

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

July 31, 2020

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

Re: Case No. PU-20-002 (Therm Billing)
Monthly Report – May 2020

Montana-Dakota Utilities Co. herewith electronically submits the following information, pursuant to the Ordering paragraphs one and two of the Order issued in Case No. 11,006, dated October 20, 1987 and pursuant to the North Dakota Administrative Code 69-09-01-02, part 2.

1. Attachment A is a schedule showing the thermal billing factors by community that reflect the BTU values shown on Attachment B and were used for billing purposes in June 2020.
2. Attachment B consists of copies of the monthly Heating Value Test Reports received from our suppliers for the month of May 2020.
3. Attachment C is a listing which states the type of measuring device in place at each zone.
4. Attachment D is a monthly list of the heating value data, by zone, for the most recent 12-month period and an average thereof. It is being provided pursuant to a Staff request.
5. Attachment E provides a brief explanation of the thermal variances, where applicable, for the month of May 2020.

Montana-Dakota respectfully request this electronic filing, in lieu of an original and one copy, be accepted as being in full compliance with the filing requirements of this Commission.

Sincerely,

/s/ Travis R. Jacobson

Travis R. Jacobson
Director of Regulatory Affairs

Montana-Dakota Utilities Co.
Therm Billing Factors - North Dakota
Jun-20

Town	Heat Zone	Therm Factor
MDU-303-ALEXANDER	025	1.1221
MDU-308-ARNEGARD	025	1.1221
MDU-314-APPLE VALLEY	271	1.1443
MDU-318-BEACH	032	1.0470
MDU-319-BELFIELD	032	1.0547
MDU-323-BERTHOLD	262	1.1240
MDU-324-BEULAH	032	1.0547
MDU-327-BISMARCK	028	1.1086
MDU-330-BOWMAN	034	0.9614
MDU-337-BURLINGTON	262	1.1482
MDU-343-CARRINGTON	273	1.1424
MDU-344-CLEVELAND	272	1.1353
MDU-364-CAVALIER	273	1.1665
MDU-365-DAWSON	271	1.1363
MDU-368-DES LACS	262	1.1320
MDU-369-DICKINSON	031	1.0784
MDU-374-FT TOTTEN	273	1.1504
MDU-375-DEVILS LAKE	273	1.1504
MDU-379-BARLOW	273	1.1424
MDU-384-EPPING	264	1.0833
MDU-387-ELDRIDGE	272	1.1434
MDU-407-GLADSTONE	031	1.0784
MDU-411-GLEN ULLIN	031	1.0862
MDU-413-GOLVA	032	1.0317
MDU-416-GARRISON	262	1.1320
MDU-417-GRAFTON	273	1.1746
MDU-403-GWINNER	601	1.1409
MDU-429-HEBRON	031	1.0862
MDU-432-HETTINGER	903	2.4049
MDU-449-JAMESTOWN	272	1.1514
MDU-459-KILLDEER	033	1.1098
MDU-463-LANGDON	273	1.1424
MDU-469-LEFOR	031	1.0784
MDU-474-LIGNITE	263	1.0902
MDU-475-LINTON	802	1.0662
MDU-478-LINCOLN	028	1.1086
MDU-488-MCKENZIE	271	1.1443
MDU-494-MEDINA	271	1.1443
MDU-498-MANDAN	028	1.1086
MDU-500-MARMARTH	034	0.9685
MDU-505-MINOT	262	1.1482
MDU-510-MOTT	031	1.0784
MDU-512-MAX	262	1.1268
MDU-513-MILNOR	601	1.1409
MDU-522-NEW ENGLAND	031	1.0706
MDU-524-NEW SALEM	028	1.0852
MDU-532-NEW ROCKFORD	273	1.1424
MDU-539-PARK RIVER	273	1.1665
MDU-540-PALERMO	262	1.1240

MDU-558-RAY	264	1.0833
MDU-561-REGENT	031	1.0784
MDU-563-RHAME	034	0.9543
MDU-564-RICHARDTON	031	1.0706
MDU-568-ROSS	261	1.1056
MDU-572-RUTHVILLE	262	1.1482
MDU-574-SANBORN	272	1.1514
MDU-583-SENTINEL BUTTE	032	1.0470
MDU-588-SOUTH HEART	031	1.0706
MDU-717-SPIRITWOOD	272	1.1514
MDU-590-SPRINGBROOK	264	1.0833
MDU-591-STANLEY	261	1.1136
MDU-593-STEELE	271	1.1363
MDU-594-STERLING	028	1.1086
MDU-598-SHEYENNE	273	1.1504
MDU-605-SURREY	262	1.1482
MDU-610-TAPPEN	271	1.1363
MDU-611-TAYLOR	031	1.0706
MDU-616-TIOGA	260	1.0277
MDU-619-TURTLE LAKE	262	1.1320
MDU-620-TRENTON	024	1.0987
MDU-624-UNDERWOOD	262	1.1349
MDU-625-VALLEY CITY	272	1.5950
MDU-629-WALHALLA	273	1.1665
MDU-632-WATFORD CITY	610	1.1060
MDU-636-WHEELOCK	264	1.0756
MDU-637-WHITE EARTH	261	1.1136
MDU-642-WILLISTON	024	1.0987
MDU-646-WASHBURN	262	1.1401
MDU-647-WILTON	262	1.1240
MDU-664-RIVERDALE	262	1.1320
MDU-691-FAIRVIEW	241	1.1244
MDU-712-MINOT AFB	262	1.1482
MDU-718-FAIRMOUNT	600	1.1435
MDU-732-NEKOMA	273	1.1424
MDU-732-MSR SITE	273	1.1424

Source Daily Summary

May 2020

Number: 251

Pressure Base: 14.730

Contract Day: 1

Name: SDNY BDR-MNDK JNCTN-SDNY PLT

Temperature Base:

Contract Hour: 9

Day	Relative Density	Heating Value Wet	Heating Value Dry	Heating Value As Del	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.6954	1143.0	1163.2	1159.4	0.827	3.063	74.916	18.290	2.530	0.105	0.228	0.019	0.022	0.000	0.000	0.000	0.000	0.000	0.000	1391.37
2	0.7091	1178.7	1199.6	1196.1	0.123	3.251	70.947	22.852	2.731	0.037	0.054	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.000	1421.18
3	0.7051	1173.2	1194.0	1190.6	0.071	3.283	71.300	22.890	2.406	0.022	0.028	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1418.70
4	0.7077	1178.0	1198.8	1195.4	0.063	3.253	71.057	22.879	2.694	0.025	0.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1421.77
5	0.7132	1187.8	1208.8	1205.4	0.049	3.194	70.097	23.759	2.833	0.029	0.038	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1428.04
6	0.7064	1176.0	1196.9	1193.5	0.060	3.252	71.066	23.126	2.443	0.023	0.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1420.77
7	0.7061	1175.2	1196.0	1192.7	0.053	3.285	71.142	23.005	2.457	0.025	0.032	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1420.07
8	0.7030	1171.4	1192.2	1188.8	0.058	3.225	71.609	22.761	2.285	0.026	0.034	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1418.52
9	0.6977	1157.1	1177.6	1174.2	0.411	3.058	73.427	20.574	2.336	0.059	0.118	0.008	0.010	0.000	0.000	0.000	0.000	0.000	0.000	1406.35
10	0.6876	1137.1	1157.2	1153.7	0.829	2.684	76.104	17.925	2.106	0.097	0.214	0.019	0.022	0.000	0.000	0.000	0.000	0.000	0.000	1392.10
11	0.6901	1141.4	1161.6	1158.0	0.885	2.576	75.629	18.473	2.088	0.096	0.211	0.019	0.022	0.000	0.000	0.000	0.000	0.000	0.000	1394.80
12	0.7116	1185.4	1206.4	1203.0	0.090	3.124	70.459	23.475	2.763	0.035	0.051	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.000	1426.79
13	0.6909	1143.7	1164.0	1160.3	0.711	2.768	75.379	18.566	2.260	0.087	0.191	0.016	0.020	0.000	0.000	0.000	0.000	0.000	0.000	1396.82
14	0.6872	1134.9	1155.0	1151.4	0.842	2.762	76.248	17.631	2.155	0.099	0.220	0.019	0.022	0.000	0.000	0.000	0.000	0.000	0.000	1389.80
15	0.6868	1132.9	1152.9	1149.2	0.840	2.851	76.280	17.532	2.147	0.096	0.214	0.018	0.021	0.000	0.000	0.000	0.000	0.000	0.000	1387.71
16	0.6892	1136.7	1156.9	1153.2	0.847	2.830	75.790	18.027	2.180	0.090	0.200	0.017	0.019	0.000	0.000	0.000	0.000	0.000	0.000	1390.04
17	0.6872	1134.0	1154.1	1150.3	0.832	2.829	76.170	17.710	2.116	0.093	0.209	0.018	0.022	0.000	0.000	0.000	0.000	0.000	0.000	1388.71
18	0.6908	1137.3	1157.4	1153.4	0.840	2.960	75.623	17.929	2.286	0.099	0.221	0.019	0.022	0.000	0.000	0.000	0.000	0.000	0.000	1388.99
19	0.6946	1142.7	1162.9	1158.8	0.848	2.968	74.971	18.447	2.413	0.097	0.215	0.018	0.021	0.000	0.000	0.000	0.000	0.000	0.000	1391.87
20	0.6969	1145.6	1165.9	1161.9	0.842	3.021	74.671	18.506	2.597	0.100	0.223	0.018	0.021	0.000	0.000	0.000	0.000	0.000	0.000	1393.10
21	0.6993	1151.2	1171.5	1167.6	0.773	3.007	74.238	18.899	2.728	0.098	0.218	0.018	0.021	0.000	0.000	0.000	0.000	0.000	0.000	1397.51
22	0.6960	1145.5	1165.8	1161.8	0.848	2.933	74.906	18.298	2.668	0.097	0.212	0.017	0.020	0.000	0.000	0.000	0.000	0.000	0.000	1393.87
23	0.7112	1166.9	1187.5	1183.7	0.905	2.962	72.685	19.714	3.297	0.122	0.269	0.021	0.024	0.000	0.000	0.000	0.000	0.000	0.000	1404.70
24	0.7086	1163.0	1183.6	1179.9	0.893	2.978	73.191	19.198	3.297	0.123	0.272	0.022	0.025	0.000	0.000	0.000	0.000	0.000	0.000	1402.57
25	0.7086	1161.9	1182.5	1178.6	0.906	3.021	73.194	19.153	3.290	0.122	0.269	0.021	0.024	0.000	0.000	0.000	0.000	0.000	0.000	1401.27
26	0.7019	1152.8	1173.2	1169.4	0.856	3.024	74.261	18.354	3.088	0.117	0.257	0.020	0.023	0.000	0.000	0.000	0.000	0.000	0.000	1396.92
27	0.6972	1146.8	1167.1	1163.2	0.834	2.984	75.000	17.876	2.899	0.113	0.251	0.020	0.023	0.000	0.000	0.000	0.000	0.000	0.000	1394.27
28	0.6986	1149.6	1169.9	1166.1	0.811	2.981	74.554	18.453	2.826	0.105	0.231	0.019	0.021	0.000	0.000	0.000	0.000	0.000	0.000	1396.29
29	0.6930	1140.2	1160.4	1156.6	0.810	3.023	75.416	17.787	2.627	0.094	0.207	0.017	0.019	0.000	0.000	0.000	0.000	0.000	0.000	1390.56
30	0.6917	1138.1	1158.2	1154.2	0.813	3.031	75.501	17.854	2.484	0.088	0.194	0.016	0.019	0.000	0.000	0.000	0.000	0.000	0.000	1389.17
31	0.6926	1138.7	1158.8	1154.7	0.807	3.087	75.387	17.861	2.526	0.091	0.203	0.017	0.020	0.000	0.000	0.000	0.000	0.000	0.000	1388.97
Avg	0.6986	1154.0	1174.2	1170.5	0.625	3.009	73.910	19.607	2.566	0.081	0.172	0.014	0.016	0.000	0.000	0.000	0.000	0.000	0.000	1401.41

Source Daily Summary

May 2020

Number: 571

Pressure Base: 14.730

Contract Day: 1

Name: WILLISTON BDR-CHARBN STN

Temperature Base:

Contract Hour: 9

Day	Relative Density	Heating Value Wet	Heating Value Dry	Heating Value As Del	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.6917	1140.0	1160.2	1156.6	0.802	2.926	75.494	18.041	2.375	0.101	0.220	0.018	0.022	0.000	0.000	0.000	0.000	0.000	1391.62	
2	0.6911	1140.5	1160.7	1157.2	0.793	2.856	75.658	17.876	2.478	0.099	0.204	0.017	0.020	0.000	0.000	0.000	0.000	0.000	1392.84	
3	0.6878	1135.9	1156.0	1152.6	0.791	2.827	76.098	17.707	2.250	0.093	0.197	0.017	0.021	0.000	0.000	0.000	0.000	0.000	1390.53	
4	0.6867	1134.7	1154.8	1151.3	0.788	2.809	76.246	17.661	2.155	0.095	0.206	0.018	0.022	0.000	0.000	0.000	0.000	0.000	1390.07	
5	0.6857	1133.2	1153.3	1149.9	0.787	2.807	76.373	17.586	2.116	0.093	0.200	0.017	0.020	0.000	0.000	0.000	0.000	0.000	1389.33	
6	0.6858	1134.1	1154.2	1150.8	0.786	2.763	76.408	17.563	2.139	0.096	0.207	0.017	0.021	0.000	0.000	0.000	0.000	0.000	1390.34	
7	0.6850	1132.5	1152.6	1149.2	0.789	2.777	76.588	17.363	2.145	0.095	0.205	0.018	0.021	0.000	0.000	0.000	0.000	0.000	1389.20	
8	0.6849	1133.1	1153.1	1149.7	0.792	2.732	76.565	17.469	2.108	0.094	0.202	0.017	0.021	0.000	0.000	0.000	0.000	0.000	1389.96	
9	0.6844	1132.9	1152.9	1149.6	0.796	2.686	76.669	17.430	2.077	0.095	0.207	0.018	0.021	0.000	0.000	0.000	0.000	0.000	1390.28	
10	0.6834	1132.7	1152.8	1149.4	0.814	2.574	76.794	17.522	1.955	0.093	0.206	0.019	0.023	0.000	0.000	0.000	0.000	0.000	1391.11	
11	0.6815	1130.0	1150.0	1146.6	0.801	2.586	77.061	17.323	1.912	0.087	0.190	0.017	0.021	0.000	0.000	0.000	0.000	0.000	1389.61	
12	0.6802	1127.7	1147.7	1144.2	0.758	2.667	77.261	17.098	1.913	0.084	0.182	0.016	0.020	0.000	0.000	0.000	0.000	0.000	1388.13	
13	0.6840	1130.9	1150.9	1147.4	0.822	2.729	76.871	17.111	2.099	0.099	0.224	0.020	0.025	0.000	0.000	0.000	0.000	0.000	1388.18	
14	0.6829	1129.1	1149.1	1145.7	0.822	2.737	76.990	17.044	2.058	0.096	0.211	0.018	0.023	0.000	0.000	0.000	0.000	0.000	1387.11	
15	0.6848	1130.6	1150.7	1147.3	0.821	2.823	76.611	17.296	2.113	0.093	0.204	0.017	0.021	0.000	0.000	0.000	0.000	0.000	1387.12	
16	0.6846	1130.8	1150.8	1147.4	0.816	2.804	76.555	17.445	2.066	0.088	0.191	0.016	0.020	0.000	0.000	0.000	0.000	0.000	1387.52	
17	0.6848	1130.8	1150.8	1147.2	0.809	2.838	76.588	17.336	2.091	0.093	0.204	0.018	0.022	0.000	0.000	0.000	0.000	0.000	1387.18	
18	0.6892	1135.9	1156.0	1152.4	0.822	2.918	75.881	17.774	2.249	0.097	0.215	0.019	0.023	0.000	0.000	0.000	0.000	0.000	1389.00	
19	0.6924	1139.7	1159.8	1156.2	0.827	2.979	75.339	18.111	2.401	0.095	0.208	0.017	0.021	0.000	0.000	0.000	0.000	0.000	1390.49	
20	0.6941	1142.6	1162.8	1159.2	0.825	2.961	75.268	17.954	2.623	0.102	0.225	0.019	0.023	0.000	0.000	0.000	0.000	0.000	1392.36	
21	0.6949	1143.7	1163.9	1160.4	0.835	2.956	75.183	17.953	2.711	0.101	0.221	0.018	0.022	0.000	0.000	0.000	0.000	0.000	1392.87	
22	0.7034	1156.8	1177.3	1173.7	0.852	2.924	73.772	19.112	2.953	0.110	0.236	0.019	0.022	0.000	0.000	0.000	0.000	0.000	1400.31	
23	0.7088	1163.9	1184.5	1181.0	0.892	2.934	73.201	19.209	3.316	0.126	0.274	0.022	0.026	0.000	0.000	0.000	0.000	0.000	1403.60	
24	0.7059	1159.3	1179.9	1176.4	0.883	2.961	73.645	18.847	3.230	0.122	0.266	0.021	0.025	0.000	0.000	0.000	0.000	0.000	1400.90	
25	0.7067	1159.8	1180.3	1176.8	0.885	3.005	73.539	18.856	3.276	0.123	0.270	0.021	0.025	0.000	0.000	0.000	0.000	0.000	1400.64	
26	0.6969	1146.4	1166.8	1163.3	0.822	2.990	75.098	17.724	2.962	0.114	0.248	0.019	0.023	0.000	0.000	0.000	0.000	0.000	1394.28	
27	0.6938	1142.4	1162.6	1159.1	0.812	2.962	75.524	17.529	2.779	0.109	0.240	0.020	0.023	0.000	0.000	0.000	0.000	0.000	1392.40	
28	0.6966	1146.9	1167.2	1163.7	0.808	2.954	74.976	18.057	2.822	0.108	0.235	0.019	0.023	0.000	0.000	0.000	0.000	0.000	1395.17	
29	0.6905	1136.7	1156.8	1153.4	0.802	3.013	75.813	17.497	2.543	0.093	0.202	0.016	0.020	0.000	0.000	0.000	0.000	0.000	1388.86	
30	0.6908	1137.2	1157.3	1153.7	0.808	3.010	75.688	17.688	2.478	0.091	0.198	0.017	0.020	0.000	0.000	0.000	0.000	0.000	1389.00	
31	0.6912	1136.9	1157.0	1153.4	0.802	3.072	75.650	17.627	2.511	0.094	0.205	0.017	0.021	0.000	0.000	0.000	0.000	0.000	1388.30	
Avg	0.6905	1139.0	1159.1	1155.6	0.815	2.857	75.787	17.768	2.416	0.099	0.216	0.018	0.022	0.000	0.000	0.000	0.000	0.000	1391.56	

