



MONTANA-DAKOTA

UTILITIES CO.

A Division of MDU Resources Group, Inc.

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

October 1, 2010

RECEIVED

OCT 04 2010

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

PUBLIC SERVICE COMMISSION

Re: Case No. 11,006 (Therm Billing)
Monthly Report – August 2010

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 September 2010.
2. Attachment B consists of copies of the monthly Heating Value Test Reports received from our supplier for the month of August 2010. 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.
5. Attachment E provides a brief explanation of the thermal variances, where applicable, for the month of August.

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
SEP 2010

Div Nbr	Off Code	City Name	Heat Zone Nbr	Therm Billing Factor
12	314	APPLE VALLEY	271	1.1453
12	327	BISMARCK	28	1.1405
12	343	CARRINGTON	273	1.1453
12	344	CLEVELAND	272	1.1373
12	364	CAVALIER	273	1.1694
12	365	DAWSON	271	1.1373
12	374	FT TOTTEN	273	1.1534
12	375	DEVILS LAKE	273	1.1534
12	379	BARLOW	273	1.1453
12	387	ELDRIDGE	272	1.1453
12	411	GLEN ULLIN	31	1.0059
12	417	GRAFTON	273	1.1775
12	439	HANKINSON	600	1.0719
12	449	JAMESTOWN	272	1.1534
12	463	LANGDON	273	1.1453
12	475	LINTON	802	.9745
12	478	LINCOLN	28	1.1405
12	494	MEDINA	271	1.1373
12	498	MANDAN	28	1.1405
12	524	NEW SALEM	28	1.1164
12	532	NEW ROCKFORD	273	1.1453
12	539	PARK RIVER	273	1.1694
12	574	SANBORN	272	1.1534
12	593	STEELE	271	1.1373
12	598	SHEYENNE	273	1.1534
12	610	TAPPEN	271	1.1373
12	625	VALLEY CITY	272	1.1614
12	629	WALHALLA	273	1.1694
12	647	WILTON	262	1.1230
12	717	SPIRITWOOD	272	1.1534
12	718	FAIRMOUNT	600	1.0697
12	732	MSR SITE	273	1.1453
12	733	PAR SITE	273	1.1453
15	303	ALEXANDER	25	1.0663
15	308	ARNEGARD	25	1.0663

MONTANA-DAKOTA UTILITIES CO.
Therm Billing Factor
SEP 2010

Div Nbr	Off Code	City Name	Heat Zone Nbr	Therm Billing Factor
15	318	BEACH	32	.9527
15	319	BELFIELD	32	.9598
15	323	BERTHOLD	262	1.1230
15	330	BOWMAN	34	1.0613
15	337	BURLINGTON	262	1.1473
15	368	DES LACS	262	1.1311
15	369	DICKINSON	31	.9987
15	384	EPPING	264	1.1447
15	407	GLADSTONE	31	.9987
15	413	GOLVA	32	.9388
15	416	GARRISON	262	1.1311
15	429	HEBRON	31	1.0059
15	459	KILLDEER	33	1.1117
15	469	LEFOR	31	.9987
15	474	LIGNITE	263	1.0721
15	500	MARMARTH	34	1.0692
15	505	MINOT	262	1.1473
15	510	MOTT	31	.9987
15	512	MAX	262	1.1230
15	522	NEW ENGLAND	31	.9914
15	540	PALERMO	262	1.1230
15	558	RAY	264	1.1447
15	561	REGENT	31	.9987
15	563	RHAME	34	1.0536
15	564	RICHARDTON	31	.9914
15	568	ROSS	261	1.0887
15	572	RUTHVILLE	262	1.1473
15	583	SENTINEL BUTTE	32	.9527
15	588	SOUTH HEART	31	.9914
15	590	SPRINGBROOK	264	1.1447
15	591	STANLEY	261	1.0966
15	605	SURREY	262	1.1473
15	611	TAYLOR	31	.9914
15	616	TIOGA	261	1.0887
15	619	TURTLE LAKE	262	1.1311

MONTANA-DAKOTA UTILITIES CO.
Therm Billing Factor
SEP 2010

Div Nbr	Off Code	City Name	Heat Zone Nbr	Therm Billing Factor
15	620	TRENTON	24	1.1530
15	624	UNDERWOOD	262	1.1311
15	632	WATFORD CITY	25	1.0663
15	636	WHEELLOCK	264	1.1365
15	637	WHITE EARTH	261	1.0966
15	642	WILLISTON	24	1.1530
15	646	WASHBURN	262	1.1392
15	664	RIVERDALE	262	1.1311
15	691	FAIRVIEW	24	1.1530
15	712	MINOT AFB	262	1.1473
15	743	BAKER FIELD	35	.8980

