



825 Rice Street
Saint Paul, MN 55117

August 14, 2018

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 July 2018 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 myself at 651-229-2282.

Sincerely,

Lisa Kallberg
Principal Consultant Gas 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
7/1/2018 0:00	1027	1028	1163	1165
7/1/2018 1:00	1027	1027	1165	1167
7/1/2018 2:00	1026	1027	1167	1170
7/1/2018 3:00	1025	1026	1167	1170
7/1/2018 4:00	1024	1025	1166	1168
7/1/2018 5:00	1024	1024	1166	1168
7/1/2018 6:00	1024	1024	1166	1167
7/1/2018 7:00	1024	1024	1166	1171
7/1/2018 8:00	1024	1024	1169	1171
7/1/2018 9:00	1024	1025	1171	1173
7/1/2018 10:00	1025	1025	1161	1163
7/1/2018 11:00	1025	1025	1161	1162
7/1/2018 12:00	1025	1025	1161	1162
7/1/2018 13:00	1025	1025	1161	1161
7/1/2018 14:00	1025	1025	1161	1164
7/1/2018 15:00	1025	1026	1163	1164
7/1/2018 16:00	1026	1026	1161	1163
7/1/2018 17:00	1026	1026	1161	1162
7/1/2018 18:00	1026	1026	1161	1161
7/1/2018 19:00	1026	1026	1161	1162
7/1/2018 20:00	1026	1027	1162	1164
7/1/2018 21:00	1027	1027	1163	1164
7/1/2018 22:00	1027	1028	1161	1163
7/1/2018 23:00	1028	1029	1161	1162
7/2/2018 0:00	1029	1031	1159	1162
7/2/2018 1:00	1031	1031	1157	1160
7/2/2018 2:00	1031	1032	1157	1162
7/2/2018 3:00	1031	1032	1159	1162
7/2/2018 4:00	1030	1031	1159	1161
7/2/2018 5:00	1030	1030	1160	1162
7/2/2018 6:00	1030	1031	1159	1162
7/2/2018 7:00	1031	1032	1155	1159
7/2/2018 8:00	1032	1032	1156	1158
7/2/2018 9:00	1032	1032	1156	1158
7/2/2018 10:00	1031	1032	1154	1157
7/2/2018 11:00	1029	1031	1154	1157
7/2/2018 12:00	1029	1029	1156	1158
7/2/2018 13:00	1029	1029	1158	1159
7/2/2018 14:00	1029	1030	1158	1159
7/2/2018 15:00	1030	1031	1158	1161
7/2/2018 16:00	1030	1031	1158	1161
7/2/2018 17:00	1030	1030	1157	1158
7/2/2018 18:00	1030	1031	1157	1159
7/2/2018 19:00	1031	1031	1158	1159
7/2/2018 20:00	1031	1032	1159	1159
7/2/2018 21:00	1032	1032	1159	1164
7/2/2018 22:00	1032	1033	1164	1200
7/2/2018 23:00	1033	1034	1200	1200
7/3/2018 0:00	1034	1035	1200	1200
7/3/2018 1:00	1035	1035	1200	1200
7/3/2018 2:00	1035	1035	1200	1200
7/3/2018 3:00	1034	1035	1200	1200
7/3/2018 4:00	1034	1034	1200	1200
7/3/2018 5:00	1034	1034	1200	1200
7/3/2018 6:00	1034	1034	1200	1200
7/3/2018 7:00	1034	1034	1200	1200
7/3/2018 8:00	1034	1034	1175	1200
7/3/2018 9:00	1034	1034	1167	1175
7/3/2018 10:00	1034	1034	1163	1167
7/3/2018 11:00	1034	1035	1158	1163
7/3/2018 12:00	1035	1035	1157	1158
7/3/2018 13:00	1035	1035	1158	1169
7/3/2018 14:00	1035	1035	1168	1169
7/3/2018 15:00	1035	1035	1168	1169
7/3/2018 16:00	1035	1035	1167	1169
7/3/2018 17:00	1035	1035	1168	1168
7/3/2018 18:00	1035	1035	1168	1171

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
7/3/2018 19:00	1035	1035	1170	1171
7/3/2018 20:00	1035	1035	1170	1171
7/3/2018 21:00	1035	1035	1171	1172
7/3/2018 22:00	1035	1036	1167	1171
7/3/2018 23:00	1036	1036	1167	1168
7/4/2018 0:00	1036	1036	1165	1168
7/4/2018 1:00	1036	1036	1164	1165
7/4/2018 2:00	1035	1036	1165	1165
7/4/2018 3:00	1033	1035	1163	1165
7/4/2018 4:00	1032	1033	1163	1180
7/4/2018 5:00	1032	1032	1172	1200
7/4/2018 6:00	1032	1032	1200	1200
7/4/2018 7:00	1032	1032	1200	1200
7/4/2018 8:00	1032	1032	1200	1200
7/4/2018 9:00	1032	1033	1184	1200
7/4/2018 10:00	1033	1033	1178	1185
7/4/2018 11:00	1033	1033	1165	1178
7/4/2018 12:00	1033	1033	1161	1165
7/4/2018 13:00	1033	1033	1161	1166
7/4/2018 14:00	1033	1033	1166	1166