Gas Composition and Properties

Effective May 1, 2020

Attachment B
Page 3 of 24

Source #: 0602160
Name: FAIRVIEW BORDER

Component	Mole %	Liquid Content	Mass %
Carbon Dioxide, CO2	0.6702		1.4729
Nitrogen, N2	3.0568		4.2762
Methane, C1	74.9955		60.0800
Ethane, C2	18.4449	4.9354	27.6961
Propane, C3	2.5346	0.6986	5.5812
iso-Butane, iC4	0.0813	0.0266	0.2360
n-Butane, nC4	0.1817	0.0573	0.5274
iso-Pentane, iC5	0.0137	0.0050	0.0494
n-Pentane, nC5	0.0155	0.0056	0.0558
Neo-Pentane, NeoC5			
Hexanes Plus, C6+	0.0058	0.0024	0.0250
Water, H2O			
Hydrogen Sulfide, H2S			
Oxygen, O2			
Carbon Monoxide, CO			
Hydrogen, H2			
Helium, He			
Argon, Ar			
Totals	100.0000	5.7310	100.0000

Property	Total Sample	C6 Plus Fraction
Pressure Base	14.730	
Temperature Base	60.00	
HCDP @ Sample Pressure	-22.654	
Cricondentherm	-12.176	
HV, Dry @ Base P, T	1163.89	
HV, Sat @ Base P, T	1143.63	
HV, Sat @ Sample P, T	1163.89	
Relative Density	0.6933	

C6+: 100

Sample

Date: 05/01/2020 Pressure: 445.0
 Type: Temperature:
 Tech: Kevin Moos H2O: lbs/mm
 H2S: ppm

Remarks:

Analysis

Date: 05/01/2020 Instrument:
 Cylinder: 342
 Tech: Kevin Moos

Remarks:

Zone 241

Gas Composition and Properties

Effective May 1, 2020

Attachment B
Page 4 of 24

Source #: 0602225
Name: WATFORD CITY WEST BORDER

Component	Mole %	Liquid Content	Mass %
Carbon Dioxide, CO2	1.2933		2.7004
Nitrogen, N2	3.0441		4.0458
Methane, C1	70.0258		53.2983
Ethane, C2	21.3667	5.7191	30.4817
Propane, C3	3.5532	0.9797	7.4336
iso-Butane, iC4	0.1899	0.0622	0.5237
n-Butane, nC4	0.4405	0.1390	1.2147
iso-Pentane, iC5	0.0384	0.0141	0.1314
n-Pentane, nC5	0.0395	0.0143	0.1352
Neo-Pentane, NeoC5			
Hexanes Plus, C6+	0.0086	0.0035	0.0352
Water, H2O			
Hydrogen Sulfide, H2S			
Oxygen, O2			
Carbon Monoxide, CO			
Hydrogen, H2			
Helium, He			
Argon, Ar			
Totals	100.0000	6.9320	100.0000

Property	Total Sample	C6 Plus Fraction
Pressure Base	14.730	
Temperature Base	60.00	
HCDP @ Sample Pressure	-15.598	
Cricondentherm	9.860	
HV, Dry @ Base P, T	1205.73	
HV, Sat @ Base P, T	1184.75	
HV, Sat @ Sample P, T	1205.73	
Relative Density	0.7299	

C6+: 100

Sample

Date: 05/01/2020 Pressure: 278.0
 Type: Temperature:
 Tech: Kevin Moos H2O: lbs/mm
 H2S: ppm

Remarks:

Analysis

Date: 05/01/2020 Instrument:
 Cylinder: 396
 Tech: Kevin Moos

Remarks:

Source Daily Summary

May 2020

Number: 164

Pressure Base: 14.730

Contract Day: 1

Name: N TIOGA TRANSFER-NESSON PLT

Temperature Base:

Contract Hour: 9

Day	Relative Density	Heating Value Wet	Heating Value Dry	Heating Value As Del	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.6511	1067.3	1086.2		0.237	4.413	82.008	11.293	1.901	0.047	0.091	0.005	0.005	0.000					1342.92	
2	0.6520	1069.5	1088.5		0.247	4.340	81.711	11.784	1.787	0.042	0.082	0.004	0.004	0.000					1344.91	
3	0.6511	1068.4	1087.3		0.262	4.300	82.028	11.399	1.863	0.047	0.091	0.005	0.005	0.000					1344.41	
4	0.6431	1058.1	1076.8		0.210	4.255	83.225	10.661	1.537	0.037	0.068	0.004	0.004	0.000					1339.73	
5	0.6395	1054.7	1073.4		0.184	4.167	83.799	10.326	1.426	0.033	0.059	0.003	0.003	0.000					1339.13	
6	0.6440	1060.4	1079.2		0.209	4.208	83.121	10.724	1.620	0.039	0.071	0.004	0.004	0.000					1341.61	
7	0.6378	1052.1	1070.7		0.188	4.159	84.296	9.709	1.532	0.037	0.070	0.004	0.004	0.000					1337.60	
8	0.6365	1050.1	1068.7		0.180	4.172	84.449	9.637	1.455	0.034	0.064	0.004	0.004	0.000					1336.41	
9	0.6219	1032.8	1051.1		0.101	3.969	86.692	8.325	0.871	0.015	0.025	0.001	0.002	0.000					1329.85	
10	0.5996	997.5	1015.1		0.030	4.143	90.568	4.902	0.336	0.006	0.012	0.001	0.001	0.000					1307.89	
11	0.6129	1021.9	1040.0		0.052	3.866	88.184	7.268	0.612	0.008	0.009	0.001	0.001	0.000					1325.39	
12	0.6301	1046.7	1065.3		0.196	3.753	85.424	9.467	1.083	0.023	0.042	0.003	0.004	0.005					1338.87	
13	0.6401	1055.7	1074.4		0.361	3.891	84.295	9.689	1.528	0.060	0.142	0.013	0.017	0.004					1339.77	
14	0.6388	1051.4	1070.0		0.387	3.991	84.327	9.705	1.414	0.049	0.109	0.008	0.009	0.000					1335.67	
15	0.6590	1082.8	1102.0		0.503	3.802	80.692	13.059	1.766	0.050	0.110	0.008	0.009	0.000					1354.31	
16	0.6556	1078.3	1097.4		0.473	3.801	81.363	12.425	1.745	0.053	0.119	0.009	0.011	0.000					1352.20	
17	0.6554	1075.8	1094.9		0.439	3.982	81.465	12.083	1.815	0.059	0.134	0.010	0.012	0.000					1349.31	
18	0.6665	1090.8	1110.1		0.497	4.031	79.500	13.691	2.058	0.062	0.139	0.010	0.012	0.001					1356.57	
19	0.6765	1103.9	1123.5		0.530	4.116	77.981	14.573	2.586	0.062	0.133	0.009	0.010	0.000					1362.77	
20	0.6767	1105.6	1125.2		0.534	4.028	78.026	14.539	2.662	0.061	0.131	0.009	0.010	0.000					1364.60	
21	0.6792	1107.8	1127.4		0.545	4.108	77.781	14.443	2.901	0.063	0.139	0.009	0.010	0.000					1364.83	
22	0.7043	1143.4	1163.6		0.641	4.150	73.537	17.821	3.565	0.083	0.179	0.012	0.012	0.000					1383.36	
23	0.7003	1136.6	1156.7		0.653	4.176	74.278	17.093	3.530	0.078	0.170	0.011	0.011	0.000					1378.98	
24	0.7004	1135.5	1155.6		0.662	4.238	74.343	16.876	3.602	0.080	0.177	0.011	0.011	0.000					1377.58	
25	0.7016	1135.8	1155.9		0.665	4.329	74.114	16.995	3.611	0.082	0.182	0.011	0.012	0.000					1376.75	
26	0.6739	1099.7	1119.2		0.502	4.163	78.583	13.852	2.688	0.060	0.134	0.009	0.009	0.000					1360.28	
27	0.6748	1102.2	1121.8		0.488	4.117	78.370	14.140	2.679	0.059	0.130	0.008	0.009	0.000					1362.44	
28	0.6770	1105.3	1124.9		0.484	4.147	77.896	14.598	2.667	0.059	0.131	0.008	0.009	0.000					1363.97	
29	0.6727	1097.9	1117.4		0.485	4.192	78.752	13.705	2.664	0.057	0.127	0.008	0.009	0.000					1359.17	
30	0.6738	1100.1	1119.5		0.492	4.155	78.580	13.862	2.710	0.057	0.127	0.008	0.009	0.000					1360.70	
31	0.6732	1097.6	1117.0		0.490	4.254	78.617	13.801	2.635	0.058	0.127	0.008	0.009	0.000					1358.22	
Avg	0.6587	1080.0	1099.3		0.385	4.110	80.903	12.337	2.092	0.050	0.107	0.007	0.008	0.000					1351.30	

Zone 260

Source Daily Summary

May 2020

Number: 601

Pressure Base: 14.730

Contract Day: 1

Name: TIOGA STN-ROBINSON LAKE PLNT

Temperature Base:

Contract Hour: 9

Day	Relative Density	Heating Value Wet	Heating Value Dry	Heating Value As Del	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.7141	1150.0	1170.3	1167.0	0.765	4.478	72.048	18.473	3.922	0.094	0.195	0.012	0.013	0.000	0.000	0.000	0.000	0.000	1381.84	
2	0.7425	1173.7	1194.5	1191.2	0.775	5.678	67.750	20.048	5.262	0.152	0.306	0.014	0.014	0.000	0.000	0.000	0.000	0.000	1383.16	
3	0.7481	1171.8	1192.6	1189.4	0.867	6.178	66.875	20.078	5.503	0.157	0.315	0.014	0.014	0.000	0.000	0.000	0.000	0.000	1375.66	
4	0.7502	1175.9	1196.7	1193.6	0.881	6.111	66.651	20.208	5.606	0.169	0.343	0.015	0.015	0.000	0.000	0.000	0.000	0.000	1378.44	
5	0.7506	1176.6	1197.5	1194.3	0.882	6.103	66.586	20.301	5.557	0.176	0.360	0.018	0.018	0.000	0.000	0.000	0.000	0.000	1378.91	
6	0.7417	1169.0	1189.7	1186.4	0.811	5.835	67.747	20.018	5.120	0.148	0.291	0.015	0.015	0.000	0.000	0.000	0.000	0.000	1378.32	
7	0.7509	1176.4	1197.3	1194.1	0.883	6.142	66.458	20.416	5.564	0.168	0.335	0.017	0.017	0.000	0.000	0.000	0.000	0.000	1378.41	
8	0.7459	1173.2	1194.0	1190.7	0.844	5.927	67.212	20.172	5.321	0.164	0.323	0.019	0.017	0.000	0.000	0.000	0.000	0.000	1379.26	
9	0.7403	1170.2	1190.9	1187.6	0.771	5.684	68.111	19.836	5.094	0.155	0.312	0.018	0.019	0.000	0.000	0.000	0.000	0.000	1381.03	
10	0.7107	1145.9	1166.2	1163.1	0.545	4.747	72.096	18.704	3.632	0.090	0.168	0.009	0.009	0.000	0.000	0.000	0.000	0.000	1380.49	
11	0.6724	1122.9	1142.8	1139.6	0.198	3.083	77.316	17.776	1.606	0.013	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1390.33	
12	0.6651	1114.5	1134.2	1131.0	0.151	2.978	78.783	16.457	1.613	0.014	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1387.42	
13	0.6604	1102.5	1122.0	1118.7	0.218	3.163	79.879	15.070	1.622	0.022	0.023	0.002	0.002	0.000	0.000	0.000	0.000	0.000	1377.30	
14	0.6773	1117.0	1136.8	1133.3	0.520	3.410	77.698	15.862	2.303	0.067	0.114	0.011	0.014	0.000	0.000	0.000	0.000	0.000	1377.78	
15	0.6816	1114.3	1134.1	1130.7	0.704	3.691	77.262	15.573	2.494	0.089	0.160	0.013	0.014	0.000	0.000	0.000	0.000	0.000	1370.36	
16	0.6817	1113.5	1133.2	1129.9	0.712	3.740	77.216	15.574	2.484	0.088	0.158	0.012	0.014	0.000	0.000	0.000	0.000	0.000	1369.24	
17	0.6832	1117.6	1137.4	1133.9	0.735	3.595	77.096	15.727	2.537	0.087	0.191	0.014	0.018	0.000	0.000	0.000	0.000	0.000	1372.77	
18	0.7015	1140.2	1160.4	1156.8	0.562	4.206	73.674	18.123	3.121	0.088	0.193	0.015	0.017	0.000	0.000	0.000	0.000	0.000	1382.45	
19	0.7346	1158.8	1179.4	1175.8	0.860	5.716	68.874	19.354	4.733	0.139	0.291	0.016	0.017	0.000	0.000	0.000	0.000	0.000	1372.89	
20	0.7465	1168.7	1189.4	1185.9	0.899	6.167	67.083	20.025	5.312	0.159	0.321	0.017	0.017	0.000	0.000	0.000	0.000	0.000	1373.51	
21	0.7449	1172.9	1193.7	1190.1	0.890	5.781	67.378	20.214	5.220	0.159	0.323	0.018	0.018	0.000	0.000	0.000	0.000	0.000	1379.87	
22	0.7510	1177.5	1198.4	1194.8	0.904	6.053	66.582	20.290	5.599	0.171	0.361	0.020	0.020	0.000	0.000	0.000	0.000	0.000	1379.59	
23	0.7493	1176.6	1197.4	1194.1	0.901	5.954	66.821	20.265	5.498	0.167	0.353	0.020	0.021	0.000	0.000	0.000	0.000	0.000	1380.06	
24	0.7474	1172.4	1193.1	1189.8	0.932	5.982	67.075	20.106	5.368	0.162	0.338	0.017	0.021	0.000	0.000	0.000	0.000	0.000	1376.87	
25	0.7472	1172.5	1193.3	1190.0	0.913	5.988	67.074	20.108	5.389	0.156	0.336	0.018	0.018	0.000	0.000	0.000	0.000	0.000	1377.23	
26	0.7480	1172.9	1193.7	1190.2	0.913	6.035	66.957	20.129	5.442	0.154	0.333	0.018	0.018	0.000	0.000	0.000	0.000	0.000	1376.96	
27	0.7487	1174.4	1195.2	1191.8	0.913	6.013	66.878	20.180	5.473	0.161	0.343	0.019	0.019	0.000	0.000	0.000	0.000	0.000	1378.05	
28	0.7497	1175.4	1196.2	1192.9	0.911	6.051	66.740	20.212	5.539	0.162	0.347	0.019	0.019	0.000	0.000	0.000	0.000	0.000	1378.27	
29	0.7503	1175.5	1196.4	1193.0	0.908	6.099	66.631	20.271	5.535	0.164	0.352	0.019	0.020	0.000	0.000	0.000	0.000	0.000	1377.94	
30	0.7495	1174.0	1194.8	1191.4	0.903	6.128	66.652	20.321	5.472	0.152	0.334	0.018	0.019	0.000	0.000	0.000	0.000	0.000	1376.86	
31	0.7486	1172.0	1192.7	1189.1	0.906	6.151	66.806	20.184	5.440	0.152	0.326	0.018	0.018	0.000	0.000	0.000	0.000	0.000	1375.42	
Avg	0.7269	1157.0	1177.6	1174.2	0.761	5.254	70.065	19.035	4.464	0.129	0.263	0.015	0.015	0.000	0.000	0.000	0.000	0.000	1378.28	

