

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

August 25, 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 – June 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 July 2020.
2. Attachment B consists of copies of the monthly Heating Value Test Reports received from our suppliers for the month of June 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 June 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**  
**Jul-20**

<u>Town</u>	<u>Heat Zone</u>	<u>Therm Factor</u>
MDU-303-ALEXANDER	025	1.1391
MDU-308-ARNEGARD	025	1.1391
MDU-314-APPLE VALLEY	271	1.1482
MDU-318-BEACH	032	1.0249
MDU-319-BELFIELD	032	1.0324
MDU-323-BERTHOLD	262	1.1268
MDU-324-BEULAH	032	1.0324
MDU-327-BISMARCK	028	1.0893
MDU-330-BOWMAN	034	0.9605
MDU-337-BURLINGTON	262	1.1511
MDU-343-CARRINGTON	273	1.1472
MDU-344-CLEVELAND	272	1.1392
MDU-364-CAVALIER	273	1.1714
MDU-365-DAWSON	271	1.1401
MDU-368-DES LACS	262	1.1349
MDU-369-DICKINSON	031	1.0249
MDU-374-FT TOTTEN	273	1.1553
MDU-375-DEVILS LAKE	273	1.1553
MDU-379-BARLOW	273	1.1472
MDU-384-EPPING	264	1.1032
MDU-387-ELDRIDGE	272	1.1472
MDU-407-GLADSTONE	031	1.0249
MDU-411-GLEN ULLIN	031	1.0323
MDU-413-GOLVA	032	1.0098
MDU-416-GARRISON	262	1.1349
MDU-417-GRAFTON	273	1.1795
MDU-403-GWINNER	601	1.1399
MDU-429-HEBRON	031	1.0323
MDU-432-HETTINGER	903	2.4049
MDU-449-JAMESTOWN	272	1.1553
MDU-459-KILLDEER	033	1.1136
MDU-463-LANGDON	273	1.1472
MDU-469-LEFOR	031	1.0249
MDU-474-LIGNITE	263	1.0902
MDU-475-LINTON	802	1.0478
MDU-478-LINCOLN	028	1.0893
MDU-488-MCKENZIE	271	1.1482
MDU-494-MEDINA	271	1.1401
MDU-498-MANDAN	028	1.0893
MDU-500-MARMARTH	034	0.9676
MDU-505-MINOT	262	1.1511
MDU-510-MOTT	031	1.0249
MDU-512-MAX	262	1.1268
MDU-513-MILNOR	601	1.1399
MDU-522-NEW ENGLAND	031	1.0175
MDU-524-NEW SALEM	028	1.0663
MDU-532-NEW ROCKFORD	273	1.1472
MDU-539-PARK RIVER	273	1.1714
MDU-540-PALERMO	262	1.1268

MDU-558-RAY	264	1.1032
MDU-561-REGENT	031	1.0175
MDU-563-RHAME	034	0.9534
MDU-564-RICHARDTON	031	1.0175
MDU-568-ROSS	261	1.1046
MDU-572-RUTHVILLE	262	1.1511
MDU-574-SANBORN	272	1.1553
MDU-583-SENTINEL BUTTE	032	1.0249
MDU-588-SOUTH HEART	031	1.0175
MDU-717-SPIRITWOOD	272	1.1553
MDU-590-SPRINGBROOK	264	1.1032
MDU-591-STANLEY	261	1.1126
MDU-593-STEELE	271	1.1401
MDU-594-STERLING	028	1.0893
MDU-598-SHEYENNE	273	1.1553
MDU-605-SURREY	262	1.1511
MDU-610-TAPPEN	271	1.1401
MDU-611-TAYLOR	031	1.0175
MDU-616-TIOGA	260	1.0305
MDU-619-TURTLE LAKE	262	1.1349
MDU-620-TRENTON	024	1.1025
MDU-624-UNDERWOOD	262	1.1349
MDU-625-VALLEY CITY	272	1.1634
MDU-629-WALHALLA	273	1.1714
MDU-632-WATFORD CITY	610	1.1164
MDU-636-WHEELOCK	264	1.0952
MDU-637-WHITE EARTH	261	1.1126
MDU-642-WILLISTON	024	1.1025
MDU-646-WASHBURN	262	1.1430
MDU-647-WILTON	262	1.1268
MDU-664-RIVERDALE	262	1.1349
MDU-691-FAIRVIEW	241	1.1073
MDU-712-MINOT AFB	262	1.1511
MDU-718-FAIRMOUNT	600	1.1385
MDU-732-NEKOMA	273	1.1472
MDU-732-MSR SITE	273	1.1472

# Source Daily Summary

June 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	0.7002	1148.3	1168.6	1164.3	0.781	3.260	74.576	17.846	3.101	0.118	0.266	0.023	0.027	0.000	0.000	0.000	0.000	0.000	1392.89	
2	0.7038	1152.5	1172.9	1168.6	0.767	3.360	73.877	18.360	3.235	0.109	0.245	0.021	0.025	0.000	0.000	0.000	0.000	0.000	1394.48	
3	0.7024	1150.4	1170.8	1166.5	0.787	3.317	74.213	18.065	3.199	0.113	0.255	0.022	0.027	0.000	0.000	0.000	0.000	0.000	1393.37	
4	0.6950	1146.7	1167.0	1162.9	0.828	2.786	75.342	17.938	2.692	0.111	0.250	0.023	0.029	0.000	0.000	0.000	0.000	0.000	1396.27	
5	0.6934	1146.8	1167.1	1163.0	0.839	2.625	75.188	18.666	2.320	0.097	0.219	0.020	0.024	0.000	0.000	0.000	0.000	0.000	1397.94	
6	0.6922	1146.2	1166.5	1162.4	0.843	2.542	75.296	18.756	2.226	0.092	0.203	0.018	0.022	0.000	0.000	0.000	0.000	0.000	1398.49	
7	0.6879	1136.8	1156.9	1152.7	0.804	2.764	76.130	17.724	2.246	0.090	0.201	0.018	0.022	0.000	0.000	0.000	0.000	0.000	1391.38	
8	0.6907	1142.8	1163.0	1158.9	0.824	2.639	75.559	18.425	2.221	0.091	0.199	0.018	0.022	0.000	0.000	0.000	0.000	0.000	1395.79	
9	0.6902	1141.3	1161.5	1157.6	0.826	2.676	75.600	18.389	2.193	0.087	0.190	0.017	0.021	0.000	0.000	0.000	0.000	0.000	1394.55	
10	0.6929	1146.3	1166.6	1162.7	0.857	2.581	75.181	18.781	2.274	0.090	0.197	0.017	0.021	0.000	0.000	0.000	0.000	0.000	1397.94	
11	0.6945	1148.6	1168.9	1164.9	0.851	2.595	74.930	18.960	2.332	0.092	0.201	0.017	0.021	0.000	0.000	0.000	0.000	0.000	1399.17	
12	0.6937	1147.5	1167.8	1163.6	0.853	2.587	74.992	18.985	2.263	0.089	0.193	0.017	0.020	0.000	0.000	0.000	0.000	0.000	1398.62	
13	0.6931	1147.0	1167.3	1162.8	0.841	2.584	74.886	19.303	2.087	0.082	0.180	0.016	0.019	0.000	0.000	0.000	0.000	0.000	1398.55	
14	0.6931	1146.3	1166.6	1162.3	0.863	2.597	74.933	19.203	2.096	0.085	0.186	0.016	0.020	0.000	0.000	0.000	0.000	0.000	1397.62	
15	0.6925	1145.2	1165.4	1161.3	0.861	2.607	75.043	19.090	2.096	0.083	0.184	0.016	0.019	0.000	0.000	0.000	0.000	0.000	1396.96	
16	0.6947	1147.8	1168.1	1164.0	0.904	2.589	74.798	19.171	2.215	0.088	0.196	0.017	0.021	0.000	0.000	0.000	0.000	0.000	1397.88	
17	0.6939	1147.9	1168.2	1164.1	0.898	2.514	74.824	19.385	2.054	0.088	0.196	0.018	0.022	0.000	0.000	0.000	0.000	0.000	1398.83	
18	0.6943	1147.4	1167.7	1163.9	0.899	2.577	74.775	19.307	2.125	0.086	0.192	0.017	0.020	0.000	0.000	0.000	0.000	0.000	1397.94	
19	0.6948	1147.7	1168.1	1164.0	0.907	2.594	74.734	19.280	2.165	0.087	0.194	0.017	0.021	0.000	0.000	0.000	0.000	0.000	1397.80	
20	0.6937	1146.1	1166.4	1162.2	0.897	2.612	74.875	19.176	2.126	0.085	0.191	0.017	0.020	0.000	0.000	0.000	0.000	0.000	1396.84	
21	0.6951	1147.8	1168.1	1163.9	0.907	2.619	74.681	19.297	2.175	0.087	0.195	0.017	0.021	0.000	0.000	0.000	0.000	0.000	1397.55	
22	0.6978	1156.0	1176.5	1172.4	0.608	2.833	73.634	20.456	2.245	0.063	0.136	0.011	0.014	0.000	0.000	0.000	0.000	0.000	1404.87	
23	0.6941	1148.8	1169.1	1164.8	0.807	2.619	74.644	19.529	2.116	0.078	0.172	0.015	0.018	0.000	0.000	0.000	0.000	0.000	1399.73	
24	0.6878	1137.8	1158.0	1153.7	0.803	2.698	75.811	18.391	2.014	0.077	0.171	0.015	0.018	0.000	0.000	0.000	0.000	0.000	1392.75	
25	0.6990	1150.0	1170.4	1165.8	0.841	2.945	75.317	17.366	2.809	0.177	0.432	0.054	0.059	0.000	0.000	0.000	0.000	0.000	1396.01	
26	0.6930	1131.5	1151.6	1147.1	0.951	3.347	75.627	17.076	2.613	0.111	0.230	0.020	0.023	0.000	0.000	0.000	0.000	0.000	1379.62	
27	0.7134	1160.2	1180.7	1177.6	1.069	3.259	71.780	20.678	2.834	0.115	0.228	0.018	0.018	0.000	0.000	0.000	0.000	0.000	1395.89	
28	0.7095	1156.8	1177.3	1173.1	1.029	3.234	72.693	19.674	2.980	0.117	0.235	0.018	0.019	0.000	0.000	0.000	0.000	0.000	1394.17	
29	0.7259	1170.2	1190.9	1186.6	1.225	3.663	69.795	21.640	3.256	0.134	0.255	0.017	0.015	0.000	0.000	0.000	0.000	0.000	1394.34	
30	0.7293	1176.0	1196.8	1192.7	1.221	3.639	69.304	21.930	3.499	0.130	0.246	0.016	0.014	0.000	0.000	0.000	0.000	0.000	1397.92	
Avg	0.6977	1149.0	1169.2	1165.0	0.880	2.842	74.435	19.028	2.460	0.098	0.215	0.019	0.022	0.000	0.000	0.000	0.000	0.000	1396.21	

# Source Daily Summary

June 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	0.7019	1149.2	1169.6	1165.7	0.789	3.336	74.382	17.826	3.227	0.120	0.268	0.023	0.029	0.000	0.000	0.000	0.000	0.000	0.000	1392.56
2	0.7034	1152.3	1172.7	1168.8	0.784	3.302	74.067	18.161	3.261	0.116	0.259	0.022	0.027	0.000	0.000	0.000	0.000	0.000	0.000	1394.71
3	0.6991	1148.1	1168.4	1164.4	0.798	3.136	74.846	17.713	3.061	0.119	0.269	0.025	0.032	0.000	0.000	0.000	0.000	0.000	0.000	1393.78
4	0.6910	1142.0	1162.2	1158.4	0.828	2.698	75.817	17.836	2.451	0.101	0.222	0.020	0.026	0.000	0.000	0.000	0.000	0.000	0.000	1394.64
5	0.6919	1145.2	1165.5	1161.8	0.818	2.609	75.432	18.492	2.290	0.098	0.216	0.020	0.025	0.000	0.000	0.000	0.000	0.000	0.000	1397.68
6	0.6889	1140.6	1160.8	1157.1	0.828	2.587	75.952	18.076	2.214	0.095	0.205	0.019	0.023	0.000	0.000	0.000	0.000	0.000	0.000	1395.14
7	0.6871	1136.2	1156.4	1152.6	0.806	2.719	76.284	17.619	2.239	0.092	0.200	0.018	0.023	0.000	0.000	0.000	0.000	0.000	0.000	1391.60
8	0.6876	1137.3	1157.4	1153.8	0.816	2.687	76.179	17.760	2.229	0.091	0.197	0.018	0.023	0.000	0.000	0.000	0.000	0.000	0.000	1392.38
9	0.6897	1141.5	1161.7	1158.0	0.845	2.591	75.671	18.437	2.137	0.088	0.190	0.017	0.022	0.000	0.000	0.000	0.000	0.000	0.000	1395.30
10	0.6928	1146.5	1166.8	1163.2	0.852	2.559	75.287	18.633	2.330	0.094	0.204	0.018	0.022	0.000	0.000	0.000	0.000	0.000	0.000	1398.41
11	0.6930	1146.8	1167.1	1163.5	0.847	2.568	75.223	18.703	2.321	0.095	0.204	0.018	0.022	0.000	0.000	0.000	0.000	0.000	0.000	1398.60
12	0.6923	1145.8	1166.1	1162.4	0.849	2.560	75.196	18.884	2.192	0.089	0.191	0.017	0.021	0.000	0.000	0.000	0.000	0.000	0.000	1398.11
13	0.6914	1144.5	1164.8	1161.0	0.852	2.549	75.239	18.988	2.064	0.085	0.184	0.017	0.021	0.000	0.000	0.000	0.000	0.000	0.000	1397.44
14	0.6915	1144.2	1164.4	1160.7	0.856	2.580	75.227	18.950	2.076	0.086	0.187	0.016	0.021	0.000	0.000	0.000	0.000	0.000	0.000	1396.82
15	0.6921	1144.8	1165.1	1161.3	0.870	2.573	75.186	18.936	2.123	0.086	0.189	0.017	0.021	0.000	0.000	0.000	0.000	0.000	0.000	1397.01
16	0.6935	1147.0	1167.3	1163.6	0.906	2.520	75.000	19.084	2.163	0.090	0.197	0.017	0.022	0.000	0.000	0.000	0.000	0.000	0.000	1398.26
17	0.6921	1145.6	1165.9	1162.2	0.890	2.490	75.147	19.129	2.020	0.089	0.195	0.018	0.022	0.000	0.000	0.000	0.000	0.000	0.000	1398.04
18	0.6932	1145.8	1166.1	1162.5	0.893	2.577	75.017	19.049	2.142	0.088	0.194	0.017	0.022	0.000	0.000	0.000	0.000	0.000	0.000	1397.19
19	0.6933	1145.9	1166.2	1162.5	0.900	2.571	75.009	19.056	2.141	0.088	0.195	0.018	0.022	0.000	0.000	0.000	0.000	0.000	0.000	1397.18
20	0.6933	1145.6	1165.9	1162.1	0.904	2.591	74.998	19.039	2.147	0.088	0.194	0.017	0.022	0.000	0.000	0.000	0.000	0.000	0.000	1396.72
21	0.6935	1145.7	1166.0	1162.2	0.905	2.598	75.004	18.998	2.169	0.088	0.196	0.018	0.022	0.000	0.000	0.000	0.000	0.000	0.000	1396.67
22	0.6926	1144.8	1165.1	1161.3	0.885	2.600	75.122	18.928	2.147	0.087	0.191	0.017	0.022	0.000	0.000	0.000	0.000	0.000	0.000	1396.48
23	0.6919	1145.2	1165.5	1161.7	0.877	2.521	75.198	19.012	2.077	0.087	0.189	0.017	0.022	0.000	0.000	0.000	0.000	0.000	0.000	1397.68
24	0.6836	1131.8	1151.9	1148.2	0.785	2.697	76.560	17.723	1.953	0.078	0.169	0.015	0.019	0.000	0.000	0.000	0.000	0.000	0.000	1389.78
25	0.6821	1127.5	1147.5	1143.9	0.792	2.799	76.955	17.141	2.030	0.079	0.170	0.015	0.019	0.000	0.000	0.000	0.000	0.000	0.000	1386.09
26	0.6869	1134.6	1154.7	1151.0	0.854	2.725	76.115	17.934	2.078	0.081	0.176	0.016	0.020	0.000	0.000	0.000	0.000	0.000	0.000	1389.91
27	0.6887	1138.5	1158.6	1154.9	0.858	2.660	75.786	18.294	2.098	0.085	0.182	0.016	0.020	0.000	0.000	0.000	0.000	0.000	0.000	1392.74
28	0.6853	1132.2	1152.2	1148.7	0.845	2.743	76.369	17.706	2.049	0.081	0.173	0.015	0.019	0.000	0.000	0.000	0.000	0.000	0.000	1388.52
29	0.6893	1138.8	1158.9	1155.4	0.867	2.679	75.541	18.607	2.029	0.078	0.167	0.014	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1392.66
30	0.6887	1137.6	1157.8	1154.2	0.870	2.695	75.660	18.479	2.016	0.078	0.168	0.015	0.019	0.000	0.000	0.000	0.000	0.000	0.000	1391.73
Avg	0.6914	1142.0	1162.6	1158.9	0.849	2.684	75.449	18.440	2.249	0.091	0.198	0.018	0.022	0.000	0.000	0.000	0.000	0.000	0.000	1394.79

