MONTANA-DAKOTA
UTILITIES CO.
A Division of MDU Resources Group, Inc.

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

ORIGINAL

RECEIVED

AUG 08 2008

PUBLIC SERVICE COMMISSION

August 7, 2008

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

Re: Case No. 11,006 (Therm Billing)
Monthly Report – June 2008

Montana-Dakota Utilities Co., a Division of MDU Resources Group, Inc., herewith submits the following information, pursuant to the Ordering paragraphs one and two of the Order issued in the above-referenced docket, dated October 20, 1987:

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 2008.

2. Attachment B consists of copies of the monthly Heating Value Test Reports received from our supplier for the month of June 2008. There is a report for each of the 16 thermal zones for the month.

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.

Please acknowledge receipt by stamping or initialing the duplicate copy of this letter attached hereto and returning the same in the enclosed self-addressed, stamped envelope. Should the Commission or its Staff have any comments or questions with respect to these reports, please call me.

Sincerely,

Tamie Aberle
Pricing & Tariff Manager

MONTANA-DAKOTA UTILITIES CO.
Therm Billing Factor
JULY 2008

Div Nbr	Off Code	City Name	Heat Zone Nbr	Therm Billng Factor
12	314	APPLE VALLEY	271	1.1019
12	327	BISMARCK	28	1.1029
12	343	CARRINGTON	273	1.1019
12	344	CLEVELAND	272	1.0942
12	364	CAVALIER	273	1.1251
12	365	DAWSON	271	1.0942
12	374	FT TOTTEN	273	1.1097
12	375	DEVILS LAKE	273	1.1097
12	379	BARLOW	273	1.1019
12	387	ELDRIDGE	272	1.1019
12	411	GLEN ULLIN	31	.9747
12	417	GRAFTON	273	1.1329
12	449	JAMESTOWN	272	1.1097
12	463	LANGDON	273	1.1019
12	475	LINTON	802	.9736
12	478	LINCOLN	28	1.1029
12	494	MEDINA	271	1.0942
12	498	MANDAN	28	1.1029
12	524	NEW SALEM	28	1.0796
12	532	NEW ROCKFORD	273	1.1019
12	539	PARK RIVER	273	1.1251
12	574	SANBORN	272	1.1097
12	593	STEELE	271	1.0942
12	598	SHEYENNE	273	1.1097
12	610	TAPPEN	271	1.0942
12	625	VALLEY CITY	272	1.1173
12	629	WALHALLA	273	1.1251
12	647	WILTON	262	1.0805
12	717	SPIRITWOOD	272	1.1097
12	732	MSR SITE	273	1.1019
12	733	PAR SITE	273	1.1019
15	303	ALEXANDER	25	1.0673
15	308	ARNEGARD	25	1.0673
15	318	BEACH	32	.9491
15	319	BELFIELD	32	.9560

MONTANA-DAKOTA UTILITIES CO.
Therm Billing Factor
JULY 2008

Div Nbr	Off Code	City Name	Heat Zone Nbr	Therm Billng Factor
15	323	BERTHOLD	261	1.0777
15	330	BOWMAN	34	1.0687
15	337	BURLINGTON	262	1.1038
15	368	DES LACS	261	1.0854
15	369	DICKINSON	31	.9677
15	384	EPPING	261	1.0777
15	407	GLADSTONE	31	.9677
15	413	GOLVA	32	.9352
15	416	GARRISON	262	1.0883
15	429	HEBRON	31	.9747
15	459	KILLDEER	33	1.0852
15	469	LEFOR	31	.9677
15	474	LIGNITE	263	1.0769
15	500	MARMARTH	34	1.0766
15	505	MINOT	262	1.1038
15	510	MOTT	31	.9677
15	512	MAX	262	1.0805
15	522	NEW ENGLAND	31	.9607
15	540	PALERMO	261	1.0777
15	558	RAY	261	1.0777
15	561	REGENT	31	.9677
15	563	RHAME	34	1.0608
15	564	RICHARDTON	31	.9607
15	568	ROSS	261	1.0699
15	572	RUTHVILLE	262	1.1038
15	583	SENTINEL BUTTE	32	.9491
15	588	SOUTH HEART	31	.9607
15	590	SPRINGBROOK	261	1.0777
15	591	STANLEY	261	1.0777
15	605	SURREY	262	1.1038
15	611	TAYLOR	31	.9607
15	616	TIOGA	261	1.0699
15	619	TURTLE LAKE	262	1.0883
15	620	TRENTON	24	1.1311
15	624	UNDERWOOD	262	1.0883

MONTANA-DAKOTA UTILITIES CO.
Therm Billing Factor
JULY 2008

Div Nbr	Off Code	City Name	Heat Zone Nbr	Therm Billng Factor
15	632	WATFORD CITY	25	1.0673
15	636	WHEELOCK	261	1.0699
15	637	WHITE EARTH	261	1.0777
15	642	WILLISTON	24	1.1311
15	646	WASHBURN	262	1.0961
15	664	RIVERDALE	262	1.0883
15	691	FAIRVIEW	24	1.1311
15	712	MINOT AFB	262	1.1038
15	743	BAKER FIELD	35	.8953

* * * E N D O F R E P O R T * * *

Williston Basin Interstate Pipeline Co.

GQ Source Daily Summary

June 2008

Number: 251

Name: SIDNEY BORDER

Pressure Base: 14.730

Temperature Base:

Contract Day: 1 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	Cri'therm
1	0.7310	1176.3	1197.2		1.083	3.979	68.826	22.097	3.614	0.134	0.241	0.013	0.011	0.001	0.000				1400.21	
2	0.7308	1175.9	1196.7		1.081	3.985	68.853	22.086	3.595	0.134	0.241	0.013	0.011	0.001	0.000				1399.94	
3	0.7311	1176.3	1197.1		1.086	3.985	68.810	22.097	3.633	0.130	0.234	0.013	0.011	0.001	0.000				1400.06	
4	0.7308	1175.8	1196.6		1.086	3.987	68.799	22.185	3.553	0.131	0.235	0.013	0.011	0.001	0.000				1399.75	
5	0.7304	1175.4	1196.2		1.085	3.982	68.829	22.193	3.521	0.131	0.234	0.012	0.010	0.001	0.000				1399.60	
6	0.7293	1173.6	1194.4		1.084	3.984	68.907	22.270	3.365	0.130	0.234	0.013	0.011	0.001	0.000				1398.60	
7	0.7300	1174.9	1195.7		1.080	3.980	68.877	22.183	3.488	0.131	0.235	0.013	0.011	0.001	0.000				1399.44	
8	0.7287	1172.7	1193.5		1.082	3.983	68.996	22.232	3.306	0.135	0.243	0.013	0.011	0.001	0.000				1398.16	
9	0.7297	1174.5	1195.3		1.079	3.978	68.909	22.207	3.419	0.136	0.247	0.013	0.011	0.001	0.000				1399.24	
10	0.7288	1172.8	1193.6		1.079	3.995	69.068	22.049	3.407	0.134	0.243	0.013	0.011	0.001	0.000				1398.09	
11	0.7286	1172.5	1193.3		1.080	3.988	69.049	22.133	3.362	0.132	0.234	0.012	0.010	0.001	0.000				1398.02	
12	0.7286	1172.5	1193.2		1.081	3.989	69.110	22.009	3.418	0.133	0.235	0.013	0.011	0.001	0.000				1397.95	
13	0.7301	1175.2	1196.0		1.080	3.970	68.893	22.146	3.519	0.132	0.235	0.013	0.011	0.001	0.000				1399.70	
14	0.7316	1177.7	1198.6		1.081	3.951	68.757	22.157	3.647	0.137	0.245	0.013	0.011	0.001	0.000				1401.32	
15	0.7311	1176.9	1197.7		1.076	3.967	68.793	22.163	3.593	0.136	0.246	0.013	0.011	0.001	0.000				1400.76	
16	0.7307	1176.2	1197.0		1.079	3.969	68.824	22.179	3.545	0.135	0.243	0.014	0.011	0.001	0.000				1400.27	
17	0.7314	1177.1	1198.0		1.079	3.969	68.764	22.191	3.572	0.141	0.255	0.014	0.012	0.001	0.000				1400.81	
18	0.7323	1178.4	1199.3		1.075	3.983	68.864	21.860	3.731	0.157	0.293	0.018	0.016	0.003	0.000				1401.44	
19	0.7304	1175.5	1196.4		1.081	3.974	68.876	22.135	3.532	0.135	0.242	0.014	0.011	0.001	0.000				1399.85	
20	0.7326	1179.0	1199.8		1.080	3.970	68.698	22.111	3.679	0.152	0.278	0.016	0.013	0.001	0.000				1401.82	
21	0.7291	1173.2	1194.0		1.082	3.997	68.922	22.249	3.367	0.128	0.231	0.013	0.011	0.001	0.000				1398.28	
22	0.7286	1172.4	1193.1		1.082	3.994	68.980	22.235	3.345	0.122	0.219	0.012	0.010	0.001	0.000				1397.83	
23	0.7292	1173.3	1194.1		1.086	3.995	68.956	22.185	3.381	0.133	0.239	0.014	0.011	0.001	0.000				1398.28	
24	0.7278	1170.9	1191.6		1.083	4.009	69.012	22.319	3.215	0.121	0.218	0.012	0.010	0.001	0.000				1396.82	
25	0.7274	1170.1	1190.8		1.089	4.008	69.199	22.031	3.302	0.123	0.222	0.012	0.010	0.001	0.000				1396.26	
26	0.7198	1169.2	1189.9		0.823	3.767	70.073	22.052	2.967	0.105	0.191	0.011	0.009	0.001	0.000				1402.55	
27	0.7086	1167.7	1188.4		0.370	3.488	71.420	21.898	2.593	0.076	0.135	0.009	0.009	0.002	0.000				1411.84	
28	0.7278	1169.9	1190.6		1.129	3.996	69.221	21.928	3.350	0.125	0.226	0.012	0.011	0.001	0.000				1395.69	
29	0.7287	1171.7	1192.5		1.130	3.970	69.167	21.878	3.482	0.125	0.224	0.012	0.010	0.001	0.000				1396.94	
30	0.7288	1171.9	1192.6		1.129	3.976	69.199	21.781	3.536	0.125	0.228	0.014	0.011	0.001	0.000				1397.00	
Avg	0.7288	1174.0	1194.8		1.054	3.959	69.055	22.108	3.435	0.130	0.234	0.013	0.011	0.001	0.000				1399.55	

