



825 Rice Street  
Saint Paul, MN 55117

May 30, 2023

Steve Kahl, 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. Kahl:

Enclosed with this letter are Xcel Energy's natural gas heating value reports for April 2023 as required by N.D. PU-23-13.

If you need further information or clarification regarding the enclosed response, please contact Lisa Kallberg at 651-788-0648.

Sincerely,

A handwritten signature in black ink that reads 'Jeffrey Cremin'. The signature is written in a cursive, flowing style.

Jeffrey Cremin  
Manager 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
4/1/2023 0:00	1039	1040	1189	1189
4/1/2023 1:00	1039	1039	1186	1189
4/1/2023 2:00	1039	1039	1185	1186
4/1/2023 3:00	1039	1039	1184	1185
4/1/2023 4:00	1039	1039	1184	1185
4/1/2023 5:00	1039	1039	1184	1185
4/1/2023 6:00	1039	1039	1184	1185
4/1/2023 7:00	1039	1039	1184	1187
4/1/2023 8:00	1039	1039	1185	1187
4/1/2023 9:00	1039	1039	1186	1187
4/1/2023 10:00	1039	1039	1186	1188
4/1/2023 11:00	1039	1039	1186	1188
4/1/2023 12:00	1039	1039	1186	1188
4/1/2023 13:00	1039	1039	1186	1187
4/1/2023 14:00	1039	1039	1184	1186
4/1/2023 15:00	1039	1039	1184	1185
4/1/2023 16:00	1039	1040	1183	1184
4/1/2023 17:00	1039	1040	1182	1184
4/1/2023 18:00	1039	1040	1182	1183
4/1/2023 19:00	1040	1040	1182	1183
4/1/2023 20:00	1040	1040	1182	1186
4/1/2023 21:00	1040	1040	1182	1187
4/1/2023 22:00	1040	1040	1181	1182
4/1/2023 23:00	1040	1040	1182	1185
4/2/2023 0:00	1040	1040	1184	1186
4/2/2023 1:00	1040	1040	1185	1194
4/2/2023 2:00	1040	1041	1188	1194
4/2/2023 3:00	1041	1041	1184	1188
4/2/2023 4:00	1040	1041	1182	1184
4/2/2023 5:00	1040	1040	1180	1182
4/2/2023 6:00	1040	1040	1180	1183
4/2/2023 7:00	1040	1040	1183	1184
4/2/2023 8:00	1040	1040	1183	1184
4/2/2023 9:00	1040	1041	1182	1184
4/2/2023 10:00	1041	1041	1184	1186
4/2/2023 11:00	1040	1041	1186	1187
4/2/2023 12:00	1040	1040	1183	1186
4/2/2023 13:00	1040	1040	1183	1185
4/2/2023 14:00	1040	1040	1184	1186
4/2/2023 15:00	1040	1040	1186	1186
4/2/2023 16:00	1040	1040	1186	1189
4/2/2023 17:00	1040	1040	1189	1192
4/2/2023 18:00	1040	1040	1192	1200
4/2/2023 19:00	1040	1040	1198	1200
4/2/2023 20:00	1040	1040	1196	1198
4/2/2023 21:00	1040	1040	1196	1198
4/2/2023 22:00	1040	1040	1197	1198
4/2/2023 23:00	1040	1040	1194	1197
4/3/2023 0:00	1040	1040	1191	1194
4/3/2023 1:00	1040	1040	1191	1193
4/3/2023 2:00	1040	1040	1193	1195
4/3/2023 3:00	1040	1040	1195	1196
4/3/2023 4:00	1040	1040	1194	1196
4/3/2023 5:00	1040	1040	1187	1195
4/3/2023 6:00	1040	1040	1183	1187
4/3/2023 7:00	1040	1040	1183	1186
4/3/2023 8:00	1039	1040	1186	1190
4/3/2023 9:00	1039	1040	1190	1191
4/3/2023 10:00	1039	1040	1191	1193
4/3/2023 11:00	1039	1040	1193	1193
4/3/2023 12:00	1040	1040	1192	1193
4/3/2023 13:00	1040	1040	1191	1193
4/3/2023 14:00	1040	1040	1187	1191
4/3/2023 15:00	1040	1040	1185	1187
4/3/2023 16:00	1039	1040	1185	1189
4/3/2023 17:00	1039	1039	1188	1190
4/3/2023 18:00	1039	1039	1187	1189
4/3/2023 19:00	1039	1039	1187	1187
4/3/2023 20:00	1039	1039	1187	1188
4/3/2023 21:00	1039	1039	1187	1188
4/3/2023 22:00	1038	1039	1187	1188
4/3/2023 23:00	1038	1038	1188	1189