# Gas Composition and Properties

Effective June 1, 2020

Attachment B  
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Source #: 0602160  
Name: FAIRVIEW BORDER

Component	Mole %	Liquid Content	Mass %
Carbon Dioxide, CO2	0.8293		1.8314
Nitrogen, N2	2.7675		3.8903
Methane, C1	75.7861		61.0079
Ethane, C2	17.9414	4.8005	27.0707
Propane, C3	2.3385	0.6446	5.1744
iso-Butane, iC4	0.0868	0.0284	0.2532
n-Butane, nC4	0.2011	0.0634	0.5865
iso-Pentane, iC5	0.0173	0.0063	0.0626
n-Pentane, nC5	0.0219	0.0079	0.0793
Neo-Pentane, NeoC5			
Hexanes Plus, C6+	0.0101	0.0042	0.0437
Water, H2O			
Hydrogen Sulfide, H2S			
Oxygen, O2			
Carbon Monoxide, CO			
Hydrogen, H2			
Helium, He			
Argon, Ar			
<b>Totals</b>	<b>100.0000</b>	<b>5.5540</b>	<b>100.0000</b>

Property	Total Sample	C6 Plus Fraction
Pressure Base	14.730	
Temperature Base	60.00	
HCDP @ Sample Pressure		
Cricondentherm	-12.445	
HV, Dry @ Base P, T	1159.39	
HV, Sat @ Base P, T	1139.21	
HV, Sat @ Sample P, T	1159.39	
Relative Density	0.6899	

C6+: 100

## Sample

Date: 06/01/2020      Pressure:  
Type:                      Temperature:  
Tech: Zach Curtiss      H2O:                      lbs/mm  
   H2S:                      ppm

Remarks:

## Analysis

Date: 06/01/2020      Instrument:  
   Cylinder:      327  
Tech: Zach Curtiss

Remarks:

# Gas Composition and Properties

Effective June 1, 2020

Attachment B  
Page 4 of 24

Source #: 0602225  
Name: WATFORD CITY WEST BORDER

Component	Mole %	Liquid Content	Mass %
Carbon Dioxide, CO2	0.8393		1.8514
Nitrogen, N2	2.7446		3.8538
Methane, C1	75.6658		60.8433
Ethane, C2	18.0581	4.8318	27.2165
Propane, C3	2.3475	0.6470	5.1885
iso-Butane, iC4	0.0886	0.0290	0.2581
n-Butane, nC4	0.2055	0.0648	0.5987
iso-Pentane, iC5	0.0181	0.0066	0.0655
n-Pentane, nC5	0.0230	0.0083	0.0832
Neo-Pentane, NeoC5			
Hexanes Plus, C6+	0.0095	0.0039	0.0410
Water, H2O			
Hydrogen Sulfide, H2S			
Oxygen, O2			
Carbon Monoxide, CO			
Hydrogen, H2			
Helium, He			
Argon, Ar			
<b>Totals</b>	<b>100.0000</b>	<b>5.5920</b>	<b>100.0000</b>

Property	Total Sample	C6 Plus Fraction
Pressure Base	14.730	
Temperature Base	60.00	
HCDP @ Sample Pressure		
Cricodentherm	-12.005	
HV, Dry @ Base P, T	1160.73	
HV, Sat @ Base P, T	1140.53	
HV, Sat @ Sample P, T	1160.73	
Relative Density	0.6907	

C6+: 100

## Sample

Date: 06/01/2020      Pressure:  
Type:                      Temperature:  
Tech: Zach Curtiss      H2O:                      lbs/mm  
   H2S:                      ppm

Remarks:

## Analysis

Date: 06/01/2020      Instrument:  
   Cylinder:      359  
Tech: Zach Curtiss

Remarks:

# Source Daily Summary

June 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	0.6892	1120.0	1139.9		0.551	4.298	75.914	15.918	3.079	0.069	0.151	0.009	0.010	0.000					1369.83	
2	0.6921	1126.1	1146.0		0.547	4.207	75.505	16.274	3.205	0.074	0.167	0.011	0.012	0.000					1374.35	
3	0.6711	1100.5	1120.0		0.426	3.975	78.648	14.464	2.315	0.049	0.108	0.007	0.008	0.000					1364.04	
4	0.6556	1081.8	1100.9		0.341	3.789	81.056	12.978	1.722	0.034	0.070	0.005	0.006	0.000					1356.58	
5	0.6644	1095.7	1115.1		0.379	3.712	79.597	14.184	2.001	0.037	0.077	0.006	0.007	0.000					1364.90	
6	0.6584	1087.4	1106.6		0.350	3.699	80.532	13.555	1.745	0.034	0.072	0.006	0.006	0.000					1360.68	
7	0.6699	1105.2	1124.8		0.409	3.601	78.668	15.066	2.123	0.039	0.081	0.006	0.007	0.000					1371.10	
8	0.6662	1099.8	1119.3		0.392	3.613	79.277	14.574	2.013	0.040	0.079	0.006	0.007	0.000					1368.14	
9	0.6599	1089.6	1108.9		0.356	3.689	80.399	13.538	1.895	0.037	0.074	0.005	0.006	0.000					1362.00	
10	0.6610	1090.2	1109.5		0.374	3.734	80.257	13.548	1.958	0.038	0.078	0.005	0.006	0.000					1361.49	
11	0.6641	1095.1	1114.5		0.374	3.728	79.661	14.105	2.003	0.040	0.078	0.005	0.006	0.000					1364.45	
12	0.6652	1097.0	1116.4		0.374	3.711	79.458	14.317	2.012	0.039	0.076	0.006	0.007	0.000					1365.73	
13	0.6640	1095.8	1115.2		0.354	3.702	79.481	14.524	1.816	0.037	0.074	0.006	0.007	0.000					1365.50	
14	0.6646	1095.6	1115.0		0.383	3.736	79.489	14.342	1.914	0.039	0.083	0.006	0.007	0.000					1364.48	
15	0.6694	1100.3	1119.7		0.472	3.760	78.961	14.429	2.215	0.045	0.103	0.007	0.008	0.000					1365.45	
16	0.6578	1085.3	1104.6		0.331	3.796	80.578	13.492	1.674	0.035	0.082	0.006	0.007	0.000					1358.76	
17	0.6543	1078.7	1097.8		0.332	3.869	81.098	13.081	1.496	0.033	0.078	0.006	0.007	0.001					1354.08	
18	0.6736	1104.7	1124.3		0.521	3.813	78.274	14.893	2.314	0.049	0.115	0.008	0.010	0.002					1366.65	
19	0.6705	1099.2	1118.7		0.503	3.881	78.836	14.322	2.279	0.047	0.112	0.008	0.009	0.002					1363.04	
20	0.6751	1105.7	1125.2		0.542	3.864	78.087	14.919	2.392	0.052	0.123	0.009	0.011	0.002					1366.29	
21	0.6752	1105.2	1124.7		0.557	3.878	78.148	14.768	2.452	0.052	0.124	0.009	0.011	0.002					1365.61	
22	0.6691	1100.2	1119.7		0.461	3.753	78.898	14.614	2.124	0.042	0.093	0.007	0.008	0.000					1365.67	
23	0.6636	1095.1	1114.5		0.346	3.727	79.421	14.668	1.724	0.032	0.069	0.006	0.006	0.000					1364.96	
24	0.6486	1072.1	1091.1		0.331	3.734	82.315	11.952	1.558	0.032	0.067	0.006	0.007	0.000					1351.72	
25	0.6635	1092.9	1112.3		0.489	3.633	79.731	14.192	1.833	0.036	0.073	0.006	0.007	0.000					1362.30	
26	0.6659	1093.5	1112.9		0.542	3.736	79.593	13.905	2.067	0.044	0.093	0.008	0.010	0.002					1360.65	
27	0.6608	1087.4	1106.7		0.437	3.792	80.395	13.248	1.987	0.043	0.085	0.006	0.007	0.000					1358.22	
28	0.6648	1092.3	1111.6		0.523	3.743	79.617	14.050	1.922	0.040	0.086	0.007	0.009	0.001					1360.17	
29	0.6744	1107.6	1127.2		0.590	3.605	77.836	15.808	2.020	0.041	0.086	0.006	0.007	0.000					1369.47	
30	0.6717	1102.1	1121.7		0.618	3.647	78.490	15.024	2.055	0.046	0.099	0.008	0.010	0.002					1365.37	
Avg	0.6668	1097.0	1116.2		0.440	3.781	79.274	14.292	2.064	0.042	0.092	0.007	0.008	0.000					1363.72	

# Source Daily Summary

June 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	0.7467	1168.0	1188.7	1185.1	0.901	6.232	67.106	19.833	5.431	0.147	0.316	0.016	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1372.41
2	0.7467	1168.1	1188.8	1185.3	0.905	6.214	67.139	19.799	5.452	0.144	0.315	0.016	0.016	0.000	0.000	0.000	0.000	0.000	0.000	1372.58
3	0.7557	1184.7	1205.7	1202.1	0.904	6.051	66.125	20.306	6.001	0.174	0.394	0.023	0.024	0.000	0.000	0.000	0.000	0.000	0.000	1383.67
4	0.7379	1168.5	1189.2	1185.8	0.857	5.445	68.448	19.810	4.994	0.129	0.284	0.016	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1381.30
5	0.7072	1156.1	1176.6	1173.1	0.730	3.510	72.948	19.111	3.480	0.067	0.134	0.009	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1395.82
6	0.7071	1157.7	1178.2	1174.8	0.706	3.442	72.953	19.189	3.496	0.065	0.130	0.009	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1397.81
7	0.7060	1155.3	1175.8	1172.2	0.716	3.473	73.044	19.188	3.360	0.066	0.132	0.010	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1395.98
8	0.7068	1157.4	1177.9	1174.5	0.706	3.433	72.951	19.249	3.449	0.064	0.129	0.009	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1397.80
9	0.7049	1155.3	1175.7	1172.4	0.693	3.402	73.277	19.024	3.389	0.066	0.128	0.009	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1397.10
10	0.7062	1156.8	1177.3	1173.9	0.697	3.424	73.146	19.007	3.507	0.069	0.130	0.009	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1397.65
11	0.7068	1157.5	1178.0	1174.5	0.705	3.429	73.027	19.113	3.505	0.068	0.133	0.009	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1397.87
12	0.7058	1155.2	1175.7	1172.3	0.701	3.474	73.218	18.889	3.498	0.069	0.131	0.009	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1396.21
13	0.7045	1152.7	1173.1	1169.5	0.699	3.516	73.546	18.439	3.582	0.070	0.129	0.009	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1394.31
14	0.7031	1150.7	1171.1	1167.6	0.689	3.520	73.510	18.783	3.287	0.065	0.126	0.009	0.010	0.000	0.000	0.000	0.000	0.000	0.000	1393.34
15	0.7067	1154.3	1174.7	1171.3	0.727	3.580	72.991	19.045	3.423	0.070	0.142	0.010	0.012	0.000	0.000	0.000	0.000	0.000	0.000	1394.15
16	0.7130	1161.9	1182.5	1178.9	0.810	3.579	72.114	19.539	3.704	0.073	0.156	0.011	0.014	0.000	0.000	0.000	0.000	0.000	0.000	1397.15
17	0.7229	1169.1	1189.8	1186.3	1.007	3.766	70.966	19.677	4.260	0.090	0.202	0.014	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1396.16
18	0.7048	1143.2	1163.4	1160.2	0.875	3.853	73.733	17.687	3.569	0.077	0.177	0.013	0.016	0.000	0.000	0.000	0.000	0.000	0.000	1382.51
19	0.7056	1143.2	1163.4	1160.1	0.893	3.904	73.663	17.594	3.660	0.078	0.179	0.013	0.015	0.000	0.000	0.000	0.000	0.000	0.000	1381.72
20	0.7301	1175.0	1195.8	1192.3	1.117	3.918	70.144	19.711	4.748	0.098	0.228	0.016	0.020	0.000	0.000	0.000	0.000	0.000	0.000	1396.17
21	0.7303	1175.1	1195.9	1192.4	1.119	3.930	70.083	19.769	4.734	0.099	0.229	0.017	0.020	0.000	0.000	0.000	0.000	0.000	0.000	1396.11
22	0.7291	1173.3	1194.1	1190.6	1.120	3.927	70.245	19.693	4.651	0.098	0.229	0.017	0.020	0.000	0.000	0.000	0.000	0.000	0.000	1395.08
23	0.7062	1146.4	1166.7	1163.1	0.883	3.778	73.587	17.744	3.749	0.073	0.160	0.012	0.014	0.000	0.000	0.000	0.000	0.000	0.000	1385.05
24	0.6975	1139.7	1159.8	1156.2	0.708	3.637	74.574	17.660	3.215	0.059	0.126	0.009	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1385.50
25	0.6974	1141.7	1161.9	1158.4	0.722	3.477	74.608	17.815	3.171	0.062	0.124	0.009	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1388.11
26	0.7018	1147.2	1167.5	1163.9	0.810	3.426	73.547	19.074	2.956	0.057	0.112	0.008	0.010	0.000	0.000	0.000	0.000	0.000	0.000	1390.42
27	0.7036	1148.5	1168.8	1164.9	0.851	3.456	73.351	19.095	3.032	0.064	0.128	0.010	0.013	0.000	0.000	0.000	0.000	0.000	0.000	1390.13
28	0.6991	1141.5	1161.7	1158.3	0.780	3.561	74.455	17.675	3.305	0.070	0.134	0.009	0.010	0.000	0.000	0.000	0.000	0.000	0.000	1386.20
29	0.6983	1139.3	1159.5	1155.9	0.821	3.560	74.250	18.246	2.916	0.061	0.124	0.009	0.012	0.000	0.000	0.000	0.000	0.000	0.000	1384.28
30	0.7058	1151.7	1172.1	1168.7	0.900	3.390	72.773	19.848	2.890	0.061	0.122	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	1391.96
Avg	0.7132	1156.0	1177.0	1173.5	0.825	3.910	72.184	18.987	3.814	0.082	0.173	0.012	0.014	0.000	0.000	0.000	0.000	0.000	0.000	1390.49