7/4/2018 15:00	1033	1033	1166	1167
7/4/2018 16:00	1032	1033	1166	1175
7/4/2018 17:00	1032	1032	1175	1192
7/4/2018 18:00	1032	1032	1189	1200
7/4/2018 19:00	1032	1035	1160	1189
7/4/2018 20:00	1035	1039	1160	1171
7/4/2018 21:00	1039	1043	1169	1171
7/4/2018 22:00	1043	1046	1169	1170
7/4/2018 23:00	1043	1048	1170	1172
7/5/2018 0:00	1048	1048	1171	1172
7/5/2018 1:00	1048	1048	1169	1171
7/5/2018 2:00	1048	1048	1169	1171
7/5/2018 3:00	1048	1048	1171	1171
7/5/2018 4:00	1047	1048	1171	1171
7/5/2018 5:00	1046	1047	1171	1173
7/5/2018 6:00	1045	1046	1173	1174
7/5/2018 7:00	1044	1045	1173	1176
7/5/2018 8:00	1043	1044	1175	1176
7/5/2018 9:00	1042	1043	1172	1175
7/5/2018 10:00	1042	1042	1170	1172
7/5/2018 11:00	1042	1042	1164	1170
7/5/2018 12:00	1042	1042	1160	1165
7/5/2018 13:00	1042	1042	1165	1170
7/5/2018 14:00	1042	1042	1165	1168
7/5/2018 15:00	1041	1042	1165	1169
7/5/2018 16:00	1041	1041	1168	1169
7/5/2018 17:00	1041	1041	1166	1168
7/5/2018 18:00	1041	1042	1167	1169
7/5/2018 19:00	1042	1043	1166	1169
7/5/2018 20:00	1043	1044	1166	1170
7/5/2018 21:00	1044	1044	1168	1170
7/5/2018 22:00	1043	1044	1168	1169
7/5/2018 23:00	1043	1043	1169	1169
7/6/2018 0:00	1042	1043	1169	1169
7/6/2018 1:00	1040	1042	1164	1169
7/6/2018 2:00	1039	1040	1160	1164
7/6/2018 3:00	1039	1039	1159	1160
7/6/2018 4:00	1038	1039	1155	1159
7/6/2018 5:00	1037	1038	1153	1156
7/6/2018 6:00	1035	1037	1152	1153
7/6/2018 7:00	1034	1035	1149	1152
7/6/2018 8:00	1033	1034	1146	1149
7/6/2018 9:00	1031	1033	1144	1146
7/6/2018 10:00	1028	1031	1143	1145
7/6/2018 11:00	1026	1028	1141	1143
7/6/2018 12:00	1026	1026	1140	1141
7/6/2018 13:00	1025	1026	1138	1140
7/6/2018 14:00	1025	1025	1139	1150
7/6/2018 15:00	1025	1025	1150	1150
7/6/2018 16:00	1025	1026	1144	1144
7/6/2018 17:00	1026	1026	1140	1144
7/6/2018 18:00	1025	1026	1140	1141
7/6/2018 19:00	1025	1025	1140	1144
7/6/2018 20:00	1025	1025	1144	1146
7/6/2018 21:00	1025	1025	1146	1147

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
7/6/2018 22:00	1025	1025	1147	1150
7/6/2018 23:00	1025	1025	1150	1153
7/7/2018 0:00	1025	1025	1153	1154
7/7/2018 1:00	1025	1025	1153	1153
7/7/2018 2:00	1025	1025	1152	1153
7/7/2018 3:00	1025	1025	1153	1155
7/7/2018 4:00	1025	1026	1155	1155
7/7/2018 5:00	1026	1026	1154	1156
7/7/2018 6:00	1026	1026	1154	1155
7/7/2018 7:00	1026	1026	1155	1161
7/7/2018 8:00	1026	1026	1160	1162
7/7/2018 9:00	1026	1027	1161	1162
7/7/2018 10:00	1027	1027	1156	1161
7/7/2018 11:00	1027	1027	1156	1162
7/7/2018 12:00	1027	1027	1153	1162
7/7/2018 13:00	1027	1027	1148	1153
7/7/2018 14:00	1027	1027	1146	1148
7/7/2018 15:00	1027	1027	1146	1146
7/7/2018 16:00	1027	1027	1144	1146
7/7/2018 17:00	1027	1027	1145	1146
7/7/2018 18:00	1026	1027	1146	1149
7/7/2018 19:00	1026	1027	1149	1149
7/7/2018 20:00	1027	1028	1149	1149
7/7/2018 21:00	1028	1029	1149	1153
7/7/2018 22:00	1029	1031	1153	1157
7/7/2018 23:00	1031	1032	1157	1161
7/8/2018 0:00	1032	1033	1159	1161
7/8/2018 1:00	1033	1034	1159	1162
7/8/2018 2:00	1034	1034	1162	1166
7/8/2018 3:00	1033	1034	1166	1166
7/8/2018 4:00	1032	1033	1162	1166
7/8/2018 5:00	1031	1032	1162	1163
7/8/2018 6:00	1030	1031	1163	1164
7/8/2018 7:00	1030	1031	1160	1163
7/8/2018 8:00	1031	1031	1158	1160
7/8/2018 9:00	1031	1032	1157	1158
7/8/2018 10:00	1032	1033	1153	1158
7/8/2018 11:00	1033	1034	1149	1156
7/8/2018 12:00	1034	1034	1149	1150
7/8/2018 13:00	1034	1034	1149	1150
7/8/2018 14:00	1032	1034	1144	1149
7/8/2018 15:00	1032	1033	1143	1144