**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
4/4/2023 0:00	1038	1039	1181	1189
4/4/2023 1:00	1039	1039	1179	1181
4/4/2023 2:00	1039	1039	1179	1180
4/4/2023 3:00	1039	1039	1180	1181
4/4/2023 4:00	1039	1039	1180	1181
4/4/2023 5:00	1039	1039	1180	1182
4/4/2023 6:00	1039	1039	1182	1182
4/4/2023 7:00	1039	1039	1182	1182
4/4/2023 8:00	1039	1039	1182	1189
4/4/2023 9:00	1039	1039	1188	1190
4/4/2023 10:00	1039	1039	1185	1188
4/4/2023 11:00	1039	1039	1184	1185
4/4/2023 12:00	1039	1039	1178	1184
4/4/2023 13:00	1039	1039	1176	1180
4/4/2023 14:00	1039	1039	1180	1187
4/4/2023 15:00	1039	1039	1177	1187
4/4/2023 16:00	1039	1039	1174	1178
4/4/2023 17:00	1039	1039	1178	1183
4/4/2023 18:00	1039	1039	1183	1185
4/4/2023 19:00	1039	1039	1185	1192
4/4/2023 20:00	1039	1039	1192	1198
4/4/2023 21:00	1039	1039	1198	1200
4/4/2023 22:00	1039	1039	1200	1200
4/4/2023 23:00	1039	1039	1198	1200
4/5/2023 0:00	1039	1039	1196	1198
4/5/2023 1:00	1039	1039	1198	1199
4/5/2023 2:00	1039	1039	1199	1200
4/5/2023 3:00	1039	1040	1193	1200
4/5/2023 4:00	1040	1040	1185	1193
4/5/2023 5:00	1040	1040	1181	1185
4/5/2023 6:00	1040	1040	1180	1181
4/5/2023 7:00	1040	1040	1177	1180
4/5/2023 8:00	1039	1040	1177	1178
4/5/2023 9:00	1039	1040	1177	1177
4/5/2023 10:00	1039	1040	1177	1177
4/5/2023 11:00	1039	1039	1176	1178
4/5/2023 12:00	1039	1039	1177	1178
4/5/2023 13:00	1039	1039	1177	1178
4/5/2023 14:00	1038	1039	1176	1177
4/5/2023 15:00	1038	1038	1177	1183
4/5/2023 16:00	1038	1038	1183	1185
4/5/2023 17:00	1038	1038	1185	1185
4/5/2023 18:00	1038	1038	1185	1187
4/5/2023 19:00	1038	1038	1187	1188
4/5/2023 20:00	1038	1038	1186	1188
4/5/2023 21:00	1038	1038	1185	1186
4/5/2023 22:00	1038	1039	1185	1187
4/5/2023 23:00	1038	1039	1187	1189
4/6/2023 0:00	1038	1039	1183	1189
4/6/2023 1:00	1038	1039	1178	1183
4/6/2023 2:00	1038	1039	1178	1184
4/6/2023 3:00	1038	1039	1184	1185
4/6/2023 4:00	1038	1038	1185	1186
4/6/2023 5:00	1038	1038	1186	1186
4/6/2023 6:00	1038	1038	1186	1188
4/6/2023 7:00	1038	1038	1187	1188
4/6/2023 8:00	1038	1038	1186	1187
4/6/2023 9:00	1038	1038	1184	1186
4/6/2023 10:00	1037	1038	1183	1184
4/6/2023 11:00	1037	1037	1181	1183
4/6/2023 12:00	1037	1037	1178	1181
4/6/2023 13:00	1037	1037	1178	1180
4/6/2023 14:00	1037	1038	1179	1180
4/6/2023 15:00	1038	1038	1180	1182
4/6/2023 16:00	1038	1038	1182	1182
4/6/2023 17:00	1038	1038	1180	1182
4/6/2023 18:00	1038	1038	1179	1180
4/6/2023 19:00	1038	1038	1179	1181
4/6/2023 20:00	1038	1038	1181	1182
4/6/2023 21:00	1038	1038	1181	1183
4/6/2023 22:00	1038	1038	1183	1188
4/6/2023 23:00	1038	1038	1188	1190
4/7/2023 0:00	1038	1038	1184	1190
4/7/2023 1:00	1038	1038	1178	1184
4/7/2023 2:00	1038	1038	1178	1180
4/7/2023 3:00	1038	1038	1179	1181
4/7/2023 4:00	1038	1038	1179	1180
4/7/2023 5:00	1038	1038	1178	1179
4/7/2023 6:00	1037	1038	1177	1178
4/7/2023 7:00	1037	1037	1177	1183