# Source Daily Summary

June 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	0.7530	1176.4	1197.2	1193.9	0.923	6.276	66.363	20.053	5.826	0.163	0.358	0.019	0.019	0.000	0.000	0.000	0.000	0.000	0.000	1376.44
2	0.7539	1177.7	1198.5	1195.2	0.924	6.279	66.272	20.078	5.865	0.167	0.373	0.021	0.022	0.000	0.000	0.000	0.000	0.000	0.000	1377.13
3	0.7490	1168.3	1188.9	1185.6	0.933	6.379	66.779	19.874	5.524	0.150	0.326	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1370.64
4	0.7502	1171.1	1191.8	1188.5	0.931	6.330	66.652	19.946	5.607	0.156	0.342	0.018	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1372.78
5	0.7501	1172.1	1192.8	1189.5	0.928	6.257	66.697	19.980	5.602	0.156	0.343	0.018	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1374.09
6	0.7466	1170.8	1191.6	1188.3	0.917	6.027	67.168	19.980	5.399	0.149	0.323	0.018	0.019	0.000	0.000	0.000	0.000	0.000	0.000	1375.80
7	0.7471	1171.2	1191.9	1188.6	0.914	6.055	67.084	20.010	5.434	0.148	0.320	0.017	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1375.78
8	0.7485	1171.2	1192.0	1188.7	0.922	6.172	66.858	20.044	5.492	0.151	0.326	0.017	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1374.56
9	0.7466	1170.2	1190.9	1187.6	0.913	6.069	67.136	19.985	5.402	0.146	0.315	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1375.10
10	0.7465	1172.2	1193.0	1189.7	0.907	5.943	67.202	20.019	5.435	0.145	0.314	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1377.60
11	0.7468	1172.5	1193.3	1189.9	0.908	5.959	67.160	20.020	5.453	0.147	0.318	0.017	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1377.57
12	0.7461	1169.4	1190.1	1186.8	0.910	6.078	67.199	19.944	5.376	0.145	0.313	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1374.58
13	0.7462	1170.1	1190.8	1187.5	0.909	6.042	67.213	19.955	5.382	0.147	0.317	0.017	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1375.38
14	0.7475	1171.7	1192.4	1189.1	0.916	6.060	67.069	19.966	5.469	0.152	0.331	0.018	0.019	0.000	0.000	0.000	0.000	0.000	0.000	1376.01
15	0.7478	1170.9	1191.6	1188.3	0.918	6.130	66.988	19.996	5.454	0.150	0.328	0.018	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1374.81
16	0.7481	1168.7	1189.4	1186.0	0.932	6.273	66.875	19.970	5.447	0.147	0.320	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1371.96
17	0.7492	1174.3	1195.1	1191.8	0.920	6.055	66.867	20.056	5.548	0.163	0.352	0.019	0.020	0.000	0.000	0.000	0.000	0.000	0.000	1377.53
18	0.7466	1167.7	1188.3	1185.1	0.929	6.204	67.139	19.835	5.368	0.156	0.333	0.018	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1372.12
19	0.7466	1166.8	1187.5	1184.2	0.932	6.246	67.104	19.850	5.363	0.150	0.322	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1371.17
20	0.7481	1168.5	1189.2	1185.9	0.931	6.291	66.875	19.949	5.434	0.154	0.330	0.017	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1371.71
21	0.7476	1167.2	1187.8	1184.6	0.935	6.314	66.954	19.878	5.399	0.154	0.331	0.017	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1370.68
22	0.7467	1167.2	1187.9	1184.7	0.945	6.213	67.113	19.850	5.362	0.152	0.328	0.018	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1371.54
23	0.7435	1168.4	1189.1	1185.8	0.955	5.825	67.722	19.731	5.260	0.148	0.323	0.018	0.019	0.000	0.000	0.000	0.000	0.000	0.000	1375.89
24	0.7468	1171.4	1192.1	1188.8	0.923	6.004	67.216	19.890	5.431	0.158	0.341	0.019	0.019	0.000	0.000	0.000	0.000	0.000	0.000	1376.29
25	0.7462	1171.0	1191.8	1188.5	0.906	5.992	67.333	19.815	5.403	0.159	0.350	0.020	0.022	0.000	0.000	0.000	0.000	0.000	0.000	1376.45
26	0.7474	1175.7	1196.5	1193.2	0.906	5.821	67.228	19.996	5.481	0.164	0.360	0.021	0.023	0.000	0.000	0.000	0.000	0.000	0.000	1380.82
27	0.7467	1175.6	1196.5	1193.1	0.921	5.736	67.240	20.192	5.364	0.158	0.346	0.021	0.022	0.000	0.000	0.000	0.000	0.000	0.000	1381.41
28	0.7482	1178.1	1198.9	1195.6	0.921	5.725	67.071	20.258	5.462	0.162	0.356	0.021	0.023	0.000	0.000	0.000	0.000	0.000	0.000	1382.90
29	0.7482	1177.4	1198.3	1194.9	0.912	5.781	67.166	20.019	5.541	0.168	0.367	0.022	0.024	0.000	0.000	0.000	0.000	0.000	0.000	1382.08
30	0.7488	1175.1	1195.9	1192.6	0.934	5.950	66.880	20.231	5.451	0.161	0.350	0.021	0.022	0.000	0.000	0.000	0.000	0.000	0.000	1378.79
Avg	0.7478	1172.0	1192.4	1189.1	0.923	6.083	67.021	19.979	5.468	0.154	0.335	0.018	0.019	0.000	0.000	0.000	0.000	0.000	0.000	1375.65

# Gas Composition and Properties

Effective June 1, 2020

Attachment B  
Page 8 of 24

Source #: 2501030  
Name: LIGNITE PLANT

Component	Mole %	Liquid Content	Mass %
Carbon Dioxide, CO2	0.2090		0.4719
Nitrogen, N2	2.9181		4.1939
Methane, C1	77.1872		63.5284
Ethane, C2	17.7371	4.7453	27.3623
Propane, C3	1.9074	0.5257	4.3151
iso-Butane, iC4	0.0221	0.0072	0.0659
n-Butane, nC4	0.0152	0.0048	0.0453
iso-Pentane, iC5			
n-Pentane, nC5			
Neo-Pentane, NeoC5			
Hexanes Plus, C6+	0.0039	0.0016	0.0172
Water, H2O			
Hydrogen Sulfide, H2S			
Oxygen, O2			
Carbon Monoxide, CO			
Hydrogen, H2			
Helium, He			
Argon, Ar			
<b>Totals</b>	<b>100.0000</b>	<b>5.2850</b>	<b>100.0000</b>

Property	Total Sample	C6 Plus Fraction
Pressure Base	14.730	
Temperature Base	60.00	
HCDP @ Sample Pressure		
Cricodentherm	-27.074	
HV, Dry @ Base P, T	1148.86	
HV, Sat @ Base P, T	1128.87	
HV, Sat @ Sample P, T	1148.86	
Relative Density	0.6747	
C6+: 100		

## Sample

Date: 06/01/2020      Pressure:  
 Type:                      Temperature:  
 Tech: Zach Curtiss      H2O:                      lbs/mm  
    H2S:                      ppm

Remarks:

## Analysis

Date: 06/01/2020      Instrument:  
    Cylinder:      390  
 Tech: Zach Curtiss

Remarks:

Zone 263

# Gas Composition and Properties

Effective June 1, 2020

Attachment B  
Page 9 of 24

Source #: 3002013  
Name: EPPING BORDER

Component	Mole %	Liquid Content	Mass %
Carbon Dioxide, CO2	0.7922		1.7584
Nitrogen, N2	2.8631		4.0451
Methane, C1	76.4731		61.8738
Ethane, C2	17.1880	4.5987	26.0658
Propane, C3	2.3233	0.6403	5.1669
iso-Butane, iC4	0.0952	0.0312	0.2791
n-Butane, nC4	0.2212	0.0698	0.6484
iso-Pentane, iC5	0.0184	0.0067	0.0670
n-Pentane, nC5	0.0217	0.0079	0.0790
Neo-Pentane, NeoC5			
Hexanes Plus, C6+	0.0038	0.0016	0.0165
Water, H2O			
Hydrogen Sulfide, H2S			
Oxygen, O2			
Carbon Monoxide, CO			
Hydrogen, H2			
Helium, He			
Argon, Ar			
<b>Totals</b>	<b>100.0000</b>	<b>5.3570</b>	<b>100.0000</b>

Property	Total Sample	C6 Plus Fraction
Pressure Base	14.730	
Temperature Base	60.00	
HCDP @ Sample Pressure		
Cricodentherm	-14.429	
HV, Dry @ Base P, T	1153.20	
HV, Sat @ Base P, T	1133.13	
HV, Sat @ Sample P, T	1153.20	
Relative Density	0.6864	
C6+: 100		

## Sample

Date: 06/01/2020      Pressure:  
Type:                      Temperature:  
Tech: Zach Curtiss      H2O:                      lbs/mm  
   H2S:                      ppm

Remarks:

## Analysis

Date: 06/01/2020      Instrument:  
   Cylinder:      379  
Tech: Zach Curtiss

Remarks:

\*\*\* End of Report \*\*\*

# Source Daily Summary

June 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	0.7068	1156.3	1176.8	1173.6	0.722	3.477	72.946	19.219	3.415	0.064	0.136	0.010	0.012	0.000	0.000	0.000	0.000	0.000	0.000	1396.44
2	0.7086	1158.6	1179.1	1175.8	0.734	3.488	72.680	19.384	3.486	0.066	0.139	0.010	0.012	0.000	0.000	0.000	0.000	0.000	0.000	1397.38
3	0.7088	1159.1	1179.7	1176.4	0.742	3.462	72.703	19.328	3.535	0.067	0.141	0.010	0.012	0.000	0.000	0.000	0.000	0.000	0.000	1397.85
4	0.7078	1158.2	1178.7	1175.4	0.723	3.456	72.804	19.336	3.457	0.065	0.138	0.010	0.012	0.000	0.000	0.000	0.000	0.000	0.000	1397.67
5	0.7060	1155.2	1175.7	1172.4	0.724	3.464	73.124	19.049	3.421	0.065	0.132	0.009	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1395.89
6	0.7073	1158.1	1178.6	1175.4	0.713	3.422	72.944	19.196	3.511	0.065	0.129	0.009	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1398.15
7	0.7063	1156.0	1176.5	1173.2	0.717	3.455	73.022	19.199	3.389	0.066	0.132	0.009	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1396.55
8	0.7060	1156.4	1176.9	1173.7	0.705	3.419	73.072	19.192	3.402	0.063	0.127	0.009	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1397.38
9	0.7054	1156.2	1176.7	1173.5	0.692	3.401	73.171	19.126	3.398	0.065	0.127	0.009	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1397.64
10	0.7059	1156.6	1177.1	1173.9	0.704	3.402	73.189	18.993	3.493	0.069	0.130	0.009	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1397.68
11	0.7068	1157.6	1178.1	1174.9	0.707	3.418	73.070	19.048	3.535	0.069	0.133	0.009	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1398.01
12	0.7055	1155.1	1175.6	1172.4	0.693	3.468	73.173	19.034	3.416	0.067	0.129	0.009	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1396.35
13	0.7051	1153.7	1174.1	1170.9	0.699	3.508	73.499	18.425	3.648	0.070	0.130	0.009	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1394.97
14	0.7048	1153.5	1173.9	1170.7	0.702	3.490	73.274	18.945	3.375	0.067	0.127	0.009	0.010	0.000	0.000	0.000	0.000	0.000	0.000	1395.04
15	0.7078	1155.7	1176.2	1173.0	0.737	3.582	72.849	19.105	3.489	0.072	0.144	0.010	0.012	0.000	0.000	0.000	0.000	0.000	0.000	1394.75
16	0.7109	1159.1	1179.6	1176.4	0.786	3.589	72.395	19.390	3.592	0.071	0.153	0.011	0.013	0.000	0.000	0.000	0.000	0.000	0.000	1395.82
17	0.7298	1176.7	1197.6	1194.2	1.108	3.800	70.146	19.895	4.697	0.097	0.222	0.016	0.019	0.000	0.000	0.000	0.000	0.000	0.000	1398.49
18	0.7270	1171.8	1192.5	1189.3	1.102	3.843	70.538	19.641	4.517	0.097	0.225	0.017	0.020	0.000	0.000	0.000	0.000	0.000	0.000	1395.38
19	0.7283	1172.8	1193.6	1190.3	1.117	3.887	70.349	19.692	4.595	0.098	0.226	0.016	0.020	0.000	0.000	0.000	0.000	0.000	0.000	1395.26
20	0.7302	1175.1	1195.9	1192.6	1.117	3.919	70.143	19.694	4.765	0.098	0.228	0.016	0.020	0.000	0.000	0.000	0.000	0.000	0.000	1396.22
21	0.7285	1172.0	1192.8	1189.5	1.116	3.950	70.335	19.621	4.610	0.099	0.231	0.017	0.020	0.000	0.000	0.000	0.000	0.000	0.000	1394.19
22	0.7287	1172.6	1193.4	1190.1	1.118	3.934	70.303	19.651	4.630	0.098	0.229	0.017	0.020	0.000	0.000	0.000	0.000	0.000	0.000	1394.66
23	0.7136	1154.8	1175.3	1172.0	0.964	3.837	72.517	18.339	4.048	0.083	0.183	0.013	0.016	0.000	0.000	0.000	0.000	0.000	0.000	1387.97
24	0.7026	1146.8	1167.1	1163.8	0.760	3.599	73.858	18.109	3.458	0.062	0.133	0.009	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1389.13
25	0.6993	1143.5	1163.7	1160.4	0.740	3.523	74.296	18.002	3.225	0.063	0.130	0.010	0.012	0.000	0.000	0.000	0.000	0.000	0.000	1388.34
26	0.7001	1145.3	1165.5	1162.2	0.776	3.439	73.948	18.605	3.039	0.059	0.116	0.009	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1389.70
27	0.7042	1149.5	1169.8	1166.4	0.863	3.435	73.182	19.328	2.979	0.062	0.126	0.010	0.014	0.000	0.000	0.000	0.000	0.000	0.000	1390.75
28	0.6998	1142.9	1163.1	1159.8	0.795	3.526	74.159	18.140	3.173	0.064	0.125	0.009	0.010	0.000	0.000	0.000	0.000	0.000	0.000	1387.12
29	0.6970	1137.1	1157.3	1153.9	0.791	3.621	74.743	17.473	3.143	0.070	0.137	0.010	0.012	0.000	0.000	0.000	0.000	0.000	0.000	1382.81
30	0.7060	1152.4	1172.8	1169.4	0.888	3.395	72.716	19.913	2.887	0.060	0.122	0.007	0.011	0.000	0.000	0.000	0.000	0.000	0.000	1392.43
Avg	0.7102	1157.0	1177.8	1174.5	0.825	3.574	72.638	19.069	3.644	0.073	0.153	0.011	0.013	0.000	0.000	0.000	0.000	0.000	0.000	1394.33