Source Daily Summary

May 2020

Number: 091

Pressure Base: 14.730

Contract Day: 1

Name: MNT BRD-PLRMO BRD-BIS STN

Temperature Base:

Contract Hour: 9

Day	Relative Density	Heating Value Wet	Heating Value Dry	Heating Value As Del	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.7538	1177.2	1198.1	1194.9	0.906	6.328	66.172	20.197	5.840	0.174	0.351	0.016	0.016	0.000	0.000	0.000	0.000	0.000	0.000	1376.70
2	0.7535	1177.7	1198.5	1195.4	0.917	6.257	66.220	20.272	5.751	0.180	0.368	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1377.49
3	0.7517	1173.8	1194.6	1191.4	0.917	6.323	66.334	20.290	5.600	0.169	0.333	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1374.62
4	0.7530	1176.0	1196.8	1193.7	0.916	6.316	66.162	20.387	5.669	0.172	0.342	0.017	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1375.97
5	0.7551	1180.0	1200.9	1197.7	0.914	6.266	65.972	20.464	5.787	0.185	0.370	0.020	0.021	0.000	0.000	0.000	0.000	0.000	0.000	1378.73
6	0.7519	1173.5	1194.3	1191.1	0.915	6.360	66.325	20.248	5.608	0.171	0.338	0.017	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1374.12
7	0.7522	1174.2	1195.0	1191.8	0.913	6.346	66.269	20.311	5.622	0.168	0.337	0.017	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1374.69
8	0.7502	1172.1	1192.8	1189.6	0.921	6.286	66.524	20.258	5.478	0.169	0.331	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1373.93
9	0.7492	1170.3	1191.1	1187.9	0.918	6.302	66.646	20.179	5.436	0.165	0.321	0.016	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1372.82
10	0.7498	1171.3	1192.1	1188.9	0.917	6.298	66.537	20.271	5.465	0.158	0.320	0.016	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1373.45
11	0.7499	1171.2	1191.9	1188.8	0.917	6.316	66.516	20.279	5.457	0.158	0.323	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1373.21
12	0.7500	1171.0	1191.7	1188.6	0.917	6.335	66.493	20.295	5.438	0.156	0.330	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1372.91
13	0.7501	1170.2	1190.9	1187.7	0.915	6.394	66.441	20.327	5.398	0.155	0.335	0.018	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1371.89
14	0.7507	1171.9	1192.7	1189.5	0.918	6.340	66.396	20.369	5.438	0.159	0.343	0.018	0.019	0.000	0.000	0.000	0.000	0.000	0.000	1373.39
15	0.7460	1167.6	1188.3	1185.1	0.883	6.214	67.060	20.107	5.235	0.151	0.316	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1372.63
16	0.7491	1169.5	1190.2	1187.0	0.920	6.340	66.655	20.139	5.429	0.155	0.328	0.017	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1371.94
17	0.7490	1168.9	1189.6	1186.4	0.918	6.364	66.737	19.992	5.461	0.164	0.330	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1371.38
18	0.7499	1170.7	1191.5	1188.2	0.922	6.329	66.648	20.046	5.507	0.169	0.343	0.018	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1372.73
19	0.7508	1173.7	1194.5	1191.3	0.924	6.232	66.575	20.127	5.576	0.176	0.352	0.018	0.019	0.000	0.000	0.000	0.000	0.000	0.000	1375.38
20	0.7531	1177.9	1198.7	1195.4	0.922	6.200	66.312	20.247	5.728	0.177	0.373	0.020	0.021	0.000	0.000	0.000	0.000	0.000	0.000	1378.09
21	0.7518	1175.5	1196.3	1193.0	0.923	6.218	66.465	20.185	5.631	0.174	0.364	0.020	0.021	0.000	0.000	0.000	0.000	0.000	0.000	1376.50
22	0.7506	1175.0	1195.8	1192.5	0.927	6.134	66.668	20.111	5.585	0.172	0.363	0.020	0.021	0.000	0.000	0.000	0.000	0.000	0.000	1376.99
23	0.7494	1173.1	1193.8	1190.6	0.931	6.128	66.801	20.076	5.514	0.164	0.349	0.019	0.019	0.000	0.000	0.000	0.000	0.000	0.000	1375.90
24	0.7493	1172.5	1193.2	1190.0	0.930	6.161	66.787	20.063	5.520	0.159	0.342	0.018	0.019	0.000	0.000	0.000	0.000	0.000	0.000	1375.25
25	0.7496	1173.1	1193.9	1190.6	0.931	6.150	66.755	20.087	5.530	0.163	0.347	0.018	0.019	0.000	0.000	0.000	0.000	0.000	0.000	1375.71
26	0.7504	1173.8	1194.5	1191.3	0.931	6.187	66.638	20.119	5.574	0.165	0.349	0.019	0.019	0.000	0.000	0.000	0.000	0.000	0.000	1375.73
27	0.7518	1174.8	1195.6	1192.3	0.928	6.255	66.427	20.204	5.621	0.168	0.358	0.020	0.020	0.000	0.000	0.000	0.000	0.000	0.000	1375.70
28	0.7509	1173.0	1193.8	1190.5	0.921	6.287	66.474	20.230	5.549	0.157	0.343	0.019	0.020	0.000	0.000	0.000	0.000	0.000	0.000	1374.47
29	0.7499	1171.2	1191.9	1188.6	0.922	6.306	66.607	20.129	5.512	0.156	0.333	0.018	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1373.21
30	0.7482	1167.1	1187.7	1184.5	0.918	6.405	66.889	19.771	5.508	0.152	0.323	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1369.92
31	0.7466	1164.9	1185.5	1182.3	0.922	6.382	67.110	19.651	5.448	0.144	0.310	0.016	0.016	0.000	0.000	0.000	0.000	0.000	0.000	1368.85
Avg	0.7506	1173.0	1193.4	1190.2	0.919	6.283	66.536	20.175	5.546	0.165	0.341	0.018	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1374.33

Gas Composition and Properties

Effective May 1, 2020

Attachment B
Page 8 of 24

Source #: 2501030
Name: LIGNITE PLANT

Component	Mole %	Liquid Content	Mass %
Carbon Dioxide, CO2	0.1752		0.3975
Nitrogen, N2	2.8568		4.1258
Methane, C1	77.5519		64.1398
Ethane, C2	17.7381	4.7454	27.4972
Propane, C3	1.6578	0.4569	3.7687
iso-Butane, iC4	0.0111	0.0036	0.0333
n-Butane, nC4	0.0019	0.0006	0.0057
iso-Pentane, iC5			
n-Pentane, nC5			
Neo-Pentane, NeoC5			
Hexanes Plus, C6+	0.0072	0.0030	0.0320
Water, H2O			
Hydrogen Sulfide, H2S			
Oxygen, O2			
Carbon Monoxide, CO			
Hydrogen, H2			
Helium, He			
Argon, Ar			
Totals	100.0000	5.2100	100.0000

Property	Total Sample	C6 Plus Fraction
Pressure Base	14.730	
Temperature Base	60.00	
HCDP @ Sample Pressure	-40.138	
Cricodentherm	-29.437	
HV, Dry @ Base P, T	1145.60	
HV, Sat @ Base P, T	1125.66	
HV, Sat @ Sample P, T	1145.60	
Relative Density	0.6714	
C6+: 100		

Sample

Date: 05/01/2020 Pressure: 450.0
 Type: Temperature:
 Tech: Kevin Moos H2O: lbs/mm
 H2S: ppm

Remarks:

Analysis

Date: 05/01/2020 Instrument:
 Cylinder: 400
 Tech: Kevin Moos

Remarks:

Gas Composition and Properties

Effective May 1, 2020

Attachment B
Page 9 of 24

Source #: 3002013
Name: EPPING BORDER

Component	Mole %	Liquid Content	Mass %
Carbon Dioxide, CO2	0.7318		1.5956
Nitrogen, N2	3.2118		4.4576
Methane, C1	75.7335		60.1936
Ethane, C2	16.0602	4.2974	23.9254
Propane, C3	3.6112	0.9954	7.8893
iso-Butane, iC4	0.1674	0.0548	0.4820
n-Butane, nC4	0.4026	0.1270	1.1593
iso-Pentane, iC5	0.0345	0.0126	0.1233
n-Pentane, nC5	0.0385	0.0140	0.1376
Neo-Pentane, NeoC5			
Hexanes Plus, C6+	0.0085	0.0035	0.0363
Water, H2O			
Hydrogen Sulfide, H2S			
Oxygen, O2			
Carbon Monoxide, CO			
Hydrogen, H2			
Helium, He			
Argon, Ar			
Totals	100.0000	5.5040	100.0000

Property	Total Sample	C6 Plus Fraction
Pressure Base	14.730	
Temperature Base	60.00	
HCDP @ Sample Pressure	-7.589	
Cricondentherm	0.568	
HV, Dry @ Base P, T	1168.18	
HV, Sat @ Base P, T	1147.85	
HV, Sat @ Sample P, T	1168.18	
Relative Density	0.6988	
C6+: 100		

Sample

Date: 05/01/2020 Pressure: 460.0
 Type: Temperature:
 Tech: Kevin Moos H2O: lbs/mm
 H2S: ppm

Remarks:

Analysis

Date: 05/01/2020 Instrument:
 Cylinder: 321
 Tech: Kevin Moos

Remarks:

*** End of Report ***

Zone 264

Source Daily Summary

May 2020

Number: 603

Pressure Base: 14.730

Contract Day: 1

Name: TIOGA STN-COUNTY LINE PLANT

Temperature Base:

Contract Hour: 9

Day	Relative Density	Heating Value Wet	Heating Value Dry	Heating Value As Del	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.6872	1139.3	1159.4	1156.2	0.444	3.099	75.839	17.877	2.542	0.059	0.119	0.009	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1395.24
2	0.6740	1127.7	1147.6	1144.4	0.175	2.980	77.296	17.616	1.907	0.017	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1394.45
3	0.6791	1135.9	1156.0	1152.7	0.190	2.929	76.046	19.142	1.672	0.013	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1399.44
4	0.6703	1121.8	1141.6	1138.4	0.225	2.917	77.874	17.289	1.673	0.015	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1390.97
5	0.6666	1114.8	1134.6	1131.4	0.231	2.984	78.631	16.435	1.695	0.018	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1386.22
6	0.6687	1119.3	1139.2	1135.9	0.209	2.936	78.243	16.853	1.735	0.018	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1389.67
7	0.6694	1121.6	1141.5	1138.2	0.183	2.902	78.024	17.199	1.668	0.018	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1391.74
8	0.6671	1117.2	1137.0	1133.7	0.182	2.954	78.554	16.554	1.727	0.018	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1388.69
9	0.6654	1114.3	1134.0	1130.8	0.166	3.001	78.803	16.329	1.682	0.015	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1386.79
10	0.6661	1115.1	1134.9	1131.6	0.168	3.012	78.578	16.618	1.609	0.013	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1387.10
11	0.6701	1121.8	1141.7	1138.5	0.178	2.965	77.704	17.603	1.538	0.011	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1391.29
12	0.6686	1120.3	1140.1	1136.9	0.165	2.930	78.093	17.188	1.609	0.013	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1391.02
13	0.6660	1114.1	1133.9	1130.6	0.202	3.010	78.797	16.226	1.734	0.019	0.012	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1385.98
14	0.6750	1116.1	1135.9	1132.4	0.456	3.341	77.994	15.809	2.220	0.060	0.099	0.009	0.012	0.000	0.000	0.000	0.000	0.000	0.000	1379.07
15	0.6816	1115.3	1135.0	1131.9	0.699	3.645	77.270	15.607	2.501	0.089	0.161	0.013	0.014	0.000	0.000	0.000	0.000	0.000	0.000	1371.47
16	0.6863	1122.3	1142.2	1139.1	0.721	3.630	76.190	16.766	2.449	0.080	0.142	0.011	0.012	0.000	0.000	0.000	0.000	0.000	0.000	1375.39
17	0.6979	1141.6	1161.8	1158.6	0.762	3.482	74.130	18.707	2.669	0.072	0.154	0.011	0.013	0.000	0.000	0.000	0.000	0.000	0.000	1387.30
18	0.6862	1122.8	1142.6	1139.4	0.706	3.615	76.266	16.708	2.422	0.080	0.174	0.013	0.016	0.000	0.000	0.000	0.000	0.000	0.000	1376.02
19	0.6923	1132.8	1152.8	1149.5	0.723	3.551	75.166	17.760	2.506	0.081	0.181	0.014	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1382.13
20	0.7065	1156.7	1177.2	1173.9	0.761	3.369	72.568	20.189	2.882	0.067	0.143	0.010	0.012	0.000	0.000	0.000	0.000	0.000	0.000	1397.16
21	0.7085	1159.3	1179.8	1176.6	0.769	3.381	72.500	19.900	3.221	0.066	0.141	0.010	0.012	0.000	0.000	0.000	0.000	0.000	0.000	1398.35
22	0.7134	1165.2	1185.8	1182.6	0.806	3.425	71.986	19.879	3.667	0.068	0.146	0.011	0.012	0.000	0.000	0.000	0.000	0.000	0.000	1400.65
23	0.7096	1161.6	1182.2	1178.9	0.751	3.369	72.578	19.534	3.538	0.066	0.141	0.010	0.012	0.000	0.000	0.000	0.000	0.000	0.000	1400.04
24	0.7117	1163.7	1184.3	1181.0	0.789	3.385	72.279	19.676	3.633	0.070	0.147	0.009	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1400.47
25	0.7126	1165.3	1185.9	1182.7	0.777	3.389	72.154	19.746	3.697	0.068	0.147	0.010	0.012	0.000	0.000	0.000	0.000	0.000	0.000	1401.53
26	0.7139	1166.4	1187.0	1183.8	0.787	3.428	71.966	19.817	3.759	0.068	0.151	0.011	0.013	0.000	0.000	0.000	0.000	0.000	0.000	1401.58
27	0.7115	1163.0	1183.6	1180.3	0.766	3.440	72.230	19.768	3.557	0.067	0.148	0.011	0.013	0.000	0.000	0.000	0.000	0.000	0.000	1399.88
28	0.7116	1163.6	1184.2	1181.0	0.750	3.442	72.163	19.859	3.552	0.066	0.144	0.011	0.013	0.000	0.000	0.000	0.000	0.000	0.000	1400.48
29	0.7103	1161.6	1182.2	1178.9	0.739	3.454	72.361	19.721	3.496	0.065	0.142	0.010	0.012	0.000	0.000	0.000	0.000	0.000	0.000	1399.39
30	0.7093	1160.3	1180.9	1177.6	0.733	3.453	72.552	19.525	3.512	0.064	0.139	0.010	0.012	0.000	0.000	0.000	0.000	0.000	0.000	1398.75
31	0.7084	1158.1	1178.6	1175.3	0.741	3.487	72.813	19.161	3.569	0.066	0.140	0.010	0.012	0.000	0.000	0.000	0.000	0.000	0.000	1396.99
Avg	0.6892	1138.0	1158.2	1154.9	0.515	3.255	75.408	18.099	2.569	0.049	0.091	0.007	0.008	0.000	0.000	0.000	0.000	0.000	0.000	1391.78

Source Daily Summary

May 2020

Number: 043

Pressure Base: 14.730

Contract Day: 1

Name: BISMARCK STN-CLEVELAND STN

Temperature Base:

Contract Hour: 9

Day	Relative Density	Heating Value Wet	Heating Value Dry	Heating Value As Del	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.7476	1173.6	1194.3	1190.4	0.890	5.996	67.154	19.859	5.562	0.168	0.341	0.015	0.014	0.000	0.000	0.000	0.000	0.000	1378.05	
2	0.7516	1177.5	1198.4	1194.5	0.896	6.119	66.562	20.125	5.724	0.178	0.364	0.016	0.015	0.000	0.000	0.000	0.000	0.000	1379.04	
3	0.7435	1168.7	1189.4	1185.5	0.899	5.892	67.714	19.704	5.263	0.165	0.332	0.016	0.015	0.000	0.000	0.000	0.000	0.000	1376.12	
4	0.7318	1159.0	1179.6	1175.8	0.901	5.382	69.537	18.960	4.759	0.146	0.288	0.014	0.014	0.000	0.000	0.000	0.000	0.000	1375.62	
5	0.7253	1150.5	1170.9	1167.2	0.908	5.282	70.470	18.492	4.432	0.133	0.260	0.012	0.012	0.000	0.000	0.000	0.000	0.000	1371.62	
6	0.7355	1164.4	1185.1	1181.2	0.903	5.395	69.194	18.969	5.003	0.164	0.334	0.019	0.019	0.000	0.000	0.000	0.000	0.000	1378.50	
7	0.7182	1144.2	1164.4	1160.8	0.900	5.012	71.692	17.794	4.201	0.127	0.250	0.012	0.012	0.000	0.000	0.000	0.000	0.000	1370.78	
8	0.7316	1159.3	1179.9	1176.1	0.863	5.408	69.422	19.182	4.675	0.141	0.282	0.014	0.014	0.000	0.000	0.000	0.000	0.000	1376.15	
9	0.7454	1169.0	1189.7	1185.8	0.901	6.050	67.284	19.978	5.274	0.164	0.319	0.015	0.015	0.000	0.000	0.000	0.000	0.000	1374.75	
10	0.7488	1171.7	1192.5	1188.3	0.898	6.211	66.721	20.216	5.437	0.162	0.324	0.016	0.015	0.000	0.000	0.000	0.000	0.000	1374.79	
11	0.7489	1172.0	1192.8	1188.8	0.900	6.192	66.722	20.230	5.439	0.159	0.326	0.016	0.016	0.000	0.000	0.000	0.000	0.000	1375.12	
12	0.7489	1171.4	1192.1	1188.1	0.898	6.238	66.721	20.184	5.435	0.160	0.331	0.016	0.016	0.000	0.000	0.000	0.000	0.000	1374.31	
13	0.7490	1171.1	1191.8	1187.8	0.899	6.267	66.629	20.310	5.370	0.155	0.336	0.017	0.017	0.000	0.000	0.000	0.000	0.000	1373.85	
14	0.7494	1171.9	1192.7	1188.6	0.900	6.249	66.603	20.327	5.381	0.159	0.346	0.018	0.017	0.000	0.000	0.000	0.000	0.000	1374.50	
15	0.7445	1167.3	1188.0	1184.0	0.874	6.110	67.326	19.997	5.192	0.151	0.318	0.016	0.016	0.000	0.000	0.000	0.000	0.000	1373.60	
16	0.7428	1165.6	1186.2	1182.4	0.899	6.015	67.675	19.752	5.162	0.148	0.317	0.016	0.016	0.000	0.000	0.000	0.000	0.000	1373.15	
17	0.7465	1167.9	1188.6	1184.7	0.899	6.223	67.142	19.841	5.375	0.162	0.327	0.016	0.015	0.000	0.000	0.000	0.000	0.000	1372.46	
18	0.7478	1170.3	1191.0	1187.0	0.903	6.197	67.003	19.905	5.447	0.168	0.342	0.017	0.016	0.000	0.000	0.000	0.000	0.000	1373.99	
19	0.7472	1171.0	1191.8	1187.8	0.904	6.088	67.143	19.891	5.424	0.171	0.345	0.017	0.017	0.000	0.000	0.000	0.000	0.000	1375.46	
20	0.7520	1177.9	1198.8	1194.6	0.904	6.119	66.512	20.182	5.689	0.179	0.376	0.020	0.019	0.000	0.000	0.000	0.000	0.000	1379.12	
21	0.7506	1175.8	1196.6	1192.4	0.908	6.114	66.688	20.107	5.600	0.176	0.370	0.019	0.019	0.000	0.000	0.000	0.000	0.000	1377.91	
22	0.7514	1178.2	1199.1	1194.8	0.907	6.046	66.619	20.174	5.657	0.179	0.379	0.020	0.020	0.000	0.000	0.000	0.000	0.000	1379.95	
23	0.7483	1173.2	1194.0	1189.7	0.912	6.051	66.973	20.038	5.472	0.166	0.352	0.018	0.017	0.000	0.000	0.000	0.000	0.000	1376.98	
24	0.7480	1172.6	1193.4	1189.2	0.912	6.057	66.979	20.078	5.434	0.161	0.345	0.017	0.017	0.000	0.000	0.000	0.000	0.000	1376.57	
25	0.7479	1172.8	1193.6	1189.5	0.911	6.038	67.034	20.003	5.476	0.159	0.344	0.017	0.017	0.000	0.000	0.000	0.000	0.000	1376.88	
26	0.7489	1173.8	1194.6	1190.5	0.913	6.074	66.902	20.034	5.523	0.166	0.353	0.018	0.018	0.000	0.000	0.000	0.000	0.000	1377.06	
27	0.7480	1173.0	1193.7	1189.8	0.909	6.043	67.060	19.941	5.489	0.165	0.355	0.019	0.018	0.000	0.000	0.000	0.000	0.000	1376.96	
28	0.7479	1171.8	1192.6	1188.7	0.904	6.109	66.985	20.025	5.437	0.160	0.344	0.018	0.018	0.000	0.000	0.000	0.000	0.000	1375.73	
29	0.7472	1170.7	1191.5	1187.5	0.902	6.114	67.046	20.016	5.402	0.154	0.332	0.017	0.017	0.000	0.000	0.000	0.000	0.000	1375.08	
30	0.7418	1163.4	1184.0	1180.1	0.902	6.061	67.920	19.389	5.238	0.147	0.314	0.016	0.015	0.000	0.000	0.000	0.000	0.000	1371.38	
31	0.7413	1161.7	1182.2	1178.4	0.901	6.112	68.000	19.264	5.250	0.140	0.303	0.015	0.014	0.000	0.000	0.000	0.000	0.000	1369.87	
Avg	0.7444	1169.0	1189.5	1185.5	0.901	5.976	67.530	19.773	5.297	0.159	0.331	0.017	0.016	0.000	0.000	0.000	0.000	0.000	1375.33	

Zone 271

Source Daily Summary

May 2020

Number: 063

Pressure Base: 14.730

Contract Day: 1

Name: CLEVELAND STN-MAPLETON

Temperature Base:

Contract Hour: 9

Day	Relative Density	Heating Value Wet	Heating Value Dry	Heating Value As Del	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.7434	1169.3	1190.0	1186.9	0.904	5.836	67.787	19.628	5.343	0.158	0.316	0.014	0.014	0.000	0.000	0.000	0.000	0.000	0.000	1376.92
2	0.7473	1172.8	1193.6	1190.5	0.899	5.994	67.202	19.851	5.523	0.166	0.334	0.015	0.014	0.000	0.000	0.000	0.000	0.000	0.000	1377.46
3	0.7509	1176.4	1197.3	1194.1	0.904	6.107	66.668	20.084	5.674	0.175	0.354	0.016	0.016	0.000	0.000	0.000	0.000	0.000	0.000	1378.33
4	0.7426	1167.3	1187.9	1184.8	0.907	5.885	67.839	19.646	5.206	0.162	0.324	0.016	0.016	0.000	0.000	0.000	0.000	0.000	0.000	1375.20
5	0.7317	1158.5	1179.0	1175.9	0.908	5.395	69.563	18.928	4.748	0.145	0.285	0.015	0.014	0.000	0.000	0.000	0.000	0.000	0.000	1375.00
6	0.7255	1150.8	1171.2	1167.4	0.915	5.270	70.488	18.454	4.452	0.134	0.262	0.013	0.013	0.000	0.000	0.000	0.000	0.000	0.000	1371.73
7	0.7357	1164.3	1184.9	1180.8	0.911	5.408	69.155	19.012	4.986	0.163	0.328	0.019	0.019	0.000	0.000	0.000	0.000	0.000	0.000	1378.07
8	0.7179	1143.4	1163.6	1160.4	0.907	5.026	71.734	17.754	4.184	0.125	0.245	0.012	0.012	0.000	0.000	0.000	0.000	0.000	0.000	1370.01
9	0.7298	1157.1	1177.6	1174.4	0.871	5.360	69.721	19.023	4.588	0.137	0.272	0.014	0.014	0.000	0.000	0.000	0.000	0.000	0.000	1375.12
10	0.7446	1167.5	1188.1	1184.9	0.909	6.060	67.418	19.868	5.240	0.162	0.312	0.016	0.015	0.000	0.000	0.000	0.000	0.000	0.000	1373.56
11	0.7482	1170.2	1190.9	1187.7	0.905	6.237	66.794	20.176	5.384	0.160	0.313	0.016	0.015	0.000	0.000	0.000	0.000	0.000	0.000	1373.46
12	0.7504	1173.9	1194.7	1191.4	0.906	6.208	66.518	20.341	5.506	0.160	0.327	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1375.88
13	0.7489	1171.1	1191.9	1188.7	0.905	6.242	66.686	20.243	5.414	0.158	0.320	0.017	0.016	0.000	0.000	0.000	0.000	0.000	0.000	1373.99
14	0.7494	1171.5	1192.2	1189.0	0.905	6.270	66.594	20.311	5.397	0.156	0.332	0.018	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1373.89
15	0.7497	1171.3	1192.0	1188.8	0.905	6.315	66.521	20.350	5.381	0.157	0.337	0.018	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1373.31
16	0.7442	1167.0	1187.7	1184.5	0.879	6.092	67.368	20.007	5.160	0.149	0.313	0.017	0.016	0.000	0.000	0.000	0.000	0.000	0.000	1373.46
17	0.7415	1164.0	1184.6	1181.5	0.906	5.986	67.861	19.670	5.090	0.146	0.308	0.016	0.016	0.000	0.000	0.000	0.000	0.000	0.000	1372.35
18	0.7462	1167.4	1188.1	1184.9	0.906	6.213	67.189	19.834	5.343	0.160	0.322	0.017	0.016	0.000	0.000	0.000	0.000	0.000	0.000	1372.10
19	0.7473	1169.5	1190.2	1187.1	0.909	6.188	67.070	19.885	5.409	0.166	0.337	0.018	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1373.49
20	0.7466	1169.7	1190.4	1187.3	0.912	6.101	67.210	19.859	5.377	0.169	0.336	0.018	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1374.44
21	0.7523	1177.7	1198.5	1195.4	0.913	6.148	66.446	20.223	5.680	0.179	0.370	0.020	0.020	0.000	0.000	0.000	0.000	0.000	0.000	1378.53
22	0.7512	1176.1	1196.9	1193.8	0.915	6.138	66.584	20.175	5.607	0.176	0.365	0.020	0.020	0.000	0.000	0.000	0.000	0.000	0.000	1377.69
23	0.7516	1177.7	1198.6	1195.4	0.915	6.077	66.577	20.191	5.650	0.177	0.372	0.021	0.021	0.000	0.000	0.000	0.000	0.000	0.000	1379.23
24	0.7486	1173.1	1193.8	1190.7	0.920	6.078	66.916	20.064	5.472	0.166	0.347	0.019	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1376.50
25	0.7484	1172.5	1193.3	1190.2	0.920	6.084	66.932	20.071	5.454	0.161	0.342	0.018	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1376.12
26	0.7479	1172.4	1193.1	1190.0	0.919	6.056	67.019	20.007	5.466	0.158	0.338	0.018	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1376.31
27	0.7492	1174.0	1194.7	1191.6	0.921	6.080	66.843	20.087	5.517	0.165	0.349	0.019	0.019	0.000	0.000	0.000	0.000	0.000	0.000	1376.96
28	0.7461	1170.7	1191.4	1188.3	0.916	5.991	67.354	19.805	5.388	0.162	0.346	0.019	0.019	0.000	0.000	0.000	0.000	0.000	0.000	1376.01
29	0.7472	1170.7	1191.4	1188.3	0.912	6.095	67.105	19.960	5.395	0.159	0.337	0.019	0.019	0.000	0.000	0.000	0.000	0.000	0.000	1375.04
30	0.7468	1170.0	1190.7	1187.5	0.910	6.104	67.124	19.974	5.374	0.152	0.326	0.018	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1374.58
31	0.7412	1162.5	1183.1	1179.9	0.909	6.046	68.025	19.327	5.206	0.145	0.309	0.016	0.016	0.000	0.000	0.000	0.000	0.000	0.000	1370.84
Avg	0.7443	1168.0	1189.1	1185.9	0.908	5.971	67.558	19.768	5.278	0.158	0.325	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1375.02

Zone 272

Source Daily Summary

May 2020

Number: 061

Pressure Base: 14.730

Contract Day: 1

Name: CLEVELAND STN-GRAFTON BDR

Temperature Base:

Contract Hour: 9

Day	Relative Density	Heating Value Wet	Heating Value Dry	Heating Value As Del	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.7429	1167.5	1188.1	1185.1	0.904	5.907	67.776	19.628	5.306	0.153	0.302	0.013	0.012	0.000	0.000	0.000	0.000	0.000	1375.17	
2	0.7461	1170.7	1191.4	1188.3	0.900	6.016	67.322	19.797	5.455	0.161	0.321	0.014	0.013	0.000	0.000	0.000	0.000	0.000	1375.99	
3	0.7486	1171.5	1192.3	1189.2	0.905	6.192	66.859	20.003	5.532	0.163	0.321	0.013	0.012	0.000	0.000	0.000	0.000	0.000	1374.68	
4	0.7427	1166.5	1187.1	1184.1	0.908	5.945	67.764	19.676	5.202	0.160	0.316	0.015	0.014	0.000	0.000	0.000	0.000	0.000	1374.15	
5	0.7324	1159.1	1179.6	1176.6	0.909	5.427	69.445	18.975	4.781	0.146	0.287	0.015	0.014	0.000	0.000	0.000	0.000	0.000	1375.02	
6	0.7252	1150.1	1170.4	1167.3	0.915	5.286	70.517	18.430	4.434	0.133	0.259	0.013	0.012	0.000	0.000	0.000	0.000	0.000	1371.15	
7	0.7353	1163.7	1184.3	1181.0	0.911	5.407	69.220	18.964	4.969	0.162	0.328	0.019	0.020	0.000	0.000	0.000	0.000	0.000	1377.73	
8	0.7178	1142.9	1163.1	1160.0	0.907	5.043	71.760	17.719	4.176	0.125	0.245	0.012	0.012	0.000	0.000	0.000	0.000	0.000	1369.53	
9	0.7289	1156.2	1176.7	1173.6	0.869	5.339	69.841	18.973	4.546	0.135	0.269	0.014	0.014	0.000	0.000	0.000	0.000	0.000	1374.86	
10	0.7448	1167.9	1188.6	1185.4	0.910	6.051	67.405	19.871	5.251	0.164	0.316	0.016	0.016	0.000	0.000	0.000	0.000	0.000	1373.87	
11	0.7482	1170.4	1191.1	1187.8	0.906	6.223	66.809	20.167	5.387	0.162	0.315	0.016	0.015	0.000	0.000	0.000	0.000	0.000	1373.67	
12	0.7500	1173.0	1193.8	1190.5	0.907	6.229	66.562	20.300	5.485	0.159	0.324	0.017	0.016	0.000	0.000	0.000	0.000	0.000	1375.11	
13	0.7493	1171.8	1192.5	1189.3	0.907	6.238	66.639	20.267	5.434	0.159	0.323	0.017	0.017	0.000	0.000	0.000	0.000	0.000	1374.36	
14	0.7493	1171.2	1192.0	1188.7	0.906	6.277	66.612	20.280	5.401	0.157	0.331	0.018	0.017	0.000	0.000	0.000	0.000	0.000	1373.66	
15	0.7496	1170.8	1191.6	1188.2	0.907	6.324	66.536	20.337	5.369	0.156	0.335	0.018	0.017	0.000	0.000	0.000	0.000	0.000	1372.96	
16	0.7454	1168.3	1189.0	1185.9	0.885	6.125	67.165	20.124	5.198	0.151	0.319	0.017	0.017	0.000	0.000	0.000	0.000	0.000	1373.76	
17	0.7426	1164.8	1185.5	1182.4	0.907	6.035	67.693	19.737	5.135	0.147	0.312	0.017	0.016	0.000	0.000	0.000	0.000	0.000	1372.33	
18	0.7461	1167.2	1187.8	1184.4	0.906	6.224	67.194	19.819	5.341	0.160	0.322	0.017	0.016	0.000	0.000	0.000	0.000	0.000	1371.83	
19	0.7479	1169.5	1190.3	1187.2	0.908	6.244	66.937	19.954	5.425	0.166	0.331	0.017	0.017	0.000	0.000	0.000	0.000	0.000	1372.99	
20	0.7467	1169.7	1190.4	1187.3	0.913	6.116	67.189	19.858	5.384	0.169	0.336	0.018	0.018	0.000	0.000	0.000	0.000	0.000	1374.25	
21	0.7523	1177.6	1198.5	1195.3	0.914	6.156	66.445	20.207	5.684	0.181	0.372	0.020	0.020	0.000	0.000	0.000	0.000	0.000	1378.42	
22	0.7512	1176.1	1196.9	1193.7	0.916	6.143	66.581	20.163	5.614	0.176	0.367	0.020	0.020	0.000	0.000	0.000	0.000	0.000	1377.66	
23	0.7519	1177.9	1198.8	1195.7	0.916	6.091	66.527	20.208	5.663	0.178	0.374	0.021	0.021	0.000	0.000	0.000	0.000	0.000	1379.21	
24	0.7484	1172.5	1193.2	1190.0	0.920	6.093	66.950	20.024	5.463	0.166	0.347	0.019	0.018	0.000	0.000	0.000	0.000	0.000	1376.00	
25	0.7480	1171.9	1192.6	1189.6	0.920	6.094	66.983	20.023	5.440	0.161	0.342	0.018	0.018	0.000	0.000	0.000	0.000	0.000	1375.65	
26	0.7478	1172.0	1192.8	1189.4	0.920	6.063	67.040	19.981	5.465	0.157	0.338	0.018	0.018	0.000	0.000	0.000	0.000	0.000	1376.05	
27	0.7482	1171.8	1192.6	1189.5	0.920	6.116	66.952	20.014	5.461	0.161	0.340	0.018	0.018	0.000	0.000	0.000	0.000	0.000	1375.42	
28	0.7474	1171.5	1192.2	1189.1	0.917	6.067	67.118	19.914	5.441	0.162	0.345	0.018	0.018	0.000	0.000	0.000	0.000	0.000	1375.72	
29	0.7459	1169.0	1189.7	1186.6	0.913	6.075	67.283	19.881	5.328	0.156	0.330	0.018	0.018	0.000	0.000	0.000	0.000	0.000	1374.26	
30	0.7469	1169.8	1190.5	1187.4	0.910	6.127	67.102	19.966	5.380	0.153	0.327	0.018	0.017	0.000	0.000	0.000	0.000	0.000	1374.23	
31	0.7427	1163.6	1184.3	1181.2	0.910	6.107	67.798	19.426	5.267	0.147	0.313	0.016	0.016	0.000	0.000	0.000	0.000	0.000	1370.91	
Avg	0.7442	1168.0	1188.6	1185.5	0.909	5.993	67.549	19.764	5.272	0.158	0.323	0.017	0.016	0.000	0.000	0.000	0.000	0.000	1374.53	