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

GQ Source Daily Summary August 2010

Number: 251 **Pressure Base:** 14.730 **Contract Day:** 1
Name: SIDNEY AREA **Temperature Base:** **Contract Hour:** 9

Day	Relative Density	Heating Value Wet	Heating Value Dry	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.7090	1183.7	1204.7	0.041	3.056	70.949	23.157	2.658	0.051	0.081	0.003	0.003	0.002	0.000	0.000	0.000	0.000	0.000	1430.70
2	0.7088	1183.7	1204.7	0.038	3.047	71.003	23.076	2.659	0.054	0.076	0.003	0.002	0.002	0.000	0.000	0.000	0.000	0.000	1430.87
3	0.7072	1181.8	1202.8	0.037	3.008	71.147	23.159	2.531	0.045	0.068	0.002	0.002	0.001	0.000	0.000	0.000	0.000	0.000	1430.27
4	0.7075	1181.7	1202.6	0.036	3.045	71.122	23.111	2.560	0.048	0.073	0.002	0.002	0.001	0.000	0.000	0.000	0.000	0.000	1429.79
5	0.7089	1183.7	1204.7	0.036	3.059	70.947	23.162	2.659	0.051	0.080	0.003	0.002	0.001	0.000	0.000	0.000	0.000	0.000	1430.75
6	0.7081	1180.7	1201.6	0.035	3.168	71.102	22.906	2.634	0.057	0.090	0.004	0.003	0.001	0.000	0.000	0.000	0.000	0.000	1427.95
7	0.7082	1181.9	1202.8	0.033	3.112	70.963	23.203	2.556	0.049	0.076	0.003	0.003	0.002	0.000	0.000	0.000	0.000	0.000	1429.22
8	0.7071	1179.4	1200.3	0.034	3.151	71.211	22.882	2.605	0.045	0.067	0.002	0.002	0.001	0.000	0.000	0.000	0.000	0.000	1427.44
9	0.7086	1182.6	1203.6	0.031	3.108	70.803	23.429	2.513	0.044	0.067	0.002	0.002	0.001	0.000	0.000	0.000	0.000	0.000	1429.74
10	0.7115	1186.1	1207.1	0.032	3.159	70.697	23.056	2.893	0.062	0.093	0.004	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1431.04
11	0.7101	1185.5	1206.5	0.029	3.072	70.658	23.470	2.644	0.047	0.071	0.003	0.003	0.002	0.000	0.000	0.000	0.000	0.000	1431.75
12	0.7141	1193.1	1214.3	0.032	2.977	70.407	23.344	3.036	0.071	0.118	0.006	0.006	0.003	0.000	0.000	0.000	0.000	0.000	1436.88
13	0.7106	1186.2	1207.2	0.035	3.067	70.710	23.293	2.743	0.057	0.086	0.003	0.003	0.002	0.000	0.000	0.000	0.000	0.000	1432.06
14	0.7079	1180.4	1201.3	0.038	3.163	70.985	23.153	2.538	0.047	0.071	0.002	0.002	0.001	0.000	0.000	0.000	0.000	0.000	1427.80
15	0.7064	1177.9	1198.7	0.037	3.180	71.186	23.032	2.447	0.045	0.067	0.002	0.002	0.001	0.000	0.000	0.000	0.000	0.000	1426.22
16	0.7096	1183.7	1204.7	0.036	3.126	70.745	23.338	2.619	0.050	0.078	0.003	0.002	0.001	0.000	0.000	0.000	0.000	0.000	1430.03
17	0.7073	1179.1	1200.0	0.035	3.186	71.090	23.035	2.538	0.045	0.066	0.002	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1426.88
18	0.7074	1179.9	1200.8	0.036	3.147	71.045	23.142	2.523	0.043	0.061	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1427.73
19	0.7105	1186.7	1207.7	0.035	3.028	70.623	23.503	2.691	0.048	0.067	0.002	0.001	0.002	0.000	0.000	0.000	0.000	0.000	1432.75
20	0.7110	1185.8	1206.8	0.034	3.128	70.740	23.080	2.877	0.053	0.080	0.003	0.003	0.002	0.000	0.000	0.000	0.000	0.000	1431.18
21	0.7179	1198.0	1219.2	0.030	3.040	69.886	23.510	3.351	0.067	0.105	0.004	0.004	0.002	0.000	0.000	0.000	0.000	0.000	1438.92
22	0.7135	1189.7	1210.7	0.032	3.128	70.424	23.211	3.053	0.060	0.085	0.003	0.002	0.002	0.000	0.000	0.000	0.000	0.000	1433.36
23	0.7102	1185.7	1206.7	0.036	3.060	70.742	23.287	2.750	0.049	0.071	0.002	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1431.82
24	0.7397	1199.8	1221.0	0.819	3.764	68.327	21.604	5.054	0.141	0.262	0.016	0.013	0.002	0.000	0.000	0.000	0.000	0.000	1419.91
25	0.7536	1209.6	1231.0	1.132	3.989	67.163	20.989	6.146	0.193	0.346	0.022	0.019	0.002	0.000	0.000	0.000	0.000	0.000	1418.04
26	0.7525	1207.1	1228.4	1.154	4.008	67.220	21.077	5.967	0.179	0.343	0.025	0.023	0.004	0.000	0.000	0.000	0.000	0.000	1416.05
27	0.7414	1189.2	1210.3	1.166	4.045	68.098	21.345	4.945	0.129	0.244	0.015	0.012	0.001	0.000	0.000	0.000	0.000	0.000	1405.57
28	0.7416	1189.9	1210.9	1.156	4.040	68.078	21.345	4.981	0.129	0.243	0.015	0.012	0.001	0.000	0.000	0.000	0.000	0.000	1406.13
29	0.7394	1186.6	1207.6	1.148	4.043	68.192	21.565	4.658	0.126	0.239	0.014	0.012	0.001	0.000	0.000	0.000	0.000	0.000	1404.38
30	0.7377	1185.5	1204.5	1.152	4.063	68.339	21.586	4.468	0.125	0.238	0.014	0.012	0.001	0.000	0.000	0.000	0.000	0.000	1402.42
31	0.7448	1195.2	1216.3	1.157	4.017	67.603	21.649	5.186	0.123	0.236	0.014	0.012	0.001	0.000	0.000	0.000	0.000	0.000	1409.34
Avg	0.7185	1187.0	1208.0	0.312	3.329	70.071	22.732	3.339	0.075	0.127	0.006	0.006	0.002	0.000	0.000	0.000	0.000	0.000	1425.39