# Source Daily Summary

June 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	0.7428	1166.6	1187.2	1183.3	0.904	5.953	67.934	19.308	5.391	0.149	0.328	0.017	0.016	0.000	0.000	0.000	0.000	0.000	0.000	1374.22
2	0.7535	1180.3	1201.2	1197.1	0.904	6.109	66.461	20.009	5.915	0.172	0.388	0.021	0.021	0.000	0.000	0.000	0.000	0.000	0.000	1380.56
3	0.7450	1166.4	1187.0	1183.1	0.912	6.155	67.455	19.585	5.388	0.149	0.324	0.016	0.016	0.000	0.000	0.000	0.000	0.000	0.000	1372.03
4	0.7493	1171.7	1192.4	1188.5	0.913	6.240	66.809	19.920	5.583	0.156	0.345	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1374.24
5	0.7493	1172.8	1193.6	1189.6	0.910	6.171	66.839	19.959	5.579	0.157	0.348	0.018	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1375.59
6	0.7464	1172.2	1193.0	1189.0	0.900	5.947	67.250	19.972	5.414	0.152	0.330	0.018	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1377.60
7	0.7457	1170.7	1191.4	1187.4	0.895	5.982	67.334	19.884	5.400	0.148	0.322	0.016	0.016	0.000	0.000	0.000	0.000	0.000	0.000	1376.47
8	0.7472	1171.1	1191.9	1187.9	0.904	6.083	67.083	19.974	5.445	0.151	0.328	0.016	0.016	0.000	0.000	0.000	0.000	0.000	0.000	1375.61
9	0.7458	1170.8	1191.5	1187.6	0.895	5.986	67.266	19.987	5.369	0.147	0.318	0.016	0.016	0.000	0.000	0.000	0.000	0.000	0.000	1376.48
10	0.7454	1172.0	1192.7	1188.7	0.889	5.888	67.358	19.995	5.381	0.144	0.314	0.016	0.016	0.000	0.000	0.000	0.000	0.000	0.000	1378.21
11	0.7460	1173.0	1193.8	1189.8	0.890	5.874	67.308	20.009	5.416	0.148	0.322	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1378.93
12	0.7455	1170.4	1191.1	1187.1	0.892	5.987	67.331	19.918	5.373	0.147	0.318	0.016	0.016	0.000	0.000	0.000	0.000	0.000	0.000	1376.29
13	0.7453	1170.7	1191.4	1187.4	0.891	5.958	67.392	19.874	5.380	0.149	0.322	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1376.73
14	0.7465	1172.3	1193.0	1189.0	0.896	5.965	67.284	19.860	5.470	0.154	0.336	0.018	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1377.50
15	0.7471	1172.1	1192.9	1188.9	0.899	6.026	67.117	19.994	5.443	0.152	0.334	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1376.80
16	0.7475	1169.6	1190.3	1186.3	0.915	6.191	67.020	19.907	5.456	0.150	0.328	0.016	0.016	0.000	0.000	0.000	0.000	0.000	0.000	1373.49
17	0.7483	1174.8	1195.6	1191.6	0.904	5.967	67.049	19.998	5.525	0.164	0.356	0.019	0.019	0.000	0.000	0.000	0.000	0.000	0.000	1378.80
18	0.7457	1168.8	1189.5	1185.5	0.908	6.086	67.302	19.842	5.335	0.157	0.336	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1374.14
19	0.7460	1167.7	1188.4	1184.4	0.914	6.165	67.217	19.848	5.346	0.152	0.326	0.016	0.016	0.000	0.000	0.000	0.000	0.000	0.000	1372.68
20	0.7469	1168.6	1189.3	1185.2	0.913	6.199	67.090	19.883	5.395	0.155	0.333	0.016	0.016	0.000	0.000	0.000	0.000	0.000	0.000	1372.88
21	0.7467	1167.8	1188.5	1184.5	0.917	6.222	67.112	19.859	5.368	0.155	0.334	0.017	0.016	0.000	0.000	0.000	0.000	0.000	0.000	1372.15
22	0.7462	1168.2	1188.9	1184.9	0.926	6.135	67.213	19.862	5.345	0.153	0.332	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1373.08
23	0.7426	1167.1	1187.8	1183.8	0.935	5.853	67.820	19.692	5.202	0.147	0.318	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1375.06
24	0.7457	1171.4	1192.1	1188.0	0.899	5.934	67.447	19.774	5.399	0.160	0.350	0.019	0.019	0.000	0.000	0.000	0.000	0.000	0.000	1377.22
25	0.7451	1171.5	1192.2	1188.2	0.881	5.902	67.562	19.717	5.375	0.163	0.360	0.020	0.021	0.000	0.000	0.000	0.000	0.000	0.000	1377.88
26	0.7475	1177.5	1198.4	1194.2	0.889	5.744	67.285	19.994	5.504	0.169	0.372	0.022	0.022	0.000	0.000	0.000	0.000	0.000	0.000	1382.75
27	0.7441	1175.0	1195.8	1191.5	0.904	5.558	67.667	20.089	5.242	0.157	0.343	0.020	0.021	0.000	0.000	0.000	0.000	0.000	0.000	1382.96
28	0.7481	1178.5	1199.4	1195.1	0.901	5.722	67.155	20.146	5.497	0.166	0.368	0.021	0.022	0.000	0.000	0.000	0.000	0.000	0.000	1383.36
29	0.7470	1176.4	1197.3	1193.1	0.894	5.761	67.393	19.847	5.521	0.169	0.372	0.021	0.022	0.000	0.000	0.000	0.000	0.000	0.000	1381.88
30	0.7480	1175.8	1196.6	1192.6	0.918	5.859	66.985	20.301	5.388	0.160	0.349	0.019	0.020	0.000	0.000	0.000	0.000	0.000	0.000	1380.23
Avg	0.7465	1172.0	1192.5	1188.4	0.904	5.987	67.251	19.900	5.428	0.155	0.339	0.018	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1376.86

# Source Daily Summary

June 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	0.7414	1161.6	1182.2	1179.1	0.908	6.110	67.974	19.302	5.236	0.140	0.299	0.015	0.015	0.000	0.000	0.000	0.000	0.000	0.000	1369.78
2	0.7431	1166.7	1187.4	1184.2	0.910	5.963	67.854	19.398	5.371	0.148	0.323	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1374.11
3	0.7542	1181.5	1202.4	1199.2	0.911	6.094	66.355	20.103	5.932	0.173	0.387	0.022	0.022	0.000	0.000	0.000	0.000	0.000	0.000	1381.25
4	0.7447	1165.9	1186.5	1183.4	0.918	6.152	67.488	19.583	5.358	0.148	0.319	0.017	0.016	0.000	0.000	0.000	0.000	0.000	0.000	1371.63
5	0.7495	1171.3	1192.1	1188.9	0.921	6.268	66.751	19.966	5.568	0.155	0.337	0.018	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1373.61
6	0.7492	1171.9	1192.7	1189.5	0.918	6.200	66.832	19.964	5.555	0.155	0.339	0.018	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1374.64
7	0.7465	1171.7	1192.5	1189.4	0.907	5.977	67.195	20.009	5.404	0.150	0.322	0.018	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1376.94
8	0.7462	1171.4	1192.2	1189.1	0.902	5.975	67.221	20.008	5.394	0.148	0.318	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1376.88
9	0.7476	1171.3	1192.1	1188.9	0.912	6.098	67.003	20.037	5.441	0.151	0.323	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1375.40
10	0.7459	1170.4	1191.2	1188.0	0.904	6.010	67.234	19.996	5.364	0.146	0.313	0.017	0.016	0.000	0.000	0.000	0.000	0.000	0.000	1375.90
11	0.7456	1171.7	1192.4	1189.2	0.898	5.916	67.316	19.998	5.384	0.144	0.311	0.017	0.016	0.000	0.000	0.000	0.000	0.000	0.000	1377.62
12	0.7462	1172.9	1193.7	1190.5	0.897	5.892	67.267	20.029	5.416	0.147	0.317	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1378.55
13	0.7460	1170.8	1191.5	1188.3	0.900	6.001	67.244	19.978	5.381	0.147	0.315	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1376.22
14	0.7459	1171.1	1191.9	1188.7	0.897	5.976	67.266	19.978	5.382	0.149	0.318	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1376.75
15	0.7473	1173.3	1194.1	1190.9	0.901	5.967	67.137	19.992	5.478	0.154	0.333	0.018	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1378.00
16	0.7474	1172.1	1192.9	1189.8	0.907	6.039	67.062	20.024	5.448	0.152	0.331	0.019	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1376.59
17	0.7475	1169.2	1189.9	1186.9	0.922	6.206	66.967	19.972	5.430	0.148	0.321	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1373.08
18	0.7486	1174.6	1195.4	1192.2	0.912	5.999	66.969	20.049	5.519	0.163	0.350	0.019	0.019	0.000	0.000	0.000	0.000	0.000	0.000	1378.25
19	0.7458	1168.4	1189.1	1185.9	0.916	6.107	67.280	19.840	5.335	0.155	0.331	0.018	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1373.60
20	0.7461	1167.3	1188.0	1184.8	0.922	6.186	67.195	19.853	5.339	0.151	0.321	0.017	0.016	0.000	0.000	0.000	0.000	0.000	0.000	1372.10
21	0.7475	1168.9	1189.6	1186.5	0.921	6.220	66.995	19.942	5.405	0.155	0.329	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1372.72
22	0.7471	1167.9	1188.6	1185.4	0.924	6.242	67.038	19.907	5.371	0.154	0.329	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1371.86
23	0.7466	1168.2	1188.9	1185.7	0.933	6.161	67.152	19.881	5.357	0.153	0.328	0.018	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1372.69
24	0.7426	1166.4	1187.0	1183.8	0.933	5.896	67.804	19.678	5.193	0.146	0.314	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1374.24
25	0.7457	1170.9	1191.7	1188.6	0.905	5.952	67.406	19.813	5.383	0.158	0.343	0.019	0.019	0.000	0.000	0.000	0.000	0.000	0.000	1376.76
26	0.7448	1170.7	1191.4	1188.2	0.882	5.917	67.591	19.706	5.344	0.162	0.356	0.021	0.021	0.000	0.000	0.000	0.000	0.000	0.000	1377.25
27	0.7478	1177.4	1198.3	1195.1	0.896	5.765	67.203	20.061	5.496	0.168	0.366	0.022	0.023	0.000	0.000	0.000	0.000	0.000	0.000	1382.44
28	0.7431	1173.8	1194.6	1191.4	0.918	5.519	67.747	20.147	5.147	0.152	0.329	0.020	0.021	0.000	0.000	0.000	0.000	0.000	0.000	1382.50
29	0.7479	1178.0	1198.9	1195.7	0.909	5.725	67.129	20.210	5.457	0.164	0.360	0.022	0.023	0.000	0.000	0.000	0.000	0.000	0.000	1382.98
30	0.7471	1176.1	1196.9	1193.8	0.900	5.779	67.329	19.917	5.498	0.167	0.363	0.022	0.024	0.000	0.000	0.000	0.000	0.000	0.000	1381.51
Avg	0.7465	1171.0	1191.9	1188.7	0.910	6.010	67.234	19.911	5.413	0.153	0.332	0.018	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1376.19

Zone 272

# Source Daily Summary

June 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	0.7419	1162.0	1182.6	1179.6	0.909	6.143	67.884	19.330	5.261	0.141	0.302	0.016	0.015	0.000	0.000	0.000	0.000	0.000	0.000	1369.65
2	0.7436	1166.7	1187.3	1184.3	0.911	6.012	67.758	19.427	5.390	0.148	0.322	0.017	0.016	0.000	0.000	0.000	0.000	0.000	0.000	1373.59
3	0.7577	1187.9	1209.0	1205.7	0.909	6.039	65.976	20.264	6.153	0.186	0.422	0.025	0.026	0.000	0.000	0.000	0.000	0.000	0.000	1385.46
4	0.7456	1166.9	1187.5	1184.5	0.919	6.174	67.361	19.634	5.406	0.150	0.323	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1371.99
5	0.7496	1171.3	1192.1	1189.0	0.922	6.274	66.743	19.961	5.571	0.155	0.338	0.018	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1373.52
6	0.7488	1170.9	1191.6	1188.5	0.919	6.229	66.873	19.915	5.538	0.154	0.337	0.018	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1373.78
7	0.7469	1172.0	1192.7	1189.7	0.909	5.998	67.150	20.000	5.428	0.151	0.327	0.018	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1376.84
8	0.7457	1170.5	1191.3	1188.3	0.902	5.983	67.290	19.959	5.370	0.147	0.316	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1376.30
9	0.7476	1171.1	1191.8	1188.8	0.912	6.111	67.009	20.015	5.444	0.151	0.324	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1375.15
10	0.7461	1170.4	1191.1	1188.0	0.905	6.023	67.219	19.990	5.369	0.146	0.314	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1375.72
11	0.7460	1172.0	1192.8	1189.7	0.899	5.928	67.267	20.008	5.406	0.145	0.314	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1377.69
12	0.7458	1172.2	1192.9	1189.8	0.898	5.897	67.321	19.991	5.396	0.146	0.316	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1378.08
13	0.7459	1170.4	1191.1	1188.1	0.901	6.016	67.257	19.947	5.382	0.147	0.316	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1375.85
14	0.7456	1170.4	1191.2	1188.1	0.896	5.990	67.306	19.944	5.364	0.148	0.317	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1376.23
15	0.7472	1173.1	1193.9	1190.8	0.902	5.974	67.151	19.973	5.476	0.154	0.334	0.019	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1377.80
16	0.7476	1172.2	1193.0	1190.0	0.910	6.051	67.040	20.012	5.465	0.152	0.333	0.019	0.019	0.000	0.000	0.000	0.000	0.000	0.000	1376.48
17	0.7469	1168.1	1188.8	1185.9	0.921	6.220	67.038	19.925	5.398	0.147	0.317	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1372.31
18	0.7490	1175.0	1195.8	1192.7	0.913	6.001	66.937	20.050	5.542	0.164	0.353	0.020	0.020	0.000	0.000	0.000	0.000	0.000	0.000	1378.46
19	0.7458	1168.3	1189.0	1185.9	0.916	6.107	67.297	19.821	5.334	0.156	0.332	0.018	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1373.52
20	0.7462	1167.3	1188.0	1184.7	0.923	6.197	67.182	19.843	5.346	0.151	0.323	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1371.97
21	0.7473	1169.0	1189.8	1186.7	0.920	6.201	67.028	19.928	5.403	0.155	0.330	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1372.97
22	0.7470	1167.6	1188.3	1185.2	0.925	6.250	67.054	19.887	5.366	0.154	0.329	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1371.60
23	0.7468	1168.6	1189.3	1186.2	0.933	6.161	67.124	19.884	5.378	0.154	0.331	0.018	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1372.93
24	0.7428	1166.4	1187.1	1184.0	0.941	5.903	67.771	19.692	5.198	0.146	0.314	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1374.10
25	0.7457	1170.5	1191.2	1188.2	0.908	5.972	67.405	19.793	5.384	0.158	0.342	0.019	0.019	0.000	0.000	0.000	0.000	0.000	0.000	1376.28
26	0.7450	1171.0	1191.7	1188.6	0.881	5.922	67.574	19.691	5.367	0.163	0.359	0.021	0.022	0.000	0.000	0.000	0.000	0.000	0.000	1377.40
27	0.7479	1177.3	1198.1	1195.0	0.898	5.783	67.194	20.040	5.504	0.168	0.368	0.022	0.023	0.000	0.000	0.000	0.000	0.000	0.000	1382.13
28	0.7440	1174.3	1195.1	1192.1	0.914	5.576	67.632	20.135	5.206	0.155	0.338	0.021	0.022	0.000	0.000	0.000	0.000	0.000	0.000	1382.31
29	0.7474	1177.8	1198.6	1195.6	0.911	5.684	67.210	20.206	5.424	0.163	0.358	0.022	0.023	0.000	0.000	0.000	0.000	0.000	0.000	1383.23
30	0.7472	1176.0	1196.8	1193.8	0.902	5.788	67.328	19.901	5.501	0.168	0.366	0.022	0.023	0.000	0.000	0.000	0.000	0.000	0.000	1381.32
Avg	0.7467	1171.0	1192.0	1188.9	0.911	6.020	67.213	19.905	5.426	0.154	0.334	0.018	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1376.16