7/8/2018 16:00	1033	1034	1143	1146
7/8/2018 17:00	1034	1034	1146	1148
7/8/2018 18:00	1034	1034	1144	1146
7/8/2018 19:00	1034	1035	1142	1145
7/8/2018 20:00	1035	1035	1142	1145
7/8/2018 21:00	1035	1036	1144	1145
7/8/2018 22:00	1036	1036	1144	1146
7/8/2018 23:00	1036	1037	1146	1148
7/9/2018 0:00	1037	1037	1148	1152
7/9/2018 1:00	1037	1039	1152	1157
7/9/2018 2:00	1039	1039	1157	1159
7/9/2018 3:00	1039	1040	1159	1160
7/9/2018 4:00	1039	1040	1158	1161
7/9/2018 5:00	1039	1039	1159	1161
7/9/2018 6:00	1039	1039	1159	1162
7/9/2018 7:00	1037	1039	1159	1163
7/9/2018 8:00	1036	1037	1158	1163
7/9/2018 9:00	1032	1036	1155	1158
7/9/2018 10:00	1032	1032	1154	1155
7/9/2018 11:00	1031	1032	1149	1154
7/9/2018 12:00	1031	1031	1147	1149
7/9/2018 13:00	1031	1031	1145	1147
7/9/2018 14:00	1031	1031	1144	1145
7/9/2018 15:00	1030	1031	1144	1145
7/9/2018 16:00	1030	1030	1145	1148
7/9/2018 17:00	1030	1030	1148	1149
7/9/2018 18:00	1030	1030	1147	1149
7/9/2018 19:00	1029	1030	1148	1150
7/9/2018 20:00	1029	1029	1150	1151
7/9/2018 21:00	1028	1029	1151	1152
7/9/2018 22:00	1028	1028	1152	1154
7/9/2018 23:00	1028	1029	1153	1155
7/10/2018 0:00	1029	1029	1153	1154

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
7/10/2018 1:00	1028	1029	1153	1154
7/10/2018 2:00	1028	1028	1154	1154
7/10/2018 3:00	1028	1029	1154	1154
7/10/2018 4:00	1028	1029	1154	1154
7/10/2018 5:00	1027	1028	1154	1156
7/10/2018 6:00	1025	1027	1154	1156
7/10/2018 7:00	1025	1025	1154	1155
7/10/2018 8:00	1024	1025	1154	1155
7/10/2018 9:00	1024	1026	1153	1154
7/10/2018 10:00	1026	1026	1151	1153
7/10/2018 11:00	1026	1027	1145	1151
7/10/2018 12:00	1027	1028	1144	1145
7/10/2018 13:00	1028	1029	1143	1145
7/10/2018 14:00	1029	1029	1144	1146
7/10/2018 15:00	1029	1029	1143	1147
7/10/2018 16:00	1029	1029	1143	1145
7/10/2018 17:00	1029	1029	1145	1147
7/10/2018 18:00	1029	1029	1142	1146
7/10/2018 19:00	1028	1029	1142	1148
7/10/2018 20:00	1028	1028	1148	1155
7/10/2018 21:00	1027	1028	1155	1157
7/10/2018 22:00	1027	1027	1157	1158
7/10/2018 23:00	1027	1027	1158	1159
7/11/2018 0:00	1027	1027	1156	1158
7/11/2018 1:00	1027	1027	1156	1157
7/11/2018 2:00	1027	1028	1156	1157
7/11/2018 3:00	1028	1029	1155	1158
7/11/2018 4:00	1029	1030	1155	1158
7/11/2018 5:00	1030	1030	1154	1156
7/11/2018 6:00	1029	1030	1151	1154
7/11/2018 7:00	1028	1029	1151	1153
7/11/2018 8:00	1028	1028	1153	1156
7/11/2018 9:00	1028	1028	1155	1156
7/11/2018 10:00	1028	1028	1152	1155
7/11/2018 11:00	1028	1028	1148	1152
7/11/2018 12:00	1027	1028	1145	1148
7/11/2018 13:00	1027	1027	1145	1149
7/11/2018 14:00	1027	1027	1149	1152
7/11/2018 15:00	1027	1027	1142	1150
7/11/2018 16:00	1027	1027	1142	1144
7/11/2018 17:00	1027	1027	1143	1144
7/11/2018 18:00	1027	1027	1143	1144
7/11/2018 19:00	1027	1027	1142	1143
7/11/2018 20:00	1027	1027	1143	1150
7/11/2018 21:00	1027	1027	1150	1154
7/11/2018 22:00	1027	1028	1154	1158
7/11/2018 23:00	1028	1028	1158	1160
7/12/2018 0:00	1028	1028	1159	1164
7/12/2018 1:00	1028	1028	1164	1167
7/12/2018 2:00	1028	1028	1159	1165
7/12/2018 3:00	1028	1028	1156	1159
7/12/2018 4:00	1028	1028	1159	1161
7/12/2018 5:00	1028	1028	1161	1163
7/12/2018 6:00	1028	1028	1161	1163
7/12/2018 7:00	1027	1028	1157	1162
7/12/2018 8:00	1027	1027	1157	1158
7/12/2018 9:00	1026	1027	1156	1158
7/12/2018 10:00	1026	1026	1155	1156
7/12/2018 11:00	1026	1026	1144	1155
7/12/2018 12:00	1026	1026	1139	1144
7/12/2018 13:00	1026	1026	1139	1140