Zone 211

GQ Source Analysis

GQ Source Number: 0602330
GQ Source Name: WILLISTON BORDER
Effective Date: 8/1/2010 9:00:00 AM
Effective End Date: 1/18/2038 9:14:07 PM
Pressure Base: 14.730
Viscosity:

Specific Gravity: 0.7264
BTU Base: Dry
Measured Heat Value: 1214.91
Dry Heat Value: 1211.97
Wet Heat Value: 1190.88
As Deliv. Heat Value: 1211.97

		<u>Mol %</u>	<u>GPM</u>			<u>Mol %</u>
C1	Methane	71.154		CO2	Carbon Dioxide	0.757
C2	Ethane	19.601	0.000	N2	Nitrogen	3.108
C3	Propane	4.539	1.247	O2	Oxygen	0.000
IC4	Iso-Butane	0.218	0.071	HE	Helium	
NC4	N-Butane	0.495	0.156	H2	Hydrogen	
IC5	Iso-Pentane	0.047	0.017	H2S	Hydrogen Sulfide	
NC5	N-Pentane	0.056	0.020	AR	Argon	
C6	Hexane	0.018	0.008	CO	Carbon Monoxide	
C7	Heptane			H2O	Water	
C8	Octane					
C9	Nonane					
C10	Decane					
Totals			99.993%		1.519 GPM	

Sample Date: 8/31/2010 12:00:00 AM
Sample Type: Composite
Sample Tech: sampler
Sample Remarks:

Analysis Remarks:

Zone 24, 264

GQ Source Analysis

GQ Source Number:	0602230	Specific Gravity:	0.7270
GQ Source Name:	WATFORD CITY BORDER	BTU Base:	Dry
Effective Date:	8/1/2010 9:00:00 AM	Measured Heat Value:	1131.78
Effective End Date:	1/18/2038 9:14:07 PM	Dry Heat Value:	1129.16
Pressure Base:	14.730	Wet Heat Value:	1109.51
Viscosity:		As Deliv. Heat Value:	1129.16

		<u>Mol %</u>	<u>GPM</u>			<u>Mol %</u>
C1	Methane	68.816		CO2	Carbon Dioxide	0.691
C2	Ethane	17.918	4.778	N2	Nitrogen	8.262
C3	Propane	3.699	1.016	O2	Oxygen	0.000
IC4	Iso-Butane	0.191	0.062	HE	Helium	
NC4	N-Butane	0.354	0.111	H2	Hydrogen	
IC5	Iso-Pentane	0.029	0.011	H2S	Hydrogen Sulfide	
NC5	N-Pentane	0.029	0.011	AR	Argon	
C6	Hexane	0.008	0.004	CO	Carbon Monoxide	
C7	Heptane			H2O	Water	
C8	Octane					
C9	Nonane					
C10	Decane					
Totals			99.998%		5.992 GPM	