# Source Daily Summary

June 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	0.6362	1069.9	1088.9	1085.5	0.888	1.858	84.709	11.802	0.699	0.017	0.025	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1361.98
2	0.7254	1152.1	1172.5	1168.9	0.900	5.204	70.751	18.047	4.643	0.132	0.292	0.016	0.016	0.000	0.000	0.000	0.000	0.000	0.000	1373.93
3	0.6759	1104.1	1123.6	1120.2	0.898	3.490	78.417	14.550	2.436	0.063	0.133	0.007	0.006	0.000	0.000	0.000	0.000	0.000	0.000	1364.30
4	0.7492	1171.4	1192.2	1188.4	0.913	6.244	66.820	19.917	5.572	0.156	0.343	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1374.03
5	0.7487	1171.6	1192.3	1188.5	0.910	6.187	66.913	19.915	5.542	0.155	0.342	0.018	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1374.72
6	0.7466	1172.4	1193.2	1189.2	0.900	5.960	67.218	19.973	5.428	0.152	0.332	0.018	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1377.56
7	0.7454	1170.6	1191.3	1187.3	0.895	5.963	67.381	19.874	5.385	0.148	0.321	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1376.60
8	0.7473	1171.2	1191.9	1188.1	0.904	6.089	67.070	19.974	5.450	0.151	0.328	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1375.57
9	0.7457	1170.5	1191.2	1187.5	0.896	5.994	67.279	19.976	5.359	0.147	0.317	0.017	0.016	0.000	0.000	0.000	0.000	0.000	0.000	1376.24
10	0.7453	1171.8	1192.5	1188.7	0.889	5.889	67.368	19.994	5.372	0.143	0.313	0.016	0.016	0.000	0.000	0.000	0.000	0.000	0.000	1378.10
11	0.7455	1172.5	1193.3	1189.4	0.890	5.867	67.362	19.989	5.393	0.146	0.319	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1378.73
12	0.7456	1170.6	1191.4	1187.4	0.893	5.988	67.316	19.919	5.383	0.147	0.319	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1376.39
13	0.7451	1170.3	1191.0	1186.9	0.890	5.961	67.418	19.864	5.365	0.148	0.320	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1376.51
14	0.7467	1172.6	1193.4	1189.4	0.896	5.956	67.275	19.867	5.478	0.154	0.338	0.018	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1377.80
15	0.7470	1171.9	1192.7	1188.7	0.899	6.032	67.132	19.976	5.439	0.152	0.334	0.018	0.018	0.000	0.000	0.000	0.000	0.000	0.000	1376.60
16	0.7469	1168.6	1189.3	1185.1	0.914	6.194	67.092	19.877	5.419	0.148	0.323	0.017	0.016	0.000	0.000	0.000	0.000	0.000	0.000	1372.92
17	0.7485	1175.1	1195.9	1192.0	0.903	5.964	67.035	20.003	5.535	0.164	0.358	0.019	0.019	0.000	0.000	0.000	0.000	0.000	0.000	1379.03
18	0.7456	1168.5	1189.2	1185.4	0.908	6.088	67.326	19.830	5.323	0.156	0.335	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1373.95
19	0.7460	1167.8	1188.5	1184.6	0.914	6.166	67.214	19.845	5.348	0.152	0.327	0.017	0.016	0.000	0.000	0.000	0.000	0.000	0.000	1372.71
20	0.7467	1168.2	1188.9	1185.0	0.913	6.199	67.129	19.859	5.381	0.154	0.331	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1372.65
21	0.7468	1168.0	1188.7	1184.8	0.917	6.220	67.102	19.865	5.373	0.155	0.334	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1372.27
22	0.7461	1168.2	1188.9	1185.0	0.925	6.134	67.223	19.858	5.341	0.153	0.331	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1373.07
23	0.7426	1167.0	1187.7	1183.7	0.934	5.856	67.824	19.685	5.200	0.147	0.319	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1375.01
24	0.7452	1170.5	1191.3	1187.2	0.904	5.938	67.486	19.766	5.368	0.158	0.343	0.019	0.019	0.000	0.000	0.000	0.000	0.000	0.000	1376.63
25	0.7445	1170.6	1191.3	1187.5	0.877	5.903	67.652	19.662	5.347	0.161	0.357	0.020	0.021	0.000	0.000	0.000	0.000	0.000	0.000	1377.39
26	0.7471	1176.9	1197.8	1193.9	0.888	5.749	67.338	19.952	5.490	0.168	0.370	0.022	0.023	0.000	0.000	0.000	0.000	0.000	0.000	1382.37
27	0.7448	1175.3	1196.1	1192.1	0.906	5.603	67.568	20.102	5.276	0.158	0.347	0.020	0.021	0.000	0.000	0.000	0.000	0.000	0.000	1382.64
28	0.7469	1177.4	1198.3	1194.4	0.899	5.677	67.319	20.111	5.428	0.163	0.360	0.021	0.022	0.000	0.000	0.000	0.000	0.000	0.000	1383.20
29	0.7474	1177.1	1198.0	1194.0	0.893	5.751	67.354	19.880	5.532	0.170	0.375	0.022	0.023	0.000	0.000	0.000	0.000	0.000	0.000	1382.37
30	0.7481	1176.1	1196.9	1193.2	0.917	5.849	67.004	20.273	5.402	0.161	0.352	0.020	0.021	0.000	0.000	0.000	0.000	0.000	0.000	1380.50
Avg	0.7396	1165.0	1185.9	1182.1	0.902	5.732	68.337	19.407	5.124	0.146	0.318	0.017	0.017	0.000	0.000	0.000	0.000	0.000	0.000	1375.86

Zone 28

# Source Daily Summary

June 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	0.6334	1067.4	1086.3	1083.3	0.854	1.796	85.178	11.483	0.651	0.015	0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1361.88
2	0.6340	1067.3	1086.2	1083.2	0.867	1.845	85.063	11.518	0.672	0.014	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1361.06
3	0.6354	1070.0	1088.9	1085.9	0.842	1.846	84.762	11.852	0.663	0.014	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1363.01
4	0.6292	1063.4	1082.2	1079.3	0.809	1.717	85.913	10.958	0.575	0.011	0.018	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1361.24
5	0.6273	1061.2	1080.0	1077.0	0.815	1.660	86.339	10.569	0.583	0.014	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1360.53
6	0.6291	1061.4	1080.2	1077.2	0.880	1.719	86.002	10.804	0.564	0.013	0.018	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1358.81
7	0.6346	1067.3	1086.2	1083.3	0.885	1.878	84.883	11.717	0.606	0.012	0.019	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1360.34
8	0.6379	1071.0	1090.0	1087.0	0.899	1.936	84.264	12.225	0.639	0.014	0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1361.60
9	0.6399	1074.4	1093.4	1090.5	0.896	1.922	84.162	12.087	0.849	0.027	0.052	0.003	0.003	0.000	0.000	0.000	0.000	0.000	0.000	1363.75
10	0.6337	1066.8	1085.7	1082.7	0.874	1.835	85.123	11.484	0.646	0.015	0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1360.72
11	0.6346	1068.0	1086.9	1083.8	0.860	1.863	85.211	11.129	0.871	0.023	0.040	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1361.31
12	0.6315	1063.7	1082.5	1079.4	0.837	1.873	85.538	11.065	0.648	0.014	0.024	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1359.11
13	0.6330	1065.5	1084.4	1081.0	0.869	1.858	85.264	11.324	0.641	0.016	0.026	0.001	0.002	0.000	0.000	0.000	0.000	0.000	0.000	1359.81
14	0.6378	1071.1	1090.0	1086.8	0.865	1.972	84.373	12.009	0.731	0.020	0.030	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1361.80
15	0.6384	1071.3	1090.3	1087.1	0.901	1.962	84.350	11.943	0.781	0.024	0.036	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1361.43
16	0.6367	1069.0	1087.9	1084.7	0.915	1.922	84.674	11.684	0.754	0.020	0.030	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1360.28
17	0.6331	1064.3	1083.2	1080.1	0.911	1.872	85.257	11.293	0.635	0.013	0.019	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1358.21
18	0.6297	1060.5	1079.3	1076.4	0.885	1.828	85.853	10.834	0.573	0.011	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1356.97
19	0.6268	1057.2	1075.9	1072.8	0.895	1.744	86.394	10.440	0.502	0.010	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1355.82
20	0.6279	1058.8	1077.5	1074.3	0.897	1.748	86.226	10.552	0.544	0.013	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1356.65
21	0.6294	1060.0	1078.8	1075.6	0.905	1.800	85.907	10.823	0.534	0.012	0.018	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1356.64
22	0.6312	1062.4	1081.3	1078.1	0.896	1.831	85.588	11.067	0.582	0.014	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1357.86
23	0.6296	1060.6	1079.4	1076.1	0.892	1.804	85.895	10.803	0.572	0.013	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1357.18
24	0.6288	1060.4	1079.2	1075.8	0.831	1.826	85.981	10.779	0.553	0.011	0.018	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1357.86
25	0.6305	1062.3	1081.1	1077.7	0.826	1.881	85.603	11.121	0.543	0.010	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1358.43
26	0.6325	1064.3	1083.2	1079.9	0.846	1.914	85.215	11.430	0.569	0.011	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1358.98
27	0.6380	1070.4	1089.4	1085.7	0.842	2.071	84.339	11.908	0.787	0.018	0.034	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1360.70
28	0.6453	1077.7	1096.7	1093.3	0.867	2.276	83.194	12.502	1.079	0.027	0.054	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1362.15
29	0.6466	1078.3	1097.4	1093.7	0.870	2.351	82.989	12.571	1.129	0.028	0.057	0.001	0.002	0.000	0.000	0.000	0.000	0.000	0.000	1361.60
30	0.6364	1068.6	1087.6	1084.3	0.897	1.946	84.643	11.765	0.702	0.016	0.030	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1360.14
Avg	0.6337	1066.0	1085.0	1081.9	0.871	1.883	85.139	11.391	0.673	0.016	0.026	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1359.86

# Source Daily Summary

June 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	0.6481	1086.6	1105.8	1102.6	0.934	1.890	82.719	13.360	1.001	0.033	0.055	0.004	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1370.46
2	0.6490	1087.3	1106.5	1103.4	0.933	1.934	82.543	13.473	1.023	0.032	0.055	0.004	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1370.40
3	0.6521	1091.6	1111.0	1107.8	0.952	1.939	82.012	13.891	1.099	0.036	0.063	0.004	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1372.51
4	0.6532	1093.4	1112.8	1109.6	0.956	1.923	81.844	14.038	1.123	0.039	0.068	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.000	1373.65
5	0.6490	1088.7	1108.0	1104.7	0.951	1.820	82.711	13.294	1.104	0.039	0.069	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.000	1372.14
6	0.6494	1088.8	1108.1	1104.8	0.957	1.843	82.682	13.255	1.138	0.041	0.072	0.006	0.006	0.000	0.000	0.000	0.000	0.000	0.000	1371.83
7	0.6506	1089.9	1109.2	1106.0	0.945	1.907	82.323	13.633	1.081	0.037	0.065	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.000	1372.00
8	0.6542	1093.5	1112.8	1109.6	0.953	2.022	81.585	14.230	1.097	0.037	0.066	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.000	1372.62
9	0.6564	1096.6	1116.0	1112.8	0.957	2.027	81.285	14.414	1.180	0.044	0.080	0.006	0.006	0.000	0.000	0.000	0.000	0.000	0.000	1374.27
10	0.6580	1099.2	1118.7	1115.4	0.968	2.000	81.153	14.392	1.338	0.049	0.087	0.007	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1375.89
11	0.6539	1093.9	1113.3	1109.9	0.980	1.924	81.936	13.740	1.276	0.048	0.083	0.006	0.006	0.000	0.000	0.000	0.000	0.000	0.000	1373.46
12	0.6550	1095.0	1114.4	1111.1	0.976	1.960	81.854	13.660	1.394	0.051	0.091	0.007	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1373.76
13	0.6500	1088.5	1107.8	1104.5	0.951	1.931	82.511	13.357	1.128	0.040	0.071	0.006	0.006	0.000	0.000	0.000	0.000	0.000	0.000	1370.80
14	0.6541	1093.6	1113.0	1109.6	0.962	1.991	81.711	14.049	1.162	0.041	0.073	0.006	0.006	0.000	0.000	0.000	0.000	0.000	0.000	1372.87
15	0.6586	1098.9	1118.4	1115.0	0.967	2.081	80.906	14.656	1.249	0.048	0.080	0.007	0.006	0.000	0.000	0.000	0.000	0.000	0.000	1374.82
16	0.6576	1097.5	1117.0	1113.6	0.962	2.072	81.099	14.487	1.245	0.046	0.076	0.006	0.006	0.000	0.000	0.000	0.000	0.000	0.000	1374.21
17	0.6535	1092.4	1111.7	1108.4	0.956	2.011	81.793	13.982	1.142	0.039	0.066	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.000	1372.05
18	0.6471	1084.2	1103.4	1100.2	0.930	1.948	82.833	13.253	0.954	0.028	0.048	0.003	0.003	0.000	0.000	0.000	0.000	0.000	0.000	1368.51
19	0.6461	1083.1	1102.2	1099.0	0.924	1.936	83.041	13.054	0.953	0.030	0.053	0.004	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1368.08
20	0.6471	1085.1	1104.3	1101.0	0.936	1.887	82.920	13.166	0.990	0.033	0.059	0.004	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1369.59
21	0.6490	1087.5	1106.8	1103.5	0.939	1.916	82.605	13.378	1.052	0.037	0.064	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.000	1370.61
22	0.6488	1086.7	1105.9	1102.6	0.931	1.955	82.557	13.472	0.983	0.034	0.059	0.005	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1369.83
23	0.6413	1077.3	1096.4	1093.2	0.883	1.899	83.730	12.669	0.756	0.022	0.036	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.000	1365.91
24	0.6390	1074.0	1093.1	1089.9	0.868	1.900	84.175	12.253	0.744	0.021	0.035	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.000	1364.25
25	0.6449	1079.0	1098.1	1094.9	0.838	2.205	83.196	12.689	0.967	0.034	0.061	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.000	1364.13
26	0.6517	1083.6	1102.8	1099.4	0.733	2.718	82.125	12.945	1.304	0.052	0.103	0.010	0.010	0.000	0.000	0.000	0.000	0.000	0.000	1362.83
27	0.6639	1103.5	1123.0	1119.6	0.951	2.327	80.148	14.855	1.532	0.061	0.109	0.009	0.008	0.000	0.000	0.000	0.000	0.000	0.000	1374.97
28	0.6551	1090.7	1110.0	1106.6	0.875	2.390	81.501	13.833	1.258	0.046	0.083	0.007	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1368.20
29	0.6558	1091.5	1110.9	1107.5	0.884	2.391	81.390	13.914	1.275	0.048	0.085	0.006	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1368.54
30	0.6513	1082.7	1101.9	1097.3	0.782	2.656	82.116	13.069	1.247	0.044	0.077	0.006	0.006	0.000	0.000	0.000	0.000	0.000	0.000	1362.24
Avg	0.6515	1089.0	1108.8	1105.4	0.924	2.047	82.167	13.615	1.127	0.040	0.070	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.000	1370.51

