132	1134
3/9/2017 13:00	1024	1024	1131	1133
3/9/2017 14:00	1024	1024	1132	1136
3/9/2017 15:00	1024	1024	1134	1140
3/9/2017 16:00	1024	1024	1136	1139
3/9/2017 17:00	1024	1024	1134	1137
3/9/2017 18:00	1024	1024	1128	1137
3/9/2017 19:00	1024	1024	1129	1132
3/9/2017 20:00	1024	1024	1126	1129
3/9/2017 21:00	1024	1024	1120	1126
3/9/2017 22:00	1024	1024	1122	1125
3/9/2017 23:00	1024	1024	1122	1126
3/10/2017 0:00	1024	1025	1118	1125

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

Date/Time	Viking Gas Transmission (Fargo)		Williston Basin Interstate (Mapleton)	
	Min BTU	Max BTU	Min BTU	Max BTU
3/10/2017 1:00	1024	1025	1118	1126
3/10/2017 2:00	1024	1024	1116	1123
3/10/2017 3:00	1024	1024	1112	1116
3/10/2017 4:00	1024	1024	1112	1119
3/10/2017 5:00	1024	1024	1114	1119
3/10/2017 6:00	1024	1024	1116	1121
3/10/2017 7:00	1024	1024	1119	1121
3/10/2017 8:00	1024	1024	1117	1119
3/10/2017 9:00	1024	1024	1117	1121
3/10/2017 10:00	1024	1024	1119	1128
3/10/2017 11:00	1024	1024	1128	1134
3/10/2017 12:00	1024	1024	1133	1135
3/10/2017 13:00	1024	1024	1130	1133
3/10/2017 14:00	1024	1024	1128	1130
3/10/2017 15:00	1023	1024	1130	1133
3/10/2017 16:00	1023	1023	1132	1133
3/10/2017 17:00	1023	1023	1128	1133
3/10/2017 18:00	1022	1023	1124	1128
3/10/2017 19:00	1022	1022	1123	1124
3/10/2017 20:00	1022	1022	1123	1127
3/10/2017 21:00	1022	1022	1122	1126
3/10/2017 22:00	1022	1022	1120	1122
3/10/2017 23:00	1022	1022	1121	1122
3/11/2017 0:00	1022	1022	1120	1121
3/11/2017 1:00	1022	1022	1120	1121
3/11/2017 2:00	1022	1022	1120	1121
3/11/2017 3:00	1022	1022	1119	1127
3/11/2017 4:00	1022	1023	1115	1129
3/11/2017 5:00	1022	1023	1110	1115
3/11/2017 6:00	1022	1022	1115	1119
3/11/2017 7:00	1022	1022	1116	1119
3/11/2017 8:00	1022	1022	1114	1116
3/11/2017 9:00	1022	1023	1113	1115
3/11/2017 10:00	1023	1023	1112	1115
3/11/2017 11:00	1022	1023	1115	1120
3/11/2017 12:00	1021	1022	1116	1120
3/11/2017 13:00	1020	1021	1116	1136
3/11/2017 14:00	1020	1020	1130	1136
3/11/2017 15:00	1020	1020	1126	1130
3/11/2017 16:00	1020	1020	1126	1130
3/11/2017 17:00	1020	1020	1129	1130
3/11/2017 18:00	1020	1020	1129	1129
3/11/2017 19:00	1020	1020	1129	1130
3/11/2017 20:00	1020	1020	1127	1129
3/11/2017 21:00	1020	1020	1125	1127
3/11/2017 22:00	1020	1020	1124	1125
3/11/2017 23:00	1020	1020	1122	1124
3/12/2017 0:00	1020	1021	1122	1125
3/12/2017 1:00	1021	1021	1125	1126
3/12/2017 3:00	1021	1021	1126	1134
3/12/2017 4:00	1021	1021	1120	1134
3/12/2017 5:00	1021	1022	1120	1122
3/12/2017 6:00	1022	1022	1122	1128
3/12/2017 7:00	1022	1022	1127	1128
3/12/2017 8:00	1022	1022	1127	1128