Sample Date: 8/31/2010 12:00:00 AM
Sample Type: Composite
Sample Tech: sampler
Sample Remarks:

Analysis Remarks:

Zone 25

GQ Source Daily Summary

August 2010

Number: 163 **Pressure Base:** 14,730 **Contract Day:** 1
Name: NORTH TIOGA-MINOT **Temperature Base:** **Contract Hour:** 9

Day	Relative Density	Heating Value		C02	N2	C1	C2	C3	IC4	NC4	ICS	NCS	C6	C7	C8	C9	C10	Wobbe	CCT
		Wet	Dry																
1	0.6901	1136.3	1156.4	0.350	3.697	75.146	18.094	2.386	0.089	0.196	0.014	0.016	0.013	0.017	0.018	0.017	0.017	0.017	1392.01
2	0.6872	1131.9	1152.0	0.325	3.732	75.519	17.876	2.238	0.084	0.186	0.013	0.015	0.013	0.017	0.018	0.017	0.017	0.017	1389.57
3	0.6864	1131.1	1151.1	0.323	3.703	75.587	17.925	2.175	0.078	0.172	0.012	0.013	0.012	0.017	0.018	0.017	0.017	0.017	1389.43
4	0.6874	1133.1	1153.1	0.314	3.693	75.262	18.360	2.099	0.074	0.162	0.011	0.012	0.012	0.017	0.018	0.017	0.017	0.017	1390.83
5	0.6914	1138.5	1158.6	0.355	3.673	74.720	18.679	2.273	0.083	0.181	0.012	0.014	0.010	0.017	0.018	0.017	0.017	0.017	1393.46
6	0.7027	1156.1	1176.6	0.385	3.606	73.773	18.767	2.840	0.146	0.370	0.038	0.049	0.027	0.017	0.018	0.017	0.017	0.017	1403.61
7	0.6865	1131.3	1151.3	0.357	3.652	75.251	18.562	1.953	0.062	0.134	0.009	0.011	0.010	0.017	0.018	0.017	0.017	0.017	1389.58
8	0.6888	1135.8	1155.9	0.330	3.636	75.123	18.489	2.106	0.075	0.178	0.016	0.021	0.025	0.017	0.018	0.017	0.017	0.017	1392.76
9	0.6856	1131.2	1151.3	0.323	3.621	75.448	18.394	1.997	0.057	0.125	0.008	0.009	0.017	0.018	0.017	0.017	0.017	0.017	1390.44
10	0.6916	1140.6	1160.8	0.359	3.560	74.778	18.639	2.384	0.076	0.162	0.011	0.012	0.018	0.017	0.018	0.017	0.017	0.017	1395.81
11	0.6922	1141.5	1161.8	0.359	3.563	74.640	18.830	2.282	0.085	0.192	0.016	0.019	0.015	0.017	0.018	0.017	0.017	0.017	1396.31
12	0.6893	1137.8	1158.0	0.359	3.518	74.886	18.909	2.066	0.069	0.154	0.012	0.014	0.012	0.017	0.018	0.017	0.017	0.017	1394.70
13	0.6814	1126.7	1146.7	0.332	3.496	75.678	18.858	1.474	0.043	0.095	0.007	0.008	0.010	0.017	0.018	0.017	0.017	0.017	1389.12
14	0.6851	1132.6	1152.7	0.391	3.395	75.051	19.479	1.513	0.045	0.100	0.007	0.009	0.010	0.017	0.018	0.017	0.017	0.017	1392.59