**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
4/7/2023 8:00	1037	1038	1183	1183
4/7/2023 9:00	1037	1038	1183	1183
4/7/2023 10:00	1037	1037	1182	1183
4/7/2023 11:00	1037	1037	1182	1184
4/7/2023 12:00	1037	1037	1184	1188
4/7/2023 13:00	1037	1037	1185	1188
4/7/2023 14:00	1037	1037	1185	1185
4/7/2023 15:00	1037	1037	1185	1185
4/7/2023 16:00	1037	1037	1182	1185
4/7/2023 17:00	1036	1037	1181	1184
4/7/2023 18:00	1036	1037	1184	1188
4/7/2023 19:00	1036	1037	1186	1190
4/7/2023 20:00	1036	1036	1186	1190
4/7/2023 21:00	1036	1036	1190	1198
4/7/2023 22:00	1036	1036	1196	1198
4/7/2023 23:00	1036	1036	1194	1196
4/8/2023 0:00	1036	1036	1191	1194
4/8/2023 1:00	1036	1036	1191	1191
4/8/2023 2:00	1036	1036	1191	1194
4/8/2023 3:00	1036	1036	1191	1194
4/8/2023 4:00	1036	1036	1185	1191
4/8/2023 5:00	1036	1036	1182	1186
4/8/2023 6:00	1036	1036	1182	1185
4/8/2023 7:00	1036	1036	1185	1187
4/8/2023 8:00	1036	1036	1187	1188
4/8/2023 9:00	1036	1036	1187	1188
4/8/2023 10:00	1036	1036	1181	1187
4/8/2023 11:00	1036	1036	1179	1183
4/8/2023 12:00	1036	1036	1179	1182
4/8/2023 13:00	1036	1036	1180	1181
4/8/2023 14:00	1036	1036	1181	1181
4/8/2023 15:00	1036	1037	1180	1181
4/8/2023 16:00	1037	1037	1178	1180
4/8/2023 17:00	1037	1037	1177	1178
4/8/2023 18:00	1037	1037	1176	1177
4/8/2023 19:00	1037	1037	1174	1176
4/8/2023 20:00	1037	1037	1173	1175
4/8/2023 21:00	1037	1038	1175	1175
4/8/2023 22:00	1038	1038	1172	1175
4/8/2023 23:00	1038	1038	1172	1172
4/9/2023 0:00	1038	1038	1168	1172
4/9/2023 1:00	1038	1038	1169	1170
4/9/2023 2:00	1038	1038	1170	1171
4/9/2023 3:00	1038	1039	1169	1171
4/9/2023 4:00	1039	1039	1168	1169
4/9/2023 5:00	1039	1039	1167	1168
4/9/2023 6:00	1038	1039	1166	1168
4/9/2023 7:00	1038	1038	1166	1166
4/9/2023 8:00	1038	1038	1165	1166
4/9/2023 9:00	1038	1039	1165	1166
4/9/2023 10:00	1038	1039	1166	1169
4/9/2023 11:00	1038	1038	1169	1172
4/9/2023 12:00	1038	1038	1172	1174
4/9/2023 13:00	1038	1039	1174	1175
4/9/2023 14:00	1039	1039	1174	1175
4/9/2023 15:00	1038	1039	1169	1174
4/9/2023 16:00	1038	1039	1169	1173
4/9/2023 17:00	1039	1039	1172	1176
4/9/2023 18:00	1039	1039	1176	1176
4/9/2023 19:00	1039	1039	1176	1177
4/9/2023 20:00	1039	1040	1173	1177
4/9/2023 21:00	1040	1041	1173	1177
4/9/2023 22:00	1040	1041	1177	1177
4/9/2023 23:00	1040	1040	1175	1177
4/10/2023 0:00	1040	1041	1176	1177
4/10/2023 1:00	1041	1043	1174	1176
4/10/2023 2:00	1043	1043	1172	1174
4/10/2023 3:00	1043	1043	1170	1172
4/10/2023 4:00	1043	1043	1167	1171
4/10/2023 5:00	1042	1043	1165	1167
4/10/2023 6:00	1041	1042	1166	1167
4/10/2023 7:00	1041	1041	1166	1166
4/10/2023 8:00	1040	1041	1163	1166
4/10/2023 9:00	1039	1040	1165	1169
4/10/2023 10:00	1039	1039	1169	1171
4/10/2023 11:00	1038	1039	1171	1177
4/10/2023 12:00	1038	1038	1177	1181
4/10/2023 13:00	1038	1039	1181	1188
4/10/2023 14:00	1038	1039	1186	1191
4/10/2023 15:00	1038	1039	1186	1190