3/12/2017 9:00	1022	1022	1127	1129
3/12/2017 10:00	1022	1022	1129	1131
3/12/2017 11:00	1022	1022	1130	1131
3/12/2017 12:00	1022	1022	1130	1130
3/12/2017 13:00	1021	1022	1130	1132
3/12/2017 14:00	1021	1022	1129	1132
3/12/2017 15:00	1022	1022	1132	1136
3/12/2017 16:00	1022	1022	1136	1138
3/12/2017 17:00	1022	1022	1137	1139
3/12/2017 18:00	1022	1022	1137	1138
3/12/2017 19:00	1022	1022	1137	1138
3/12/2017 20:00	1022	1022	1136	1137
3/12/2017 21:00	1022	1022	1135	1136
3/12/2017 22:00	1022	1022	1135	1137
3/12/2017 23:00	1022	1022	1136	1141
3/13/2017 0:00	1022	1022	1133	1136
3/13/2017 1:00	1022	1022	1132	1133
3/13/2017 2:00	1022	1022	1132	1133
3/13/2017 3:00	1022	1022	1133	1135
3/13/2017 4:00	1022	1022	1134	1135

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

Date/Time	Viking Gas Transmission (Fargo)		Williston Basin Interstate (Mapleton)	
	Min BTU	Max BTU	Min BTU	Max BTU
3/13/2017 5:00	1022	1023	1135	1141
3/13/2017 6:00	1023	1023	1141	1147
3/13/2017 7:00	1023	1023	1139	1142
3/13/2017 8:00	1023	1023	1139	1139
3/13/2017 9:00	1023	1023	1139	1139
3/13/2017 10:00	1023	1023	1139	1140
3/13/2017 11:00	1022	1023	1140	1142
3/13/2017 12:00	1022	1022	1142	1147
3/13/2017 13:00	1022	1022	1146	1148
3/13/2017 14:00	1022	1022	1146	1148
3/13/2017 15:00	1022	1022	1145	1146
3/13/2017 16:00	1022	1023	1145	1146
3/13/2017 17:00	1023	1023	1145	1146
3/13/2017 18:00	1023	1023	1145	1146
3/13/2017 19:00	1022	1023	1141	1145
3/13/2017 20:00	1022	1022	1137	1141
3/13/2017 21:00	1022	1022	1135	1137
3/13/2017 22:00	1021	1022	1134	1136
3/13/2017 23:00	1020	1021	1135	1136
3/14/2017 0:00	1019	1020	1135	1136
3/14/2017 1:00	1019	1020	1136	1136
3/14/2017 2:00	1020	1020	1135	1136
3/14/2017 3:00	1020	1020	1136	1137
3/14/2017 4:00	1020	1020	1137	1138
3/14/2017 5:00	1020	1020	1138	1141
3/14/2017 6:00	1019	1020	1141	1144
3/14/2017 7:00	1018	1019	1141	1144
3/14/2017 8:00	1018	1019	1143	1144
3/14/2017 9:00	1019	1019	1143	1143
3/14/2017 10:00	1019	1019	1142	1143
3/14/2017 11:00	1019	1019	1141	1142
3/14/2017 12:00	1019	1019	1141	1143
3/14/2017 13:00	1019	1019	1141	1143
3/14/2017 14:00	1019	1019	1139	1141
3/14/2017 15:00	1019	1019	1139	1141
3/14/2017 16:00	1019	1019	1140	1143
3/14/2017 17:00	1019	1019	1143	1143
3/14/2017 18:00	1019	1019	1140	1143
3/14/2017 19:00	1019	1019	1138	1140
3/14/2017 20:00	1018	1019	1136	1138
3/14/2017 21:00	1018	1018	1133	1136
3/14/2017 22:00	1018	1018	1133	1141
3/14/2017 23:00	1018	1018	1129	1144
3/15/2017 0:00	1018	1019	1129	1131
3/15/2017 1:00	1018	1019	1130	1133
3/15/2017 2:00	1018	1018	1133	1139
3/15/2017 3:00	1018	1018	1139	1145