15	0.6854	1133.6	1153.7	0.403	3.343	75.101	19.405	1.561	0.049	0.108	0.008	0.010	0.012	0.017	0.018	0.017	0.017	0.017	1393.51
16	0.6829	1130.4	1150.5	0.357	3.370	75.590	18.903	1.589	0.052	0.113	0.008	0.009	0.009	0.017	0.018	0.017	0.017	0.017	1392.17
17	0.6856	1133.0	1153.1	0.357	3.459	75.408	18.671	1.868	0.064	0.141	0.010	0.012	0.010	0.017	0.018	0.017	0.017	0.017	1392.64
18	0.6758	1116.1	1135.9	0.294	3.672	76.425	18.274	1.211	0.033	0.071	0.005	0.005	0.011	0.017	0.018	0.017	0.017	0.017	1381.74
19	0.6868	1135.4	1155.5	0.380	3.399	74.995	19.273	1.754	0.052	0.116	0.009	0.011	0.011	0.017	0.018	0.017	0.017	0.017	1394.30
20	0.6917	1144.4	1164.6	0.390	3.299	74.389	19.642	2.037	0.064	0.143	0.011	0.013	0.012	0.017	0.018	0.017	0.017	0.017	1400.30
21	0.6881	1140.1	1160.3	0.343	3.291	74.893	19.378	1.861	0.062	0.137	0.010	0.012	0.013	0.017	0.018	0.017	0.017	0.017	1398.73
22	0.6967	1153.6	1174.1	0.450	3.098	74.209	19.358	2.526	0.097	0.212	0.016	0.019	0.013	0.017	0.018	0.017	0.017	0.017	1406.66
23	0.6944	1147.1	1167.4	0.535	3.156	74.534	18.993	2.510	0.084	0.162	0.009	0.009	0.007	0.017	0.018	0.017	0.017	0.017	1400.94
24	0.7008	1155.6	1176.1	0.512	3.269	73.513	19.672	2.709	0.091	0.189	0.015	0.017	0.013	0.017	0.018	0.017	0.017	0.017	1404.96
25	0.6946	1150.5	1170.9	0.450	3.095	74.490	19.167	2.484	0.092	0.190	0.012	0.013	0.008	0.017	0.018	0.017	0.017	0.017	1404.94
26	0.6942	1150.3	1170.7	0.431	3.097	74.623	18.982	2.550	0.093	0.190	0.012	0.013	0.010	0.017	0.018	0.017	0.017	0.017	1405.10
27	0.7020	1157.8	1178.3	0.523	3.238	73.694	19.129	3.044	0.112	0.225	0.014	0.015	0.008	0.017	0.018	0.017	0.017	0.017	1406.29
28	0.7054	1153.5	1173.9	0.587	3.276	72.970	19.307	3.040	0.110	0.221	0.016	0.017	0.007	0.017	0.018	0.017	0.017	0.017	1397.66
29	0.7062	1156.5	1177.0	0.649	3.511	72.876	19.586	3.026	0.100	0.208	0.016	0.018	0.009	0.017	0.018	0.017	0.017	0.017	1400.68
30	0.6974	1150.2	1170.6	0.461	3.362	73.942	19.406	2.492	0.091	0.199	0.016	0.019	0.012	0.017	0.018	0.017	0.017	0.017	1401.73
31	0.6974	1150.2	1170.6	0.461	3.362	73.942	19.406	2.492	0.091	0.199	0.016	0.019	0.012	0.017	0.018	0.017	0.017	0.017	1401.73
AVG	0.6912	1141.0	1160.9	0.398	3.459	74.744	18.900	2.210	0.078	0.170	0.013	0.015	0.012	0.017	0.018	0.017	0.017	0.017	1396.33