Zone 273

Source Daily Summary

May 2020

Number: 041

Pressure Base: 14.730

Contract Day: 1

Name: BISMARCK STN-GLEN ULLIN STN

Temperature Base:

Contract Hour: 9

Day	Relative Density	Heating Value Wet	Heating Value Dry	Heating Value As Del	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.6503	1084.8	1104.0	1103.8	0.945	2.214	81.399	14.672	0.733	0.012	0.019	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1367.26
2	0.6369	1068.9	1087.9	1087.4	0.919	1.961	84.096	12.345	0.644	0.012	0.019	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1361.19
3	0.6362	1068.6	1087.5	1087.3	0.906	1.934	84.210	12.275	0.638	0.012	0.020	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1361.62
4	0.6373	1070.3	1089.3	1089.5	0.905	1.935	83.930	12.547	0.645	0.012	0.019	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1362.88
5	0.6356	1068.2	1087.1	1086.6	0.938	1.854	84.379	12.181	0.610	0.012	0.019	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1361.59
6	0.6328	1065.3	1084.2	1083.4	0.936	1.761	84.980	11.709	0.582	0.011	0.017	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1360.88
7	0.6298	1062.4	1081.2	1080.4	0.910	1.704	85.526	11.292	0.537	0.010	0.016	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1360.23
8	0.6432	1083.3	1102.4	1101.1	0.723	1.975	82.711	13.937	0.619	0.011	0.018	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1372.18
9	0.6352	1068.1	1087.1	1086.0	0.884	1.896	84.632	11.810	0.726	0.017	0.028	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.000	1361.72
10	0.6875	1115.9	1135.7	1132.8	0.895	3.870	76.368	15.809	2.806	0.080	0.156	0.008	0.008	0.000	0.000	0.000	0.000	0.000	0.000	1366.92
11	0.7415	1165.4	1186.0	1182.7	0.900	5.912	67.879	19.702	5.122	0.149	0.306	0.016	0.015	0.000	0.000	0.000	0.000	0.000	0.000	1374.14
12	0.7488	1171.3	1192.1	1188.7	0.898	6.236	66.728	20.180	5.434	0.161	0.330	0.017	0.016	0.000	0.000	0.000	0.000	0.000	0.000	1374.32
13	0.7490	1171.2	1192.0	1188.6	0.899	6.256	66.639	20.307	5.371	0.155	0.337	0.018	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1374.03
14	0.7494	1171.6	1192.4	1189.0	0.899	6.267	66.598	20.317	5.379	0.159	0.346	0.018	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1374.17
15	0.7186	1143.9	1164.2	1161.5	0.890	5.088	71.399	18.107	4.120	0.118	0.250	0.013	0.013	0.000	0.000	0.000	0.000	0.000	0.000	1371.00
16	0.6346	1067.1	1086.0	1085.1	0.863	1.937	84.583	11.933	0.648	0.012	0.019	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1361.16
17	0.6753	1104.0	1123.5	1120.4	0.878	3.469	78.336	14.822	2.293	0.064	0.125	0.006	0.006	0.000	0.000	0.000	0.000	0.000	0.000	1364.43
18	0.6595	1089.2	1108.5	1106.1	0.872	2.900	80.840	13.534	1.708	0.046	0.090	0.004	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1362.48
19	0.6931	1121.4	1141.3	1138.5	0.879	4.083	75.539	16.082	3.115	0.095	0.187	0.009	0.009	0.000	0.000	0.000	0.000	0.000	0.000	1368.51
20	0.7403	1166.6	1187.3	1183.6	0.900	5.722	68.303	19.376	5.166	0.161	0.337	0.018	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1376.67
21	0.7506	1175.9	1196.7	1192.9	0.908	6.112	66.691	20.103	5.602	0.176	0.370	0.020	0.019	0.000	0.000	0.000	0.000	0.000	0.000	1377.95
22	0.7515	1178.3	1199.1	1195.4	0.907	6.044	66.620	20.172	5.657	0.179	0.380	0.021	0.021	0.000	0.000	0.000	0.000	0.000	0.000	1380.00
23	0.7482	1173.0	1193.8	1190.2	0.912	6.053	66.988	20.027	5.465	0.166	0.352	0.018	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1376.85
24	0.7453	1170.5	1191.3	1187.8	0.911	5.933	67.426	19.872	5.324	0.159	0.341	0.018	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1376.66
25	0.6648	1096.3	1115.8	1113.1	0.877	2.954	80.205	13.770	1.998	0.062	0.118	0.008	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1365.59
26	0.6721	1102.4	1121.9	1118.6	0.903	3.229	79.078	14.299	2.279	0.065	0.132	0.007	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1365.51
27	0.6682	1099.2	1118.6	1115.3	0.900	3.058	79.688	14.065	2.100	0.058	0.118	0.006	0.006	0.000	0.000	0.000	0.000	0.000	0.000	1365.75
28	0.6324	1065.8	1084.7	1081.8	0.871	1.786	85.360	11.296	0.650	0.014	0.021	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1360.87
29	0.6338	1067.9	1086.8	1083.7	0.862	1.798	85.149	11.463	0.688	0.015	0.023	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1361.96
30	0.6353	1069.9	1088.8	1085.6	0.869	1.803	84.929	11.617	0.731	0.019	0.028	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.000	1362.87
31	0.6381	1073.1	1092.1	1088.7	0.890	1.845	84.495	11.886	0.808	0.029	0.039	0.004	0.003	0.000	0.000	0.000	0.000	0.000	0.000	1363.85
Avg	0.6799	1110.0	1129.3	1127.0	0.892	3.535	77.603	15.210	2.522	0.073	0.148	0.008	0.008	0.000	0.000	0.000	0.000	0.000	0.000	1367.59

Source Daily Summary

May 2020

Number: 271

Pressure Base: 14.730

Contract Day: 1

Name: DCKSN BRD-BLFD TSF-G.U. STN

Temperature Base:

Contract Hour: 9

Day	Relative Density	Heating Value Wet	Heating Value Dry	Heating Value As Del	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.6450	1079.2	1098.3	1095.4	0.915	2.088	82.808	13.492	0.667	0.012	0.019	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1364.39	
2	0.6377	1071.7	1090.7	1087.8	0.904	1.865	84.308	12.259	0.632	0.013	0.019	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1362.73	
3	0.6380	1071.7	1090.6	1087.7	0.900	1.902	84.256	12.265	0.644	0.014	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1362.34	
4	0.6391	1073.7	1092.7	1089.8	0.903	1.882	84.018	12.528	0.635	0.013	0.019	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1363.66	
5	0.6451	1084.6	1103.8	1100.9	0.763	1.999	82.630	13.934	0.644	0.012	0.018	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1371.04	
6	0.6513	1094.4	1113.7	1110.8	0.668	2.125	81.308	15.180	0.687	0.012	0.019	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1376.89	
7	0.6579	1100.8	1120.3	1118.6	0.620	2.302	80.190	15.989	0.846	0.019	0.031	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1380.09	
8	0.6359	1053.7	1072.3	1069.6	0.255	3.790	83.903	11.215	0.799	0.017	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1341.50	
9	0.6502	1082.4	1101.6	1098.8	0.394	3.167	81.379	14.080	0.927	0.021	0.030	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1362.95	
10	0.6390	1075.5	1094.5	1091.8	0.861	1.827	84.066	12.525	0.676	0.018	0.026	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1366.07	
11	0.6425	1078.9	1098.0	1095.2	0.864	1.935	83.526	12.802	0.806	0.027	0.039	0.002	0.000	0.000	0.000	0.000	0.000	0.000	1366.80	
12	0.6585	1107.1	1126.7	1123.8	0.537	2.227	79.858	16.508	0.817	0.022	0.030	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1385.27	
13	0.6421	1079.5	1098.6	1095.8	0.814	1.940	83.404	13.090	0.710	0.017	0.024	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1367.92	
14	0.6331	1067.0	1085.9	1083.0	0.852	1.800	85.205	11.478	0.632	0.013	0.019	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1361.61	
15	0.6350	1068.8	1087.7	1084.9	0.855	1.870	84.795	11.815	0.635	0.012	0.018	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1361.84	
16	0.6361	1070.6	1089.5	1086.6	0.809	1.931	84.535	12.055	0.640	0.012	0.018	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1362.95	
17	0.6336	1067.9	1086.8	1083.8	0.811	1.859	85.028	11.659	0.612	0.014	0.018	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1362.18	
18	0.6369	1071.1	1090.0	1085.9	0.810	1.893	84.686	11.953	0.625	0.015	0.018	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1363.02	
19	0.6347	1068.9	1087.9	1084.8	0.824	1.880	84.858	11.748	0.656	0.014	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1362.34	
20	0.6307	1064.7	1083.6	1080.4	0.821	1.760	85.709	11.015	0.655	0.016	0.023	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1361.28	
21	0.6328	1067.5	1086.4	1083.3	0.816	1.792	85.458	11.096	0.763	0.024	0.047	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1362.64	
22	0.6348	1070.5	1089.4	1086.3	0.829	1.784	85.088	11.402	0.842	0.022	0.033	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1364.20	
23	0.6349	1070.0	1088.9	1085.9	0.839	1.807	84.972	11.583	0.755	0.018	0.026	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1363.48	
24	0.6377	1072.6	1091.6	1088.7	0.848	1.893	84.404	12.055	0.751	0.019	0.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1363.89	
25	0.6346	1070.4	1089.4	1086.5	0.818	1.783	85.075	11.487	0.767	0.028	0.038	0.003	0.001	0.000	0.000	0.000	0.000	0.000	1364.39	
26	0.6337	1068.1	1087.0	1084.0	0.860	1.777	85.164	11.475	0.688	0.015	0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1362.36	
27	0.6335	1068.1	1087.0	1084.0	0.836	1.793	85.191	11.440	0.699	0.017	0.024	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1362.63	
28	0.6341	1069.6	1088.5	1085.6	0.837	1.755	85.062	11.621	0.687	0.016	0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1363.90	
29	0.6338	1069.6	1088.5	1085.5	0.829	1.738	85.097	11.632	0.670	0.014	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1364.24	
30	0.6323	1067.4	1086.3	1083.2	0.827	1.737	85.404	11.328	0.666	0.016	0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1362.98	
31	0.6350	1070.5	1089.4	1086.3	0.848	1.776	84.931	11.676	0.719	0.021	0.028	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1363.99	
Avg	0.6387	1074.0	1093.1	1090.2	0.786	1.990	84.075	12.400	0.708	0.017	0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1364.70	

Zone 31

Source Daily Summary

May 2020

Number: 051

Pressure Base: 14.730

Contract Day: 1

Name: CABIN CRK STN-BELFIELD TRSFR

Temperature Base:

Contract Hour: 9

Day	Relative Density	Heating Value Wet	Heating Value Dry	Heating Value As Del	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.6677	1107.9	1127.6	1124.3	1.022	2.302	78.890	16.544	1.130	0.037	0.065	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.000	1376.71
2	0.6527	1090.2	1109.5	1106.3	0.974	2.044	81.800	14.079	0.998	0.035	0.060	0.004	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1370.14
3	0.6531	1091.1	1110.4	1107.1	0.972	2.038	81.693	14.202	0.995	0.034	0.058	0.004	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1370.75
4	0.6538	1092.4	1111.7	1108.6	0.980	2.011	81.550	14.374	0.987	0.033	0.057	0.004	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1371.69
5	0.6534	1091.8	1111.1	1108.3	1.000	1.977	81.697	14.216	1.002	0.036	0.062	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.000	1371.36
6	0.6499	1088.1	1107.4	1104.3	0.995	1.874	82.385	13.685	0.959	0.034	0.059	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.000	1370.48
7	0.6506	1089.3	1108.6	1105.2	0.990	1.880	82.359	13.596	1.050	0.041	0.072	0.006	0.006	0.000	0.000	0.000	0.000	0.000	0.000	1371.16
8	0.6470	1085.5	1104.7	1101.8	0.964	1.804	82.971	13.198	0.952	0.037	0.063	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.000	1370.27
9	0.6480	1086.3	1105.5	1102.5	0.947	1.881	82.730	13.374	0.965	0.035	0.059	0.005	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1370.15
10	0.6507	1089.6	1108.9	1105.8	0.956	1.926	82.184	13.855	0.972	0.037	0.061	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.000	1371.41
11	0.6557	1095.5	1114.9	1111.8	0.963	2.016	81.377	14.388	1.122	0.046	0.075	0.006	0.006	0.000	0.000	0.000	0.000	0.000	0.000	1373.66
12	0.6538	1092.9	1112.3	1109.5	0.958	2.003	81.686	14.166	1.062	0.043	0.070	0.006	0.006	0.000	0.000	0.000	0.000	0.000	0.000	1372.41
13	0.6536	1092.5	1111.8	1108.6	0.966	2.003	81.662	14.224	1.034	0.038	0.063	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.000	1372.05
14	0.6502	1088.5	1107.8	1104.6	0.958	1.939	82.309	13.681	1.008	0.035	0.060	0.004	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1370.61
15	0.6494	1087.5	1106.7	1103.6	0.924	1.977	82.414	13.598	0.989	0.033	0.057	0.004	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1370.16
16	0.6506	1088.6	1107.9	1104.7	0.915	2.033	82.117	13.877	0.964	0.032	0.054	0.004	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1370.37
17	0.6482	1086.0	1105.3	1102.1	0.912	1.974	82.580	13.496	0.944	0.031	0.054	0.004	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1369.58
18	0.6473	1084.8	1104.0	1100.9	0.908	1.966	82.729	13.406	0.903	0.030	0.051	0.004	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1369.02
19	0.6505	1088.0	1107.2	1104.1	0.892	2.096	82.162	13.745	1.010	0.032	0.056	0.004	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1369.66
20	0.6467	1084.2	1103.4	1100.3	0.895	1.971	82.959	13.062	1.011	0.034	0.059	0.004	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1368.82
21	0.6475	1085.7	1104.9	1101.8	0.888	1.962	82.923	13.001	1.110	0.039	0.067	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.000	1369.92
22	0.6494	1088.0	1107.2	1104.1	0.894	1.995	82.498	13.413	1.091	0.038	0.062	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.000	1370.74
23	0.6515	1091.1	1110.5	1107.3	0.940	1.928	82.140	13.790	1.086	0.039	0.067	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.000	1372.53
24	0.6512	1090.4	1109.7	1106.5	0.930	1.961	82.186	13.729	1.074	0.041	0.068	0.006	0.005	0.000	0.000	0.000	0.000	0.000	0.000	1371.88
25	0.6489	1087.8	1107.1	1103.9	0.942	1.887	82.672	13.308	1.068	0.043	0.068	0.006	0.005	0.000	0.000	0.000	0.000	0.000	0.000	1371.02
26	0.6479	1085.7	1104.9	1101.7	0.956	1.893	82.806	13.226	1.017	0.035	0.060	0.004	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1369.52
27	0.6489	1088.0	1107.3	1104.2	0.953	1.856	82.644	13.382	1.056	0.037	0.063	0.005	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1371.32
28	0.6479	1086.5	1105.8	1102.6	0.949	1.851	82.874	13.150	1.067	0.037	0.063	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.000	1370.58
29	0.6484	1088.1	1107.3	1104.2	0.913	1.865	82.693	13.375	1.051	0.035	0.059	0.005	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1371.94
30	0.6497	1089.8	1109.1	1105.9	0.906	1.894	82.465	13.545	1.077	0.039	0.063	0.006	0.005	0.000	0.000	0.000	0.000	0.000	0.000	1372.70
31	0.6497	1088.9	1108.2	1104.9	0.925	1.915	82.471	13.518	1.059	0.039	0.062	0.006	0.005	0.000	0.000	0.000	0.000	0.000	0.000	1371.62
Avg	0.6508	1089.0	1108.7	1105.5	0.945	1.959	82.214	13.749	1.026	0.037	0.062	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.000	1371.10