**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
4/10/2023 16:00	1039	1039	1190	1195
4/10/2023 17:00	1039	1039	1195	1195
4/10/2023 18:00	1039	1039	1194	1195
4/10/2023 19:00	1039	1039	1194	1196
4/10/2023 20:00	1039	1039	1196	1197
4/10/2023 21:00	1039	1039	1192	1200
4/10/2023 22:00	1039	1039	1191	1192
4/10/2023 23:00	1039	1040	1191	1193
4/11/2023 0:00	1040	1040	1193	1194
4/11/2023 1:00	1040	1040	1192	1194
4/11/2023 2:00	1040	1040	1192	1194
4/11/2023 3:00	1040	1040	1194	1196
4/11/2023 4:00	1040	1040	1196	1199
4/11/2023 5:00	1040	1041	1195	1200
4/11/2023 6:00	1041	1041	1185	1195
4/11/2023 7:00	1041	1041	1177	1185
4/11/2023 8:00	1041	1041	1180	1193
4/11/2023 9:00	1041	1042	1193	1197
4/11/2023 10:00	1041	1042	1194	1195
4/11/2023 11:00	1041	1041	1185	1188
4/11/2023 12:00	1041	1041	1185	1185
4/11/2023 13:00	1041	1042	1184	1185
4/11/2023 14:00	1041	1041	1183	1184
4/11/2023 15:00	1041	1041	1184	1187
4/11/2023 16:00	1041	1041	1187	1190
4/11/2023 17:00	1041	1041	1190	1192
4/11/2023 18:00	1040	1041	1190	1192
4/11/2023 19:00	1040	1040	1190	1194
4/11/2023 20:00	1040	1040	1194	1195
4/11/2023 21:00	1039	1040	1191	1198
4/11/2023 22:00	1039	1039	1183	1191
4/11/2023 23:00	1039	1039	1179	1183
4/12/2023 0:00	1039	1039	1179	1185
4/12/2023 1:00	1039	1039	1185	1191
4/12/2023 2:00	1039	1039	1190	1192
4/12/2023 3:00	1039	1039	1191	1193
4/12/2023 4:00	1039	1039	1191	1193
4/12/2023 5:00	1039	1039	1190	1191
4/12/2023 6:00	1039	1039	1189	1191
4/12/2023 7:00	1039	1039	1191	1193
4/12/2023 8:00	1039	1039	1191	1193
4/12/2023 9:00	1039	1039	1191	1192
4/12/2023 10:00	1039	1039	1190	1193
4/12/2023 11:00	1039	1039	1193	1196
4/12/2023 12:00	1039	1039	1193	1196
4/12/2023 13:00	1039	1039	1193	1194
4/12/2023 14:00	1039	1040	1193	1193
4/12/2023 15:00	1039	1040	1192	1193
4/12/2023 16:00	1039	1039	1190	1192
4/12/2023 17:00	1039	1039	1188	1190
4/12/2023 18:00	1039	1039	1188	1188
4/12/2023 19:00	1039	1039	1188	1189
4/12/2023 20:00	1039	1039	1189	1192
4/12/2023 21:00	1039	1039	1190	1192
4/12/2023 22:00	1039	1039	1191	1194
4/12/2023 23:00	1039	1039	1194	1197
4/13/2023 0:00	1039	1039	1191	1197
4/13/2023 1:00	1039	1039	1191	1194
4/13/2023 2:00	1039	1039	1191	1194
4/13/2023 3:00	1039	1039	1119	1191
4/13/2023 4:00	1039	1039	1119	1147
4/13/2023 5:00	1039	1039	1147	1171
4/13/2023 6:00	1039	1039	1171	1183
4/13/2023 7:00	1039	1039	1176	1183
4/13/2023 8:00	1039	1039	1181	1191
4/13/2023 9:00	1039	1039	1191	1198
4/13/2023 10:00	1039	1039	1189	1195
4/13/2023 11:00	1039	1039	1189	1194
4/13/2023 12:00	1039	1039	1189	1192
4/13/2023 13:00	1039	1039	1187	1190
4/13/2023 14:00	1039	1039	1187	1190
4/13/2023 15:00	1039	1039	1190	1192
4/13/2023 16:00	1039	1039	1191	1191
4/13/2023 17:00	1039	1040	1191	1193
4/13/2023 18:00	1040	1040	1188	1192
4/13/2023 19:00	1040	1040	1189	1190
4/13/2023 20:00	1040	1040	1190	1191
4/13/2023 21:00	1040	1040	1189	1191
4/13/2023 22:00	1040	1040	1188	1191
4/13/2023 23:00	1040	1040	1191	1193

**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
4/14/2023 0:00	1040	1040	1190	1193
4/14/2023 1:00	1040	1040	1186	1191
4/14/2023 2:00	1040	1040	1179	1186
4/14/2023 3:00	1040	1040	1179	1180
4/14/2023 4:00	1040	1040	1179	1184
4/14/2023 5:00	1040	1040	1179	1181
4/14/2023 6:00	1039	1040	1181	1183
4/14/2023 7:00	1038	1039	1183	1187
4/14/2023 8:00	1038	1038	1187	1188
4/14/2023 9:00	1038	1039	1188	1190
4/14/2023 10:00	1038	1039	1189	1190
4/14/2023 11:00	1038	1038	1190	1191
4/14/2023 12:00	1038	1039	1191	1193
4/14/2023 13:00	1039	1040	1192	1193
4/14/2023 14:00	1040	1040	1192	1193
4/14/2023 15:00	1040	1040	1193	1194
4/14/2023 16:00	1039	1040	1190	1193
4/14/2023 17:00	1039	1039	1190	1191
4/14/2023 18:00	1039	1039	1191	1192
4/14/2023 19:00	1039	1040	1191	1192
4/14/2023 20:00	1040	1040	1191	1192
4/14/2023 21:00	1040	1041	1191	1192
4/14/2023 22:00	1041	1041	1192	1197
4/14/2023 23:00	1041	1042	1197	1200
4/15/2023 0:00	1042	1042	1200	1200
4/15/2023 1:00	1041	1042	1200	1200
4/15/2023 2:00	1040	1041	1200	1200
4/15/2023 3:00	1039	1040	1200	1200
4/15/2023 4:00	1039	1039	1192	1200
4/15/2023 5:00	1038	1039	1191	1194
4/15/2023 6:00	1038	1038	1194	1195
4/15/2023 7:00	1037	1038	1194	1195
4/15/2023 8:00	1037	1038	1194	1194
4/15/2023 9:00	1038	1038	1191	1194
4/15/2023 10:00	1038	1038	1189	1191
4/15/2023 11:00	1037	1038	1188	1189
4/15/2023 12:00	1037	1037	1188	1190
4/15/2023 13:00	1036	1037	1186	1190
4/15/2023 14:00	1036	1036	1183	1186
4/15/2023 15:00	1036	1036	1186	1190
4/15/2023 16:00	1036	1036	1190	1193
4/15/2023 17:00	1036	1036	1193	1194
4/15/2023 18:00	1036	1037	1193	1194
4/15/2023 19:00	1037	1038	1192	1194
4/15/2023 20:00	1038	1038	1194	1194
4/15/2023 21:00	1038	1039	1194	1198
4/15/2023 22:00	1039	1039	1198	1200
4/15/2023 23:00	1039	1040	1200	1200
4/16/2023 0:00	1040	1040	1200	1200
4/16/2023 1:00	1040	1040	1200	1200
4/16/2023 2:00	1040	1041	1192	1200
4/16/2023 3:00	1041	1042	1190	1192
4/16/2023 4:00	1042	1043	1190	1190
4/16/2023 5:00	1043	1044	1189	1191
4/16/2023 6:00	1044	1045	1191	1192
4/16/2023 7:00	1045	1045	1185	1191
4/16/2023 8:00	1045	1045	1182	1186
4/16/2023 9:00	1045	1045	1182	1200
4/16/2023 10:00	1045	1045	1193	1200
4/16/2023 11:00	1045	1045	1193	1200
4/16/2023 12:00	1044	1045	1200	1200
4/16/2023 13:00	1043	1044	1200	1200
4/16/2023 14:00	1042	1043	1200	1200
4/16/2023 15:00	1041	1042	1200	1200
4/16/2023 16:00	1041	1041	1200	1200
4/16/2023 17:00	1041	1042	1200	1200
4/16/2023 18:00	1042	1042	1200	1200
4/16/2023 19:00	1040	1042	1200	1200
4/16/2023 20:00	1039	1040	1200	1200
4/16/2023 21:00	1038	1039	1200	1200
4/16/2023 22:00	1038	1038	1198	1200
4/16/2023 23:00	1038	1039	1198	1198
4/17/2023 0:00	1039	1039	1195	1198
4/17/2023 1:00	1038	1039	1193	1195
4/17/2023 2:00	1038	1038	1190	1193
4/17/2023 3:00	1038	1038	1183	1190
4/17/2023 4:00	1038	1038	1182	1183
4/17/2023 5:00	1038	1038	1182	1183
4/17/2023 6:00	1037	1038	1181	1183
4/17/2023 7:00	1037	1037	1179	1181