Zone 261

GQ Source Daily Summary

August 2010

Number: 091 **Pressure Base:** 14.730 **Contract Day:** 1
Name: MINOT **Temperature Base:** **Contract Hour:** 9

Day	Relative Density	Heating Value		CO2	N2	C1	C2	C3	IC4	NC4	ICS	NCS	C6	C7	C8	C9	C10	Wobbe	CCT
		Wet	Dry																
1	0.7302	1169.0	1189.7	0.546	5.159	69.107	20.461	4.216	0.153	0.320	0.017	0.017	0.004	0.000	0.000	0.000	0.000	0.000	1392.33
2	0.7298	1169.6	1190.3	0.541	5.094	69.116	20.616	4.111	0.153	0.327	0.018	0.019	0.004	0.000	0.000	0.000	0.000	0.000	1393.39
3	0.7313	1175.2	1196.0	0.543	4.893	69.022	20.774	4.205	0.162	0.352	0.021	0.023	0.005	0.000	0.000	0.000	0.000	0.000	1398.57
4	0.7310	1172.6	1193.4	0.544	5.020	69.078	20.577	4.220	0.160	0.350	0.021	0.023	0.006	0.000	0.000	0.000	0.000	0.000	1395.79
5	0.7323	1172.0	1192.7	0.532	5.203	69.076	20.176	4.374	0.181	0.402	0.024	0.026	0.007	0.000	0.000	0.000	0.000	0.000	1393.74
6	0.7344	1173.1	1193.9	0.530	5.324	69.016	19.871	4.514	0.203	0.466	0.032	0.035	0.011	0.000	0.000	0.000	0.000	0.000	1393.20
7	0.7346	1173.8	1194.6	0.529	5.308	68.936	20.000	4.479	0.201	0.466	0.033	0.036	0.012	0.000	0.000	0.000	0.000	0.000	1393.77
8	0.7340	1173.1	1193.8	0.529	5.294	69.108	19.834	4.462	0.205	0.480	0.035	0.039	0.014	0.000	0.000	0.000	0.000	0.000	1393.49
9	0.7329	1171.9	1192.6	0.534	5.255	69.162	19.928	4.403	0.195	0.449	0.030	0.033	0.011	0.000	0.000	0.000	0.000	0.000	1393.11
10	0.7356	1177.3	1198.1	0.542	5.170	68.947	19.977	4.581	0.211	0.491	0.034	0.037	0.011	0.000	0.000	0.000	0.000	0.000	1396.90
11	0.7361	1177.9	1198.7	0.556	5.158	68.896	20.026	4.557	0.212	0.500	0.037	0.042	0.014	0.000	0.000	0.000	0.000	0.000	1397.16
12	0.7336	1174.5	1195.3	0.544	5.149	68.888	20.423	4.317	0.182	0.424	0.030	0.033	0.011	0.000	0.000	0.000	0.000	0.000	1395.54
13	0.7337	1173.9	1194.7	0.528	5.215	69.098	19.993	4.413	0.198	0.467	0.035	0.039	0.014	0.000	0.000	0.000	0.000	0.000	1394.77
14	0.7330	1173.2	1194.0	0.529	5.192	69.314	19.763	4.425	0.203	0.480	0.037	0.041	0.016	0.000	0.000	0.000	0.000	0.000	1394.56
15	0.7348	1176.3	1197.1	0.527	5.174	69.339	19.557	4.478	0.226	0.561	0.051	0.060	0.026	0.000	0.000	0.000	0.000	0.000	1396.53
16	0.7330	1172.0	1192.7	0.510	5.294	69.788	19.054	4.321	0.238	0.616	0.063	0.078	0.039	0.000	0.000	0.000	0.000	0.000	1393.10
17	0.7318	1172.2	1193.0	0.520	5.148	69.896	19.248	4.171	0.232	0.604	0.063	0.078	0.039	0.000	0.000	0.000	0.000	0.000	1394.55
18	0.7298	1168.6	1189.2	0.528	5.175	70.073	19.182	4.091	0.221	0.567	0.057	0.071	0.036	0.000	0.000	0.000	0.000	0.000	1392.09
19	0.7347	1179.2	1200.1	0.549	4.949	69.108	20.192	4.377	0.208	0.504	0.042	0.050	0.022	0.000	0.000	0.000	0.000	0.000	1400.16
20	0.7364	1175.4	1196.3	0.537	5.355	69.005	19.691	4.496	0.226	0.557	0.049	0.058	0.026	0.000	0.000	0.000	0.000	0.000	1394.06
21	0.7295	1166.6	1187.3	0.487	5.333	69.904	19.261	4.150	0.211	0.524	0.047	0.056	0.027	0.000	0.000	0.000	0.000	0.000	1390.03
22	0.7309	1169.3	1190.0	0.502	5.267	69.651	19.542	4.195	0.209	0.513	0.045	0.053	0.023	0.000	0.000	0.000	0.000	0.000	1392.03
23	0.7321	1170.5	1191.3	0.510	5.298	69.492	19.658	4.089	0.267	0.583	0.038	0.044	0.021	0.000	0.000	0.000	0.000	0.000	1392.30
24	0.7288	1173.0	1193.8	0.524	4.817	69.813	20.044	4.049	0.189	0.459	0.038	0.046	0.020	0.000	0.000	0.000	0.000	0.000	1398.40
25	0.6967	1150.9	1171.3	0.496	3.203	74.156	19.279	2.534	0.093	0.203	0.013	0.016	0.006	0.000	0.000	0.000	0.000	0.000	1403.26
26	0.6961	1149.6	1169.9	0.567	3.114	74.379	19.027	2.614	0.091	0.183	0.010	0.011	0.004	0.000	0.000	0.000	0.000	0.000	1402.30
27	0.6979	1153.3	1173.7	0.494	3.171	73.932	19.518	2.565	0.091	0.194	0.013	0.016	0.006	0.000	0.000	0.000	0.000	0.000	1405.47
28	0.6942	1150.7	1171.0	0.443	3.064	74.565	19.113	2.501	0.093	0.194	0.011	0.013	0.004	0.000	0.000	0.000	0.000	0.000	1404.98
29	0.6998	1155.4	1177.3	0.490	3.136	73.991	19.097	2.919	0.110	0.227	0.012	0.014	0.004	0.000	0.000	0.000	0.000	0.000	1407.38
30	0.7055	1155.4	1175.9	0.612	3.575	72.973	19.440	3.040	0.108	0.219	0.014	0.015	0.004	0.000	0.000	0.000	0.000	0.000	1399.97
31	0.7062	1156.2	1176.7	0.645	3.541	72.830	19.629	3.001	0.102	0.214	0.015	0.017	0.006	0.000	0.000	0.000	0.000	0.000	1400.24
AVG	0.7252	1168.0	1189.2	0.531	4.743	70.312	19.773	3.963	0.179	0.416	0.032	0.037	0.015	0.000	0.000	0.000	0.000	0.000	1396.55