3/15/2017 4:00	1018	1018	1145	1149
3/15/2017 5:00	1018	1018	1147	1149
3/15/2017 6:00	1018	1019	1147	1150
3/15/2017 7:00	1019	1019	1149	1150
3/15/2017 8:00	1019	1019	1149	1151
3/15/2017 9:00	1019	1019	1149	1151
3/15/2017 10:00	1019	1019	1149	1149
3/15/2017 11:00	1019	1019	1149	1153
3/15/2017 12:00	1019	1019	1153	1159
3/15/2017 13:00	1019	1019	1159	1160
3/15/2017 14:00	1019	1019	1157	1159
3/15/2017 15:00	1019	1019	1154	1158
3/15/2017 16:00	1019	1019	1154	1158
3/15/2017 17:00	1019	1019	1158	1167
3/15/2017 18:00	1019	1019	1158	1167
3/15/2017 19:00	1019	1019	1154	1158
3/15/2017 20:00	1019	1019	1148	1154
3/15/2017 21:00	1019	1019	1148	1160
3/15/2017 22:00	1019	1019	1145	1160
3/15/2017 23:00	1019	1019	1145	1146
3/16/2017 0:00	1019	1019	1146	1151
3/16/2017 1:00	1019	1019	1148	1151
3/16/2017 2:00	1019	1019	1149	1153
3/16/2017 3:00	1019	1019	1153	1159
3/16/2017 4:00	1019	1019	1157	1161
3/16/2017 5:00	1019	1020	1160	1161
3/16/2017 6:00	1020	1020	1161	1163
3/16/2017 7:00	1020	1020	1158	1161

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

Date/Time	Viking Gas Transmission (Fargo)		Williston Basin Interstate (Mapleton)	
	Min BTU	Max BTU	Min BTU	Max BTU
3/16/2017 8:00	1020	1020	1158	1160
3/16/2017 9:00	1020	1020	1159	1161
3/16/2017 10:00	1020	1020	1159	1161
3/16/2017 11:00	1020	1020	1159	1161
3/16/2017 12:00	1019	1020	1161	1163
3/16/2017 13:00	1019	1019	1163	1163
3/16/2017 14:00	1019	1019	1161	1163
3/16/2017 15:00	1019	1019	1161	1165
3/16/2017 16:00	1019	1019	1162	1162
3/16/2017 17:00	1019	1019	1162	1163
3/16/2017 18:00	1019	1019	1163	1164
3/16/2017 19:00	1019	1019	1162	1164
3/16/2017 20:00	1019	1019	1162	1169
3/16/2017 21:00	1019	1019	1167	1171
3/16/2017 22:00	1019	1019	1165	1167
3/16/2017 23:00	1019	1019	1167	1169
3/17/2017 0:00	1019	1019	1158	1168
3/17/2017 1:00	1019	1019	1155	1160
3/17/2017 2:00	1019	1019	1159	1160
3/17/2017 3:00	1019	1019	1158	1162
3/17/2017 4:00	1019	1019	1162	1166
3/17/2017 5:00	1019	1019	1166	1168
3/17/2017 6:00	1018	1019	1166	1168
3/17/2017 7:00	1018	1018	1167	1168
3/17/2017 8:00	1018	1018	1168	1175
3/17/2017 9:00	1018	1018	1174	1175
3/17/2017 10:00	1018	1018	1174	1176
3/17/2017 11:00	1018	1018	1174	1176
3/17/2017 12:00	1018	1018	1174	1176
3/17/2017 13:00	1018	1018	1175	1176
3/17/2017 14:00	1018	1018	1175	1177
3/17/2017 15:00	1018	1018	1176	1177
3/17/2017 16:00	1018	1018	1176	1177
3/17/2017 17:00	1018	1018	1176	1176
3/17/2017 18:00	1018	1018	1176	1177
3/17/2017 19:00	1018	1018	1174	1176
3/17/2017 20:00	1018	1018	1174	1181
3/17/2017 21:00	1018	1018	1181	1187
3/17/2017 22:00	1017	1018	1182	1187