**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
4/17/2023 8:00	1037	1038	1170	1180
4/17/2023 9:00	1037	1038	1170	1181
4/17/2023 10:00	1037	1037	1181	1187
4/17/2023 11:00	1037	1037	1185	1187
4/17/2023 12:00	1037	1037	1187	1188
4/17/2023 13:00	1037	1037	1186	1188
4/17/2023 14:00	1037	1037	1187	1189
4/17/2023 15:00	1037	1037	1188	1189
4/17/2023 16:00	1036	1037	1188	1190
4/17/2023 17:00	1036	1036	1189	1190
4/17/2023 18:00	1036	1036	1189	1190
4/17/2023 19:00	1036	1037	1190	1197
4/17/2023 20:00	1037	1037	1196	1200
4/17/2023 21:00	1037	1037	1200	1200
4/17/2023 22:00	1037	1037	1199	1200
4/17/2023 23:00	1037	1037	1199	1200
4/18/2023 0:00	1036	1037	1200	1200
4/18/2023 1:00	1036	1036	1200	1200
4/18/2023 2:00	1035	1036	1200	1200
4/18/2023 3:00	1034	1035	1198	1200
4/18/2023 4:00	1034	1034	1194	1198
4/18/2023 5:00	1034	1034	1188	1194
4/18/2023 6:00	1034	1034	1186	1188
4/18/2023 7:00	1034	1034	1182	1186
4/18/2023 8:00	1034	1034	1180	1182
4/18/2023 9:00	1034	1035	1180	1185
4/18/2023 10:00	1035	1035	1184	1185
4/18/2023 11:00	1035	1035	1182	1184
4/18/2023 12:00	1035	1036	1173	1182
4/18/2023 13:00	1035	1036	1176	1181
4/18/2023 14:00	1035	1035	1181	1183
4/18/2023 15:00	1035	1035	1183	1185
4/18/2023 16:00	1035	1035	1185	1188
4/18/2023 17:00	1035	1036	1187	1191
4/18/2023 18:00	1036	1036	1191	1193
4/18/2023 19:00	1036	1036	1190	1193
4/18/2023 20:00	1036	1037	1192	1193
4/18/2023 21:00	1036	1037	1190	1192
4/18/2023 22:00	1036	1036	1190	1192
4/18/2023 23:00	1036	1036	1192	1193
4/19/2023 0:00	1036	1036	1193	1196
4/19/2023 1:00	1036	1036	1196	1197
4/19/2023 2:00	1036	1036	1183	1197
4/19/2023 3:00	1035	1036	1183	1183
4/19/2023 4:00	1035	1035	1181	1183
4/19/2023 5:00	1035	1035	1178	1181
4/19/2023 6:00	1035	1035	1176	1178
4/19/2023 7:00	1035	1036	1176	1177
4/19/2023 8:00	1036	1036	1175	1176
4/19/2023 9:00	1035	1036	1174	1175
4/19/2023 10:00	1035	1035	1174	1175
4/19/2023 11:00	1035	1035	1175	1177
4/19/2023 12:00	1035	1035	1177	1180
4/19/2023 13:00	1035	1035	1178	1180
4/19/2023 14:00	1035	1035	1178	1180
4/19/2023 15:00	1035	1035	1180	1181
4/19/2023 16:00	1035	1035	1181	1182
4/19/2023 17:00	1035	1035	1181	1182
4/19/2023 18:00	1035	1035	1182	1182
4/19/2023 19:00	1035	1035	1182	1183
4/19/2023 20:00	1035	1035	1183	1187
4/19/2023 21:00	1035	1035	1187	1189
4/19/2023 22:00	1035	1035	1188	1189
4/19/2023 23:00	1035	1035	1189	1189
4/20/2023 0:00	1035	1035	1189	1191
4/20/2023 1:00	1035	1035	1191	1192
4/20/2023 2:00	1035	1035	1191	1192
4/20/2023 3:00	1035	1035	1190	1192
4/20/2023 4:00	1035	1035	1190	1193
4/20/2023 5:00	1035	1035	1187	1193
4/20/2023 6:00	1035	1035	1184	1187
4/20/2023 7:00	1035	1035	1182	1184
4/20/2023 8:00	1035	1035	1181	1182
4/20/2023 9:00	1035	1035	1180	1181
4/20/2023 10:00	1035	1035	1180	1183
4/20/2023 11:00	1035	1035	1183	1188
4/20/2023 12:00	1035	1035	1188	1190
4/20/2023 13:00	1035	1038	1184	1190
4/20/2023 14:00	1037	1038	1184	1185
4/20/2023 15:00	1037	1038	1185	1189