Zone 26d

GQ Source Analysis

GQ Source Number:	2501030	Specific Gravity:	0.6610
GQ Source Name:	LIGNITE PLANT	BTU Base:	Dry
Effective Date:	8/1/2010 9:00:00 AM	Measured Heat Value:	1128.39
Effective End Date:	1/18/2038 9:14:07 PM	Dry Heat Value:	1126.61
Pressure Base:	14.730	Wet Heat Value:	1107.01
Viscosity:		As Deliv. Heat Value:	1126.61

		<u>Mol %</u>	<u>GPM</u>			<u>Mol %</u>
C1	Methane	78.330		CO2	Carbon Dioxide	0.164
C2	Ethane	17.990	4.797	N2	Nitrogen	3.015
C3	Propane	0.468	0.129	O2	Oxygen	0.000
IC4	Iso-Butane	0.000	0.000	HE	Helium	
NC4	N-Butane	0.000	0.000	H2	Hydrogen	
IC5	Iso-Pentane	0.000	0.000	H2S	Hydrogen Sulfide	
NC5	N-Pentane	0.000	0.000	AR	Argon	
C6	Hexane	0.029	0.013	CO	Carbon Monoxide	
C7	Heptane			H2O	Water	
C8	Octane					
C9	Nonane					
C10	Decane					
Totals			99.995%	4.939 GPM		

Sample Date: 8/31/2010 12:00:00 AM
Sample Type: Composite
Sample Tech: sampler
Sample Remarks:

Analysis Remarks:

*** End of Report ***

Zone 263

GQ Source Daily Summary

August 2010

Number: 043 **Pressure Base:** 14.730 **Contract Day:** 1
Name: BISMARCK-CLEVELAND **Temperature Base:** **Contract Hour:** 9