7/12/2018 14:00	1026	1026	1137	1140
7/12/2018 15:00	1025	1026	1138	1139
7/12/2018 16:00	1025	1025	1138	1140
7/12/2018 17:00	1025	1026	1139	1147
7/12/2018 18:00	1026	1027	1147	1149
7/12/2018 19:00	1027	1028	1145	1147
7/12/2018 20:00	1028	1028	1146	1147
7/12/2018 21:00	1028	1028	1146	1147
7/12/2018 22:00	1028	1028	1144	1146
7/12/2018 23:00	1028	1028	1144	1147
7/13/2018 0:00	1028	1028	1147	1151
7/13/2018 1:00	1027	1028	1150	1150
7/13/2018 2:00	1027	1027	1150	1153
7/13/2018 3:00	1027	1028	1153	1155

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
7/13/2018 4:00	1028	1028	1155	1158
7/13/2018 5:00	1027	1028	1158	1161
7/13/2018 6:00	1027	1027	1160	1161
7/13/2018 7:00	1027	1027	1160	1161
7/13/2018 8:00	1027	1027	1161	1163
7/13/2018 9:00	1027	1027	1158	1163
7/13/2018 10:00	1026	1027	1158	1159
7/13/2018 11:00	1026	1026	1152	1159
7/13/2018 12:00	1026	1026	1148	1152
7/13/2018 13:00	1026	1026	1143	1148
7/13/2018 14:00	1026	1026	1141	1143
7/13/2018 15:00	1026	1026	1138	1141
7/13/2018 16:00	1026	1026	1138	1139
7/13/2018 17:00	1026	1026	1136	1140
7/13/2018 18:00	1026	1029	1140	1145
7/13/2018 19:00	1029	1032	1141	1143
7/13/2018 20:00	1032	1035	1141	1146
7/13/2018 21:00	1035	1035	1146	1150
7/13/2018 22:00	1035	1036	1150	1154
7/13/2018 23:00	1036	1037	1154	1157
7/14/2018 0:00	1035	1037	1157	1166
7/14/2018 1:00	1034	1035	1162	1166
7/14/2018 2:00	1033	1034	1162	1163
7/14/2018 3:00	1031	1033	1162	1163
7/14/2018 4:00	1029	1031	1161	1162
7/14/2018 5:00	1027	1029	1162	1165
7/14/2018 6:00	1026	1027	1163	1165
7/14/2018 7:00	1026	1026	1162	1164
7/14/2018 8:00	1026	1026	1164	1167
7/14/2018 9:00	1025	1026	1165	1167
7/14/2018 10:00	1025	1025	1165	1166
7/14/2018 11:00	1025	1025	1162	1165
7/14/2018 12:00	1025	1025	1159	1162
7/14/2018 13:00	1025	1025	1157	1164
7/14/2018 14:00	1025	1025	1158	1164
7/14/2018 15:00	1025	1025	1154	1158
7/14/2018 16:00	1025	1025	1151	1154
7/14/2018 17:00	1024	1025	1151	1152
7/14/2018 18:00	1024	1024	1151	1157
7/14/2018 19:00	1024	1024	1152	1157
7/14/2018 20:00	1024	1024	1149	1152
7/14/2018 21:00	1024	1024	1148	1149
7/14/2018 22:00	1024	1024	1148	1149
7/14/2018 23:00	1024	1024	1149	1153
7/15/2018 0:00	1024	1024	1153	1157
7/15/2018 1:00	1023	1024	1156	1158
7/15/2018 2:00	1023	1023	1156	1157
7/15/2018 3:00	1023	1024	1157	1166
7/15/2018 4:00	1024	1024	1166	1171
7/15/2018 5:00	1024	1024	1171	1187
7/15/2018 6:00	1024	1024	1180	1187
7/15/2018 7:00	1024	1024	1175	1180
7/15/2018 8:00	1024	1024	1164	1175
7/15/2018 9:00	1024	1024	1159	1164
7/15/2018 10:00	1023	1024	1153	1159
7/15/2018 11:00	1023	1024	1146	1153
7/15/2018 12:00	1023	1024	1142	1146
7/15/2018 13:00	1023	1023	1136	1142
7/15/2018 14:00	1022	1023	1137	1140
7/15/2018 15:00	1022	1022	1140	1141
7/15/2018 16:00	1022	1022	1141	1142
7/15/2018 17:00	1022	1023	1140	1142
7/15/2018 18:00	1023	1023	1140	1141
7/15/2018 19:00	1023	1024	1141	1141
7/15/2018 20:00	1024	1024	1140	1141
7/15/2018 21:00	1024	1025	1139	1140
7/15/2018 22:00	1025	1027	1138	1139
7/15/2018 23:00	1027	1031	1138	1140
7/16/2018 0:00	1031	1034	1140	1142
7/16/2018 1:00	1034	1036	1142	1146
7/16/2018 2:00	1036	1038	1146	1148
7/16/2018 3:00	1038	1040	1148	1151
7/16/2018 4:00	1040	1041	1151	1152
7/16/2018 5:00	1041	1041	1152	1155
7/16/2018 6:00	1041	1041	1153	1155

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
7/16/2018 7:00	1040	1041	1153	1153
7/16/2018 8:00	1040	1040	1153	1154
7/16/2018 9:00	1040	1042	1154	1155