Zone 211

Williston Basin Interstate Pipeline Co.

GQ Source Analysis

GQ Source Number:	0602330		
GQ Source Name:	WILLISTON BORDER	**Specific Gravity:**	0.7283
Effective Date:	6/10/2008 9:00:00 AM	**BTU Base:**	Dry
Effective End Date:	1/18/2038 9:14:07 PM	**Dry Heat Value:**	1189.14
Pressure Base:	14.730	**Wet Heat Value:**	1168.44
Viscosity:		**As Deliv. Heat Value:**	1189.14

		Mol %	Imported GPM	Calculated GPM
C1	Methane	68.874		
C2	Ethane	21.742		5.797
C3	Propane	3.643	1.001	1.001
IC4	Iso-Butane	0.138	0.045	0.045
NC4	N-Butane	0.245	0.077	0.077
IC5	Iso-Pentane	0.014	0.005	0.005
NC5	N-Pentane	0.012	0.004	0.004
C6+	Hexanes Plus	0.000	0.000	0.000
CO2	Carbon Dioxide	0.945		
N2	Nitrogen	4.386		
O2	Oxygen	0.000		
HE	Helium			
H2	Hydrogen			
H2S	Hydrogen Sulfide			
	Totals	100.000	1.133	6.930

Sample Date: 5/31/2008 12:00:00 AM
Sample Type: Composite
Sample Tech: sampler
Sample Remarks: Zone 24 & 264
Analysis Remarks:

Williston Basin Interstate Pipeline Co.

GQ Source Analysis

GQ Source Number:	0602230		
GQ Source Name:	WATFORD CITY BORDER	**Specific Gravity:**	0.7314
Effective Date:	6/10/2008 9:00:00 AM	**BTU Base:**	Dry
Effective End Date:	1/18/2038 9:14:07 PM	**Dry Heat Value:**	1129.77
Pressure Base:	14.730	**Wet Heat Value:**	1110.11
Viscosity:		**As Deliv. Heat Value:**	1129.77

		Mol %	Imported GPM	Calculated GPM
C1	Methane	68.105		
C2	Ethane	18.189		4.850
C3	Propane	3.790	1.042	1.041
IC4	Iso-Butane	0.204	0.067	0.067
NC4	N-Butane	0.365	0.115	0.115
IC5	Iso-Pentane	0.030	0.011	0.011
NC5	N-Pentane	0.030	0.011	0.011
C6+	Hexanes Plus	0.008	0.004	0.003
CO2	Carbon Dioxide	0.776		
N2	Nitrogen	8.503		
O2	Oxygen	0.000		
HE	Helium			
H2	Hydrogen			
H2S	Hydrogen Sulfide			
	Totals	100.000	1.249	6.098

Sample Date: 5/31/2008 12:00:00 AM
Sample Type: Composite
Sample Tech: sampler
Sample Remarks: Zone 25
Analysis Remarks:

Williston Basin Interstate Pipeline Co.

GQ Source Daily Summary

June 2008

Number: 163

Name: NORTH TIOGA MINOT

Pressure Base: 14.730

Temperature Base:

Contract Day: 1 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	Cri'therm
1	0.6751	1120.6	1140.5		0.364	3.217	77.942	16.199	1.924	0.106	0.175	0.021	0.025	0.028					1388.03	
2	0.6721	1115.2	1135.0		0.381	3.237	78.208	16.128	1.777	0.090	0.139	0.012	0.012	0.016					1384.44	
3	0.6743	1116.2	1136.0		0.408	3.341	77.835	16.304	1.842	0.091	0.143	0.012	0.011	0.014					1383.44	
4	0.6769	1118.4	1138.2		0.418	3.439	77.293	16.729	1.860	0.086	0.138	0.011	0.011	0.015					1383.48	
5	0.6759	1119.0	1138.8		0.414	3.324	77.483	16.673	1.847	0.086	0.137	0.011	0.010	0.015					1385.10	
6	0.6736	1115.9	1135.6		0.407	3.306	77.897	16.353	1.767	0.091	0.143	0.012	0.012	0.013					1383.64	
7	0.6674	1110.1	1129.8		0.327	3.191	78.781	15.956	1.511	0.077	0.119	0.010	0.010	0.016					1382.95	
8	0.6664	1108.9	1128.5		0.322	3.177	79.035	15.702	1.512	0.084	0.129	0.012	0.012	0.016					1382.45	
9	0.6701	1111.2	1130.9		0.352	3.338	78.459	15.925	1.658	0.089	0.139	0.012	0.013	0.015					1381.53	
10	0.6674	1108.6	1128.3		0.328	3.278	78.849	15.753	1.535	0.085	0.132	0.012	0.012	0.016					1381.12	
11	0.6804	1120.5	1140.3		0.486	3.536	76.779	16.949	1.970	0.094	0.153	0.011	0.011	0.011					1382.51	
12	0.6824	1124.3	1144.2		0.521	3.446	76.456	17.272	2.019	0.096	0.157	0.012	0.011	0.010					1385.07	
13	0.6824	1124.7	1144.6		0.518	3.422	76.559	17.114	2.093	0.098	0.160	0.012	0.012	0.010					1385.60	
14	0.6827	1124.6	1144.6		0.506	3.471	76.499	17.126	2.101	0.099	0.163	0.013	0.012	0.011					1385.24	
15	0.6824	1124.3	1144.2		0.506	3.467	76.548	17.084	2.099	0.099	0.161	0.012	0.012	0.012					1385.10	
16	0.6815	1125.0	1144.9		0.487	3.364	76.687	17.128	2.037	0.098	0.159	0.013	0.013	0.013					1386.90	
17	0.6854	1127.4	1147.4		0.517	3.539	75.967	17.567	2.114	0.096	0.160	0.013	0.013	0.013					1385.93	
18	0.6923	1131.2	1151.3		0.550	3.909	74.636	18.346	2.290	0.086	0.153	0.009	0.008	0.013					1383.65	
19	0.6901	1128.7	1148.6		0.561	3.844	74.993	18.148	2.190	0.083	0.148	0.010	0.010	0.012					1382.68	
20	0.6881	1127.9	1147.9		0.543	3.723	75.399	17.907	2.154	0.089	0.151	0.011	0.010	0.013					1383.83	
21	0.6822	1123.6	1143.5		0.471	3.546	76.594	16.973	2.099	0.104	0.172	0.014	0.014	0.014					1384.39	
22	0.6811	1119.5	1139.3		0.467	3.700	76.629	16.925	1.985	0.096	0.156	0.014	0.014	0.015					1380.44	
23	0.6858	1122.3	1142.2		0.518	3.888	75.618	17.722	2.002	0.081	0.137	0.010	0.010	0.014					1379.26	
24	0.6762	1110.4	1130.0		0.395	3.908	76.880	17.060	1.575	0.057	0.099	0.006	0.006	0.014					1374.17	
25	0.6796	1113.7	1133.5		0.476	3.892	76.603	16.995	1.796	0.079	0.131	0.010	0.009	0.009					1374.96	
26	0.6844	1126.2	1146.2		0.517	3.520	76.153	17.412	2.107	0.096	0.156	0.013	0.013	0.014					1385.44	
27	0.6886	1128.5	1148.5		0.562	3.704	75.271	18.091	2.089	0.092	0.154	0.013	0.012	0.012					1384.09	
28	0.6893	1131.4	1151.5		0.588	3.556	75.470	17.805	2.234	0.109	0.182	0.019	0.021	0.017					1386.87	
29	0.6927	1133.2	1153.3		0.620	3.718	74.697	18.386	2.296	0.090	0.154	0.012	0.012	0.015					1385.65	
30	0.6881	1128.8	1148.8		0.585	3.606	75.591	17.671	2.261	0.095	0.157	0.012	0.011	0.012					1384.89	
Avg	0.6805	1121.0	1141.2		0.470	3.520	76.727	17.047	1.958	0.091	0.149	0.012	0.012	0.014					1383.43	

Zone 261

Williston Basin Interstate Pipeline Co.