**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
4/20/2023 16:00	1038	1038	1189	1191
4/20/2023 17:00	1038	1039	1186	1191
4/20/2023 18:00	1039	1039	1183	1187
4/20/2023 19:00	1039	1040	1183	1185
4/20/2023 20:00	1040	1040	1184	1185
4/20/2023 21:00	1040	1040	1184	1186
4/20/2023 22:00	1040	1040	1185	1186
4/20/2023 23:00	1040	1040	1185	1186
4/21/2023 0:00	1040	1040	1186	1189
4/21/2023 1:00	1040	1040	1188	1193
4/21/2023 2:00	1040	1040	1193	1195
4/21/2023 3:00	1040	1040	1194	1197
4/21/2023 4:00	1040	1040	1197	1200
4/21/2023 5:00	1040	1040	1193	1200
4/21/2023 6:00	1040	1040	1189	1193
4/21/2023 7:00	1040	1040	1189	1189
4/21/2023 8:00	1040	1040	1187	1189
4/21/2023 9:00	1040	1040	1187	1193
4/21/2023 10:00	1040	1040	1193	1197
4/21/2023 11:00	1040	1040	1197	1198
4/21/2023 12:00	1040	1040	1191	1197
4/21/2023 13:00	1040	1040	1191	1192
4/21/2023 14:00	1036	1040	1191	1193
4/21/2023 15:00	1036	1036	1192	1194
4/21/2023 16:00	1036	1036	1194	1195
4/21/2023 17:00	1036	1037	1194	1195
4/21/2023 18:00	1037	1037	1193	1195
4/21/2023 19:00	1037	1038	1191	1193
4/21/2023 20:00	1038	1038	1190	1191
4/21/2023 21:00	1038	1038	1189	1190
4/21/2023 22:00	1037	1038	1189	1189
4/21/2023 23:00	1037	1037	1189	1190
4/22/2023 0:00	1037	1037	1190	1191
4/22/2023 1:00	1036	1037	1188	1190
4/22/2023 2:00	1036	1036	1178	1188
4/22/2023 3:00	1036	1036	1181	1183
4/22/2023 4:00	1036	1036	1182	1186
4/22/2023 5:00	1036	1036	1186	1187
4/22/2023 6:00	1036	1036	1187	1188
4/22/2023 7:00	1036	1038	1186	1188
4/22/2023 8:00	1038	1039	1176	1187
4/22/2023 9:00	1039	1041	1177	1183
4/22/2023 10:00	1041	1043	1182	1190
4/22/2023 11:00	1043	1044	1184	1190
4/22/2023 12:00	1044	1044	1187	1188
4/22/2023 13:00	1044	1044	1188	1189
4/22/2023 14:00	1043	1044	1189	1190
4/22/2023 15:00	1042	1043	1190	1191
4/22/2023 16:00	1041	1042	1190	1194
4/22/2023 17:00	1040	1041	1190	1194
4/22/2023 18:00	1039	1040	1194	1199
4/22/2023 19:00	1038	1039	1195	1199
4/22/2023 20:00	1037	1038	1194	1195
4/22/2023 21:00	1037	1037	1193	1194
4/22/2023 22:00	1036	1037	1193	1194
4/22/2023 23:00	1036	1037	1193	1195
4/23/2023 0:00	1036	1037	1193	1195
4/23/2023 1:00	1036	1036	1192	1193
4/23/2023 2:00	1036	1037	1188	1192
4/23/2023 3:00	1036	1037	1184	1188
4/23/2023 4:00	1036	1037	1173	1185
4/23/2023 5:00	1037	1037	1173	1177
4/23/2023 6:00	1037	1037	1177	1178
4/23/2023 7:00	1037	1037	1178	1180
4/23/2023 8:00	1037	1037	1180	1181
4/23/2023 9:00	1037	1038	1176	1181
4/23/2023 10:00	1038	1038	1170	1176
4/23/2023 11:00	1038	1038	1173	1176
4/23/2023 12:00	1038	1038	1176	1179
4/23/2023 13:00	1038	1039	1178	1179
4/23/2023 14:00	1039	1039	1178	1180
4/23/2023 15:00	1039	1039	1180	1185
4/23/2023 16:00	1039	1039	1185	1189
4/23/2023 17:00	1039	1039	1189	1191
4/23/2023 18:00	1039	1039	1191	1192
4/23/2023 19:00	1039	1040	1188	1191
4/23/2023 20:00	1040	1040	1184	1189
4/23/2023 21:00	1040	1040	1184	1186
4/23/2023 22:00	1040	1040	1186	1188
4/23/2023 23:00	1040	1040	1187	1188