7/16/2018 10:00	1042	1042	1153	1156
7/16/2018 11:00	1042	1042	1149	1153
7/16/2018 12:00	1042	1043	1137	1149
7/16/2018 13:00	1043	1044	1134	1137
7/16/2018 14:00	1044	1045	1133	1135
7/16/2018 15:00	1044	1045	1132	1133
7/16/2018 16:00	1044	1045	1131	1132
7/16/2018 17:00	1045	1045	1130	1131
7/16/2018 18:00	1045	1045	1129	1130
7/16/2018 19:00	1044	1045	1129	1130
7/16/2018 20:00	1044	1044	1129	1131
7/16/2018 21:00	1043	1044	1131	1133
7/16/2018 22:00	1043	1043	1133	1136
7/16/2018 23:00	1042	1043	1136	1137
7/17/2018 0:00	1040	1042	1137	1138
7/17/2018 1:00	1039	1040	1137	1139
7/17/2018 2:00	1038	1039	1139	1139
7/17/2018 3:00	1036	1038	1139	1140
7/17/2018 4:00	1033	1036	1139	1142
7/17/2018 5:00	1032	1033	1142	1143
7/17/2018 6:00	1032	1032	1141	1142
7/17/2018 7:00	1029	1032	1141	1143
7/17/2018 8:00	1028	1029	1142	1143
7/17/2018 9:00	1027	1028	1142	1143
7/17/2018 10:00	1027	1027	1141	1144
7/17/2018 11:00	1027	1027	1139	1142
7/17/2018 12:00	1027	1027	1134	1139
7/17/2018 13:00	1027	1027	1133	1134
7/17/2018 14:00	1026	1027	1131	1133
7/17/2018 15:00	1026	1026	1129	1131
7/17/2018 16:00	1026	1026	1126	1129
7/17/2018 17:00	1026	1026	1125	1127
7/17/2018 18:00	1026	1026	1126	1126
7/17/2018 19:00	1026	1026	1126	1128
7/17/2018 20:00	1026	1027	1126	1127
7/17/2018 21:00	1027	1027	1126	1130
7/17/2018 22:00	1027	1027	1130	1133
7/17/2018 23:00	1027	1028	1133	1135
7/18/2018 0:00	1028	1028	1135	1138
7/18/2018 1:00	1028	1029	1138	1139
7/18/2018 2:00	1029	1029	1139	1142
7/18/2018 3:00	1029	1029	1142	1143
7/18/2018 4:00	1029	1029	1143	1148
7/18/2018 5:00	1029	1029	1146	1149
7/18/2018 6:00	1029	1029	1145	1146
7/18/2018 7:00	1029	1029	1143	1145
7/18/2018 8:00	1029	1029	1141	1143
7/18/2018 9:00	1029	1029	1138	1141
7/18/2018 10:00	1029	1029	1136	1138
7/18/2018 11:00	1029	1029	1135	1136
7/18/2018 12:00	1029	1029	1134	1135
7/18/2018 13:00	1029	1029	1135	1135
7/18/2018 14:00	1028	1029	1135	1135
7/18/2018 15:00	1028	1028	1135	1135
7/18/2018 16:00	1027	1028	1135	1136
7/18/2018 17:00	1027	1027	1135	1137
7/18/2018 18:00	1027	1027	1137	1139
7/18/2018 19:00	1027	1028	1137	1139
7/18/2018 20:00	1028	1028	1136	1138
7/18/2018 21:00	1028	1028	1137	1140
7/18/2018 22:00	1028	1028	1140	1140
7/18/2018 23:00	1028	1028	1140	1145
7/19/2018 0:00	1028	1028	1145	1148
7/19/2018 1:00	1028	1028	1147	1148
7/19/2018 2:00	1028	1029	1147	1154
7/19/2018 3:00	1029	1029	1154	1164
7/19/2018 4:00	1029	1029	1161	1168
7/19/2018 5:00	1029	1029	1148	1161
7/19/2018 6:00	1029	1029	1144	1148
7/19/2018 7:00	1029	1029	1143	1144
7/19/2018 8:00	1029	1029	1143	1147
7/19/2018 9:00	1029	1029	1147	1151

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
7/19/2018 10:00	1029	1029	1151	1159
7/19/2018 11:00	1028	1029	1159	1160
7/19/2018 12:00	1028	1028	1159	1159
7/19/2018 13:00	1028	1028	1155	1159
7/19/2018 14:00	1028	1028	1153	1155
7/19/2018 15:00	1027	1028	1148	1153
7/19/2018 16:00	1027	1027	1145	1148
7/19/2018 17:00	1027	1027	1145	1145
7/19/2018 18:00	1027	1027	1142	1145
7/19/2018 19:00	1027	1027	1142	1144
7/19/2018 20:00	1027	1028	1143	1145
7/19/2018 21:00	1028	1030	1143	1144
7/19/2018 22:00	1030	1032	1143	1144
7/19/2018 23:00	1032	1032	1143	1146
7/20/2018 0:00	1032	1033	1144	1147
7/20/2018 1:00	1033	1033	1147	1153
7/20/2018 2:00	1033	1033	1153	1154
7/20/2018 3:00	1033	1034	1154	1156
7/20/2018 4:00	1033	1034	1152	1154
7/20/2018 5:00	1033	1033	1152	1155
7/20/2018 6:00	1033	1033	1151	1158
7/20/2018 7:00	1032	1033	1149	1151