GQ Source Daily Summary

June 2008

Number: 091

Name: MINOT

Pressure Base: 14.730

Temperature Base:

Contract Day: 1 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	Cri'therm
1	0.6860	1129.9	1149.9		0.465	3.528	75.950	17.529	2.197	0.104	0.182	0.012	0.012	0.021	0.000				1388.28	
2	0.6950	1147.2	1167.5		0.412	3.390	75.806	16.782	2.777	0.216	0.446	0.060	0.068	0.043	0.000				1400.31	
3	0.6764	1119.1	1138.9		0.382	3.400	77.584	16.343	1.983	0.102	0.165	0.015	0.015	0.010	0.000				1384.86	
4	0.6855	1129.9	1149.9		0.421	3.545	76.600	16.561	2.336	0.151	0.296	0.035	0.038	0.019	0.000				1388.74	
5	0.6797	1120.7	1140.5		0.422	3.559	76.961	16.688	2.088	0.099	0.155	0.011	0.011	0.006	0.000				1383.38	
6	0.6920	1137.6	1157.8		0.446	3.639	75.549	17.296	2.486	0.159	0.321	0.037	0.039	0.026	0.000				1391.70	
7	0.6766	1121.5	1141.3		0.405	3.246	77.678	16.386	1.911	0.111	0.197	0.022	0.025	0.019	0.000				1387.49	
8	0.6749	1117.3	1137.1		0.410	3.336	77.641	16.543	1.801	0.091	0.147	0.011	0.011	0.008	0.000				1384.10	
9	0.6669	1109.8	1129.5		0.310	3.192	78.916	15.805	1.522	0.083	0.132	0.011	0.010	0.017	0.000				1383.04	
10	0.6702	1112.9	1132.6		0.336	3.272	78.527	15.881	1.674	0.098	0.163	0.016	0.016	0.016	0.000				1383.47	
11	0.6714	1113.4	1133.1		0.374	3.299	78.209	16.187	1.663	0.090	0.142	0.011	0.010	0.015	0.000				1382.86	
12	0.6811	1121.2	1141.1		0.492	3.556	76.645	17.042	1.980	0.094	0.156	0.010	0.010	0.014	0.000				1382.59	
13	0.6824	1124.4	1144.3		0.527	3.432	76.460	17.287	2.012	0.095	0.155	0.010	0.009	0.013	0.000				1385.17	
14	0.6840	1125.9	1145.9		0.544	3.462	76.246	17.363	2.084	0.100	0.167	0.011	0.011	0.011	0.000				1385.45	
15	0.6843	1126.2	1146.2		0.526	3.498	76.210	17.333	2.133	0.101	0.167	0.011	0.011	0.009	0.000				1385.53	
16	0.6826	1122.7	1142.6		0.513	3.568	76.474	17.073	2.084	0.098	0.160	0.011	0.010	0.009	0.000				1382.98	
17	0.6832	1124.5	1144.4		0.516	3.517	76.426	17.125	2.112	0.099	0.164	0.011	0.011	0.018	0.000				1384.47	
18	0.6851	1125.3	1145.2		0.515	3.647	76.062	17.312	2.149	0.104	0.176	0.013	0.012	0.010	0.000				1383.59	
19	0.6829	1124.3	1144.2		0.495	3.530	76.450	17.111	2.109	0.103	0.170	0.013	0.014	0.006	0.000				1384.55	
20	0.6935	1129.2	1149.2		0.577	4.105	74.326	18.490	2.240	0.083	0.146	0.008	0.007	0.019	0.000				1379.99	
21	0.6938	1130.1	1150.1		0.565	4.090	74.485	18.192	2.368	0.093	0.170	0.010	0.009	0.020	0.000				1380.83	
22	0.6919	1127.8	1147.8		0.586	4.028	74.649	18.251	2.227	0.083	0.144	0.007	0.006	0.018	0.000				1379.82	
23	0.6908	1128.6	1148.6		0.555	3.919	75.002	17.948	2.278	0.098	0.167	0.010	0.009	0.015	0.000				1381.92	
24	0.6846	1122.0	1141.8		0.485	3.850	76.114	17.066	2.171	0.106	0.176	0.013	0.012	0.006	0.000				1379.97	
25	0.6855	1119.6	1139.5		0.502	4.047	75.780	17.323	2.067	0.091	0.150	0.011	0.010	0.020	0.000				1376.26	
26	0.6859	1118.3	1138.1		0.503	4.172	75.420	17.751	1.920	0.074	0.129	0.006	0.005	0.019	0.000				1374.14	
27	0.6797	1112.9	1132.6		0.455	3.983	76.475	17.129	1.740	0.070	0.119	0.006	0.005	0.018	0.000				1373.85	
28	0.6871	1123.1	1143.0		0.535	3.932	75.639	17.416	2.182	0.099	0.163	0.011	0.011	0.012	0.000				1378.94	
29	0.6939	1132.3	1152.3		0.627	3.880	74.430	18.491	2.274	0.097	0.165	0.011	0.010	0.014	0.000				1383.30	
30	0.6886	1128.2	1148.1		0.564	3.720	75.404	17.824	2.183	0.102	0.170	0.014	0.013	0.006	0.000				1383.65	
Avg	0.6839	1124.0	1144.1		0.482	3.645	76.271	17.184	2.092	0.103	0.179	0.015	0.015	0.015	0.000				1383.51	

Zone 262

Williston Basin Interstate Pipeline Co.

GQ Source Analysis

GQ Source Number:	2501030		
GQ Source Name:	LIGNITE PLANT	**Specific Gravity:**	0.6625
Effective Date:	6/10/2008 9:00:00 AM	**BTU Base:**	Dry
Effective End Date:	1/18/2038 9:14:07 PM	**Dry Heat Value:**	1131.70
Pressure Base:	14.730	**Wet Heat Value:**	1112.00
Viscosity:		**As Deliv. Heat Value:**	1131.70

		Mol %	Imported GPM	Calculated GPM
C1	Methane	78.434		
C2	Ethane	17.596		4.692
C3	Propane	0.885	0.243	0.243
IC4	Iso-Butane	0.000	0.000	0.000
NC4	N-Butane	0.000	0.000	0.000
IC5	Iso-Pentane	0.000	0.000	0.000
NC5	N-Pentane	0.000	0.000	0.000
C6+	Hexanes Plus	0.046	0.021	0.019
CO2	Carbon Dioxide	0.105		
N2	Nitrogen	2.934		
O2	Oxygen	0.000		
HE	Helium			
H2	Hydrogen			
H2S	Hydrogen Sulfide			
	Totals	100.000	0.264	4.954

Sample Date: 5/31/2008 12:00:00 AM
Sample Type: Composite
Sample Tech: sampler
Sample Remarks: Zone 263
Analysis Remarks:

Williston Basin Interstate Pipeline Co.