3/17/2017 23:00	1017	1017	1180	1182
3/18/2017 0:00	1017	1017	1180	1181
3/18/2017 1:00	1017	1017	1181	1183
3/18/2017 2:00	1017	1017	1181	1183
3/18/2017 3:00	1017	1017	1176	1181
3/18/2017 4:00	1017	1018	1176	1179
3/18/2017 5:00	1018	1018	1177	1179
3/18/2017 6:00	1018	1018	1177	1178
3/18/2017 7:00	1018	1018	1178	1182
3/18/2017 8:00	1018	1018	1181	1182
3/18/2017 9:00	1018	1018	1179	1182
3/18/2017 10:00	1018	1018	1176	1179
3/18/2017 11:00	1018	1018	1176	1177
3/18/2017 12:00	1018	1018	1176	1177
3/18/2017 13:00	1017	1018	1177	1178
3/18/2017 14:00	1017	1017	1177	1178
3/18/2017 15:00	1017	1017	1177	1177
3/18/2017 16:00	1017	1017	1176	1177
3/18/2017 17:00	1017	1017	1175	1176
3/18/2017 18:00	1016	1017	1175	1176
3/18/2017 19:00	1016	1016	1173	1175
3/18/2017 20:00	1016	1016	1172	1173
3/18/2017 21:00	1016	1016	1171	1172
3/18/2017 22:00	1016	1016	1167	1171
3/18/2017 23:00	1016	1016	1167	1168
3/19/2017 0:00	1016	1017	1163	1168
3/19/2017 1:00	1017	1017	1164	1170
3/19/2017 2:00	1017	1017	1170	1172
3/19/2017 3:00	1017	1017	1169	1172
3/19/2017 4:00	1017	1017	1168	1170
3/19/2017 5:00	1017	1017	1168	1169
3/19/2017 6:00	1017	1017	1167	1169
3/19/2017 7:00	1017	1017	1167	1170
3/19/2017 8:00	1017	1017	1170	1170
3/19/2017 9:00	1017	1017	1170	1170
3/19/2017 10:00	1017	1017	1170	1175

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

Date/Time	Viking Gas Transmission (Fargo)		Williston Basin Interstate (Mapleton)	
	Min BTU	Max BTU	Min BTU	Max BTU
3/19/2017 11:00	1016	1017	1172	1173
3/19/2017 12:00	1016	1016	1172	1172
3/19/2017 13:00	1016	1016	1171	1172
3/19/2017 14:00	1016	1016	1171	1177
3/19/2017 15:00	1016	1016	1176	1179
3/19/2017 16:00	1016	1016	1175	1176
3/19/2017 17:00	1016	1016	1176	1176
3/19/2017 18:00	1016	1016	1175	1176
3/19/2017 19:00	1016	1016	1174	1175
3/19/2017 20:00	1016	1016	1173	1174
3/19/2017 21:00	1016	1016	1172	1173
3/19/2017 22:00	1016	1016	1173	1176
3/19/2017 23:00	1016	1016	1176	1184
3/20/2017 0:00	1016	1016	1179	1180
3/20/2017 1:00	1016	1016	1177	1179
3/20/2017 2:00	1016	1016	1176	1177
3/20/2017 3:00	1016	1017	1177	1178
3/20/2017 4:00	1017	1017	1178	1178
3/20/2017 5:00	1017	1017	1177	1178
3/20/2017 6:00	1017	1017	1174	1177
3/20/2017 7:00	1017	1017	1172	1175
3/20/2017 8:00	1017	1017	1172	1173
3/20/2017 9:00	1017	1017	1172	1173
3/20/2017 10:00	1017	1017	1171	1172
3/20/2017 11:00	1017	1017	1171	1172
3/20/2017 12:00	1017	1017	1172	1174
3/20/2017 13:00	1017	1017	1172	1174
3/20/2017 14:00	1017	1017	1173	1174
3/20/2017 15:00	1017	1017	1172	1173
3/20/2017 16:00	1017	1018	1172	1175
3/20/2017 17:00	1018	1018	1170	1172