7/20/2018 8:00	1032	1032	1150	1152
7/20/2018 9:00	1031	1032	1149	1151
7/20/2018 10:00	1030	1031	1149	1152
7/20/2018 11:00	1030	1030	1147	1150
7/20/2018 12:00	1029	1030	1147	1149
7/20/2018 13:00	1029	1029	1149	1152
7/20/2018 14:00	1029	1029	1152	1152
7/20/2018 15:00	1029	1029	1148	1152
7/20/2018 16:00	1029	1029	1145	1148
7/20/2018 17:00	1029	1029	1145	1146
7/20/2018 18:00	1029	1029	1146	1146
7/20/2018 19:00	1029	1029	1144	1146
7/20/2018 20:00	1029	1030	1142	1144
7/20/2018 21:00	1030	1030	1142	1144
7/20/2018 22:00	1030	1030	1144	1145
7/20/2018 23:00	1030	1031	1145	1145
7/21/2018 0:00	1030	1031	1144	1145
7/21/2018 1:00	1030	1031	1145	1146
7/21/2018 2:00	1031	1032	1146	1146
7/21/2018 3:00	1032	1034	1145	1146
7/21/2018 4:00	1034	1035	1146	1148
7/21/2018 5:00	1035	1036	1148	1149
7/21/2018 6:00	1035	1036	1148	1149
7/21/2018 7:00	1035	1035	1148	1149
7/21/2018 8:00	1034	1035	1148	1149
7/21/2018 9:00	1033	1034	1149	1150
7/21/2018 10:00	1032	1033	1146	1149
7/21/2018 11:00	1032	1032	1143	1146
7/21/2018 12:00	1031	1032	1139	1143
7/21/2018 13:00	1031	1031	1139	1142
7/21/2018 14:00	1031	1031	1142	1144
7/21/2018 15:00	1031	1031	1144	1155
7/21/2018 16:00	1031	1031	1145	1150
7/21/2018 17:00	1031	1031	1145	1146
7/21/2018 18:00	1031	1031	1146	1151
7/21/2018 19:00	1031	1031	1151	1151
7/21/2018 20:00	1031	1032	1150	1151
7/21/2018 21:00	1032	1032	1149	1151
7/21/2018 22:00	1032	1033	1149	1149
7/21/2018 23:00	1033	1033	1149	1151
7/22/2018 0:00	1033	1033	1150	1151
7/22/2018 1:00	1033	1034	1149	1151
7/22/2018 2:00	1034	1034	1149	1149
7/22/2018 3:00	1033	1034	1149	1151
7/22/2018 4:00	1032	1033	1150	1151
7/22/2018 5:00	1031	1032	1151	1151
7/22/2018 6:00	1030	1031	1148	1151
7/22/2018 7:00	1030	1030	1148	1148
7/22/2018 8:00	1030	1030	1148	1148
7/22/2018 9:00	1030	1031	1148	1149
7/22/2018 10:00	1031	1031	1146	1148
7/22/2018 11:00	1031	1031	1142	1147
7/22/2018 12:00	1031	1031	1141	1142

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
7/22/2018 13:00	1030	1031	1142	1143
7/22/2018 14:00	1030	1031	1142	1145
7/22/2018 15:00	1030	1031	1145	1147
7/22/2018 16:00	1031	1031	1145	1147
7/22/2018 17:00	1031	1031	1142	1145
7/22/2018 18:00	1031	1031	1142	1144
7/22/2018 19:00	1031	1031	1144	1145
7/22/2018 20:00	1031	1032	1143	1145
7/22/2018 21:00	1032	1032	1145	1146
7/22/2018 22:00	1032	1032	1146	1147
7/22/2018 23:00	1032	1032	1147	1147
7/23/2018 0:00	1032	1032	1145	1147
7/23/2018 1:00	1032	1033	1146	1149
7/23/2018 2:00	1033	1033	1148	1152
7/23/2018 3:00	1033	1033	1149	1154
7/23/2018 4:00	1033	1033	1154	1159
7/23/2018 5:00	1033	1033	1159	1162
7/23/2018 6:00	1032	1033	1161	1162
7/23/2018 7:00	1032	1032	1161	1162
7/23/2018 8:00	1032	1032	1160	1161
7/23/2018 9:00	1032	1032	1159	1161
7/23/2018 10:00	1032	1032	1157	1159
7/23/2018 11:00	1031	1032	1152	1157
7/23/2018 12:00	1031	1031	1144	1153
7/23/2018 13:00	1031	1031	1143	1148
7/23/2018 14:00	1031	1031	1142	1151
7/23/2018 15:00	1031	1031	1147	1151
7/23/2018 16:00	1030	1031	1144	1147
7/23/2018 17:00	1030	1030	1143	1145
7/23/2018 18:00	1030	1030	1144	1145
7/23/2018 19:00	1030	1030	1144	1145
7/23/2018 20:00	1030	1030	1144	1145
7/23/2018 21:00	1030	1031	1144	1146
7/23/2018 22:00	1031	1031	1146	1148
7/23/2018 23:00	1031	1031	1148	1150
7/24/2018 0:00	1031	1031	1150	1151
7/24/2018 1:00	1031	1031	1151	1151
7/24/2018 2:00	1031	1031	1151	1152
7/24/2018 3:00	1031	1031	1151	1153
7/24/2018 4:00	1031	1031	1153	1161