GQ Source Daily Summary

June 2008

Number: 043

Name: BISMARCK PLANT CLEVELAND PLANT

Pressure Base: 14.730

Temperature Base:

Contract Day: 1 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	Cri'therm
1	0.6827	1128.8	1148.8		0.423	3.333	77.103	16.387	2.239	0.143	0.278	0.030	0.031	0.032	0.000				1390.33	
2	0.6892	1137.9	1158.1		0.393	3.434	76.493	16.458	2.522	0.175	0.349	0.049	0.059	0.067	0.000				1394.86	
3	0.6796	1123.7	1143.6		0.401	3.384	77.508	16.117	2.119	0.131	0.248	0.028	0.030	0.035	0.000				1387.25	
4	0.6778	1117.6	1137.4		0.434	3.547	77.419	16.269	2.018	0.097	0.161	0.013	0.014	0.028	0.000				1381.47	
5	0.6810	1120.1	1139.9		0.440	3.682	76.789	16.706	2.083	0.095	0.156	0.012	0.011	0.026	0.000				1381.39	
6	0.6926	1140.9	1161.1		0.448	3.484	75.820	17.032	2.512	0.175	0.372	0.049	0.055	0.052	0.000				1395.10	
7	0.6739	1116.5	1136.2		0.424	3.263	78.045	16.145	1.813	0.096	0.158	0.014	0.014	0.028	0.000				1384.12	
8	0.6731	1115.1	1134.8		0.398	3.316	77.968	16.346	1.701	0.084	0.138	0.011	0.011	0.026	0.000				1383.17	
9	0.6659	1108.4	1128.0		0.326	3.152	79.233	15.499	1.512	0.086	0.139	0.013	0.013	0.028	0.000				1382.34	
10	0.6713	1112.8	1132.5		0.367	3.329	78.365	15.959	1.674	0.092	0.154	0.015	0.015	0.029	0.000				1382.23	
11	0.6689	1110.6	1130.2		0.360	3.247	78.697	15.847	1.576	0.086	0.138	0.012	0.012	0.027	0.000				1382.02	
12	0.6795	1120.1	1139.9		0.496	3.466	77.013	16.784	1.947	0.093	0.157	0.012	0.011	0.022	0.000				1382.79	
13	0.6824	1124.0	1143.9		0.544	3.421	76.563	17.156	2.014	0.096	0.161	0.012	0.011	0.020	0.000				1384.72	
14	0.6824	1124.1	1144.0		0.542	3.423	76.658	16.969	2.094	0.100	0.168	0.013	0.012	0.021	0.000				1384.78	
15	0.6836	1123.1	1143.0		0.528	3.613	76.425	16.985	2.127	0.101	0.172	0.013	0.013	0.022	0.000				1382.43	
16	0.6829	1123.1	1143.0		0.527	3.551	76.552	16.940	2.114	0.099	0.169	0.013	0.013	0.022	0.000				1383.08	
17	0.6831	1123.3	1143.2		0.512	3.578	76.513	16.965	2.101	0.102	0.175	0.015	0.015	0.024	0.000				1383.18	
18	0.6859	1125.4	1145.3		0.533	3.684	75.974	17.343	2.144	0.099	0.169	0.014	0.015	0.025	0.000				1382.88	
19	0.6931	1127.9	1147.8		0.580	4.141	74.510	18.209	2.285	0.083	0.151	0.009	0.008	0.024	0.000				1378.72	
20	0.6922	1127.6	1147.6		0.590	4.058	74.780	17.972	2.299	0.089	0.166	0.011	0.010	0.024	0.000				1379.27	
21	0.6905	1127.8	1147.8		0.573	3.911	75.106	17.843	2.264	0.094	0.165	0.011	0.010	0.023	0.000				1381.22	
22	0.6848	1122.3	1142.2		0.497	3.819	76.258	16.869	2.209	0.108	0.185	0.015	0.015	0.025	0.000				1380.27	
23	0.6828	1117.2	1137.0		0.493	3.949	76.429	16.764	2.051	0.098	0.164	0.014	0.014	0.025	0.000				1375.97	
24	0.6868	1119.6	1139.4		0.536	4.120	75.546	17.456	2.065	0.085	0.146	0.011	0.010	0.025	0.000				1374.87	
25	0.6780	1110.7	1130.4		0.428	3.999	76.712	17.000	1.653	0.061	0.109	0.007	0.006	0.026	0.000				1372.82	
26	0.6805	1112.0	1131.7		0.498	4.048	76.501	16.884	1.818	0.077	0.133	0.010	0.009	0.021	0.000				1371.83	
27	0.6857	1121.0	1140.8		0.526	3.945	75.954	17.105	2.161	0.097	0.162	0.013	0.013	0.025	0.000				1377.67	
28	0.6901	1129.0	1149.0		0.598	3.763	75.121	18.067	2.147	0.094	0.163	0.013	0.012	0.022	0.000				1383.10	
29	0.6902	1129.5	1149.5		0.608	3.718	75.384	17.660	2.271	0.109	0.187	0.018	0.019	0.026	0.000				1383.68	
30	0.6936	1131.7	1151.7		0.644	3.854	74.658	18.203	2.325	0.093	0.165	0.014	0.015	0.028	0.000				1382.91	
Avg	0.6828	1122.0	1142.3		0.489	3.641	76.537	16.931	2.062	0.101	0.179	0.016	0.017	0.028	0.000				1382.35	

Zone 271

Williston Basin Interstate Pipeline Co.

GQ Source Daily Summary

June 2008

Number: 063

Name: CLEVELAND PLANT MAPLETON

Pressure Base: 14.730

Temperature Base:

Contract Day: 1 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	Cri'therm
1	0.6827	1128.8	1148.8		0.423	3.333	77.104	16.387	2.239	0.143	0.278	0.030	0.031	0.032	0.000				1390.32	
2	0.6892	1137.9	1158.1		0.393	3.434	76.493	16.458	2.522	0.175	0.349	0.049	0.059	0.067	0.000				1394.86	
3	0.6796	1123.7	1143.6		0.401	3.385	77.507	16.117	2.119	0.131	0.248	0.028	0.030	0.035	0.000				1387.24	
4	0.6778	1117.6	1137.4		0.434	3.547	77.419	16.269	2.018	0.097	0.161	0.013	0.014	0.028	0.000				1381.47	
5	0.6810	1120.1	1139.9		0.440	3.683	76.786	16.709	2.083	0.095	0.156	0.012	0.011	0.026	0.000				1381.38	
6	0.6926	1140.9	1161.1		0.448	3.484	75.820	17.032	2.512	0.175	0.372	0.049	0.055	0.052	0.000				1395.10	
7	0.6739	1116.5	1136.2		0.424	3.263	78.045	16.145	1.813	0.096	0.158	0.014	0.014	0.028	0.000				1384.12	
8	0.6731	1115.1	1134.8		0.398	3.316	77.968	16.345	1.701	0.084	0.138	0.011	0.011	0.026	0.000				1383.17	
9	0.6658	1108.2	1127.8		0.326	3.152	79.255	15.480	1.510	0.086	0.138	0.013	0.013	0.028	0.000				1382.24	
10	0.6713	1112.8	1132.5		0.367	3.329	78.364	15.959	1.674	0.092	0.154	0.015	0.015	0.029	0.000				1382.23	
11	0.6687	1110.4	1130.1		0.358	3.247	78.712	15.839	1.570	0.085	0.138	0.012	0.012	0.027	0.000				1381.94	
12	0.6795	1120.1	1139.9		0.496	3.466	77.012	16.785	1.947	0.093	0.157	0.012	0.011	0.022	0.000				1382.79	
13	0.6824	1124.0	1143.9		0.544	3.421	76.563	17.157	2.014	0.096	0.161	0.012	0.011	0.020	0.000				1384.72	
14	0.6824	1124.1	1144.0		0.542	3.423	76.657	16.970	2.094	0.100	0.168	0.013	0.012	0.021	0.000				1384.79	
15	0.6836	1123.1	1143.0		0.528	3.613	76.425	16.985	2.127	0.101	0.172	0.013	0.013	0.022	0.000				1382.43	
16	0.6829	1123.1	1143.0		0.527	3.552	76.552	16.938	2.115	0.099	0.169	0.013	0.013	0.022	0.000				1383.07	
17	0.6831	1123.3	1143.2		0.512	3.578	76.513	16.965	2.101	0.102	0.175	0.015	0.015	0.024	0.000				1383.18	
18	0.6859	1125.4	1145.3		0.533	3.684	75.974	17.343	2.144	0.099	0.169	0.014	0.015	0.025	0.000				1382.88	
19	0.6932	1127.9	1147.8		0.580	4.144	74.507	18.209	2.285	0.083	0.151	0.009	0.008	0.025	0.000				1378.70	
20	0.6922	1127.6	1147.6		0.590	4.058	74.780	17.973	2.299	0.089	0.166	0.011	0.010	0.024	0.000				1379.27	
21	0.6905	1127.8	1147.8		0.573	3.911	75.106	17.843	2.264	0.094	0.165	0.011	0.010	0.023	0.000				1381.22	
22	0.6848	1122.3	1142.2		0.497	3.819	76.258	16.869	2.209	0.108	0.185	0.015	0.015	0.025	0.000				1380.27	
23	0.6828	1117.2	1137.0		0.493	3.949	76.429	16.764	2.051	0.098	0.164	0.014	0.014	0.025	0.000				1375.98	
24	0.6868	1119.6	1139.4		0.536	4.120	75.546	17.457	2.065	0.085	0.146	0.011	0.010	0.025	0.000				1374.87	
25	0.6780	1110.7	1130.4		0.428	3.999	76.711	17.000	1.653	0.061	0.109	0.007	0.006	0.026	0.000				1372.82	
26	0.6805	1112.0	1131.7		0.498	4.048	76.501	16.884	1.818	0.077	0.133	0.010	0.009	0.021	0.000				1371.83	
27	0.6857	1121.0	1140.8		0.526	3.945	75.954	17.105	2.161	0.097	0.162	0.013	0.013	0.025	0.000				1377.67	
28	0.6901	1129.0	1149.0		0.598	3.763	75.121	18.066	2.147	0.094	0.163	0.013	0.012	0.022	0.000				1383.10	
29	0.6902	1129.6	1149.6		0.608	3.718	75.374	17.670	2.270	0.110	0.187	0.018	0.019	0.026	0.000				1383.74	
30	0.6936	1131.7	1151.7		0.644	3.854	74.659	18.203	2.325	0.093	0.165	0.014	0.015	0.028	0.000				1382.92	
Avg	0.6828	1122.0	1142.3		0.489	3.641	76.537	16.931	2.062	0.101	0.179	0.016	0.017	0.028	0.000				1382.34	