# Source Daily Summary

June 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	0.6940	1164.3	1184.9	1180.6	0.000	2.906	72.028	24.116	0.924	0.009	0.015	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1419.03	-21.34
2	0.6938	1164.2	1184.9	1180.5	0.000	2.893	72.038	24.131	0.916	0.009	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1419.19	-21.49
3	0.6940	1165.0	1185.6	1181.0	0.000	2.864	72.013	24.180	0.920	0.009	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1419.90	-21.35
4	0.6938	1164.4	1185.1	1180.6	0.000	2.880	72.026	24.180	0.893	0.009	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1419.42	-21.57
5	0.6948	1165.5	1186.2	1181.7	0.000	2.909	71.860	24.273	0.935	0.009	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1419.70	-20.99
6	0.6947	1164.9	1185.5	1181.3	0.000	2.934	71.856	24.282	0.906	0.009	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1419.08	-21.21
7	0.6945	1164.7	1185.3	1181.0	0.000	2.934	71.890	24.244	0.910	0.009	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1418.94	-21.28
8	0.6946	1164.6	1185.2	1180.9	0.000	2.943	71.871	24.256	0.907	0.009	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1418.81	-21.28
9	0.6946	1164.4	1185.1	1180.7	0.000	2.958	71.858	24.253	0.908	0.008	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1418.56	-21.29
10	0.6940	1163.8	1184.4	1180.0	0.000	2.937	71.958	24.204	0.878	0.009	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1418.46	-21.63
11	0.6950	1165.2	1185.8	1181.4	0.000	2.949	71.827	24.249	0.951	0.009	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1419.07	-20.91
12	0.6941	1163.8	1184.4	1180.0	0.000	2.944	71.989	24.126	0.918	0.009	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1418.34	-21.50
13	0.6947	1164.0	1184.6	1180.3	0.000	2.997	71.914	24.085	0.977	0.010	0.016	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1417.86	-21.00
14	0.6941	1163.2	1183.8	1179.7	0.000	2.988	71.981	24.079	0.928	0.009	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1417.52	-21.51
15	0.6938	1163.5	1184.1	1179.8	0.000	2.934	72.021	24.127	0.895	0.009	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1418.33	-21.68
16	0.6935	1162.6	1183.2	1179.1	0.000	2.958	72.091	24.029	0.900	0.009	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1417.56	-21.88
17	0.6926	1161.5	1182.0	1177.9	0.000	2.947	72.238	23.924	0.870	0.008	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1417.04	-22.40
18	0.6930	1162.3	1182.9	1178.7	0.000	2.936	72.154	24.012	0.877	0.008	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1417.65	-22.13
19	0.6887	1158.3	1178.8	1174.2	0.000	2.779	72.963	23.454	0.787	0.007	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1417.10	-24.28
20	0.6874	1156.2	1176.7	1171.9	0.000	2.778	73.190	23.271	0.744	0.007	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1415.97	-25.11
21	0.6871	1156.3	1176.7	1172.4	0.000	2.744	73.264	23.232	0.744	0.007	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1416.36	-25.21
22	0.6870	1156.5	1177.0	1172.4	0.000	2.726	73.266	23.257	0.733	0.007	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1416.67	-25.22
23	0.6877	1157.5	1178.0	1173.6	0.000	2.728	73.187	23.278	0.789	0.007	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1417.19	-24.71
24	0.6879	1157.3	1177.8	1173.4	0.000	2.759	73.153	23.268	0.801	0.007	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1416.74	-24.62
25	0.6884	1158.2	1178.7	1174.1	0.000	2.758	73.019	23.426	0.779	0.007	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1417.25	-24.41
26	0.6887	1159.2	1179.7	1175.4	0.000	2.721	73.005	23.443	0.813	0.007	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1418.22	-24.09
27	0.6888	1159.6	1180.2	1175.8	0.000	2.704	73.002	23.446	0.831	0.007	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1418.66	-23.92
28	0.6883	1158.8	1179.3	1175.1	0.000	2.701	73.035	23.494	0.752	0.007	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1418.25	-24.47
29	0.6921	1163.2	1183.8	1179.5	0.000	2.799	72.333	24.006	0.842	0.008	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1419.59	-22.44
30	0.6921	1163.0	1183.6	1179.3	0.000	2.803	72.334	24.003	0.839	0.008	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1419.48	-22.46
Avg	0.6919	1162.0	1182.4	1178.1	0.000	2.860	72.379	23.878	0.862	0.008	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1418.20	-22.58

# Source Daily Summary

June 2020

Number: 621

Pressure Base: 14.730

Contract Day: 1

Name: BEAR DEN 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	0.6899	1130.7	1150.7	1147.7	1.022	3.001	74.716	19.478	1.731	0.024	0.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1382.29	-23.11
2	0.6898	1130.6	1150.6	1147.6	1.023	3.003	74.729	19.457	1.736	0.024	0.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1382.18	-23.12
3	0.6896	1130.3	1150.3	1147.4	1.023	3.002	74.768	19.418	1.736	0.024	0.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1382.03	-23.21
4	0.6893	1129.7	1149.7	1146.8	1.024	3.002	74.846	19.336	1.740	0.024	0.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1381.67	-23.38
5	0.6892	1129.6	1149.6	1146.6	1.023	3.003	74.862	19.316	1.743	0.024	0.028	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1381.60	-23.40
6	0.6888	1129.5	1149.5	1146.5	1.001	3.008	74.935	19.250	1.752	0.024	0.030	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1381.83	-23.49
7	0.6878	1129.5	1149.5	1146.5	0.946	2.997	75.120	19.100	1.777	0.023	0.037	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1382.83	-23.60
8	0.6878	1129.7	1149.7	1146.8	0.948	2.979	75.121	19.116	1.776	0.022	0.037	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1383.14	-23.57
9	0.6886	1130.4	1150.4	1147.5	0.976	2.966	75.001	19.226	1.769	0.024	0.037	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1383.19	-23.24
10	0.6899	1131.9	1151.9	1149.0	1.028	2.920	74.766	19.480	1.738	0.027	0.038	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1383.71	-22.63
11	0.6898	1132.0	1152.0	1149.0	1.030	2.900	74.793	19.477	1.730	0.027	0.039	0.001	0.002	0.000	0.000	0.000	0.000	0.000	1383.95	-22.64
12	0.6896	1131.8	1151.9	1148.9	1.034	2.887	74.832	19.452	1.726	0.028	0.039	0.002	0.001	0.000	0.000	0.000	0.000	0.000	1383.95	-22.72
13	0.6894	1131.6	1151.6	1148.5	1.033	2.887	74.856	19.441	1.718	0.027	0.037	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1383.82	-22.92
14	0.6892	1131.2	1151.3	1148.3	1.032	2.888	74.899	19.396	1.718	0.027	0.037	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1383.61	-23.00
15	0.6891	1131.0	1151.1	1148.1	1.035	2.892	74.923	19.354	1.730	0.027	0.037	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1383.41	-23.00
16	0.6892	1131.0	1151.0	1148.0	1.038	2.899	74.927	19.318	1.753	0.027	0.037	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1383.28	-22.90
17	0.6891	1130.5	1150.5	1147.6	1.036	2.914	74.977	19.235	1.775	0.027	0.035	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1382.86	-22.97
18	0.6887	1129.7	1149.7	1146.8	1.035	2.929	75.056	19.135	1.784	0.026	0.033	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1382.23	-23.22
19	0.6886	1129.2	1149.2	1146.3	1.035	2.949	75.068	19.107	1.783	0.025	0.032	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1381.73	-23.38
20	0.6886	1129.1	1149.1	1146.2	1.034	2.959	75.041	19.136	1.773	0.025	0.032	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1381.62	-23.43
21	0.6885	1128.8	1148.8	1145.8	1.035	2.964	75.062	19.120	1.763	0.025	0.031	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1381.35	-23.58
22	0.6879	1127.9	1147.9	1145.0	1.034	2.965	75.141	19.075	1.732	0.024	0.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1380.87	-24.02
23	0.6876	1127.5	1147.4	1144.4	1.034	2.961	75.173	19.079	1.701	0.023	0.028	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1380.66	-24.32
24	0.6875	1127.3	1147.2	1144.1	1.034	2.966	75.181	19.075	1.693	0.023	0.028	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1380.49	-24.42
25	0.6873	1126.8	1146.8	1143.8	1.033	2.978	75.208	19.038	1.692	0.023	0.027	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1380.12	-24.53
26	0.6871	1126.2	1146.1	1143.0	1.033	3.001	75.244	18.982	1.691	0.023	0.027	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1379.50	-24.70
27	0.6874	1126.2	1146.2	1143.0	1.031	3.029	75.193	18.987	1.710	0.023	0.027	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1379.26	-24.52
28	0.6879	1126.2	1146.2	1143.1	1.031	3.072	75.135	18.965	1.746	0.024	0.028	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1378.80	-24.23
29	0.6881	1126.4	1146.3	1143.3	1.031	3.083	75.089	19.002	1.744	0.024	0.028	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1378.75	-24.16
30	0.6878	1126.7	1146.6	1143.8	1.025	3.043	75.077	19.132	1.673	0.023	0.027	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1379.47	-24.51
Avg	0.6886	1129.0	1149.3	1146.3	1.023	2.968	74.991	19.223	1.738	0.025	0.032	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1381.81	-23.53

# Source Daily Summary

June 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	0.6868	1130.5	1150.5	1147.6	1.086	2.641	73.888	22.123	0.260	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1385.08	-30.25
2	0.6870	1130.9	1150.9	1148.0	1.083	2.643	73.805	22.236	0.230	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1385.36	-30.22
3	0.6870	1131.9	1152.0	1149.1	1.072	2.591	73.822	22.275	0.239	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1386.69	-30.06
4	0.6901	1137.7	1157.9	1154.9	1.067	2.535	73.745	21.932	0.650	0.022	0.044	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1390.56	-26.54
5	0.6837	1126.6	1146.5	1143.6	1.083	2.590	74.782	21.032	0.506	0.003	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1383.42	-30.83
6	0.6835	1125.1	1145.0	1142.1	1.086	2.664	74.787	20.961	0.499	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1381.70	-31.26
7	0.6810	1121.6	1141.4	1138.5	1.088	2.637	75.023	21.037	0.214	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1379.99	-33.60
8	0.6808	1122.9	1142.8	1139.9	1.085	2.534	75.150	20.952	0.276	0.001	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1381.91	-33.22
9	0.6766	1123.0	1142.9	1140.0	1.062	2.174	76.135	20.253	0.369	0.003	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1386.20	-34.17
10	0.6791	1123.8	1143.7	1140.8	1.071	2.344	75.805	20.206	0.566	0.004	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1384.67	-32.46
11	0.6841	1132.6	1152.7	1149.7	1.068	2.278	75.524	19.838	1.264	0.014	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1390.36	-27.15
12	0.6805	1126.0	1145.9	1143.0	1.061	2.353	75.442	20.640	0.499	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1385.98	-32.03
13	0.6831	1130.6	1150.7	1147.7	1.059	2.324	74.952	21.113	0.546	0.003	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1388.99	-30.30
14	0.6861	1135.8	1155.9	1153.0	1.052	2.294	74.644	21.202	0.765	0.018	0.026	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1392.36	-27.33
15	0.6851	1134.2	1154.3	1151.4	1.059	2.291	74.590	21.478	0.572	0.005	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1391.40	-29.00
16	0.6844	1133.1	1153.2	1150.3	1.056	2.292	74.763	21.275	0.610	0.003	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1390.82	-29.34
17	0.6780	1121.7	1141.5	1138.6	1.080	2.358	76.219	19.581	0.756	0.003	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1382.91	-33.26
18	0.6835	1131.9	1151.9	1149.0	1.061	2.278	74.839	21.318	0.503	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1390.18	-30.22
19	0.6826	1130.4	1150.4	1147.5	1.059	2.289	74.969	21.220	0.460	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1389.24	-30.87
20	0.6816	1129.0	1149.0	1146.1	1.054	2.283	75.133	21.116	0.414	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1388.61	-31.59
21	0.6821	1130.0	1150.0	1147.1	1.060	2.261	75.022	21.261	0.397	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1389.32	-31.35
22	0.6834	1132.4	1152.4	1149.5	1.053	2.251	74.751	21.544	0.401	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1390.90	-30.57
23	0.6824	1130.4	1150.4	1147.2	1.054	2.271	74.988	21.301	0.386	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1389.38	-31.35
24	0.6819	1129.6	1149.6	1146.7	1.059	2.275	75.031	21.250	0.385	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1388.97	-31.49
25	0.6825	1130.2	1150.3	1147.3	1.062	2.284	74.906	21.380	0.368	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1389.17	-31.29
26	0.6817	1128.5	1148.5	1145.6	1.066	2.308	75.010	21.308	0.309	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1387.87	-32.01
27	0.6822	1128.3	1148.3	1145.4	1.069	2.367	74.845	21.459	0.259	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1387.07	-32.03
28	0.6828	1130.0	1150.0	1147.1	1.072	2.319	74.732	21.615	0.262	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1388.50	-31.60
29	0.6825	1128.6	1148.6	1145.7	1.066	2.382	74.775	21.515	0.261	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1387.13	-31.90
30	0.6825	1130.2	1150.2	1147.3	1.067	2.285	74.847	21.491	0.306	0.001	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1389.04	-31.46
Avg	0.6830	1129.0	1149.3	1146.3	1.067	2.380	74.897	21.197	0.451	0.003	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1387.46	-30.96