7/24/2018 5:00	1031	1031	1161	1166
7/24/2018 6:00	1031	1031	1163	1167
7/24/2018 7:00	1031	1031	1166	1167
7/24/2018 8:00	1030	1031	1160	1166
7/24/2018 9:00	1030	1030	1157	1160
7/24/2018 10:00	1030	1030	1153	1157
7/24/2018 11:00	1030	1030	1145	1153
7/24/2018 12:00	1030	1030	1139	1145
7/24/2018 13:00	1030	1030	1138	1143
7/24/2018 14:00	1030	1030	1143	1146
7/24/2018 15:00	1030	1030	1143	1145
7/24/2018 16:00	1030	1030	1143	1147
7/24/2018 17:00	1030	1030	1143	1147
7/24/2018 18:00	1030	1030	1143	1144
7/24/2018 19:00	1030	1030	1143	1145
7/24/2018 20:00	1030	1030	1144	1145
7/24/2018 21:00	1030	1030	1144	1145
7/24/2018 22:00	1030	1030	1145	1147
7/24/2018 23:00	1029	1030	1146	1148
7/25/2018 0:00	1029	1029	1146	1149
7/25/2018 1:00	1029	1029	1149	1152
7/25/2018 2:00	1029	1029	1150	1151
7/25/2018 3:00	1029	1029	1151	1154
7/25/2018 4:00	1029	1029	1152	1153
7/25/2018 5:00	1029	1029	1152	1153
7/25/2018 6:00	1029	1029	1152	1155
7/25/2018 7:00	1029	1029	1153	1155
7/25/2018 8:00	1029	1029	1144	1153
7/25/2018 9:00	1028	1029	1144	1145
7/25/2018 10:00	1028	1028	1145	1146
7/25/2018 11:00	1028	1028	1145	1145
7/25/2018 12:00	1028	1028	1143	1145
7/25/2018 13:00	1028	1028	1143	1145
7/25/2018 14:00	1028	1029	1145	1147
7/25/2018 15:00	1029	1029	1146	1148

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
7/25/2018 16:00	1029	1029	1147	1149
7/25/2018 17:00	1029	1029	1149	1151
7/25/2018 18:00	1029	1029	1150	1151
7/25/2018 19:00	1029	1029	1151	1153
7/25/2018 20:00	1028	1029	1152	1153
7/25/2018 21:00	1028	1028	1152	1153
7/25/2018 22:00	1028	1028	1153	1155
7/25/2018 23:00	1028	1028	1152	1155
7/26/2018 0:00	1028	1028	1150	1152
7/26/2018 1:00	1028	1028	1149	1151
7/26/2018 2:00	1028	1029	1148	1149
7/26/2018 3:00	1029	1029	1145	1148
7/26/2018 4:00	1029	1029	1145	1145
7/26/2018 5:00	1028	1029	1145	1147
7/26/2018 6:00	1027	1028	1147	1148
7/26/2018 7:00	1027	1027	1148	1149
7/26/2018 8:00	1027	1027	1148	1148
7/26/2018 9:00	1027	1027	1148	1149
7/26/2018 10:00	1027	1027	1147	1148
7/26/2018 11:00	1027	1027	1147	1148
7/26/2018 12:00	1027	1027	1147	1149
7/26/2018 13:00	1027	1027	1149	1153
7/26/2018 14:00	1027	1027	1150	1153
7/26/2018 15:00	1027	1027	1153	1156
7/26/2018 16:00	1027	1027	1156	1158
7/26/2018 17:00	1027	1027	1157	1158
7/26/2018 18:00	1027	1027	1157	1158
7/26/2018 19:00	1027	1027	1158	1159
7/26/2018 20:00	1027	1027	1158	1159
7/26/2018 21:00	1027	1027	1159	1160
7/26/2018 22:00	1027	1027	1157	1160
7/26/2018 23:00	1027	1027	1155	1157
7/27/2018 0:00	1027	1027	1154	1155
7/27/2018 1:00	1027	1028	1154	1155
7/27/2018 2:00	1028	1028	1153	1155
7/27/2018 3:00	1028	1028	1147	1153
7/27/2018 4:00	1028	1028	1141	1147
7/27/2018 5:00	1028	1028	1141	1143
7/27/2018 6:00	1027	1028	1143	1145
7/27/2018 7:00	1027	1027	1145	1146
7/27/2018 8:00	1027	1027	1146	1147
7/27/2018 9:00	1026	1027	1147	1147
7/27/2018 10:00	1026	1026	1147	1147
7/27/2018 11:00	1025	1026	1147	1147
7/27/2018 12:00	1025	1025	1147	1147
7/27/2018 13:00	1025	1025	1144	1147
7/27/2018 14:00	1025	1025	1144	1146
7/27/2018 15:00	1025	1025	1146	1150
7/27/2018 16:00	1025	1026	1150	1150
7/27/2018 17:00	1026	1026	1150	1152
7/27/2018 18:00	1026	1026	1152	1155
7/27/2018 19:00	1026	1026	1152	1155
7/27/2018 20:00	1026	1026	1152	1153
7/27/2018 21:00	1026	1026	1153	1155
7/27/2018 22:00	1025	1026	1155	1156
7/27/2018 23:00	1025	1025	1154	1155
7/28/2018 0:00	1025	1026	1155	1157
7/28/2018 1:00	1026	1026	1149	1156
7/28/2018 2:00	1026	1026	1148	1149