3/20/2017 18:00	1018	1018	1170	1170
3/20/2017 19:00	1018	1018	1170	1174
3/20/2017 20:00	1018	1018	1174	1178
3/20/2017 21:00	1018	1019	1178	1179
3/20/2017 22:00	1018	1019	1178	1179
3/20/2017 23:00	1018	1019	1176	1178
3/21/2017 0:00	1019	1019	1175	1176
3/21/2017 1:00	1018	1019	1175	1176
3/21/2017 2:00	1018	1018	1172	1176
3/21/2017 3:00	1018	1018	1174	1178
3/21/2017 4:00	1018	1018	1176	1178
3/21/2017 5:00	1018	1018	1178	1178
3/21/2017 6:00	1018	1018	1177	1178
3/21/2017 7:00	1018	1018	1177	1177
3/21/2017 8:00	1018	1018	1176	1177
3/21/2017 9:00	1018	1018	1176	1180
3/21/2017 10:00	1018	1019	1176	1176
3/21/2017 11:00	1019	1019	1174	1176
3/21/2017 12:00	1019	1019	1174	1174
3/21/2017 13:00	1019	1019	1174	1174
3/21/2017 14:00	1019	1019	1174	1174
3/21/2017 15:00	1019	1019	1173	1174
3/21/2017 16:00	1019	1019	1172	1173
3/21/2017 17:00	1019	1020	1172	1172
3/21/2017 18:00	1020	1020	1171	1172
3/21/2017 19:00	1020	1020	1155	1171
3/21/2017 20:00	1020	1020	1153	1156
3/21/2017 21:00	1019	1020	1153	1155
3/21/2017 22:00	1019	1019	1155	1156
3/21/2017 23:00	1019	1019	1154	1158
3/22/2017 0:00	1019	1019	1157	1158
3/22/2017 1:00	1019	1019	1158	1161
3/22/2017 2:00	1019	1019	1161	1161
3/22/2017 3:00	1019	1019	1161	1165
3/22/2017 4:00	1019	1019	1165	1166
3/22/2017 5:00	1019	1019	1165	1166
3/22/2017 6:00	1019	1019	1165	1166
3/22/2017 7:00	1019	1019	1166	1167
3/22/2017 8:00	1019	1019	1166	1167
3/22/2017 9:00	1019	1019	1166	1166
3/22/2017 10:00	1019	1019	1165	1166
3/22/2017 11:00	1019	1019	1165	1167
3/22/2017 12:00	1019	1019	1165	1166
3/22/2017 13:00	1019	1019	1165	1166

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

Date/Time	Viking Gas Transmission (Fargo)		Williston Basin Interstate (Mapleton)	
	Min BTU	Max BTU	Min BTU	Max BTU
3/22/2017 14:00	1019	1019	1164	1165
3/22/2017 15:00	1019	1019	1164	1165
3/22/2017 16:00	1019	1019	1163	1165
3/22/2017 17:00	1019	1019	1161	1163
3/22/2017 18:00	1019	1019	1163	1164
3/22/2017 19:00	1019	1019	1161	1163
3/22/2017 20:00	1018	1019	1160	1161
3/22/2017 21:00	1018	1018	1159	1160
3/22/2017 22:00	1018	1018	1158	1159
3/22/2017 23:00	1018	1018	1158	1161
3/23/2017 0:00	1018	1018	1159	1161
3/23/2017 1:00	1018	1018	1159	1160
3/23/2017 2:00	1018	1018	1160	1161
3/23/2017 3:00	1018	1018	1160	1161
3/23/2017 4:00	1018	1018	1156	1161
3/23/2017 5:00	1018	1018	1158	1160
3/23/2017 6:00	1018	1018	1159	1161
3/23/2017 7:00	1018	1018	1155	1164
3/23/2017 8:00	1018	1018	1155	1159
3/23/2017 9:00	1018	1018	1159	1162
3/23/2017 10:00	1018	1019	1162	1163
3/23/2017 11:00	1019	1019	1162	1163
3/23/2017 12:00	1019	1019	1163	1163