Zone 272

Williston Basin Interstate Pipeline Co.

GQ Source Daily Summary

June 2008

Number: 061

Name: CLEVELAND PLANT GRAFTON

Pressure Base: 14.730

Temperature Base:

Contract Day: 1 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	Cri'therm
1	0.6827	1128.8	1148.8		0.423	3.333	77.104	16.387	2.239	0.143	0.278	0.030	0.031	0.032	0.000				1390.32	
2	0.6893	1138.0	1158.2		0.393	3.434	76.487	16.458	2.527	0.175	0.351	0.049	0.059	0.067	0.000				1394.92	
3	0.6796	1123.7	1143.6		0.401	3.385	77.507	16.117	2.119	0.131	0.248	0.028	0.030	0.035	0.000				1387.25	
4	0.6778	1117.6	1137.4		0.434	3.547	77.419	16.269	2.018	0.097	0.161	0.013	0.014	0.028	0.000				1381.47	
5	0.6810	1120.1	1139.9		0.440	3.683	76.785	16.709	2.083	0.095	0.156	0.012	0.011	0.026	0.000				1381.38	
6	0.6926	1140.9	1161.1		0.448	3.484	75.820	17.032	2.512	0.175	0.372	0.049	0.055	0.052	0.000				1395.10	
7	0.6739	1116.5	1136.2		0.424	3.263	78.045	16.145	1.813	0.096	0.158	0.014	0.014	0.028	0.000				1384.12	
8	0.6731	1115.1	1134.8		0.398	3.316	77.968	16.345	1.701	0.084	0.138	0.011	0.011	0.026	0.000				1383.17	
9	0.6657	1108.2	1127.8		0.326	3.151	79.258	15.478	1.509	0.086	0.138	0.013	0.013	0.028	0.000				1382.24	
10	0.6714	1113.0	1132.7		0.367	3.331	78.350	15.961	1.681	0.093	0.156	0.015	0.016	0.030	0.000				1382.30	
11	0.6683	1109.9	1129.6		0.353	3.242	78.776	15.805	1.552	0.084	0.136	0.012	0.012	0.027	0.000				1381.79	
12	0.6795	1120.1	1139.9		0.496	3.466	77.012	16.785	1.947	0.093	0.157	0.012	0.011	0.022	0.000				1382.79	
13	0.6824	1124.0	1143.9		0.544	3.421	76.563	17.156	2.014	0.096	0.161	0.012	0.011	0.020	0.000				1384.72	
14	0.6824	1124.1	1144.0		0.542	3.423	76.657	16.970	2.094	0.100	0.168	0.013	0.012	0.021	0.000				1384.79	
15	0.6836	1123.1	1143.0		0.528	3.613	76.425	16.985	2.127	0.101	0.172	0.013	0.013	0.022	0.000				1382.43	
16	0.6829	1123.1	1143.0		0.527	3.552	76.552	16.938	2.115	0.099	0.169	0.013	0.013	0.022	0.000				1383.07	
17	0.6831	1123.3	1143.2		0.512	3.578	76.513	16.965	2.101	0.102	0.175	0.015	0.015	0.024	0.000				1383.18	
18	0.6859	1125.4	1145.3		0.533	3.684	75.974	17.343	2.144	0.099	0.169	0.014	0.015	0.025	0.000				1382.88	
19	0.6931	1127.9	1147.9		0.580	4.141	74.509	18.210	2.285	0.083	0.151	0.009	0.008	0.024	0.000				1378.73	
20	0.6922	1127.6	1147.6		0.590	4.058	74.780	17.973	2.299	0.089	0.166	0.011	0.010	0.024	0.000				1379.27	
21	0.6905	1127.8	1147.8		0.573	3.911	75.106	17.843	2.264	0.094	0.165	0.011	0.010	0.023	0.000				1381.22	
22	0.6848	1122.3	1142.2		0.497	3.819	76.259	16.869	2.209	0.108	0.185	0.015	0.015	0.025	0.000				1380.27	
23	0.6828	1117.2	1137.0		0.493	3.949	76.429	16.764	2.051	0.098	0.164	0.014	0.014	0.025	0.000				1375.97	
24	0.6868	1119.6	1139.4		0.536	4.120	75.546	17.457	2.065	0.085	0.146	0.011	0.010	0.025	0.000				1374.87	
25	0.6780	1110.7	1130.4		0.428	3.999	76.711	17.000	1.653	0.061	0.109	0.007	0.006	0.026	0.000				1372.82	
26	0.6805	1112.0	1131.7		0.498	4.048	76.501	16.884	1.818	0.077	0.133	0.010	0.009	0.021	0.000				1371.83	
27	0.6857	1121.0	1140.8		0.526	3.945	75.954	17.105	2.161	0.097	0.162	0.013	0.013	0.025	0.000				1377.67	
28	0.6901	1129.0	1149.0		0.598	3.763	75.121	18.066	2.147	0.094	0.163	0.013	0.012	0.022	0.000				1383.10	
29	0.6902	1129.6	1149.6		0.608	3.718	75.374	17.670	2.270	0.110	0.187	0.018	0.019	0.026	0.000				1383.74	
30	0.6936	1131.7	1151.7		0.644	3.854	74.658	18.203	2.325	0.093	0.165	0.014	0.015	0.028	0.000				1382.92	
Avg	0.6828	1122.0	1142.2		0.489	3.641	76.539	16.930	2.061	0.101	0.179	0.016	0.017	0.028	0.000				1382.34	

Zone 273

Williston Basin Interstate Pipeline Co.

GQ Source Daily Summary

June 2008

Number: 041

Name: BISMARCK PLANT DICKINSON PLANT

Pressure Base: 14.730

Temperature Base:

Contract Day: 1 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	Cri'therm
1	0.6831	1129.3	1149.3		0.425	3.344	77.038	16.422	2.255	0.144	0.280	0.030	0.031	0.032	0.000				1390.42	
2	0.6908	1140.3	1160.5		0.396	3.437	76.319	16.518	2.594	0.183	0.372	0.052	0.061	0.067	0.000				1396.09	
3	0.6804	1124.9	1144.8		0.403	3.386	77.415	16.153	2.157	0.135	0.257	0.029	0.030	0.035	0.000				1387.86	
4	0.6781	1117.8	1137.6		0.436	3.556	77.377	16.293	2.024	0.097	0.161	0.013	0.014	0.029	0.000				1381.48	
5	0.6812	1120.3	1140.1		0.441	3.689	76.751	16.732	2.086	0.095	0.156	0.012	0.011	0.027	0.000				1381.39	
6	0.6932	1141.9	1162.1		0.449	3.487	75.747	17.054	2.548	0.178	0.378	0.050	0.056	0.052	0.000				1395.59	
7	0.6741	1116.7	1136.5		0.424	3.262	78.020	16.162	1.818	0.096	0.159	0.014	0.015	0.029	0.000				1384.26	
8	0.6736	1115.5	1135.2		0.401	3.332	77.898	16.377	1.717	0.085	0.141	0.011	0.011	0.027	0.000				1383.18	
9	0.6663	1108.8	1128.4		0.328	3.162	79.169	15.540	1.521	0.087	0.139	0.013	0.013	0.028	0.000				1382.41	
10	0.6696	1110.3	1130.0		0.379	3.301	78.780	15.534	1.682	0.097	0.162	0.016	0.017	0.030	0.000				1380.87	
11	0.6701	1111.7	1131.4		0.375	3.273	78.498	15.960	1.615	0.087	0.140	0.012	0.012	0.027	0.000				1382.10	
12	0.6798	1120.2	1140.1		0.498	3.480	76.961	16.814	1.950	0.094	0.158	0.012	0.011	0.023	0.000				1382.71	
13	0.6825	1124.2	1144.1		0.545	3.419	76.540	17.178	2.017	0.096	0.162	0.012	0.011	0.020	0.000				1384.88	
14	0.6827	1124.5	1144.4		0.543	3.418	76.615	17.014	2.096	0.100	0.168	0.013	0.012	0.021	0.000				1385.06	
15	0.6838	1123.5	1143.4		0.529	3.608	76.395	17.015	2.130	0.101	0.172	0.013	0.013	0.023	0.000				1382.65	
16	0.6831	1123.3	1143.2		0.528	3.553	76.521	16.965	2.118	0.099	0.169	0.013	0.013	0.023	0.000				1383.19	
17	0.6834	1123.6	1143.5		0.513	3.585	76.472	16.987	2.110	0.103	0.176	0.015	0.015	0.024	0.000				1383.24	
18	0.6860	1125.5	1145.5		0.534	3.680	75.967	17.349	2.147	0.099	0.170	0.014	0.015	0.025	0.000				1383.02	
19	0.6934	1128.1	1148.1		0.581	4.146	74.469	18.241	2.288	0.083	0.150	0.009	0.008	0.025	0.000				1378.78	
20	0.6926	1128.1	1148.1		0.592	4.061	74.720	18.011	2.313	0.090	0.168	0.011	0.010	0.024	0.000				1379.50	
21	0.6908	1128.1	1148.0		0.575	3.915	75.067	17.868	2.272	0.094	0.165	0.011	0.010	0.024	0.000				1381.31	
22	0.6850	1122.6	1142.4		0.498	3.819	76.235	16.886	2.214	0.108	0.186	0.015	0.015	0.025	0.000				1380.38	
23	0.6829	1117.3	1137.1		0.494	3.949	76.411	16.776	2.054	0.098	0.165	0.014	0.014	0.025	0.000				1376.06	
24	0.6870	1119.7	1139.6		0.537	4.121	75.523	17.475	2.067	0.085	0.146	0.011	0.010	0.025	0.000				1374.92	
25	0.6785	1111.4	1131.1		0.432	3.996	76.645	17.043	1.672	0.062	0.110	0.007	0.006	0.027	0.000				1373.16	
26	0.6811	1112.8	1132.5		0.505	4.049	76.411	16.941	1.841	0.078	0.135	0.010	0.009	0.021	0.000				1372.17	
27	0.6858	1121.2	1141.1		0.526	3.942	75.937	17.119	2.166	0.097	0.163	0.013	0.013	0.025	0.000				1377.83	
28	0.6904	1129.5	1149.5		0.600	3.756	75.079	18.107	2.153	0.094	0.163	0.013	0.013	0.022	0.000				1383.42	
29	0.6905	1129.9	1149.9		0.609	3.723	75.333	17.697	2.277	0.110	0.188	0.018	0.019	0.026	0.000				1383.81	
30	0.6939	1132.1	1152.2		0.646	3.854	74.605	18.247	2.331	0.093	0.166	0.014	0.015	0.028	0.000				1383.13	
Avg	0.6831	1123.0	1142.6		0.491	3.643	76.497	16.949	2.074	0.102	0.181	0.016	0.017	0.028	0.000				1382.50	

Zone 28

Attachment B
Page 10 of 15

Williston Basin Interstate Pipeline Co.

GQ Source Daily Summary

June 2008

Number: 271

Name: DICKINSON BORDER

Pressure Base: 14.730

Temperature Base:

Contract Day: 1 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	Cri'therm
1	0.6225	1032.4	1050.7		0.641	3.211	87.844	6.977	1.117	0.090	0.092	0.000	0.000	0.029	0.000				1331.75	
2	0.6203	1026.7	1044.8		0.696	3.277	88.224	6.571	1.029	0.086	0.087	0.000	0.000	0.030	0.000				1326.61	
3	0.6186	1023.1	1041.2		0.652	3.400	88.441	6.329	0.988	0.078	0.083	0.000	0.000	0.029	0.000				1323.84	
4	0.6143	1015.6	1033.5		0.636	3.478	89.155	5.671	0.893	0.067	0.072	0.000	0.000	0.028	0.000				1318.67	
5	0.6158	1023.7	1041.9		0.578	3.212	88.820	6.319	0.900	0.069	0.070	0.000	0.000	0.034	0.000				1327.65	
6	0.6133	1018.5	1036.6		0.632	3.211	89.349	5.784	0.860	0.069	0.071	0.000	0.000	0.024	0.000				1323.58	
7	0.6140	1018.6	1036.6		0.616	3.298	89.192	5.853	0.877	0.069	0.072	0.000	0.000	0.023	0.000				1322.89	
8	0.6177	1022.7	1040.8		0.655	3.333	88.591	6.271	0.973	0.072	0.080	0.000	0.000	0.024	0.000				1324.30	
9	0.6168	1022.6	1040.7		0.616	3.314	88.705	6.251	0.940	0.072	0.079	0.000	0.000	0.024	0.000				1325.14	
10	0.6085	1012.2	1030.1		0.658	3.099	90.365	4.902	0.789	0.076	0.085	0.001	0.000	0.025	0.000				1320.60	
11	0.6098	1011.0	1028.9		0.695	3.237	90.195	4.841	0.826	0.089	0.088	0.000	0.000	0.029	0.000				1317.62	
12	0.6027	1001.9	1019.7		0.668	3.173	91.368	3.975	0.639	0.079	0.070	0.000	0.000	0.028	0.000				1313.40	
13	0.6010	998.9	1016.6		0.636	3.241	91.590	3.792	0.578	0.072	0.065	0.000	0.000	0.026	0.000				1311.34	
14	0.6044	1005.1	1022.9		0.594	3.249	90.991	4.289	0.708	0.074	0.072	0.000	0.000	0.024	0.000				1315.73	
15	0.6070	1007.7	1025.5		0.604	3.320	90.427	4.770	0.733	0.062	0.063	0.000	0.000	0.019	0.000				1316.28	
16	0.6096	1013.8	1031.8		0.620	3.165	89.989	5.303	0.772	0.066	0.065	0.002	0.000	0.019	0.000				1321.51	
17	0.6100	1013.9	1031.8		0.615	3.210	89.923	5.308	0.786	0.069	0.068	0.001	0.000	0.021	0.000				1321.11	
18	0.6104	1013.8	1031.8		0.621	3.237	89.902	5.245	0.828	0.072	0.073	0.000	0.000	0.021	0.000				1320.64	
19	0.6074	1008.4	1026.3		0.626	3.279	90.453	4.706	0.775	0.069	0.070	0.001	0.000	0.021	0.000				1316.83	
20	0.6074	1008.4	1026.3		0.619	3.293	90.401	4.776	0.756	0.067	0.066	0.000	0.000	0.022	0.000				1316.79	
21	0.6115	1016.7	1034.7		0.612	3.182	89.666	5.554	0.824	0.068	0.068	0.000	0.000	0.025	0.000				1323.15	
22	0.6118	1014.8	1032.8		0.692	3.204	89.687	5.422	0.831	0.068	0.070	0.000	0.000	0.025	0.000				1320.41	
23	0.6108	1012.4	1030.3		0.700	3.243	89.866	5.224	0.811	0.066	0.067	0.000	0.000	0.023	0.000				1318.33	
24	0.6094	1011.2	1029.1		0.689	3.200	90.141	5.016	0.791	0.070	0.069	0.001	0.000	0.023	0.000				1318.31	
25	0.6133	1017.7	1035.7		0.664	3.211	89.432	5.648	0.862	0.077	0.077	0.005	0.000	0.024	0.000				1322.51	
26	0.6121	1019.2	1037.3		0.652	3.021	89.671	5.624	0.857	0.077	0.073	0.000	0.000	0.026	0.000				1325.85	
27	0.6030	1000.5	1018.3		0.705	3.228	91.313	3.936	0.663	0.068	0.062	0.000	0.000	0.025	0.000				1311.26	
28	0.6044	1003.1	1020.9		0.662	3.271	91.031	4.171	0.701	0.072	0.066	0.001	0.000	0.025	0.000				1313.06	
29	0.6080	1012.2	1030.2		0.636	3.091	90.311	5.072	0.738	0.069	0.060	0.001	0.000	0.023	0.000				1321.13	
30	0.6076	1015.5	1033.5		0.658	2.817	90.503	5.105	0.750	0.078	0.062	0.002	0.000	0.024	0.000				1325.84	
Avg	0.6108	1014.0	1032.0		0.645	3.224	89.852	5.290	0.820	0.073	0.072	0.000	0.000	0.025	0.000				1320.54	

Zone 31

Williston Basin Interstate Pipeline Co.