7/28/2018 3:00	1026	1027	1148	1149
7/28/2018 4:00	1027	1027	1142	1148
7/28/2018 5:00	1027	1027	1139	1142
7/28/2018 6:00	1027	1027	1139	1141
7/28/2018 7:00	1027	1027	1141	1143
7/28/2018 8:00	1027	1027	1143	1144
7/28/2018 9:00	1027	1027	1144	1145
7/28/2018 10:00	1027	1027	1144	1145
7/28/2018 11:00	1027	1027	1144	1145
7/28/2018 12:00	1027	1027	1144	1145
7/28/2018 13:00	1027	1027	1145	1147
7/28/2018 14:00	1027	1027	1146	1149
7/28/2018 15:00	1026	1027	1149	1196
7/28/2018 16:00	1026	1026	1163	1196
7/28/2018 17:00	1026	1026	1157	1164
7/28/2018 18:00	1026	1026	1156	1158

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
7/28/2018 19:00	1025	1026	1152	1157
7/28/2018 20:00	1025	1025	1148	1152
7/28/2018 21:00	1025	1025	1146	1149
7/28/2018 22:00	1025	1025	1146	1146
7/28/2018 23:00	1025	1025	1145	1147
7/29/2018 0:00	1025	1025	1144	1145
7/29/2018 1:00	1025	1026	1143	1144
7/29/2018 2:00	1026	1026	1139	1144
7/29/2018 3:00	1026	1027	1138	1139
7/29/2018 4:00	1027	1027	1138	1143
7/29/2018 5:00	1027	1027	1143	1146
7/29/2018 6:00	1027	1027	1145	1146
7/29/2018 7:00	1026	1027	1146	1147
7/29/2018 8:00	1026	1026	1146	1147
7/29/2018 9:00	1026	1026	1147	1148
7/29/2018 10:00	1026	1026	1146	1147
7/29/2018 11:00	1026	1026	1145	1146
7/29/2018 12:00	1026	1026	1145	1146
7/29/2018 13:00	1026	1026	1144	1145
7/29/2018 14:00	1025	1026	1144	1145
7/29/2018 15:00	1025	1025	1145	1146
7/29/2018 16:00	1025	1025	1145	1146
7/29/2018 17:00	1025	1026	1145	1146
7/29/2018 18:00	1026	1026	1145	1146
7/29/2018 19:00	1026	1026	1146	1148
7/29/2018 20:00	1026	1026	1148	1151
7/29/2018 21:00	1026	1026	1148	1150
7/29/2018 22:00	1026	1026	1147	1148
7/29/2018 23:00	1026	1026	1148	1151
7/30/2018 0:00	1026	1026	1151	1152
7/30/2018 1:00	1026	1026	1148	1152
7/30/2018 2:00	1025	1026	1144	1148
7/30/2018 3:00	1025	1025	1143	1144
7/30/2018 4:00	1025	1025	1143	1145
7/30/2018 5:00	1024	1025	1145	1146
7/30/2018 6:00	1024	1024	1146	1147
7/30/2018 7:00	1024	1024	1146	1146
7/30/2018 8:00	1024	1024	1146	1150
7/30/2018 9:00	1024	1025	1150	1154
7/30/2018 10:00	1025	1025	1151	1154
7/30/2018 11:00	1025	1025	1132	1151
7/30/2018 12:00	1025	1026	1130	1132
7/30/2018 13:00	1026	1026	1132	1139
7/30/2018 14:00	1026	1026	1139	1145
7/30/2018 15:00	1026	1026	1145	1149
7/30/2018 16:00	1025	1026	1149	1154
7/30/2018 17:00	1025	1025	1154	1157
7/30/2018 18:00	1025	1025	1157	1161
7/30/2018 19:00	1025	1025	1160	1163
7/30/2018 20:00	1025	1025	1157	1160
7/30/2018 21:00	1025	1025	1157	1160
7/30/2018 22:00	1025	1025	1160	1161
7/30/2018 23:00	1025	1025	1158	1161
7/31/2018 0:00	1025	1025	1159	1159
7/31/2018 1:00	1025	1025	1149	1159
7/31/2018 2:00	1025	1025	1145	1149
7/31/2018 3:00	1025	1025	1143	1145
7/31/2018 4:00	1025	1026	1143	1147
7/31/2018 5:00	1025	1026	1146	1147
7/31/2018 6:00	1025	1025	1146	1147
7/31/2018 7:00	1025	1025	1146	1147
7/31/2018 8:00	1025	1025	1146	1148
7/31/2018 9:00	1025	1025	1147	1148
7/31/2018 10:00	1025	1026	1147	1147
7/31/2018 11:00	1026	1026	1147	1148
7/31/2018 12:00	1026	1026	1148	1148
7/31/2018 13:00	1026	1026	1147	1148
7/31/2018 14:00	1026	1026	1147	1149
7/31/2018 15:00	1026	1026	1148	1152
7/31/2018 16:00	1026	1026	1152	1155
7/31/2018 17:00	1026	1026	1155	1157
7/31/2018 18:00	1026	1026	1157	1162
7/31/2018 19:00	1026	1026	1162	1170
7/31/2018 20:00	1025	1026	1170	1176
7/31/2018 21:00	1025	1026	1176	1178
7/31/2018 22:00	1026	1026	1177	1178
7/31/2018 23:00	1026	1026	1174	1177