**MANDAN BORDER**

Start Date	End Date	NBPL - St Anthony			WBI - Mandan Border			Weighted AVG BTU	
		MCF	DK	BTU	MCF	DK	BTU Zone 28		
6/1/2020	6/2/2020				964	1049	1.0889	1.089	6/1/2020
6/2/2020	6/3/2020				998	1170	1.1725	1.173	6/2/2020
6/3/2020	6/4/2020				1089	1224	1.1236	1.124	6/3/2020
6/4/2020	6/5/2020				984	1174	1.1922	1.192	6/4/2020
6/5/2020	6/6/2020				883	1053	1.1923	1.192	6/5/2020
6/6/2020	6/7/2020				892	1066	1.1932	1.193	6/6/2020
6/7/2020	6/8/2020				787	937	1.1913	1.191	6/7/2020
6/8/2020	6/9/2020				951	1133	1.1919	1.192	6/8/2020
6/9/2020	6/10/2020				1217	1450	1.1912	1.191	6/9/2020
6/10/2020	6/11/2020				994	1186	1.1925	1.193	6/10/2020
6/11/2020	6/12/2020				887	1059	1.1933	1.193	6/11/2020
6/12/2020	6/13/2020				850	1013	1.1914	1.191	6/12/2020
6/13/2020	6/14/2020				786	936	1.1910	1.191	6/13/2020
6/14/2020	6/15/2020				786	938	1.1934	1.193	6/14/2020
6/15/2020	6/16/2020				819	977	1.1927	1.193	6/15/2020
6/16/2020	6/17/2020				777	924	1.1893	1.189	6/16/2020
6/17/2020	6/18/2020				789	943	1.1959	1.196	6/17/2020
6/18/2020	6/19/2020				872	1037	1.1892	1.189	6/18/2020
6/19/2020	6/20/2020				855	1016	1.1885	1.189	6/19/2020
6/20/2020	6/21/2020				750	892	1.1889	1.189	6/20/2020
6/21/2020	6/22/2020				803	955	1.1887	1.189	6/21/2020
6/22/2020	6/23/2020				943	1120	1.1889	1.189	6/22/2020
6/23/2020	6/24/2020				943	1120	1.1877	1.188	6/23/2020
6/24/2020	6/25/2020				791	941	1.1913	1.191	6/24/2020
6/25/2020	6/26/2020				784	934	1.1913	1.191	6/25/2020
6/26/2020	6/27/2020				735	881	1.1978	1.198	6/26/2020
6/27/2020	6/28/2020				675	808	1.1961	1.196	6/27/2020
6/28/2020	6/29/2020				773	927	1.1983	1.198	6/28/2020
6/29/2020	6/30/2020				775	929	1.1980	1.198	6/29/2020
6/30/2020	7/1/2020				837	1002	1.1969	1.197	6/30/2020
		0	0	#DIV/0!	25,989	30,794	1.1859	1.1859	



# Alliance Pipeline

DAILY ANALYSIS --- USA  
 ND07MD1 --- Hankinson Sales  
 June 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%	HeI Mol%
1	1,160.356	0.6653	84.1126	9.3502	3.8195	0.4038	0.7323	0.0689	0.0533	0.0250	1.0236	0.4001	0.0104
2	1,164.722	0.6684	83.7592	9.5004	3.9439	0.4224	0.7802	0.0674	0.0530	0.0251	1.0247	0.4131	0.0106
3	1,162.962	0.6674	83.7219	9.7091	3.8161	0.4071	0.7363	0.0682	0.0532	0.0261	1.0409	0.4106	0.0105
4	1,161.533	0.6655	84.0660	9.5036	3.7539	0.4095	0.7354	0.0727	0.0560	0.0257	0.9607	0.4057	0.0109
5	1,165.692	0.6690	83.5452	9.7505	3.9013	0.4201	0.7647	0.0722	0.0555	0.0261	1.0598	0.3939	0.0107
6	1,164.085	0.6684	83.6060	9.7105	3.8829	0.4132	0.7480	0.0697	0.0539	0.0241	1.0648	0.4164	0.0105
7	1,164.740	0.6688	83.6043	9.6952	3.8764	0.4173	0.7714	0.0733	0.0550	0.0243	1.0495	0.4228	0.0104
8	1,166.631	0.6709	83.2675	9.8451	3.9818	0.4187	0.7752	0.0696	0.0536	0.0242	1.1168	0.4369	0.0105
9	1,170.847	0.6741	82.8681	9.9797	4.1189	0.4342	0.8254	0.0746	0.0554	0.0232	1.1889	0.4213	0.0104
10	1,168.825	0.6716	83.2274	9.8462	4.0311	0.4297	0.8026	0.0720	0.0546	0.0227	1.1041	0.3993	0.0102
11	1,168.794	0.6712	83.3100	9.8208	4.0226	0.4309	0.7922	0.0738	0.0549	0.0230	1.0573	0.4037	0.0106
12	1,168.491	0.6711	83.2890	9.8582	3.9977	0.4246	0.7937	0.0735	0.0551	0.0238	1.0663	0.4076	0.0104
13	1,163.864	0.6683	83.6188	9.7240	3.8310	0.4166	0.7658	0.0720	0.0539	0.0228	1.0667	0.4178	0.0107
14	1,164.092	0.6685	83.5463	9.8172	3.8215	0.4123	0.7572	0.0693	0.0529	0.0252	1.0663	0.4212	0.0106
15	1,164.550	0.6689	83.4771	9.8710	3.8357	0.4100	0.7528	0.0695	0.0537	0.0256	1.0761	0.4184	0.0101
16	1,163.816	0.6688	83.5361	9.7364	3.8428	0.4123	0.7801	0.0689	0.0530	0.0250	1.1153	0.4200	0.0102
17	1,162.191	0.6668	83.7860	9.7016	3.7551	0.4054	0.7464	0.0695	0.0535	0.0244	1.0407	0.4068	0.0105
18	1,162.768	0.6666	83.7814	9.8044	3.7211	0.4033	0.7362	0.0705	0.0535	0.0247	0.9858	0.4085	0.0104
19	1,162.371	0.6663	83.8171	9.7896	3.7178	0.4042	0.7248	0.0691	0.0525	0.0254	0.9755	0.4136	0.0104
20	1,163.827	0.6679	83.5862	9.8898	3.7797	0.4047	0.7380	0.0701	0.0522	0.0246	1.0138	0.4305	0.0104
21	1,165.975	0.6694	83.3628	10.0046	3.8562	0.4087	0.7517	0.0679	0.0506	0.0245	1.0417	0.4210	0.0103
22	1,164.006	0.6684	83.5079	9.9078	3.7826	0.4072	0.7569	0.0682	0.0513	0.0244	1.0621	0.4212	0.0104
23	1,163.786	0.6683	83.5261	9.8977	3.7919	0.4055	0.7410	0.0693	0.0527	0.0247	1.0555	0.4248	0.0108
24	1,161.284	0.6662	83.8036	9.7919	3.7081	0.3949	0.7164	0.0673	0.0513	0.0247	1.0020	0.4290	0.0110
25	1,163.544	0.6682	83.4915	9.9568	3.7567	0.4018	0.7415	0.0694	0.0526	0.0259	1.0727	0.4205	0.0106
26	1,159.974	0.6661	83.8585	9.6257	3.7237	0.3983	0.7381	0.0632	0.0507	0.0260	1.0852	0.4199	0.0106
27	1,160.432	0.6667	83.7773	9.6222	3.7621	0.3982	0.7496	0.0638	0.0507	0.0254	1.1262	0.4139	0.0105
28	1,161.330	0.6669	83.7868	9.6069	3.7743	0.4040	0.7632	0.0664	0.0515	0.0253	1.1006	0.4103	0.0108
29	1,156.413	0.6642	84.0430	9.5691	3.6299	0.3803	0.6958	0.0633	0.0506	0.0249	1.0971	0.4351	0.0108
30	1,159.963	0.6656	83.9105	9.6544	3.6811	0.3968	0.7365	0.0657	0.0524	0.0252	1.0448	0.4216	0.0110
<b>Volume</b>	<b>1,163.701</b>	<b>0.6681</b>	<b>83.6219</b>	<b>9.7507</b>	<b>3.8295</b>	<b>0.4098</b>	<b>0.7548</b>	<b>0.0693</b>	<b>0.0531</b>	<b>0.0247</b>	<b>1.0594</b>	<b>0.4162</b>	<b>0.0105</b>
<b>Weight Avg Energy</b>	<b>1,163.708</b>	<b>0.6681</b>	<b>83.6214</b>	<b>9.7509</b>	<b>3.8298</b>	<b>0.4098</b>	<b>0.7548</b>	<b>0.0693</b>	<b>0.0531</b>	<b>0.0247</b>	<b>1.0595</b>	<b>0.4162</b>	<b>0.0105</b>



# Alliance Pipeline

DAILY ANALYSIS --- USA  
 ND14MD1 --- Milnor Sales  
 June 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%	HeI Mol%
1	1,159.402	0.6647	84.1939	9.3143	3.7932	0.4013	0.7221	0.0679	0.0529	0.0252	1.0169	0.4017	0.0104
2	1,165.374	0.6688	83.7109	9.5213	3.9623	0.4246	0.7877	0.0670	0.0528	0.0252	1.0267	0.4109	0.0105
3	1,162.692	0.6673	83.7383	9.6924	3.8095	0.4064	0.7347	0.0697	0.0542	0.0262	1.0441	0.4139	0.0105
4	1,161.706	0.6657	84.0683	9.4844	3.7637	0.4112	0.7412	0.0725	0.0558	0.0259	0.9608	0.4052	0.0109
5	1,165.717	0.6691	83.5348	9.7648	3.9016	0.4184	0.7616	0.0727	0.0562	0.0258	1.0576	0.3960	0.0106
6	1,164.001	0.6684	83.6244	9.6945	3.8782	0.4139	0.7506	0.0702	0.0542	0.0240	1.0614	0.4181	0.0105
7	1,164.947	0.6688	83.6267	9.6409	3.9056	0.4188	0.7777	0.0734	0.0540	0.0241	1.0636	0.4047	0.0106
8	1,167.594	0.6719	83.1430	9.9050	4.0132	0.4217	0.7827	0.0696	0.0540	0.0241	1.1359	0.4401	0.0105
9	1,170.725	0.6741	82.8934	9.9613	4.1153	0.4349	0.8265	0.0746	0.0553	0.0229	1.1842	0.4212	0.0104
10	1,168.932	0.6716	83.2370	9.8517	4.0309	0.4303	0.8004	0.0715	0.0543	0.0227	1.0956	0.3951	0.0103
11	1,168.214	0.6708	83.3627	9.7866	4.0092	0.4295	0.7899	0.0734	0.0546	0.0229	1.0592	0.4015	0.0106
12	1,168.533	0.6711	83.2960	9.8581	3.9948	0.4249	0.7942	0.0737	0.0552	0.0241	1.0644	0.4045	0.0101
13	1,164.231	0.6686	83.5866	9.7496	3.8357	0.4191	0.7658	0.0724	0.0543	0.0228	1.0622	0.4208	0.0106
14	1,161.772	0.6672	83.7440	9.6740	3.7789	0.4056	0.7449	0.0689	0.0523	0.0247	1.0785	0.4176	0.0106
15	1,165.050	0.6693	83.4361	9.8850	3.8492	0.4124	0.7605	0.0694	0.0537	0.0255	1.0805	0.4176	0.0101
16	1,162.967	0.6682	83.6319	9.6889	3.8147	0.4106	0.7733	0.0690	0.0533	0.0250	1.1034	0.4197	0.0103
17	1,162.660	0.6671	83.7557	9.7295	3.7623	0.4054	0.7490	0.0700	0.0535	0.0243	1.0341	0.4058	0.0104
18	1,163.265	0.6671	83.7166	9.8435	3.7352	0.4054	0.7371	0.0702	0.0536	0.0250	0.9935	0.4096	0.0104
19	1,162.119	0.6663	83.8158	9.7997	3.7103	0.4019	0.7207	0.0691	0.0522	0.0253	0.9781	0.4165	0.0104
20	1,163.575	0.6680	83.5660	9.9118	3.7707	0.4027	0.7339	0.0700	0.0524	0.0242	1.0179	0.4399	0.0103
21	1,165.034	0.6689	83.4215	9.9903	3.8242	0.4068	0.7418	0.0664	0.0501	0.0246	1.0487	0.4154	0.0103
22	1,164.329	0.6687	83.4811	9.9199	3.7922	0.4076	0.7594	0.0687	0.0518	0.0244	1.0628	0.4217	0.0104
23	1,163.492	0.6681	83.5430	9.8914	3.7876	0.4039	0.7367	0.0688	0.0523	0.0245	1.0552	0.4258	0.0108
24	1,161.903	0.6666	83.7570	9.8200	3.7189	0.3972	0.7215	0.0680	0.0517	0.0251	1.0005	0.4290	0.0110
25	1,162.539	0.6676	83.5893	9.8949	3.7327	0.3992	0.7372	0.0683	0.0522	0.0260	1.0707	0.4189	0.0106
26	1,160.087	0.6662	83.8350	9.6448	3.7257	0.3981	0.7372	0.0630	0.0506	0.0261	1.0901	0.4186	0.0106
27	1,160.742	0.6668	83.7263	9.7141	3.7441	0.3958	0.7418	0.0635	0.0506	0.0254	1.1145	0.4135	0.0103
28	1,159.372	0.6658	83.8946	9.6007	3.7017	0.3950	0.7410	0.0647	0.0510	0.0256	1.0979	0.4171	0.0107
29	1,156.305	0.6641	84.0340	9.5922	3.6276	0.3775	0.6869	0.0635	0.0508	0.0249	1.0960	0.4358	0.0108
30	1,159.612	0.6653	83.9678	9.6335	3.6736	0.3945	0.7278	0.0656	0.0524	0.0252	1.0311	0.4175	0.0110
<b>Volume</b>	<b>1,163.730</b>	<b>0.6682</b>	<b>83.6241</b>	<b>9.7474</b>	<b>3.8325</b>	<b>0.4097</b>	<b>0.7546</b>	<b>0.0692</b>	<b>0.0531</b>	<b>0.0248</b>	<b>1.0589</b>	<b>0.4151</b>	<b>0.0105</b>
<b>Weight Avg Energy</b>	<b>1,163.724</b>	<b>0.6682</b>	<b>83.6238</b>	<b>9.7471</b>	<b>3.8326</b>	<b>0.4097</b>	<b>0.7546</b>	<b>0.0692</b>	<b>0.0531</b>	<b>0.0247</b>	<b>1.0593</b>	<b>0.4152</b>	<b>0.0105</b>