3/23/2017 13:00	1019	1019	1162	1163
3/23/2017 14:00	1019	1019	1163	1165
3/23/2017 15:00	1019	1019	1165	1167
3/23/2017 16:00	1019	1019	1167	1167
3/23/2017 17:00	1019	1020	1167	1170
3/23/2017 18:00	1020	1020	1170	1170
3/23/2017 19:00	1019	1020	1167	1170
3/23/2017 20:00	1019	1020	1166	1167
3/23/2017 21:00	1020	1020	1166	1167
3/23/2017 22:00	1020	1020	1164	1166
3/23/2017 23:00	1020	1020	1164	1165
3/24/2017 0:00	1020	1020	1164	1164
3/24/2017 1:00	1020	1020	1164	1164
3/24/2017 2:00	1020	1020	1152	1164
3/24/2017 3:00	1020	1020	1151	1154
3/24/2017 4:00	1019	1020	1154	1158
3/24/2017 5:00	1019	1019	1155	1160
3/24/2017 6:00	1019	1019	1158	1160
3/24/2017 7:00	1019	1019	1157	1158
3/24/2017 8:00	1019	1019	1157	1158
3/24/2017 9:00	1019	1019	1158	1161
3/24/2017 10:00	1019	1019	1161	1161
3/24/2017 11:00	1019	1020	1161	1166
3/24/2017 12:00	1019	1020	1164	1166
3/24/2017 13:00	1019	1019	1164	1165
3/24/2017 14:00	1019	1019	1162	1164
3/24/2017 15:00	1019	1020	1160	1162
3/24/2017 16:00	1020	1020	1158	1160
3/24/2017 17:00	1020	1020	1158	1161
3/24/2017 18:00	1020	1020	1158	1160
3/24/2017 19:00	1020	1020	1155	1158
3/24/2017 20:00	1020	1020	1154	1155
3/24/2017 21:00	1020	1020	1153	1154
3/24/2017 22:00	1020	1020	1153	1160
3/24/2017 23:00	1020	1020	1158	1160
3/25/2017 0:00	1020	1020	1158	1159
3/25/2017 1:00	1020	1020	1158	1160
3/25/2017 2:00	1020	1020	1160	1162
3/25/2017 3:00	1020	1020	1161	1162
3/25/2017 4:00	1020	1020	1161	1162
3/25/2017 5:00	1020	1020	1162	1163
3/25/2017 6:00	1020	1020	1162	1163
3/25/2017 7:00	1020	1020	1163	1163
3/25/2017 8:00	1019	1020	1163	1165
3/25/2017 9:00	1019	1019	1165	1167
3/25/2017 10:00	1019	1019	1166	1167
3/25/2017 11:00	1019	1019	1167	1167
3/25/2017 12:00	1019	1019	1167	1169
3/25/2017 13:00	1019	1020	1169	1174
3/25/2017 14:00	1020	1020	1169	1174
3/25/2017 15:00	1020	1021	1170	1181
3/25/2017 16:00	1021	1021	1170	1172

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

Date/Time	Viking Gas Transmission (Fargo)		Williston Basin Interstate (Mapleton)	
	Min BTU	Max BTU	Min BTU	Max BTU
3/25/2017 17:00	1021	1021	1172	1172
3/25/2017 18:00	1021	1021	1169	1172
3/25/2017 19:00	1020	1021	1168	1169
3/25/2017 20:00	1019	1020	1168	1169
3/25/2017 21:00	1019	1019	1166	1168
3/25/2017 22:00	1018	1019	1166	1167
3/25/2017 23:00	1018	1018	1167	1167
3/26/2017 0:00	1017	1018	1166	1167
3/26/2017 1:00	1017	1017	1165	1166
3/26/2017 2:00	1017	1017	1166	1166
3/26/2017 3:00	1017	1017	1166	1168
3/26/2017 4:00	1017	1017	1167	1168
3/26/2017 5:00	1017	1017	1168	1170
3/26/2017 6:00	1017	1017	1170	1172
3/26/2017 7:00	1017	1017	1172	1174