GQ Source Daily Summary

June 2008

Number: 051

Name: CABIN CREEK DICKINSON PLANT

Pressure Base: 14.730

Temperature Base:

Contract Day: 1 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	Cri'therm
1	0.6187	1025.6	1043.7		0.624	3.309	88.648	6.077	1.109	0.093	0.093	0.019	0.011	0.019	0.000				1326.88	
2	0.6192	1022.6	1040.7		0.693	3.427	88.536	6.066	1.050	0.087	0.093	0.018	0.011	0.020	0.000				1322.58	
3	0.6071	1005.3	1023.1		0.540	3.574	90.671	4.065	0.957	0.075	0.080	0.013	0.007	0.017	0.000				1313.10	
4	0.6132	1015.6	1033.6		0.582	3.465	89.395	5.462	0.913	0.071	0.074	0.014	0.008	0.014	0.000				1319.83	
5	0.6122	1017.8	1035.8		0.587	3.218	90.116	4.653	1.229	0.072	0.072	0.014	0.013	0.020	0.000				1323.72	
6	0.6122	1014.8	1032.8		0.626	3.344	89.595	5.407	0.851	0.069	0.074	0.014	0.009	0.011	0.000				1320.00	
7	0.6125	1014.1	1032.1		0.643	3.391	89.673	5.158	0.941	0.077	0.081	0.015	0.009	0.012	0.000				1318.72	
8	0.6153	1017.6	1035.6		0.652	3.432	89.133	5.610	0.976	0.074	0.085	0.015	0.010	0.013	0.000				1320.18	
9	0.6151	1018.0	1036.1		0.622	3.430	89.150	5.637	0.952	0.078	0.091	0.017	0.010	0.012	0.000				1321.00	
10	0.6057	1006.2	1024.1		0.697	3.145	91.069	4.074	0.801	0.082	0.087	0.019	0.011	0.014	0.000				1315.83	
11	0.6027	1000.4	1018.1		0.660	3.281	91.551	3.570	0.719	0.088	0.083	0.019	0.011	0.018	0.000				1311.41	
12	0.5958	991.0	1008.5		0.580	3.324	92.719	2.577	0.608	0.079	0.071	0.016	0.008	0.017	0.000				1306.60	
13	0.5976	993.7	1011.3		0.556	3.369	92.270	3.026	0.593	0.076	0.070	0.015	0.008	0.015	0.000				1308.17	
14	0.6020	1000.5	1018.2		0.548	3.377	91.509	3.632	0.754	0.074	0.073	0.013	0.008	0.013	0.000				1312.37	
15	0.6042	1002.3	1020.1		0.604	3.391	91.060	4.030	0.752	0.066	0.067	0.014	0.008	0.008	0.000				1312.31	
16	0.6051	1006.7	1024.5		0.613	3.189	91.034	4.182	0.797	0.075	0.073	0.016	0.009	0.013	0.000				1317.11	
17	0.6072	1009.5	1027.4		0.597	3.241	90.618	4.534	0.816	0.077	0.077	0.016	0.009	0.014	0.000				1318.48	
18	0.6088	1010.3	1028.2		0.618	3.312	90.307	4.744	0.825	0.076	0.078	0.017	0.011	0.013	0.000				1317.77	
19	0.6067	1005.7	1023.5		0.628	3.381	90.616	4.448	0.749	0.070	0.071	0.015	0.010	0.013	0.000				1314.05	
20	0.6087	1009.9	1027.8		0.625	3.314	90.256	4.853	0.769	0.072	0.071	0.016	0.010	0.013	0.000				1317.39	
21	0.6107	1013.6	1031.6		0.637	3.261	89.926	5.168	0.822	0.072	0.075	0.015	0.010	0.015	0.000				1320.05	
22	0.6111	1012.0	1029.9		0.710	3.286	89.892	5.122	0.807	0.070	0.073	0.015	0.009	0.015	0.000				1317.51	
23	0.6095	1008.8	1026.7		0.704	3.343	90.171	4.810	0.791	0.070	0.072	0.015	0.010	0.014	0.000				1315.02	
24	0.6107	1013.9	1031.8		0.693	3.158	90.027	5.103	0.823	0.078	0.077	0.017	0.010	0.015	0.000				1320.39	
25	0.6112	1014.9	1032.9		0.661	3.192	89.934	5.156	0.848	0.081	0.081	0.019	0.011	0.017	0.000				1321.21	
26	0.6095	1012.6	1030.5		0.676	3.150	90.250	4.913	0.812	0.078	0.077	0.017	0.010	0.016	0.000				1319.97	
27	0.6016	997.4	1015.1		0.693	3.307	91.640	3.537	0.645	0.072	0.066	0.016	0.009	0.014	0.000				1308.74	
28	0.6034	1001.3	1019.0		0.642	3.317	91.308	3.841	0.706	0.074	0.068	0.017	0.009	0.017	0.000				1311.84	
29	0.6065	1010.9	1028.8		0.643	3.020	90.742	4.668	0.744	0.076	0.067	0.016	0.009	0.014	0.000				1321.10	
30	0.6069	1014.3	1032.2		0.694	2.775	90.835	4.720	0.770	0.087	0.072	0.019	0.011	0.018	0.000				1325.05	
Avg	0.6084	1010.0	1027.5		0.635	3.291	90.422	4.628	0.831	0.076	0.076	0.016	0.010	0.015	0.000				1317.28	

Zone 32

Williston Basin Interstate Pipeline Co.

GQ Source Daily Summary

June 2008

Number: 111

Name: LITTLE KNIFE PLANT

Pressure Base: 14.730

Temperature Base:

Contract Day: 1 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	Cri'therm
1	0.6575	1124.0	1143.9		0.000	1.924	79.185	18.378	0.495	0.008	0.010	0.000	0.000	0.000	0.000				1410.67	
2	0.6561	1122.1	1142.0		0.000	1.908	79.443	18.165	0.466	0.008	0.010	0.000	0.000	0.000	0.000				1409.81	
3	0.6587	1125.4	1145.3		0.000	1.952	78.950	18.564	0.516	0.008	0.010	0.000	0.000	0.000	0.000				1411.16	
4	0.6606	1127.5	1147.5		0.000	1.995	78.731	18.564	0.690	0.009	0.011	0.000	0.000	0.000	0.000				1411.85	
5	0.6463	1108.5	1128.2		0.000	1.804	81.503	16.180	0.497	0.007	0.009	0.000	0.000	0.000	0.000				1403.37	
6	0.6547	1119.2	1139.0		0.000	1.945	79.810	17.686	0.542	0.008	0.010	0.000	0.000	0.000	0.000				1407.77	
7	0.6576	1122.8	1142.7		0.000	2.001	79.234	18.171	0.576	0.008	0.010	0.000	0.000	0.000	0.000				1409.16	
8	0.6580	1123.4	1143.3		0.000	2.008	79.137	18.260	0.577	0.008	0.010	0.000	0.000	0.000	0.000				1409.41	
9	0.6585	1123.6	1143.5		0.000	2.033	79.070	18.284	0.595	0.008	0.010	0.000	0.000	0.000	0.000				1409.23	
10	0.6600	1126.0	1145.9		0.000	2.037	78.828	18.436	0.680	0.008	0.010	0.000	0.000	0.000	0.000				1410.51	
11	0.6601	1126.7	1146.7		0.000	2.000	78.824	18.482	0.677	0.008	0.010	0.000	0.000	0.000	0.000				1411.33	
12	0.6599	1126.5	1146.4		0.000	1.990	78.861	18.465	0.666	0.008	0.010	0.000	0.000	0.000	0.000				1411.33	
13	0.6546	1119.5	1139.3		0.000	1.926	79.975	17.381	0.701	0.008	0.010	0.000	0.000	0.000	0.000				1408.12	
14	0.6586	1125.0	1144.9		0.000	1.965	79.187	18.094	0.735	0.008	0.010	0.000	0.000	0.000	0.000				1410.77	
15	0.6642	1132.2	1152.3		0.000	2.051	78.160	18.909	0.858	0.009	0.012	0.000	0.000	0.000	0.000				1413.84	
16	0.6655	1133.8	1153.9		0.000	2.078	78.031	18.869	1.001	0.009	0.012	0.000	0.000	0.000	0.000				1414.40	
17	0.6650	1134.9	1155.0		0.000	1.955	78.317	18.546	1.162	0.009	0.011	0.000	0.000	0.001	0.000				1416.41	
18	0.6704	1143.0	1163.3		0.000	1.971	77.652	18.752	1.602	0.010	0.011	0.000	0.000	0.001	0.000				1420.69	
19	0.6675	1138.2	1158.4		0.000	1.991	78.180	18.283	1.511	0.013	0.017	0.001	0.001	0.003	0.000				1417.81	
20	0.6691	1141.3	1161.5		0.000	1.952	77.856	18.643	1.526	0.010	0.012	0.000	0.000	0.001	0.000				1419.94	
21	0.6695	1141.8	1162.0		0.000	1.964	77.620	19.003	1.392	0.009	0.011	0.000	0.000	0.001	0.000				1420.13	
22	0.6669	1137.3	1157.4		0.000	1.989	77.993	18.771	1.225	0.009	0.011	0.000	0.000	0.001	0.000				1417.32	
23	0.6643	1133.6	1153.7		0.000	1.974	78.334	18.632	1.039	0.009	0.011	0.000	0.000	0.001	0.000				1415.44	
24	0.6642	1133.9	1154.0		0.000	1.948	78.345	18.653	1.032	0.009	0.011	0.000	0.000	0.001	0.000				1415.92	
25	0.6637	1133.0	1153.1		0.000	1.958	78.426	18.582	1.013	0.009	0.011	0.000	0.000	0.001	0.000				1415.30	
26	0.6626	1131.3	1151.3		0.000	1.955	78.609	18.454	0.961	0.009	0.011	0.000	0.000	0.001	0.000				1414.38	
27	0.6626	1131.3	1151.3		0.000	1.957	78.562	18.543	0.917	0.009	0.011	0.000	0.000	0.000	0.000				1414.35	
28	0.6629	1131.7	1151.7		0.000	1.956	78.518	18.581	0.924	0.009	0.011	0.000	0.000	0.001	0.000				1414.59	
29	0.6642	1133.5	1153.6		0.000	1.965	78.498	18.355	1.155	0.013	0.014	0.000	0.000	0.001	0.000				1415.49	
30	0.6629	1131.8	1151.9		0.000	1.944	78.673	18.293	1.062	0.012	0.014	0.000	0.000	0.001	0.000				1414.79	
Avg	0.6616	1129.0	1149.4		0.000	1.970	78.750	18.366	0.893	0.009	0.011	0.000	0.000	0.000	0.000				1413.18	