June-20

ZONE 610

Watford City

Watford City West Border

Watford City East Border

Weighted

Start Date	End Date	Watford City West Border			Watford City East Border			Weighted AVG BTU	
		MCF	DK	BTU Zone 25	MCF	DK	BTU Zone 43		
6/1/2020	6/2/2020	68	78	1.1607	43	49	1.1380	1.152	6/1/2020
6/2/2020	6/3/2020	77	89	1.1607	55	63	1.1380	1.151	6/2/2020
6/3/2020	6/4/2020	73	85	1.1607	57	65	1.1380	1.151	6/3/2020
6/4/2020	6/5/2020	84	98	1.1607	70	80	1.1380	1.150	6/4/2020
6/5/2020	6/6/2020	66	77	1.1607	51	58	1.1380	1.151	6/5/2020
6/6/2020	6/7/2020	61	71	1.1607	63	72	1.1380	1.149	6/6/2020
6/7/2020	6/8/2020	78	91	1.1607	59	68	1.1380	1.151	6/7/2020
6/8/2020	6/9/2020	98	113	1.1607	90	103	1.1380	1.150	6/8/2020
6/9/2020	6/10/2020	96	112	1.1607	119	136	1.1380	1.148	6/9/2020
6/10/2020	6/11/2020	68	79	1.1607	88	100	1.1380	1.148	6/10/2020
6/11/2020	6/12/2020	63	73	1.1607	75	85	1.1380	1.148	6/11/2020
6/12/2020	6/13/2020	61	71	1.1607	55	63	1.1380	1.150	6/12/2020
6/13/2020	6/14/2020	30	34	1.1607	49	56	1.1380	1.147	6/13/2020
6/14/2020	6/15/2020	71	83	1.1607	86	98	1.1380	1.148	6/14/2020
6/15/2020	6/16/2020	73	85	1.1607	62	71	1.1380	1.150	6/15/2020
6/16/2020	6/17/2020	32	37	1.1607	61	70	1.1380	1.146	6/16/2020
6/17/2020	6/18/2020	23	27	1.1607	71	81	1.1380	1.144	6/17/2020
6/18/2020	6/19/2020	91	105	1.1607	107	121	1.1380	1.148	6/18/2020
6/19/2020	6/20/2020	78	91	1.1607	58	66	1.1380	1.151	6/19/2020
6/20/2020	6/21/2020	83	96	1.1607	57	64	1.1380	1.151	6/20/2020
6/21/2020	6/22/2020	89	103	1.1607	53	61	1.1380	1.152	6/21/2020
6/22/2020	6/23/2020	87	101	1.1607	76	86	1.1380	1.150	6/22/2020
6/23/2020	6/24/2020	59	68	1.1607	56	64	1.1380	1.150	6/23/2020
6/24/2020	6/25/2020	58	67	1.1607	62	70	1.1380	1.149	6/24/2020
6/25/2020	6/26/2020	71	82	1.1607	66	76	1.1380	1.150	6/25/2020
6/26/2020	6/27/2020	34	40	1.1607	44	50	1.1380	1.148	6/26/2020
6/27/2020	6/28/2020	13	15	1.1607	30	35	1.1380	1.145	6/27/2020
6/28/2020	6/29/2020	36	42	1.1607	42	48	1.1380	1.148	6/28/2020
6/29/2020	6/30/2020	38	44	1.1607	45	52	1.1380	1.148	6/29/2020
6/30/2020	7/1/2020	74	85	1.1607	93	105	1.1380	1.148	6/30/2020

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1,933	2,242	1.1607	1,943	2,216	1.1380	1.1491
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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	Changestamp	NOTES
11587	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	
11587	GLEN ULLIN	1083.3	0.6321	1362.6	-57.4	1.8016	0.8925	85.1443	11.2814	0.67	0.0209	0.0133	0.0001	0.0001	0	0	0.156	0.0197	6/1/2020	6/2/2020	6/2/2020 4:24:53 PM	
11587	GLEN ULLIN	1086.3	0.6348	1363.4	-55.6	1.8498	0.9097	84.6692	11.6631	0.7093	0.0215	0.0134	0	0	0	0	0.1442	0.0198	6/2/2020	6/3/2020	6/3/2020 4:35:00 PM	
11587	GLEN ULLIN	1084.4	0.6326	1363.5	-57.2	1.8022	0.8796	84.93	11.5036	0.645	0.0186	0.0119	0	0.0001	0	0	0.1898	0.0195	6/3/2020	6/4/2020	6/4/2020 4:33:15 PM	
11587	GLEN ULLIN	1077.8	0.6268	1361.3	-61	1.6846	0.8642	86.0115	10.5882	0.5913	0.0174	0.0111	0.0001	0.0002	0	0	0.2127	0.0186	6/4/2020	6/5/2020	6/5/2020 4:22:59 PM	
11587	GLEN ULLIN	1077	0.6267	1360.4	-61.1	1.7049	0.8723	86.0893	10.4814	0.6017	0.0194	0.0121	0.0004	0.0005	0	0.0001	0.1993	0.0187	6/5/2020	6/6/2020	6/6/2020 4:27:09 PM	
11587	GLEN ULLIN	1079.9	0.6296	1361	-59.4	1.7646	0.8976	85.5221	10.9764	0.601	0.0187	0.0114	0.0002	0.0002	0	0	0.189	0.019	6/6/2020	6/7/2020	6/7/2020 4:23:08 PM	
11587	GLEN ULLIN	1085.1	0.6347	1362	-56.1	1.9114	0.9155	84.5269	11.7587	0.6464	0.0217	0.0129	0	0.0002	0	0	0.1865	0.0198	6/7/2020	6/8/2020	6/8/2020 4:57:29 PM	
11587	GLEN ULLIN	1090.5	0.6387	1364.5	-52.7	1.9413	0.9227	84.102	12.1839	0.7188	0.0343	0.018	0.002	0.002	0	0.0003	0.0543	0.0206	6/8/2020	6/9/2020	6/9/2020 4:37:41 PM	
11587	GLEN ULLIN	1089.9	0.6377	1364.8	-53.1	1.9097	0.9062	84.3973	11.8627	0.8113	0.0311	0.018	0.0012	0.0013	0	0.0001	0.0408	0.0204	6/9/2020	6/10/2020	6/10/2020 4:43:23 PM	
11587	GLEN ULLIN	1084.3	0.6329	1363	-56.2	1.828	0.8811	85.3802	11.0636	0.7678	0.029	0.0183	0.0008	0.0011	0	0.0002	0.0098	0.0202	6/10/2020	6/11/2020	6/11/2020 5:13:56 PM	
11587	GLEN ULLIN	1085.9	0.6348	1363	-54.1	1.8824	0.8945	85.1588	11.082	0.8894	0.037	0.0213	0.0018	0.0019	0	0.0001	0.0105	0.0204	6/11/2020	6/12/2020	6/12/2020 4:54:05 PM	
11587	GLEN ULLIN	1081.6	0.6319	1360.7	-58.2	1.8658	0.9019	85.4539	11.065	0.6445	0.0232	0.0136	0.0009	0.001	0	0.0001	0.0101	0.0202	6/12/2020	6/13/2020	6/13/2020 4:33:11 PM	
11587	GLEN ULLIN	1083.1	0.6336	1360.7	-56.3	1.8838	0.9363	84.9925	11.333	0.6759	0.0263	0.0158	0.0015	0.0016	0	0.0003	0.1137	0.0195	6/13/2020	6/14/2020	6/14/2020 5:05:51 PM	
11587	GLEN ULLIN	1089	0.638	1363.4	-52.1	1.9805	0.9172	84.0124	12.0095	0.7938	0.0344	0.0226	0.0019	0.0025	0	0.0005	0.205	0.0198	6/14/2020	6/15/2020	6/15/2020 4:38:32 PM	
11587	GLEN ULLIN	1087.9	0.6376	1362.5	-51.9	1.9749	0.9381	84.083	11.8434	0.8284	0.0357	0.0241	0.0022	0.0029	0	0.0006	0.2472	0.0197	6/15/2020	6/16/2020	6/16/2020 4:37:26 PM	
11587	GLEN ULLIN	1084.3	0.6344	1361.3	-55	1.9076	0.9313	84.6396	11.45	0.7616	0.0279	0.0185	0.001	0.0016	0	0	0.2416	0.0193	6/16/2020	6/17/2020	6/17/2020 5:11:01 PM	
11587	GLEN ULLIN	1079.9	0.6312	1359.3	-58.5	1.8746	0.9237	85.1713	11.1178	0.64	0.0173	0.0116	0.0001	0.0001	0	0	0.2245	0.0191	6/17/2020	6/18/2020	6/18/2020 5:06:52 PM	
11587	GLEN ULLIN	1076	0.6278	1358	-61	1.8185	0.9066	85.7789	10.6342	0.5828	0.0158	0.0104	0	0.0001	0	0	0.234	0.0188	6/18/2020	6/19/2020	6/19/2020 4:06:35 PM	
11587	GLEN ULLIN	1073.9	0.6259	1357.4	-62.5	1.7473	0.9208	86.0988	10.4214	0.5239	0.0147	0.0095	0	0	0	0	0.2451	0.0187	6/19/2020	6/20/2020	6/20/2020 4:03:21 PM	
11587	GLEN ULLIN	1076	0.6275	1358.4	-60.8	1.7677	0.921	85.882	10.555	0.589	0.0207	0.0131	0.0001	0.0005	0	0	0.2326	0.0184	6/20/2020	6/21/2020	6/21/2020 4:03:05 PM	
11587	GLEN ULLIN	1076.3	0.6281	1358	-60.9	1.8094	0.9214	85.6956	10.7447	0.5444	0.0176	0.0114	0.0001	0.0007	0	0	0.2363	0.0185	6/21/2020	6/22/2020	6/22/2020 4:02:44 PM	
11587	GLEN ULLIN	1080	0.6308	1359.8	-58.3	1.8374	0.9205	85.2603	11.0616	0.6306	0.0231	0.0148	0.0006	0.001	0	0	0.2316	0.0188	6/22/2020	6/23/2020	6/23/2020 4:06:51 PM	
11587	GLEN ULLIN	1076.8	0.6282	1358.5	-60.5	1.8156	0.905	85.7389	10.6769	0.5923	0.0198	0.0126	0.0001	0.0003	0	0	0.2196	0.0188	6/23/2020	6/24/2020	6/24/2020 4:03:42 PM	
11587	GLEN ULLIN	1076.6	0.6279	1358.7	-60.9	1.8448	0.867	85.6962	10.7449	0.5621	0.017	0.0106	0	0	0	0	0.2384	0.019	6/24/2020	6/25/2020	6/25/2020 4:21:21 PM	
11587	GLEN ULLIN	1078.8	0.6297	1359.4	-59.7	1.8873	0.8706	85.2611	11.0931	0.5727	0.0158	0.01	0.0001	0.0001	0	0	0.2705	0.0189	6/25/2020	6/26/2020	6/26/2020 4:26:25 PM	
11587	GLEN ULLIN	1082.9	0.633	1361.1	-57.4	1.9338	0.881	84.6512	11.6249	0.6098	0.0158	0.0105	0	0	0	0	0.2538	0.0194	6/26/2020	6/27/2020	6/27/2020 4:08:58 PM	
11587	GLEN ULLIN	1082.3	0.6322	1361.2	-57.3	1.8814	0.8858	84.8975	11.3996	0.6288	0.0235	0.0136	0.0009	0.001	0	0	0.2492	0.0188	6/27/2020	6/28/2020	6/28/2020 4:09:33 PM	
11587	GLEN ULLIN	1082.9	0.6332	1360.9	-57.3	1.9062	0.9099	84.6421	11.6443	0.5937	0.0179	0.011	0.0001	0.0002	0	0	0.2557	0.0189	6/28/2020	6/29/2020	6/29/2020 4:07:56 PM	
11587	GLEN ULLIN	1081.5	0.6321	1360.3	-58.1	1.8887	0.9098	84.8644	11.4685	0.5754	0.0177	0.0109	0.0003	0.0004	0	0	0.2452	0.0188	6/29/2020	6/30/2020	6/30/2020 4:07:57 PM	
11587	GLEN ULLIN	1078.2	0.6289	1359.6	-60.7	1.7692	0.9202	85.4321	11.0904	0.4916	0.014	0.0091	0	0	0	0	0.2553	0.0182	6/30/2020	7/1/2020	7/1/2020 4:07:11 PM	

31 record(s) retrieved

<b>NORTH DAKOTA HEATING VALUE ZONES</b>		
<b>ZONES</b>	<b>MEASURING DEVICE</b>	<b>LOCATION</b>
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	JUNE 20	MAY 20	APR 20	MAR 20	FEB 20	JAN 20	DEC 19	NOV 19	OCT 19	SEPT 19	AUG 19	JULY 19	ZONE
MT/ND	211	Sidney Border - MonDak Trf - Sidney Plt	1201	1169	1174	1202	1211	1215	1207	1209	1198	1210	1218	1200	1199	211
ND	24	Williston Border - Charbonneau Station	1166	1163	1159	1155	1169	1171	1172	1173	1177	1160	1164	1165	1165	24
ND	25	Watford City West Border	1194	1161	1206	1188	1202	1204	1196	1192	1194	1199	1195	1197	1195	25
ND	28	Bismarck Station - Glen Ullin Station	1151	1186	1129	1149	1138	1126	1123	1128	1125	1137	1189	1196	1186	28
ND	31	Dickinson Brd - Belfield Trf - G Ullin Stn	1126	1085	1093	1150	1138	1126	1122	1128	1125	1137	1163	1114	1128	31
ND/MT	32	Cabin Creek Station - Belfield Transfer	1114	1109	1109	1133	1103	1096	1093	1074	1122	1134	1130	1137	1133	32
ND	33	Little Knife Plant	1175	1182	1179	1175	1173	1175	1174	1173	1172	1173	1174	1175	1175	33
ND	34	Badlands Plant/Bowman Border	1048	1036	1047	1048	1024	1073	1082	1110	1102	1054	1001	1013	989	34
ND	43	Spring Creek I - Sax Valve I	1149	1149	1151	1157	1152	1151	1154	1144	1151	1143	1144	1150	1140	43
ND/MT	241	Fairview Border	1194	1159	1164	1182	1195	1203	1209	1206	1202	1208	1210	1194	1191	241
ND	260	North Tioga Transfer - Nesson Plant	1119	1116	1099	1096	1132	1111	1089	1106	1146	1126	1136	1135	1132	260
ND	261	Tioga Comp Station - Robinson Lake Plan	1177	1177	1178	1179	1174	1173	1168	1166	1178	1174	1189	1189	1179	261
ND	262	Minot Bdr - Palermo Bdr - Bismarck Stn	1189	1192	1193	1190	1180	1180	1176	1184	1193	1195	1193	1197	1198	262
ND	263	Lignite Plant	1151	1149	1146	1146	1160	1143	1145	1149	1149	1146	1146	1163	1164	263
ND	264	Epping Border	1157	1153	1168	1147	1157	1165	1163	1162	1164	1144	1148	1155	1154	264
ND	265	Tioga Comp Station - County Line Plant	1172	1178	1158	1180	1174	1174	1168	1167	1168	1168	1169	1176	1177	265
ND	266	County Line Plant	1171	1194	1168	1193	1164	1161	1162	1165	1170	1170	1172	1170	1166	266
ND	271	Bismarck Station - Cleveland Station	1181	1193	1190	1186	1169	1165	1159	1168	1174	1189	1191	1197	1196	271
ND	272	Cleveland Station - Mapleton	1181	1192	1189	1185	1169	1165	1159	1168	1174	1188	1191	1196	1195	272
ND	273	Cleveland Station - Grafton Border	1181	1192	1189	1184	1169	1165	1159	1168	1173	1188	1190	1195	1194	273
ND	550	Mandan Border / NBPL-St Anthony	1147	1186	1129	1149	1119	1117	1115	1121	1125	1137	1189	1196	1186	550
ND	610	MDU-Watford City BTU	1171	1149	1182	1171	1169	1168	1168	1161	1172	1174	1178	1181	1180	610
ND	802	NBPL - Linton	1097	1082	1086	1105	1102	1102	1102	1102	1107	1098	1094	1094	1091	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	1164	1158	1163	1164	1162	1160	1159	1166	1170	1167	1162	1161	600
ND	601	Alliance Pipeline - Milnor	1162	1164	1157	1158	1164	1162	1160	1159	1166	1170	1167	1162	1160	602

<b>THERMAL ZONE VARIANCE DOCUMENTATION</b>		
<b>June 2020</b>		
<b><i>ZONE</i></b>	<b><i>BTU VARIANCE</i></b>	<b><i>REASON</i></b>
25	-45	Operational – Working in the area
28	57	Operational – Direction of Flow
265	20	Operational – Additional Receipt