Zone 32

Source Daily Summary

May 2020

Number: 111

Pressure Base: 14.730

Contract Day: 1

Name: LITTLE KNIFE PLANT

Temperature Base:

Contract Hour: 9

Day	Relative Density	Heating Value Wet	Heating Value Dry	Heating Value As Del	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.6880	1157.0	1177.5	1173.6	0.000	2.789	73.172	23.172	0.842	0.009	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1416.26	-24.39
2	0.6870	1156.1	1176.5	1172.4	0.000	2.749	73.384	23.004	0.838	0.009	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1416.18	-24.83
3	0.6873	1156.8	1177.3	1173.4	0.001	2.736	73.289	23.138	0.811	0.009	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1416.70	-24.72
4	0.6868	1155.3	1175.7	1171.9	0.000	2.774	73.404	22.985	0.813	0.009	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1415.47	-25.10
5	0.6873	1156.7	1177.2	1173.1	0.000	2.736	73.304	23.133	0.797	0.010	0.017	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1416.66	-24.69
6	0.6870	1155.8	1176.2	1172.1	0.009	2.771	73.349	23.039	0.807	0.009	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1415.51	-24.95
7	0.6886	1158.6	1179.1	1175.2	0.000	2.744	73.125	23.217	0.889	0.010	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1417.60	-23.86
8	0.6873	1157.1	1177.6	1173.7	0.000	2.713	73.337	23.086	0.840	0.009	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1417.14	-24.61
9	0.6868	1156.2	1176.7	1172.9	0.000	2.720	73.412	23.029	0.816	0.009	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1416.56	-24.97
10	0.6865	1155.8	1176.3	1172.3	0.000	2.720	73.468	22.968	0.821	0.009	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1416.34	-25.09
11	0.6869	1156.1	1176.6	1172.7	0.000	2.734	73.384	23.049	0.810	0.009	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1416.37	-24.98
12	0.6871	1156.3	1176.8	1173.1	0.000	2.739	73.344	23.085	0.808	0.009	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1416.42	-24.92
13	0.6893	1157.9	1178.4	1174.3	0.000	2.850	72.948	23.296	0.882	0.009	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1416.10	-23.79
14	0.6900	1157.5	1178.0	1174.0	0.000	2.939	72.839	23.275	0.924	0.009	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1414.90	-23.48
15	0.6898	1158.1	1178.6	1174.5	0.000	2.891	72.858	23.322	0.905	0.009	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1415.74	-23.51
16	0.6904	1159.0	1179.5	1175.2	0.000	2.885	72.783	23.370	0.937	0.010	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1416.31	-23.10
17	0.6907	1159.0	1179.5	1175.5	0.000	2.919	72.718	23.393	0.946	0.010	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1415.92	-22.98
18	0.6900	1158.3	1178.8	1175.0	0.000	2.898	72.818	23.353	0.907	0.009	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1415.77	-23.40
19	0.6892	1157.6	1178.1	1174.1	0.000	2.864	72.989	23.218	0.906	0.009	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1415.74	-23.76
20	0.6896	1158.5	1179.0	1175.1	0.000	2.849	72.873	23.377	0.878	0.009	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1416.43	-23.60
21	0.6905	1159.7	1180.3	1176.0	0.000	2.855	72.757	23.426	0.938	0.009	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1417.05	-22.97
22	0.6903	1158.0	1178.5	1174.2	0.000	2.947	72.752	23.360	0.917	0.009	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1415.06	-23.33
23	0.6886	1154.7	1175.2	1171.2	0.000	2.981	72.998	23.183	0.815	0.009	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1412.91	-24.64
24	0.6894	1156.7	1177.2	1167.6	0.000	2.920	73.606	22.694	0.756	0.009	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1411.36	-26.33
25	0.6903	1158.7	1179.2	1166.9	0.000	2.920	73.606	22.694	0.756	0.009	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1411.36	-26.33
26	0.6911	1160.7	1181.3	1167.0	0.000	2.920	73.606	22.694	0.756	0.009	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1411.36	-26.33
27	0.6919	1162.7	1183.3	1179.0	0.000	2.806	72.462	23.785	0.924	0.009	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1419.24	-22.25
28	0.6913	1161.9	1182.4	1178.2	0.000	2.804	72.553	23.716	0.903	0.009	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1418.81	-22.56
29	0.6925	1162.6	1183.2	1178.8	0.000	2.869	72.306	23.903	0.899	0.009	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1418.50	-22.16
30	0.6926	1162.0	1182.6	1178.5	0.000	2.912	72.254	23.935	0.876	0.009	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1417.73	-22.28
31	0.6927	1162.9	1183.5	1179.2	0.000	2.872	72.276	23.915	0.915	0.009	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1418.63	-22.01
Avg	0.6892	1158.0	1178.7	1173.9	0.000	2.833	73.031	23.252	0.859	0.009	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1416.00	-24.06

Source Daily Summary

May 2020

Number: 351

Pressure Base: 14.730

Contract Day: 1

Name: BADLANDS PLANT

Temperature Base:

Contract Hour: 9

Day	Relative Density	Heating Value Wet	Heating Value Dry	Heating Value As Del	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.6255	1044.4	1062.9	1059.8	0.615	2.827	86.497	9.317	0.673	0.027	0.038	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1340.73	
2	0.6284	1048.7	1067.3	1064.2	0.651	2.775	85.973	9.837	0.693	0.026	0.038	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1343.28	
3	0.6282	1047.8	1066.4	1063.2	0.656	2.808	85.959	9.855	0.660	0.023	0.034	0.003	0.002	0.000	0.000	0.000	0.000	0.000	1342.28	
4	0.6189	1032.4	1050.7	1047.7	0.566	3.006	87.632	8.184	0.555	0.022	0.031	0.003	0.002	0.000	0.000	0.000	0.000	0.000	1332.50	
5	0.6074	1015.9	1033.9	1030.9	0.425	3.145	89.669	6.296	0.418	0.019	0.024	0.002	0.002	0.000	0.000	0.000	0.000	0.000	1323.40	
6	0.5780	972.6	989.8	986.9	0.170	3.402	95.004	1.324	0.085	0.010	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1298.98	
7	0.5736	965.4	982.5	979.8	0.126	3.497	95.776	0.559	0.032	0.009	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1294.27	
8	0.5771	970.9	988.1	985.3	0.164	3.438	95.150	1.159	0.075	0.010	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1297.59	
9	0.6160	1028.7	1046.9	1043.9	0.577	2.948	88.234	7.637	0.542	0.023	0.033	0.003	0.002	0.000	0.000	0.000	0.000	0.000	1330.61	
10	0.6126	1025.5	1043.7	1040.8	0.559	2.841	88.904	7.127	0.509	0.023	0.032	0.003	0.002	0.000	0.000	0.000	0.000	0.000	1330.39	
11	0.6053	1014.4	1032.3	1029.5	0.477	2.959	90.244	5.805	0.454	0.023	0.031	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1323.79	
12	0.6051	1015.2	1033.2	1030.4	0.483	2.881	90.253	5.910	0.418	0.021	0.028	0.003	0.002	0.000	0.000	0.000	0.000	0.000	1325.13	
13	0.6187	1036.3	1054.7	1051.6	0.613	2.677	87.817	8.247	0.580	0.025	0.036	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1337.73	
14	0.6266	1047.7	1066.3	1063.1	0.660	2.654	86.435	9.444	0.720	0.032	0.047	0.004	0.004	0.000	0.000	0.000	0.000	0.000	1343.89	
15	0.6243	1044.4	1062.9	1059.7	0.642	2.667	86.841	9.085	0.682	0.031	0.045	0.004	0.004	0.000	0.000	0.000	0.000	0.000	1342.09	
16	0.6226	1041.4	1059.9	1056.7	0.635	2.706	87.100	8.842	0.644	0.027	0.040	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1340.02	
17	0.6206	1039.4	1057.8	1054.6	0.623	2.653	87.491	8.539	0.627	0.025	0.037	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1339.64	
18	0.6232	1043.3	1061.8	1058.5	0.636	2.638	86.988	9.030	0.641	0.024	0.037	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1341.90	
19	0.6253	1046.5	1065.0	1061.7	0.644	2.631	86.575	9.429	0.656	0.024	0.037	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1343.73	
20	0.6229	1043.8	1062.3	1059.0	0.638	2.581	87.032	9.052	0.632	0.024	0.036	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1342.83	
21	0.6197	1038.4	1056.8	1053.6	0.606	2.661	87.567	8.537	0.570	0.022	0.032	0.002	0.002	0.000	0.000	0.000	0.000	0.000	1339.26	
22	0.6196	1037.2	1055.6	1052.3	0.591	2.744	87.583	8.436	0.586	0.023	0.033	0.003	0.002	0.000	0.000	0.000	0.000	0.000	1337.91	
23	0.6181	1035.4	1053.8	1050.6	0.590	2.708	87.936	8.094	0.607	0.024	0.035	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1337.26	
24	0.6171	1034.9	1053.2	1050.1	0.589	2.654	88.154	7.920	0.615	0.025	0.038	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1337.56	
25	0.6173	1034.4	1052.7	1049.5	0.580	2.709	88.135	7.867	0.641	0.026	0.037	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1336.80	
26	0.6180	1035.4	1053.7	1050.5	0.587	2.711	87.981	8.022	0.627	0.027	0.038	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1337.21	
27	0.6203	1038.2	1056.5	1053.3	0.594	2.742	87.553	8.379	0.657	0.027	0.040	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1338.41	
28	0.6136	1028.7	1046.9	1043.8	0.547	2.758	88.803	7.241	0.577	0.029	0.039	0.004	0.003	0.000	0.000	0.000	0.000	0.000	1333.45	
29	0.6169	1033.5	1051.8	1048.6	0.589	2.717	88.193	7.817	0.613	0.027	0.038	0.004	0.003	0.000	0.000	0.000	0.000	0.000	1336.02	
30	0.6155	1031.3	1049.5	1046.3	0.582	2.730	88.428	7.612	0.584	0.024	0.035	0.003	0.002	0.000	0.000	0.000	0.000	0.000	1334.68	
31	0.6147	1030.0	1048.2	1044.9	0.572	2.746	88.579	7.459	0.581	0.024	0.034	0.003	0.002	0.000	0.000	0.000	0.000	0.000	1333.93	
Avg	0.6145	1029.0	1047.3	1044.2	0.548	2.826	88.532	7.486	0.547	0.023	0.033	0.003	0.002	0.000	0.000	0.000	0.000	0.000	1332.82	

Source Daily Summary

May 2020

Number: 471

Pressure Base: 14.730

Contract Day:

Name: SPRING CREEK I - SAX VALVE I

Temperature Base:

Contract Hour: 9

Day	Relative Density	Heating Value Wet	Heating Value Dry	Heating Value As Del	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.6853	1130.8	1150.8	1147.9	1.067	2.510	74.138	22.084	0.199	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1386.97	-30.91
2	0.6843	1129.4	1149.4	1146.5	1.075	2.492	74.355	21.866	0.210	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1386.23	-31.38
3	0.6840	1129.5	1149.5	1146.7	1.064	2.474	74.404	21.849	0.207	0.001	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1386.70	-31.45
4	0.6859	1131.7	1151.8	1148.9	1.070	2.506	74.054	22.125	0.242	0.001	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1387.51	-30.40
5	0.6868	1132.6	1152.7	1149.8	1.071	2.534	73.911	22.194	0.288	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1387.71	-29.83
6	0.6860	1131.1	1151.1	1148.2	1.068	2.559	74.082	21.991	0.299	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1386.59	-30.28
7	0.6856	1130.4	1150.4	1147.5	1.076	2.547	74.121	22.013	0.242	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1386.21	-30.73
8	0.6858	1130.8	1150.8	1148.0	1.069	2.552	74.063	22.079	0.234	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1386.52	-30.61
9	0.6858	1131.2	1151.2	1148.3	1.067	2.537	74.058	22.097	0.239	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1386.91	-30.53
10	0.6855	1130.6	1150.6	1147.8	1.069	2.540	74.105	22.062	0.222	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1386.53	-30.76
11	0.6866	1131.4	1151.4	1148.5	1.075	2.580	73.902	22.210	0.229	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1386.43	-30.30
12	0.6863	1131.5	1151.5	1148.6	1.067	2.568	74.021	22.034	0.308	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1386.75	-30.08
13	0.6869	1132.3	1152.4	1149.5	1.073	2.553	73.898	22.192	0.282	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1387.32	-29.88
14	0.6872	1132.6	1152.6	1149.8	1.065	2.585	73.950	21.971	0.424	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1387.22	-29.20
15	0.6854	1130.8	1150.8	1148.0	1.060	2.528	74.226	21.862	0.321	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1386.91	-30.42
16	0.6870	1132.1	1152.2	1149.3	1.073	2.584	73.922	22.072	0.347	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1386.85	-29.62
17	0.6866	1131.0	1151.0	1148.2	1.076	2.602	73.941	22.111	0.268	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1385.97	-30.22
18	0.6858	1130.4	1150.4	1147.6	1.070	2.572	74.087	22.015	0.254	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1386.04	-30.61
19	0.6884	1134.3	1154.4	1151.5	1.079	2.576	73.574	22.488	0.281	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1388.08	-29.10
20	0.6859	1131.0	1151.1	1148.2	1.070	2.549	74.074	22.032	0.269	0.002	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1386.64	-30.39
21	0.6857	1131.9	1152.0	1149.1	1.065	2.485	74.262	21.774	0.410	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1387.91	-29.82
22	0.6847	1129.9	1149.9	1147.0	1.063	2.508	74.331	21.828	0.267	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1386.56	-30.98
23	0.6849	1130.3	1150.4	1147.5	1.055	2.513	74.326	21.789	0.313	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1386.88	-30.69
24	0.6848	1129.9	1149.9	1147.1	1.057	2.528	74.321	21.799	0.292	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1386.44	-30.85
25	0.6852	1130.5	1150.6	1147.7	1.058	2.529	74.293	21.770	0.348	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1386.78	-30.42
26	0.6844	1129.2	1149.2	1146.4	1.057	2.533	74.393	21.730	0.284	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1386.00	-31.11
27	0.6854	1130.7	1150.8	1147.9	1.064	2.529	74.227	21.855	0.322	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1386.80	-30.42
28	0.6849	1129.4	1149.4	1146.5	1.071	2.552	74.325	21.740	0.309	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1385.65	-30.83
29	0.6844	1129.2	1149.2	1146.3	1.066	2.521	74.397	21.736	0.277	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1385.95	-31.14
30	0.6851	1129.6	1149.6	1146.7	1.074	2.553	74.272	21.801	0.297	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1385.72	-30.77
31	0.6848	1129.1	1149.1	1146.3	1.073	2.556	74.302	21.792	0.274	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1385.43	-31.01
Avg	0.6857	1131.0	1150.8	1148.0	1.068	2.540	74.140	21.966	0.283	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1386.65	-30.48