3/26/2017 8:00	1016	1017	1174	1175
3/26/2017 9:00	1016	1016	1175	1176
3/26/2017 10:00	1015	1016	1176	1176
3/26/2017 11:00	1015	1015	1176	1177
3/26/2017 12:00	1015	1015	1177	1177
3/26/2017 13:00	1015	1016	1177	1177
3/26/2017 14:00	1016	1016	1177	1178
3/26/2017 15:00	1016	1016	1178	1178
3/26/2017 16:00	1016	1017	1177	1178
3/26/2017 17:00	1017	1017	1177	1177
3/26/2017 18:00	1017	1018	1176	1177
3/26/2017 19:00	1018	1018	1176	1177
3/26/2017 20:00	1018	1018	1176	1177
3/26/2017 21:00	1018	1018	1176	1176
3/26/2017 22:00	1018	1018	1174	1176
3/26/2017 23:00	1018	1018	1173	1174
3/27/2017 0:00	1018	1018	1173	1174
3/27/2017 1:00	1017	1018	1174	1178
3/27/2017 2:00	1017	1017	1178	1179
3/27/2017 3:00	1017	1017	1178	1179
3/27/2017 4:00	1017	1017	1179	1179
3/27/2017 5:00	1017	1018	1179	1179
3/27/2017 6:00	1017	1018	1179	1181
3/27/2017 7:00	1017	1017	1180	1181
3/27/2017 8:00	1017	1017	1180	1182
3/27/2017 9:00	1016	1017	1181	1182
3/27/2017 10:00	1015	1016	1180	1181
3/27/2017 11:00	1015	1015	1180	1181
3/27/2017 12:00	1015	1015	1181	1182
3/27/2017 13:00	1015	1015	1181	1182
3/27/2017 14:00	1015	1015	1181	1182
3/27/2017 15:00	1015	1015	1181	1182
3/27/2017 16:00	1015	1015	1181	1182
3/27/2017 17:00	1015	1015	1180	1181
3/27/2017 18:00	1015	1015	1179	1180
3/27/2017 19:00	1015	1015	1178	1179
3/27/2017 20:00	1015	1015	1178	1178
3/27/2017 21:00	1015	1015	1176	1178
3/27/2017 22:00	1015	1015	1174	1176
3/27/2017 23:00	1015	1015	1174	1175
3/28/2017 0:00	1015	1015	1174	1175
3/28/2017 1:00	1015	1015	1174	1175
3/28/2017 2:00	1015	1015	1173	1174
3/28/2017 3:00	1015	1015	1173	1174
3/28/2017 4:00	1015	1015	1174	1175
3/28/2017 5:00	1015	1015	1175	1175
3/28/2017 6:00	1015	1015	1175	1176
3/28/2017 7:00	1015	1015	1175	1176
3/28/2017 8:00	1015	1015	1176	1176
3/28/2017 9:00	1015	1015	1176	1177
3/28/2017 10:00	1015	1016	1174	1177
3/28/2017 11:00	1015	1016	1174	1174
3/28/2017 12:00	1015	1016	1174	1175
3/28/2017 13:00	1016	1016	1175	1177
3/28/2017 14:00	1015	1016	1176	1177
3/28/2017 15:00	1015	1016	1175	1176
3/28/2017 16:00	1015	1016	1176	1177
3/28/2017 17:00	1015	1015	1176	1177
3/28/2017 18:00	1015	1015	1177	1177
3/28/2017 19:00	1015	1015	1177	1178

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

Date/Time	Viking Gas Transmission (Fargo)		Williston Basin Interstate (Mapleton)	
	Min BTU	Max BTU	Min BTU	Max BTU
3/28/2017 20:00	1015	1015	1145	1178
3/28/2017 21:00	1015	1015	1145	1147
3/28/2017 22:00	1015	1015	1147	1159
3/28/2017 23:00	1015	1015	1150	1159
3/29/2017 0:00	1015	1015	1155	1163
3/29/2017 1:00	1015	1015	1158	1166