**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
4/24/2023 0:00	1040	1040	1187	1189
4/24/2023 1:00	1040	1040	1189	1190
4/24/2023 2:00	1040	1040	1189	1190
4/24/2023 3:00	1040	1040	1188	1189
4/24/2023 4:00	1040	1040	1188	1192
4/24/2023 5:00	1040	1040	1190	1192
4/24/2023 6:00	1040	1040	1190	1191
4/24/2023 7:00	1040	1041	1187	1190
4/24/2023 8:00	1040	1041	1187	1187
4/24/2023 9:00	1040	1040	1186	1187
4/24/2023 10:00	1039	1040	1185	1186
4/24/2023 11:00	1039	1039	1185	1185
4/24/2023 12:00	1039	1039	1185	1188
4/24/2023 13:00	1039	1039	1187	1190
4/24/2023 14:00	1039	1039	1187	1190
4/24/2023 15:00	1038	1039	1187	1189
4/24/2023 16:00	1038	1038	1188	1189
4/24/2023 17:00	1038	1038	1187	1188
4/24/2023 18:00	1038	1038	1186	1187
4/24/2023 19:00	1038	1038	1186	1187
4/24/2023 20:00	1038	1038	1186	1190
4/24/2023 21:00	1038	1038	1190	1193
4/24/2023 22:00	1038	1039	1191	1194
4/24/2023 23:00	1039	1039	1191	1191
4/25/2023 0:00	1039	1039	1190	1191
4/25/2023 1:00	1039	1039	1190	1192
4/25/2023 2:00	1039	1039	1192	1193
4/25/2023 3:00	1039	1039	1193	1197
4/25/2023 4:00	1039	1039	1196	1197
4/25/2023 5:00	1039	1039	1197	1197
4/25/2023 6:00	1039	1040	1192	1197
4/25/2023 7:00	1039	1040	1190	1192
4/25/2023 8:00	1039	1039	1189	1190
4/25/2023 9:00	1039	1039	1185	1189
4/25/2023 10:00	1039	1039	1185	1186
4/25/2023 11:00	1039	1039	1184	1185
4/25/2023 12:00	1039	1039	1183	1184
4/25/2023 13:00	1039	1039	1181	1183
4/25/2023 14:00	1039	1039	1181	1185
4/25/2023 15:00	1038	1039	1185	1185
4/25/2023 16:00	1038	1038	1183	1185
4/25/2023 17:00	1037	1038	1180	1183
4/25/2023 18:00	1037	1038	1180	1185
4/25/2023 19:00	1038	1038	1183	1185
4/25/2023 20:00	1038	1038	1180	1183
4/25/2023 21:00	1038	1039	1180	1188
4/25/2023 22:00	1039	1039	1188	1200
4/25/2023 23:00	1039	1039	1200	1200
4/26/2023 0:00	1039	1040	1198	1200
4/26/2023 1:00	1040	1040	1192	1198
4/26/2023 2:00	1040	1040	1189	1192
4/26/2023 3:00	1040	1040	1189	1191
4/26/2023 4:00	1040	1040	1191	1193
4/26/2023 5:00	1040	1040	1193	1195
4/26/2023 6:00	1040	1040	1192	1195
4/26/2023 7:00	1040	1040	1189	1192
4/26/2023 8:00	1040	1040	1189	1189
4/26/2023 9:00	1040	1040	1189	1196
4/26/2023 10:00	1040	1040	1194	1196
4/26/2023 11:00	1040	1040	1190	1195
4/26/2023 12:00	1040	1040	1187	1190
4/26/2023 13:00	1040	1041	1187	1188
4/26/2023 14:00	1040	1041	1187	1188
4/26/2023 15:00	1040	1041	1187	1188
4/26/2023 16:00	1041	1041	1187	1187
4/26/2023 17:00	1041	1041	1187	1189
4/26/2023 18:00	1041	1042	1187	1189
4/26/2023 19:00	1042	1042	1186	1187
4/26/2023 20:00	1042	1042	1184	1186
4/26/2023 21:00	1042	1042	1184	1184
4/26/2023 22:00	1042	1042	1184	1186
4/26/2023 23:00	1042	1042	1186	1190
4/27/2023 0:00	1042	1042	1190	1191
4/27/2023 1:00	1042	1042	1189	1190
4/27/2023 2:00	1042	1042	1189	1190
4/27/2023 3:00	1042	1042	1190	1192
4/27/2023 4:00	1041	1042	1192	1193
4/27/2023 5:00	1041	1041	1189	1192
4/27/2023 6:00	1041	1041	1189	1189
4/27/2023 7:00	1041	1041	1189	1190