Zone 43

May-20

ZONE 550

MANDAN BORDER

		NBPL - St Anthony			WBI - Mandan Border			Weighted	
Start Date	End Date	MCF	DK	BTU	MCF	DK	BTU Zone 28	AVG BTU	
5/1/2020	5/2/2020				1298	1434	1.1040	1.104	5/1/2020
5/2/2020	5/3/2020				1295	1409	1.0879	1.088	5/2/2020
5/3/2020	5/4/2020				1624	1766	1.0875	1.088	5/3/2020
5/4/2020	5/5/2020				2427	2644	1.0893	1.089	5/4/2020
5/5/2020	5/6/2020				2257	2454	1.0871	1.087	5/5/2020
5/6/2020	5/7/2020				1432	1552	1.0842	1.084	5/6/2020
5/7/2020	5/8/2020				2410	2607	1.0812	1.081	5/7/2020
5/8/2020	5/9/2020				1780	1957	1.1024	1.102	5/8/2020
5/9/2020	5/10/2020				3446	3746	1.0871	1.087	5/9/2020
5/10/2020	5/11/2020				2982	3388	1.1357	1.136	5/10/2020
5/11/2020	5/12/2020				2433	2882	1.1860	1.186	5/11/2020
5/12/2020	5/13/2020				2492	2970	1.1921	1.192	5/12/2020
5/13/2020	5/14/2020				2216	2642	1.1920	1.192	5/13/2020
5/14/2020	5/15/2020				1758	2097	1.1924	1.192	5/14/2020
5/15/2020	5/16/2020				1355	1569	1.1642	1.164	5/15/2020
5/16/2020	5/17/2020				1469	1595	1.0860	1.086	5/16/2020
5/17/2020	5/18/2020				1157	1297	1.1235	1.124	5/17/2020
5/18/2020	5/19/2020				1109	1231	1.1085	1.109	5/18/2020
5/19/2020	5/20/2020				1045	1192	1.1413	1.141	5/19/2020
5/20/2020	5/21/2020				1060	1258	1.1873	1.187	5/20/2020
5/21/2020	5/22/2020				990	1185	1.1967	1.197	5/21/2020
5/22/2020	5/23/2020				931	1118	1.1991	1.199	5/22/2020
5/23/2020	5/24/2020				869	1038	1.1938	1.194	5/23/2020
5/24/2020	5/25/2020				1128	1343	1.1913	1.191	5/24/2020
5/25/2020	5/26/2020				1172	1306	1.1158	1.116	5/25/2020
5/26/2020	5/27/2020				1116	1255	1.1219	1.122	5/26/2020
5/27/2020	5/28/2020				1104	1236	1.1186	1.119	5/27/2020
5/28/2020	5/29/2020				1207	1309	1.0847	1.085	5/28/2020
5/29/2020	5/30/2020				1223	1329	1.0868	1.087	5/29/2020
5/30/2020	5/31/2020				1013	1103	1.0888	1.089	5/30/2020
5/31/2020	6/1/2020				1058	1155	1.0921	1.092	5/31/2020
		0	0	#DIV/0!	48,856	55,067	1.1293	1.1293	



Alliance Pipeline

DAILY ANALYSIS --- USA
 ND07MD1 --- Hankinson Sales
 May 2020

DAY	Heating Value (BTU/ft3)	Relative Density	C1 Mol%	C2 Mol%	C3 Mol%	IC4 Mol%	NC4 Mol%	IC5 Mol%	NC5 Mol%	C6+ Mol%	N2 Mol%	CO2 Mol%	Hel Mol%
1	1,150.906	0.6590	84.8235	9.0554	3.6180	0.3628	0.6429	0.0486	0.0353	0.0160	0.9768	0.4116	0.0091
2	1,150.673	0.6579	84.9573	9.0644	3.5777	0.3618	0.6184	0.0483	0.0366	0.0174	0.9106	0.3985	0.0090
3	1,150.119	0.6567	85.1083	9.0752	3.5212	0.3536	0.6019	0.0483	0.0369	0.0165	0.8366	0.3924	0.0092
4	1,154.020	0.6589	84.8694	9.1954	3.6006	0.3704	0.6319	0.0552	0.0420	0.0193	0.8126	0.3942	0.0090
5	1,159.616	0.6624	84.5739	9.2703	3.6955	0.4071	0.7007	0.0706	0.0551	0.0238	0.7898	0.4043	0.0089
6	1,159.362	0.6620	84.6344	9.2555	3.6665	0.4086	0.7018	0.0705	0.0555	0.0247	0.7835	0.3904	0.0088
7	1,156.824	0.6602	84.8644	9.1253	3.6148	0.3970	0.6802	0.0689	0.0542	0.0241	0.7738	0.3886	0.0088
8	1,159.859	0.6628	84.5079	9.2876	3.7308	0.4032	0.6978	0.0691	0.0536	0.0249	0.8119	0.4044	0.0086
9	1,155.925	0.6602	84.8661	9.0742	3.6236	0.3938	0.6825	0.0665	0.0517	0.0240	0.8169	0.3918	0.0089
10	1,156.878	0.6605	84.8556	9.0787	3.6398	0.4062	0.6883	0.0672	0.0524	0.0223	0.7916	0.3892	0.0089
11	1,156.729	0.6608	84.8243	9.0792	3.6513	0.3993	0.6870	0.0674	0.0537	0.0238	0.7866	0.4188	0.0086
12	1,157.118	0.6605	84.8624	9.0746	3.6397	0.4011	0.6940	0.0695	0.0549	0.0228	0.7830	0.3895	0.0084
13	1,154.493	0.6587	85.1114	8.9306	3.5762	0.3927	0.6744	0.0678	0.0538	0.0242	0.7805	0.3802	0.0082
14	1,153.760	0.6583	85.1566	8.9048	3.5602	0.3911	0.6688	0.0661	0.0522	0.0252	0.7853	0.3812	0.0085
15	1,154.090	0.6585	85.1143	8.9678	3.5436	0.3904	0.6674	0.0673	0.0534	0.0257	0.7723	0.3894	0.0083
16	1,155.314	0.6596	84.9636	9.0217	3.6041	0.3912	0.6725	0.0691	0.0547	0.0244	0.7969	0.3936	0.0082
17	1,160.328	0.6629	84.5452	9.2383	3.7420	0.4074	0.7030	0.0726	0.0582	0.0259	0.8050	0.3942	0.0081
18	1,156.285	0.6605	84.8061	9.1317	3.6387	0.3906	0.6680	0.0679	0.0540	0.0239	0.8070	0.4041	0.0080
19	1,159.029	0.6624	84.6052	9.1829	3.7384	0.4037	0.6902	0.0692	0.0550	0.0256	0.8158	0.4059	0.0081
20	1,159.913	0.6635	84.4067	9.3004	3.7584	0.4043	0.7003	0.0683	0.0548	0.0254	0.8688	0.4047	0.0080
21	1,157.528	0.6614	84.7370	9.0985	3.6937	0.3993	0.6917	0.0683	0.0548	0.0245	0.8225	0.4015	0.0083
22	1,157.015	0.6608	84.7861	9.1491	3.6477	0.3959	0.6740	0.0675	0.0541	0.0246	0.7840	0.4090	0.0080
23	1,158.287	0.6613	84.6190	9.4213	3.5910	0.3933	0.6563	0.0699	0.0562	0.0253	0.7434	0.4159	0.0084
24	1,157.389	0.6603	84.6653	9.5987	3.4249	0.3911	0.6440	0.0711	0.0575	0.0267	0.6799	0.4324	0.0086
25	1,152.551	0.6588	84.8009	9.3720	3.3735	0.3803	0.6403	0.0685	0.0545	0.0235	0.8769	0.4012	0.0085
26	1,156.514	0.6607	84.7265	9.2619	3.5649	0.3974	0.6815	0.0666	0.0527	0.0244	0.8064	0.4081	0.0096
27	1,155.738	0.6600	84.8218	9.2283	3.5242	0.3969	0.6777	0.0673	0.0528	0.0245	0.7965	0.4000	0.0102
28	1,156.317	0.6604	84.7661	9.2619	3.5209	0.3978	0.6874	0.0698	0.0547	0.0265	0.8094	0.3956	0.0099
29	1,159.974	0.6632	84.3573	9.4550	3.7080	0.3945	0.6836	0.0679	0.0536	0.0257	0.8402	0.4043	0.0099
30	1,161.314	0.6650	84.1062	9.5220	3.7924	0.3993	0.7004	0.0663	0.0523	0.0249	0.9140	0.4119	0.0103
31	1,160.721	0.6652	84.1117	9.4136	3.8206	0.4010	0.7131	0.0696	0.0529	0.0236	0.9662	0.4173	0.0104
Volume	1,157.700	0.6616	84.6080	9.3037	3.6270	0.3962	0.6795	0.0685	0.0543	0.0250	0.8218	0.4069	0.0090
Weight Avg Energy	1,157.702	0.6616	84.6077	9.3038	3.6272	0.3962	0.6795	0.0685	0.0543	0.0250	0.8219	0.4069	0.0090



Alliance Pipeline

DAILY ANALYSIS --- USA
 ND14MD1 --- Milnor Sales
 May 2020

DAY	Heating Value (BTU/ft3)	Relative Density	C1 Mol%	C2 Mol%	C3 Mol%	IC4 Mol%	NC4 Mol%	IC5 Mol%	NC5 Mol%	C6+ Mol%	N2 Mol%	CO2 Mol%	Hel Mol%
1	1,153.529	0.6606	84.5480	9.2710	3.6778	0.3640	0.6423	0.0482	0.0357	0.0167	0.9848	0.4028	0.0089
2	1,149.468	0.6572	85.0245	9.0703	3.5349	0.3510	0.6049	0.0467	0.0353	0.0177	0.8986	0.4072	0.0090
3	1,150.690	0.6569	85.0762	9.1271	3.5181	0.3536	0.6022	0.0489	0.0369	0.0168	0.8209	0.3901	0.0093
4	1,154.223	0.6592	84.8443	9.2118	3.6052	0.3702	0.6340	0.0549	0.0418	0.0194	0.8108	0.3985	0.0091
5	1,158.273	0.6615	84.6987	9.2028	3.6616	0.4024	0.6919	0.0692	0.0540	0.0238	0.7873	0.3992	0.0089
6	1,158.677	0.6616	84.6996	9.2056	3.6576	0.4059	0.6972	0.0702	0.0553	0.0251	0.7807	0.3941	0.0086
7	1,156.898	0.6605	84.8431	9.1164	3.6251	0.3984	0.6842	0.0693	0.0545	0.0237	0.7843	0.3924	0.0087
8	1,158.621	0.6619	84.6584	9.1891	3.6950	0.4022	0.6949	0.0695	0.0542	0.0248	0.8066	0.3969	0.0085
9	1,155.553	0.6599	84.9246	9.0244	3.6196	0.3942	0.6823	0.0670	0.0522	0.0236	0.8095	0.3938	0.0088
10	1,155.559	0.6599	84.9433	9.0276	3.6072	0.3959	0.6816	0.0670	0.0531	0.0237	0.7928	0.3989	0.0089
11	1,156.490	0.6607	84.8620	9.0452	3.6493	0.3996	0.6890	0.0674	0.0534	0.0233	0.7837	0.4186	0.0085
12	1,157.717	0.6610	84.8165	9.0841	3.6710	0.4036	0.6935	0.0697	0.0549	0.0234	0.7802	0.3948	0.0082
13	1,155.170	0.6593	85.0439	8.9523	3.6076	0.3942	0.6774	0.0682	0.0540	0.0244	0.7796	0.3902	0.0082
14	1,154.710	0.6590	85.0716	8.9586	3.5839	0.3926	0.6740	0.0666	0.0528	0.0250	0.7833	0.3834	0.0083
15	1,155.161	0.6594	85.0135	9.0152	3.5700	0.3939	0.6762	0.0694	0.0554	0.0260	0.7718	0.4006	0.0081
16	1,155.888	0.6600	84.9208	9.0347	3.6257	0.3925	0.6763	0.0698	0.0555	0.0244	0.8038	0.3881	0.0083
17	1,159.999	0.6627	84.5581	9.2525	3.7288	0.4060	0.6961	0.0708	0.0565	0.0267	0.7989	0.3976	0.0079
18	1,156.530	0.6607	84.7944	9.1358	3.6457	0.3910	0.6700	0.0682	0.0543	0.0241	0.8082	0.4005	0.0078
19	1,159.066	0.6623	84.6281	9.1667	3.7363	0.4056	0.6927	0.0692	0.0550	0.0257	0.8083	0.4044	0.0081
20	1,159.987	0.6636	84.3992	9.3015	3.7622	0.4038	0.7001	0.0690	0.0553	0.0255	0.8700	0.4054	0.0079
21	1,157.166	0.6613	84.7564	9.0878	3.6822	0.3987	0.6903	0.0683	0.0546	0.0244	0.8251	0.4039	0.0084
22	1,156.900	0.6607	84.8122	9.1309	3.6461	0.3956	0.6737	0.0676	0.0542	0.0245	0.7781	0.4092	0.0078
23	1,158.565	0.6611	84.6083	9.5262	3.5442	0.3919	0.6451	0.0711	0.0574	0.0258	0.6982	0.4233	0.0086
24	1,157.470	0.6606	84.6460	9.5608	3.4478	0.3931	0.6546	0.0711	0.0571	0.0260	0.7061	0.4289	0.0085
25	1,153.412	0.6594	84.7486	9.3766	3.4146	0.3848	0.6451	0.0674	0.0539	0.0240	0.8742	0.4022	0.0086
26	1,155.346	0.6599	84.8437	9.1924	3.5359	0.3935	0.6749	0.0662	0.0523	0.0243	0.7994	0.4077	0.0096
27	1,155.717	0.6600	84.8181	9.2410	3.5178	0.3958	0.6769	0.0673	0.0529	0.0246	0.7961	0.3993	0.0101
28	1,155.799	0.6601	84.8237	9.2167	3.5180	0.3964	0.6834	0.0695	0.0543	0.0262	0.8040	0.3979	0.0100
29	1,158.977	0.6627	84.4798	9.3276	3.7013	0.3957	0.6884	0.0682	0.0536	0.0257	0.8422	0.4076	0.0099
30	1,160.674	0.6647	84.1699	9.4520	3.7914	0.3986	0.6997	0.0672	0.0525	0.0247	0.9191	0.4146	0.0104
31	1,161.076	0.6656	84.0847	9.3811	3.8385	0.4059	0.7302	0.0701	0.0532	0.0236	0.9987	0.4035	0.0105
Volume	1,156.543	0.6607	84.7796	9.1563	3.6297	0.3941	0.6781	0.0665	0.0523	0.0238	0.8111	0.3997	0.0087
Weight Avg Energy	1,156.545	0.6607	84.7794	9.1563	3.6298	0.3941	0.6781	0.0665	0.0523	0.0238	0.8112	0.3997	0.0087

May-20

ZONE 610

Watford City

Watford City West Border

Watford City East Border

Weighted

Start Date	End Date	BTU			BTU			AVG BTU	
		MCF	DK	Zone 25	MCF	DK	Zone 43		
5/1/2020	5/2/2020	163	196	1.2057	132	152	1.1508	1.181	5/1/2020
5/2/2020	5/3/2020	155	187	1.2057	88	100	1.1494	1.185	5/2/2020
5/3/2020	5/4/2020	167	201	1.2057	121	140	1.1495	1.182	5/3/2020
5/4/2020	5/5/2020	190	229	1.2057	199	230	1.1518	1.178	5/4/2020
5/5/2020	5/6/2020	188	227	1.2057	180	207	1.1527	1.180	5/5/2020
5/6/2020	5/7/2020	163	197	1.2057	101	116	1.1511	1.185	5/6/2020
5/7/2020	5/8/2020	213	257	1.2057	224	258	1.1504	1.177	5/7/2020
5/8/2020	5/9/2020	201	243	1.2057	173	200	1.1508	1.180	5/8/2020
5/9/2020	5/10/2020	253	305	1.2057	300	346	1.1512	1.176	5/9/2020
5/10/2020	5/11/2020	259	313	1.2057	300	346	1.1506	1.176	5/10/2020
5/11/2020	5/12/2020	236	285	1.2057	223	257	1.1514	1.179	5/11/2020
5/12/2020	5/13/2020	255	307	1.2057	298	343	1.1515	1.176	5/12/2020
5/13/2020	5/14/2020	189	228	1.2057	159	183	1.1524	1.181	5/13/2020
5/14/2020	5/15/2020	180	217	1.2057	148	171	1.1526	1.182	5/14/2020
5/15/2020	5/16/2020	131	158	1.2057	84	96	1.1508	1.184	5/15/2020
5/16/2020	5/17/2020	115	139	1.2057	58	67	1.1522	1.188	5/16/2020
5/17/2020	5/18/2020	111	134	1.2057	50	57	1.1510	1.189	5/17/2020
5/18/2020	5/19/2020	109	132	1.2057	61	70	1.1504	1.186	5/18/2020
5/19/2020	5/20/2020	79	95	1.2057	48	56	1.1544	1.186	5/19/2020
5/20/2020	5/21/2020	61	73	1.2057	62	71	1.1511	1.178	5/20/2020
5/21/2020	5/22/2020	92	111	1.2057	81	93	1.1520	1.181	5/21/2020
5/22/2020	5/23/2020	79	95	1.2057	38	43	1.1499	1.188	5/22/2020
5/23/2020	5/24/2020	121	146	1.2057	80	92	1.1504	1.184	5/23/2020
5/24/2020	5/25/2020	138	166	1.2057	124	143	1.1499	1.179	5/24/2020
5/25/2020	5/26/2020	124	150	1.2057	89	103	1.1506	1.183	5/25/2020
5/26/2020	5/27/2020	94	113	1.2057	73	84	1.1492	1.181	5/26/2020
5/27/2020	5/28/2020	133	160	1.2057	81	93	1.1508	1.185	5/27/2020
5/28/2020	5/29/2020	137	165	1.2057	101	116	1.1494	1.182	5/28/2020
5/29/2020	5/30/2020	120	145	1.2057	69	80	1.1492	1.185	5/29/2020
5/30/2020	5/31/2020	105	127	1.2057	50	58	1.1496	1.188	5/30/2020
5/31/2020	6/1/2020	85	103	1.2057	42	48	1.1491	1.187	5/31/2020
		4,646	5,604	1.2057	3,837	4,419	1.1508	1.1823	