Zone 33

Williston Basin Interstate Pipeline Co.

GQ Source Analysis

GQ Source Number:	1202160		
GQ Source Name:	BOWMAN BORDER	**Specific Gravity:**	0.7958
Effective Date:	6/10/2008 9:00:00 AM	**BTU Base:**	Dry
Effective End Date:	1/18/2038 9:14:07 PM	**Dry Heat Value:**	1164.64
Pressure Base:	14.730	**Wet Heat Value:**	1144.37
Viscosity:		**As Deliv. Heat Value:**	1164.64

		Mol %	Imported GPM	Calculated GPM
C1	Methane	55.216		
C2	Ethane	28.065		7.483
C3	Propane	3.801	1.045	1.044
IC4	Iso-Butane	0.076	0.025	0.025
NC4	N-Butane	0.222	0.070	0.070
IC5	Iso-Pentane	0.010	0.004	0.004
NC5	N-Pentane	0.025	0.009	0.009
C6+	Hexanes Plus	0.003	0.001	0.001
CO2	Carbon Dioxide	2.108		
N2	Nitrogen	10.472		
O2	Oxygen	0.000		
HE	Helium			
H2	Hydrogen			
H2S	Hydrogen Sulfide			
	Totals	100.000	1.154	8.636

Sample Date: 5/31/2008 12:00:00 AM
Sample Type: Composite
Sample Tech: sampler
Sample Remarks: Zone 34
Analysis Remarks:

Williston Basin Interstate Pipeline Co.

GQ Source Analysis

GQ Source Number:	1201140		
GQ Source Name:	EAGLE 8B ND	**Specific Gravity:**	0.5730
Effective Date:	7/17/2007 9:00:00 AM	**BTU Base:**	Dry
Effective End Date:	7/1/2008 9:00:00 AM	**Dry Heat Value:**	976.12
Pressure Base:	14.730	**Wet Heat Value:**	959.13
Viscosity:		**As Deliv. Heat Value:**	976.12

		Mol %	Imported GPM	Calculated GPM
C1	Methane	95.696		
C2	Ethane	0.290	0.000	0.078
C3	Propane	0.009	0.003	0.002
IC4	Iso-Butane	0.007	0.003	0.002
NC4	N-Butane	0.000	0.000	
IC5	Iso-Pentane	0.000	0.000	
NC5	N-Pentane	0.000	0.000	
C6+	Hexanes Plus	0.000	0.000	0.000
CO2	Carbon Dioxide	0.083		
N2	Nitrogen	3.915		
O2	Oxygen	0.000		
HE	Helium	0.000		
H2	Hydrogen	0.000		
H2S	Hydrogen Sulfide	0.000		
	Totals	100.000	0.006	0.082

Sample Date: 6/11/2007 9:00:00 AM
Sample Type: Spot
Sample Tech: MG
Sample Remarks: Zone 35

Analysis Remarks:

NORTH DAKOTA HEATING VALUE ZONES		
ZONES	***MEASURING DEVICE***	***LOCATION***
211	Chromatograph	Sidney Area
24	Monthly Sampler	Williston Area
25	Monthly Sampler	Watford City Area
261	Chromatograph	Williston – Tioga – Minot Line
262	Chromatograph	Minot Area
263	Monthly Sampler	Tioga – Portal
264	Monthly Sampler	Williston – Ray
271	Chromatograph	Bismarck – Cleveland
272	Chromatograph	Cleveland – Mapleton
273	Chromatograph	Cleveland – Grafton
28	Chromatograph	Bismarck
31	Chromatograph	Dickinson
32	Chromatograph	Cabin Creek – Dickinson
33	Chromatograph	Killdeer
34	Monthly Sampler	Bowman Area
35	Monthly Sampler	Baker Field – North Dakota

MONTANA DAKOTA UTILITIES CO
NORTH DAKOTA
HEATING VALUE DATA
12 MONTH ACCUMULATIVE AT 14.73 psia, 60 f. DRY

STATE	ZONE	ZONE BOUNDARY	12 MONTH AVERAGE	JUNE 08	MAY 08	APR 08	MAR 08	FEB 08	JAN 08	DEC 07	NOV 07	OCT 07	SEPT 07	AUG 07	JULY 07	ZONE
MT/ND	211	Sidney Area	1148	1195	1190	1180	1095	1028	1075	1124	1160	1170	1183	1189	1188	21
ND	24	Williston Area	1184	1189	1193	1167	1160	1173	1181	1192	1195	1194	1190	1193	1186	24
ND	25	Watford City Area	1122	1130	1130	1120	1119	1125	1126	1118	1118	1119	1119	1120	1118	25
ND	261	Williston - Tioga - Minot Line	1148	1141	1147	1155	1140	1126	1136	1142	1147	1158	1152	1164	1168	261
ND	262	Minot Area	1150	1144	1152	1156	1141	1127	1136	1143	1149	1159	1153	1167	1170	262
ND	263	Tioga - Portal	1129	1132	1136	1127	1125	1130	1129	1132	1128	1129	1131	1130	1117	263
ND	264	Williston - Ray	1183	1189	1193	1167	0	0	0	0	0	0	0	0	0	264
ND	271	Bismarck - Cleveland	1120	1142	1151	1138	1086	1053	1059	1063	1105	1158	1153	1166	1169	271
ND	272	Cleveland - Mapleton	1120	1142	1151	1137	1086	1052	1059	1062	1107	1158	1152	1167	1169	272
ND	273	Cleveland - Grafton	1120	1142	1151	1137	1086	1052	1059	1062	1107	1158	1152	1167	1170	273
ND	28	Bismarck	1086	1143	1135	1035	1023	1022	1017	1015	1030	1124	1151	1167	1169	28
ND	31	Dickinson	1022	1032	1037	1023	1022	1021	1016	1014	1023	1023	1017	1006	1033	31
ND/MT	32	Cabin Creek - Dickinson	1018	1027	1031	1019	1020	1019	1014	1012	1021	1020	1013	991	1023	32
ND	33	Killdeer	1120	1149	1146	1126	1122	1118	1114	1111	1118	1113	1109	1106	1104	33
ND	34	Bowman Area	1173	1165	1167	1158	1161	1165	1174	1182	1189	1175	1175	1172	1190	34
ND	35	Baker Field - North Dakota	976	976	976	976	976	976	976	976	976	976	976	976	974	35