**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
4/27/2023 8:00	1041	1041	1190	1191
4/27/2023 9:00	1040	1041	1191	1192
4/27/2023 10:00	1040	1040	1192	1192
4/27/2023 11:00	1040	1040	1189	1192
4/27/2023 12:00	1040	1040	1187	1189
4/27/2023 13:00	1040	1040	1187	1191
4/27/2023 14:00	1040	1040	1190	1191
4/27/2023 15:00	1040	1040	1188	1190
4/27/2023 16:00	1040	1040	1189	1192
4/27/2023 17:00	1040	1040	1190	1192
4/27/2023 18:00	1040	1040	1189	1190
4/27/2023 19:00	1040	1040	1190	1192
4/27/2023 20:00	1040	1040	1189	1192
4/27/2023 21:00	1040	1040	1188	1189
4/27/2023 22:00	1040	1040	1188	1191
4/27/2023 23:00	1040	1040	1191	1194
4/28/2023 0:00	1040	1040	1194	1197
4/28/2023 1:00	1040	1040	1194	1196
4/28/2023 2:00	1040	1040	1193	1194
4/28/2023 3:00	1040	1040	1193	1196
4/28/2023 4:00	1040	1040	1196	1198
4/28/2023 5:00	1040	1040	1194	1198
4/28/2023 6:00	1040	1040	1193	1194
4/28/2023 7:00	1040	1040	1194	1195
4/28/2023 8:00	1040	1040	1193	1195
4/28/2023 9:00	1040	1040	1192	1193
4/28/2023 10:00	1040	1040	1191	1192
4/28/2023 11:00	1039	1040	1185	1191
4/28/2023 12:00	1039	1039	1179	1185
4/28/2023 13:00	1039	1039	1179	1188
4/28/2023 14:00	1039	1039	1188	1196
4/28/2023 15:00	1039	1039	1196	1197
4/28/2023 16:00	1039	1039	1197	1198
4/28/2023 17:00	1038	1039	1197	1198
4/28/2023 18:00	1038	1038	1195	1197
4/28/2023 19:00	1038	1038	1190	1195
4/28/2023 20:00	1038	1038	1188	1190
4/28/2023 21:00	1038	1038	1187	1188
4/28/2023 22:00	1038	1038	1187	1189
4/28/2023 23:00	1038	1039	1189	1189
4/29/2023 0:00	1039	1039	1188	1190
4/29/2023 1:00	1039	1039	1187	1188
4/29/2023 2:00	1039	1039	1186	1188
4/29/2023 3:00	1039	1039	1187	1190
4/29/2023 4:00	1039	1039	1187	1187
4/29/2023 5:00	1039	1041	1187	1190
4/29/2023 6:00	1040	1041	1190	1193
4/29/2023 7:00	1040	1040	1193	1194
4/29/2023 8:00	1040	1040	1191	1193
4/29/2023 9:00	1040	1040	1188	1191
4/29/2023 10:00	1040	1040	1186	1188
4/29/2023 11:00	1040	1040	1184	1186
4/29/2023 12:00	1039	1040	1184	1189
4/29/2023 13:00	1039	1039	1189	1189
4/29/2023 14:00	1039	1039	1189	1189
4/29/2023 15:00	1039	1039	1187	1189
4/29/2023 16:00	1039	1040	1184	1187
4/29/2023 17:00	1040	1040	1183	1184
4/29/2023 18:00	1040	1040	1182	1184
4/29/2023 19:00	1040	1040	1182	1183
4/29/2023 20:00	1040	1040	1183	1185
4/29/2023 21:00	1040	1040	1185	1187
4/29/2023 22:00	1040	1040	1187	1190
4/29/2023 23:00	1040	1040	1190	1191
4/30/2023 0:00	1040	1040	1189	1191
4/30/2023 1:00	1040	1040	1188	1190
4/30/2023 2:00	1040	1040	1188	1189
4/30/2023 3:00	1040	1040	1189	1191
4/30/2023 4:00	1040	1040	1191	1194
4/30/2023 5:00	1040	1041	1194	1197
4/30/2023 6:00	1040	1041	1197	1198
4/30/2023 7:00	1040	1040	1197	1198
4/30/2023 8:00	1040	1040	1197	1197
4/30/2023 9:00	1040	1040	1197	1199
4/30/2023 10:00	1040	1040	1191	1198
4/30/2023 11:00	1040	1040	1186	1191
4/30/2023 12:00	1040	1041	1186	1187
4/30/2023 13:00	1040	1041	1187	1191
4/30/2023 14:00	1040	1040	1191	1193
4/30/2023 15:00	1040	1041	1193	1194

**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
4/30/2023 16:00	1041	1041	1190	1194
4/30/2023 17:00	1041	1042	1187	1190
4/30/2023 18:00	1042	1042	1184	1187
4/30/2023 19:00	1042	1042	1184	1191
4/30/2023 20:00	1042	1043	1191	1196
4/30/2023 21:00	1043	1044	1196	1200
4/30/2023 22:00	1044	1046	1200	1200
4/30/2023 23:00	1046	1047	1198	1200