3/29/2017 2:00	1015	1015	1158	1169
3/29/2017 3:00	1015	1015	1168	1174
3/29/2017 4:00	1015	1015	1171	1174
3/29/2017 5:00	1015	1015	1171	1175
3/29/2017 6:00	1015	1015	1167	1176
3/29/2017 7:00	1015	1015	1167	1177
3/29/2017 8:00	1015	1015	1167	1176
3/29/2017 9:00	1015	1015	1171	1180
3/29/2017 10:00	1015	1015	1171	1180
3/29/2017 11:00	1015	1016	1171	1177
3/29/2017 12:00	1016	1016	1171	1178
3/29/2017 13:00	1016	1016	1171	1177
3/29/2017 14:00	1016	1016	1172	1177
3/29/2017 15:00	1016	1016	1172	1177
3/29/2017 16:00	1016	1016	1176	1180
3/29/2017 17:00	1016	1016	1178	1180
3/29/2017 18:00	1015	1016	1175	1179
3/29/2017 19:00	1015	1015	1178	1179
3/29/2017 20:00	1015	1015	1178	1180
3/29/2017 21:00	1015	1015	1179	1181
3/29/2017 22:00	1015	1015	1176	1181
3/29/2017 23:00	1015	1015	1166	1177
3/30/2017 0:00	1015	1015	1161	1166
3/30/2017 1:00	1015	1015	1159	1161
3/30/2017 2:00	1015	1015	1161	1163
3/30/2017 3:00	1015	1015	1163	1166
3/30/2017 4:00	1015	1015	1165	1166
3/30/2017 5:00	1015	1015	1166	1169
3/30/2017 6:00	1015	1015	1169	1172
3/30/2017 7:00	1015	1015	1171	1174
3/30/2017 8:00	1015	1016	1174	1176
3/30/2017 9:00	1016	1016	1176	1182
3/30/2017 10:00	1016	1016	1180	1182
3/30/2017 11:00	1016	1016	1177	1182
3/30/2017 12:00	1016	1016	1177	1182
3/30/2017 13:00	1016	1016	1179	1184
3/30/2017 14:00	1016	1016	1181	1184
3/30/2017 15:00	1016	1016	1182	1184
3/30/2017 16:00	1016	1016	1181	1184
3/30/2017 17:00	1015	1016	1181	1186
3/30/2017 18:00	1015	1015	1184	1186
3/30/2017 19:00	1015	1015	1184	1185
3/30/2017 20:00	1015	1015	1184	1185
3/30/2017 21:00	1015	1015	1183	1186
3/30/2017 22:00	1015	1015	1181	1186
3/30/2017 23:00	1015	1015	1180	1185
3/31/2017 0:00	1015	1015	1180	1183
3/31/2017 1:00	1015	1015	1179	1181
3/31/2017 2:00	1015	1015	1180	1181
3/31/2017 3:00	1015	1015	1179	1181
3/31/2017 4:00	1015	1015	1180	1181
3/31/2017 5:00	1015	1015	1180	1182
3/31/2017 6:00	1015	1015	1180	1182
3/31/2017 7:00	1015	1015	1182	1187
3/31/2017 8:00	1015	1015	1185	1187
3/31/2017 9:00	1015	1016	1180	1185
3/31/2017 10:00	1016	1016	1180	1183
3/31/2017 11:00	1016	1016	1181	1184
3/31/2017 12:00	1016	1016	1180	1184
3/31/2017 13:00	1016	1016	1178	1180
3/31/2017 14:00	1016	1016	1178	1180
3/31/2017 15:00	1016	1017	1178	1179
3/31/2017 16:00	1017	1017	1179	1182
3/31/2017 17:00	1017	1017	1178	1182
3/31/2017 18:00	1017	1017	1178	1183
3/31/2017 19:00	1017	1017	1181	1183
3/31/2017 20:00	1017	1017	1181	1182
3/31/2017 21:00	1017	1017	1182	1183
3/31/2017 22:00	1017	1017	1182	1182
3/31/2017 23:00	1017	1017	1179	1182
	Min (Btu/cf)	Max (Btu/cf)	Min (Btu/cf)	Max (Btu/cf)
	1010	1025	1101	1193