ROW ID	LOCATION DESCRIPTION	GROSS HEATING VALUE (BTU/CF)	SPECIFIC GRAVITY	WOBBE (calc)	CRICONDENTHERM (deg F)	NITROGEN (mole percent)	CARBON DIOXIDE (mole percent)	METHANE (mole percent)	ETHANE (mole percent)	PROPANE (mole percent)	NORMAL BUTANE (mole percent)	ISO BUTANE (mole percent)	PENTANE (mole percent)	ISO PENTANE (mole percent)	NEO PENTANE (mole percent)	HEXANES PLUS (mole percent)	HYDROGEN (mole percent)	HELIUM (mole percent)	PRODUCTION DATE	POSTING DATE	Changetimestamp	NOTES
11587	GLEN ULLIN	1102.1	0.6488	1368.2	-47	2.1594	0.9573	81.3933	14.3418	0.7402	0.0181	0.0113	0	0	0	0	0.3573	0.0213	4/30/2020	5/1/2020	5/1/2020 4:04:45 PM	
11587	GLEN ULLIN	1089.6	0.6386	1363.5	-53.3	1.9815	0.9329	83.4903	12.5496	0.6737	0.018	0.0113	0.0001	0.0001	0	0	0.3214	0.0212	5/1/2020	5/2/2020	5/2/2020 4:02:34 PM	
11587	GLEN ULLIN	1087.3	0.6359	1363.6	-54.7	1.8948	0.9165	83.9552	12.1683	0.6595	0.0195	0.0122	0.0001	0.0001	0	0	0.354	0.02	5/2/2020	5/3/2020	5/3/2020 4:02:08 PM	
11587	GLEN ULLIN	1087.9	0.6363	1363.8	-54.4	1.9046	0.9106	83.8736	12.2409	0.6654	0.0185	0.0118	0	0	0	0	0.3548	0.0199	5/3/2020	5/4/2020	5/4/2020 4:01:05 PM	
11587	GLEN ULLIN	1087.7	0.6362	1363.7	-54.5	1.8734	0.9347	83.8293	12.2741	0.645	0.0189	0.012	0.0001	0.0001	0	0	0.3927	0.0199	5/4/2020	5/5/2020	5/5/2020 4:01:36 PM	
11587	GLEN ULLIN	1085.7	0.6342	1363.3	-56.1	1.7684	0.952	84.4925	11.844	0.6212	0.0172	0.0113	0.0003	0.0005	0	0	0.273	0.0197	5/5/2020	5/6/2020	5/6/2020 4:02:12 PM	
11587	GLEN ULLIN	1080.8	0.6298	1361.9	-59.3	1.6949	0.9206	85.3363	11.1876	0.562	0.0147	0.0095	0.0001	0.0001	0	0	0.2553	0.019	5/6/2020	5/7/2020	5/7/2020 3:58:40 PM	
11587	GLEN ULLIN	1079.3	0.6278	1362.1	-60.5	1.609	0.9132	85.7241	10.9168	0.5297	0.016	0.0106	0.0003	0.0006	0	0.0001	0.2615	0.0184	5/7/2020	5/8/2020	5/8/2020 3:58:14 PM	
11587	GLEN ULLIN	1082.2	0.6307	1362.7	-58.4	1.7424	0.8914	85.1109	11.3375	0.593	0.016	0.0109	0	0.0002	0	0	0.2788	0.019	5/8/2020	5/9/2020	5/9/2020 3:58:22 PM	
11587	GLEN ULLIN	1085.3	0.6331	1364	-56.7	1.7657	0.9048	84.7014	11.7391	0.5955	0.0179	0.0126	0.0004	0.0009	0	0.0002	0.2419	0.0197	5/9/2020	5/10/2020	5/10/2020 3:59:39 PM	
11587	GLEN ULLIN	1092.5	0.6394	1366.3	-51.1	1.8936	0.9239	83.6185	12.4742	0.7609	0.0308	0.0212	0.002	0.0027	0	0.0008	0.2511	0.0205	5/10/2020	5/11/2020	5/11/2020 4:02:01 PM	
11587	GLEN ULLIN	1091.8	0.6384	1366.5	-51.4	1.8884	0.8943	83.8108	12.3068	0.7681	0.0328	0.0231	0.0021	0.0029	0	0.0009	0.2495	0.0203	5/11/2020	5/12/2020	5/12/2020 4:01:33 PM	
11587	GLEN ULLIN	1088.8	0.6364	1364.8	-53.4	1.8495	0.9146	84.0482	12.1054	0.7076	0.0259	0.0184	0.0013	0.0018	0	0.0006	0.3067	0.0203	5/12/2020	5/13/2020	5/13/2020 4:02:30 PM	
11587	GLEN ULLIN	1086.8	0.635	1363.8	-55.1	1.843	0.9093	84.2994	11.9027	0.6912	0.0206	0.0131	0.0001	0.0002	0	0	0.3006	0.02	5/13/2020	5/14/2020	5/14/2020 4:00:36 PM	
11587	GLEN ULLIN	1083.4	0.6319	1362.9	-57.3	1.8144	0.8731	84.9182	11.4142	0.6606	0.0184	0.0122	0	0	0	0	0.2693	0.0198	5/14/2020	5/15/2020	5/15/2020 4:01:28 PM	
11587	GLEN ULLIN	1084.9	0.6336	1362.9	-56.4	1.8961	0.8679	84.5342	11.7245	0.6581	0.0169	0.0112	0	0	0	0	0.2708	0.0202	5/15/2020	5/16/2020	5/16/2020 4:00:41 PM	
11587	GLEN ULLIN	1087.3	0.6355	1363.9	-55.3	1.9183	0.8709	84.2938	11.982	0.6719	0.0184	0.012	0	0.0001	0	0	0.2124	0.0203	5/16/2020	5/17/2020	5/17/2020 3:59:03 PM	
11587	GLEN ULLIN	1083.4	0.6324	1362.4	-57.4	1.8713	0.8671	84.8175	11.525	0.6293	0.0175	0.0115	0	0	0	0	0.241	0.02	5/17/2020	5/18/2020	5/18/2020 4:01:51 PM	
11587	GLEN ULLIN	1086.4	0.6345	1363.8	-55.8	1.9043	0.8595	84.3458	11.9187	0.6551	0.0175	0.0114	0	0.0001	0	0	0.2671	0.0205	5/18/2020	5/19/2020	5/19/2020 4:04:51 PM	
11587	GLEN ULLIN	1084.6	0.633	1363.2	-56.3	1.8539	0.8643	84.8015	11.4882	0.6984	0.0221	0.0137	0.0006	0.0007	0	0	0.2366	0.0201	5/19/2020	5/20/2020	5/20/2020 4:03:44 PM	
11587	GLEN ULLIN	1082	0.6302	1362.9	-57.5	1.7645	0.8529	85.4111	10.966	0.7087	0.0264	0.0155	0.001	0.001	0	0.0002	0.2334	0.0195	5/20/2020	5/21/2020	5/21/2020 4:12:15 PM	
11587	GLEN ULLIN	1085.9	0.6335	1364.4	-55	1.8181	0.8652	84.8004	11.3984	0.8033	0.0258	0.0177	0.0004	0.0009	0	0.0001	0.25	0.0199	5/21/2020	5/22/2020	5/22/2020 4:05:41 PM	
11587	GLEN ULLIN	1086.7	0.6341	1364.7	-54.7	1.8102	0.8798	84.6523	11.6071	0.7434	0.0256	0.0182	0.0009	0.0014	0	0.0006	0.2412	0.0194	5/22/2020	5/23/2020	5/23/2020 4:05:24 PM	
11587	GLEN ULLIN	1089.1	0.6365	1365.1	-53.2	1.8964	0.882	84.1661	11.9618	0.7779	0.0284	0.0176	0.0014	0.0018	0	0.0001	0.2463	0.0204	5/23/2020	5/24/2020	5/24/2020 4:02:35 PM	
11587	GLEN ULLIN	1086.9	0.6339	1365.1	-52.9	1.7889	0.8735	84.816	11.397	0.7973	0.038	0.0279	0.0028	0.0042	0	0.0013	0.2339	0.0195	5/24/2020	5/25/2020	5/25/2020 4:01:19 PM	
11587	GLEN ULLIN	1085.2	0.6336	1363.4	-55.8	1.7901	0.9157	84.8657	11.4435	0.73	0.0235	0.0156	0.0005	0.0008	0	0.0001	0.1951	0.0196	5/25/2020	5/26/2020	5/26/2020 4:07:12 PM	
11587	GLEN ULLIN	1085.6	0.6332	1364.3	-56.2	1.7637	0.8953	84.9196	11.4749	0.7081	0.0219	0.0146	0.0002	0.0006	0	0	0.1816	0.0197	5/26/2020	5/27/2020	5/27/2020 4:12:34 PM	
11587	GLEN ULLIN	1083.2	0.6311	1363.5	-57.8	1.739	0.8805	85.3138	11.1729	0.6693	0.0207	0.0138	0.0002	0.0004	0	0	0.1697	0.0198	5/27/2020	5/28/2020	5/28/2020 4:14:50 PM	
11587	GLEN ULLIN	1084.4	0.6319	1364.2	-57	1.7479	0.8726	85.2072	11.2608	0.6977	0.0223	0.0152	0.0004	0.0011	0	0	0.1551	0.0199	5/28/2020	5/29/2020	5/29/2020 4:19:50 PM	
11587	GLEN ULLIN	1087.1	0.6338	1365.5	-54.8	1.7566	0.8787	84.8898	11.4826	0.7566	0.0276	0.0189	0.0011	0.0019	0	0.0003	0.1663	0.0197	5/29/2020	5/30/2020	5/30/2020 4:21:00 PM	
11587	GLEN ULLIN	1090.2	0.6366	1366.4	-51.5	1.7961	0.9005	84.4472	11.7668	0.823	0.0377	0.0277	0.0029	0.0041	0	0.0013	0.1726	0.0201	5/30/2020	5/31/2020	5/31/2020 4:18:39 PM	
	GLEN ULLIN	1086.9	0.6345	1364.5	-55.2	1.8131	0.8921	84.7121	11.6535	0.7108	0.0243	0.0165	0.0007	0.0012	0	0.0002	0.1559	0.0198	5/31/2020	6/1/2020	6/1/2020 4:20:46 PM	

NORTH DAKOTA HEATING VALUE ZONES		
ZONES	MEASURING DEVICE	LOCATION
211	Chromatograph	Sidney Border
24	Chromatograph	Williston Border
241	Accumulated Sample	Fairview Border
25	Accumulated Sample	Watford City West Border
260	Chromatograph	North Tioga Transfer
261	Chromatograph	Tioga Comp Station – Robinson Lake Plant
262	Chromatograph	Minot Border
263	Accumulated Sample	Lignite Plant
264	Accumulated Sample	Epping Border
265	Chromatograph	Tioga Comp Station – County Line Plant
271	Chromatograph	Bismarck – Cleveland
272	Chromatograph	Cleveland – Mapleton
273	Chromatograph	Cleveland – Grafton
28	Chromatograph	Bismarck Station
31	Chromatograph	Dickinson Border
32	Chromatograph	Cabin Creek Station
33	Chromatograph	Little Knife Plant
34	Chromatograph	Bowman Border
43	Chromatograph	Spring Creek
550	Accumulated Sample & Chromatograph	Mandan Border
600	Chromatograph	Hankinson Area
601	Chromatograph	Milnor Area
610	Accumulated Sample & Chromatograph	Watford City
802	Chromatograph	Linton

MONTANA DAKOTA UTILITIES CO
NORTH DAKOTA
HEATING VALUE DATA

STATE	ZONE	ZONE BOUNDARY	12 MONTH AVERAGE	MAY 20	APR 20	MAR 20	FEB 20	JAN 20	DEC 19	NOV 19	OCT 19	SEPT 19	AUG 19	JULY 19	JUNE 19	ZONE
MT/ND	211	Sidney Border - MonDak Tfr - Sidney PIt	1204	1174	1202	1211	1215	1207	1209	1198	1210	1218	1200	1199	1208	211
ND	24	Williston Border - Charbonneau Station	1165	1159	1155	1169	1171	1172	1173	1177	1160	1164	1165	1165	1152	24
ND	25	Watford City West Border	1197	1206	1188	1202	1204	1196	1192	1194	1199	1195	1197	1195	1199	25
ND	28	Bismarck Station - Glen Ullin Station	1153	1129	1149	1138	1126	1123	1128	1125	1137	1189	1196	1186	1205	28
ND	31	Dickinson Brd - Belfield Trf - G Ullin Stn	1133	1093	1150	1138	1126	1122	1128	1125	1137	1163	1114	1128	1168	31
ND/MT	32	Cabin Creek Station - Belfield Transfer	1118	1109	1133	1103	1096	1093	1074	1122	1134	1130	1137	1133	1147	32
ND	33	Little Knife Plant	1174	1179	1175	1173	1175	1174	1173	1172	1173	1174	1175	1175	1174	33
ND	34	Badlands Plant/Bowman Border	1043	1047	1048	1024	1073	1082	1110	1102	1054	1001	1013	989	978	34
ND	43	Spring Creek I - Sax Valve I	1149	1151	1157	1152	1151	1154	1144	1151	1143	1144	1150	1140	1149	43
ND/MT	241	Fairview Border	1197	1164	1182	1195	1203	1209	1206	1202	1208	1210	1194	1191	1200	241
ND	260	North Tioga Transfer - Nesson Plant	1119	1099	1096	1132	1111	1089	1106	1146	1126	1136	1135	1132	1115	260
ND	261	Tioga Comp Station - Robinson Lake Plan	1177	1178	1179	1174	1173	1168	1166	1178	1174	1189	1189	1179	1175	261
ND	262	Minot Bdr - Palermo Bdr - Bismarck Stn	1190	1193	1190	1180	1180	1176	1184	1193	1195	1193	1197	1198	1205	262
ND	263	Lignite Plant	1151	1146	1146	1160	1143	1145	1149	1149	1146	1146	1163	1164	1160	263
ND	264	Epping Border	1156	1168	1147	1157	1165	1163	1162	1164	1144	1148	1155	1154	1150	264
ND	265	Tioga Comp Station - County Line Plant	1172	1158	1180	1174	1174	1168	1167	1168	1169	1176	1177	1175	1175	265
ND	266	County Line Plant	1169	1168	1193	1164	1161	1162	1165	1170	1170	1172	1170	1166	1170	266
ND	271	Bismarck Station - Cleveland Station	1183	1190	1186	1169	1165	1159	1168	1174	1189	1191	1197	1196	1206	271
ND	272	Cleveland Station - Mapleton	1182	1189	1185	1169	1165	1159	1168	1174	1188	1191	1196	1195	1206	272
ND	273	Cleveland Station - Grafton Border	1182	1189	1184	1169	1165	1159	1168	1173	1188	1190	1195	1194	1204	273
ND	550	Mandan Border / NBPL-St Anthony	1149	1129	1149	1119	1117	1115	1121	1125	1137	1189	1196	1186	1202	550
ND	610	MDU-Watford City BTU	1174	1182	1171	1169	1168	1168	1161	1172	1174	1178	1181	1180	1187	610
ND	802	NBPL - Linton	1098	1086	1105	1102	1102	1102	1102	1107	1098	1094	1094	1091	1098	802
ND	903	Hettinger Propane	2549	2549	2549	2549	2549	2549	2549	2549	2549	2549	2549	2549	2549	903
ND	600	Alliance Pipeline - Hankinson	1163	1158	1163	1164	1162	1160	1159	1166	1170	1167	1162	1161	1158	600
ND	601	Alliance Pipeline - Milnor	1162	1157	1158	1164	1162	1160	1159	1166	1170	1167	1162	1160	1156	602

THERMAL ZONE VARIANCE DOCUMENTATION		
May 2020		
<i>ZONE</i>	<i>BTU VARIANCE</i>	<i>REASON</i>
211	-28	Operational
28	-20	Operational
31	-57	Operational
32	-24	Operational
264	21	Operational
265	-22	Operational