Day	Relative Density	Heating Value		CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
		Wet	Dry																
1	0.7298	1170.4	1191.1	0.535	5.056	69.481	20.118	4.164	0.173	0.394	0.026	0.029	0.024	0.000	0.000	0.000	0.000	0.000	1394.34
2	0.7325	1171.9	1192.6	0.550	5.201	69.111	20.106	4.389	0.177	0.396	0.024	0.026	0.020	0.000	0.000	0.000	0.000	0.000	1393.47
3	0.7323	1170.2	1190.9	0.538	5.298	69.295	19.737	4.436	0.189	0.429	0.027	0.029	0.021	0.000	0.000	0.000	0.000	0.000	1391.70
4	0.7344	1173.3	1194.0	0.538	5.307	69.100	19.783	4.506	0.201	0.468	0.033	0.037	0.027	0.000	0.000	0.000	0.000	0.000	1393.35
5	0.7340	1173.1	1193.9	0.538	5.279	69.197	19.736	4.457	0.203	0.483	0.036	0.041	0.030	0.000	0.000	0.000	0.000	0.000	1393.54
6	0.7325	1172.0	1192.7	0.546	5.191	69.339	19.783	4.413	0.193	0.447	0.030	0.033	0.032	0.000	0.000	0.000	0.000	0.000	1393.66
7	0.7374	1180.9	1201.8	0.559	5.091	68.952	19.851	4.666	0.222	0.534	0.044	0.050	0.032	0.000	0.000	0.000	0.000	0.000	1399.54
8	0.7309	1170.7	1191.5	0.549	5.119	69.459	19.930	4.236	0.183	0.432	0.031	0.035	0.026	0.000	0.000	0.000	0.000	0.000	1393.66
9	0.7330	1174.5	1195.3	0.545	5.095	68.962	20.492	4.227	0.173	0.409	0.031	0.036	0.029	0.000	0.000	0.000	0.000	0.000	1396.14
10	0.7319	1170.9	1191.7	0.536	5.216	69.371	19.829	4.323	0.186	0.436	0.033	0.037	0.031	0.000	0.000	0.000	0.000	0.000	1392.97
11	0.7328	1173.3	1194.0	0.541	5.151	69.420	19.691	4.415	0.198	0.472	0.036	0.041	0.034	0.000	0.000	0.000	0.000	0.000	1394.86
12	0.7330	1174.8	1195.6	0.538	5.084	69.510	19.635	4.377	0.209	0.513	0.043	0.051	0.038	0.000	0.000	0.000	0.000	0.000	1396.45
13	0.7369	1177.9	1198.8	0.539	5.257	69.318	19.273	4.577	0.238	0.611	0.059	0.072	0.055	0.000	0.000	0.000	0.000	0.000	1396.44
14	0.7325	1172.1	1192.8	0.518	5.229	69.923	19.048	4.230	0.232	0.610	0.064	0.080	0.066	0.000	0.000	0.000	0.000	0.000	1393.72
15	0.7300	1169.7	1190.4	0.528	5.124	70.195	19.091	4.052	0.222	0.585	0.062	0.077	0.065	0.000	0.000	0.000	0.000	0.000	1393.28
16	0.7314	1170.5	1191.2	0.549	5.175	69.834	19.358	4.149	0.214	0.547	0.054	0.066	0.055	0.000	0.000	0.000	0.000	0.000	1392.89
17	0.7273	1170.7	1191.5	0.514	4.833	70.308	19.492	4.013	0.199	0.498	0.046	0.054	0.042	0.000	0.000	0.000	0.000	0.000	1397.14
18	0.7364	1176.2	1197.0	0.560	5.284	68.981	19.795	4.499	0.214	0.531	0.045	0.052	0.038	0.000	0.000	0.000	0.000	0.000	1394.90
19	0.7264	1164.1	1184.7	0.519	5.149	70.224	19.394	3.937	0.188	0.463	0.040	0.047	0.039	0.000	0.000	0.000	0.000	0.000	1389.99
20	0.7330	1175.1	1196.0	0.545	5.050	69.384	19.928	4.255	0.202	0.501	0.042	0.050	0.044	0.000	0.000	0.000	0.000	0.000	1396.91
21	0.7286	1171.1	1191.9	0.553	4.876	69.607	20.353	3.947	0.165	0.397	0.032	0.038	0.032	0.000	0.000	0.000	0.000	0.000	1396.26
22	0.7167	1165.5	1186.1	0.509	4.181	70.718	21.003	3.217	0.103	0.224	0.014	0.015	0.017	0.000	0.000	0.000	0.000	0.000	1401.10
23	0.6955	1152.3	1172.7	0.479	3.029	74.421	19.259	2.470	0.091	0.197	0.014	0.017	0.023	0.000	0.000	0.000	0.000	0.000	1406.19
24	0.7007	1154.6	1175.0	0.594	3.208	73.646	19.478	2.762	0.092	0.181	0.011	0.011	0.017	0.000	0.000	0.000	0.000	0.000	1403.73
25	0.6997	1155.4	1175.8	0.516	3.186	73.639	19.749	2.588	0.086	0.183	0.014	0.017	0.022	0.000	0.000	0.000	0.000	0.000	1405.66
26	0.6887	1141.9	1162.1	0.497	2.995	75.640	18.209	2.343	0.089	0.185	0.012	0.013	0.018	0.000	0.000	0.000	0.000	0.000	1400.39
27	0.6912	1146.3	1166.6	0.460	3.021	75.238	18.468	2.490	0.091	0.188	0.012	0.013	0.019	0.000	0.000	0.000	0.000	0.000	1403.22
28	0.7053	1157.0	1177.5	0.586	3.496	73.428	19.106	3.165	0.116	0.235	0.014	0.015	0.018	0.000	0.000	0.000	0.000	0.000	1402.13
29	0.7044	1155.0	1175.5	0.621	3.488	73.157	19.435	2.937	0.102	0.213	0.016	0.017	0.017	0.000	0.000	0.000	0.000	0.000	1400.54
30	0.7118	1159.2	1179.7	0.691	3.816	72.073	19.773	3.240	0.112	0.238	0.017	0.020	0.020	0.000	0.000	0.000	0.000	0.000	1398.36
31	0.7044	1142.3	1162.6	0.528	4.403	73.146	18.492	2.984	0.118	0.269	0.019	0.022	0.019	0.000	0.000	0.000	0.000	0.000	1385.20
Avg	0.7224	1166.0	1186.9	0.542	4.609	70.771	19.593	3.821	0.167	0.396	0.032	0.037	0.031	0.000	0.000	0.000	0.000	0.000	1396.51

Zone 271

Williston Basin Interstate Pipeline Co.

GQ Source Daily Summary August 2010

Number: 063 **Pressure Base:** 14.730 **Contract Day:** 1
Name: CLEVELAND-MAPLETON **Temperature Base:** **Contract Hour:** 9

Day	Relative Density		Heating Value																Wobbe	CCT
	Wet	Dry	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10				
1	0.7314	1171.7	1192.4	5.103	69.166	20.276	4.306	0.168	0.370	0.024	0.027	0.008	0.000	0.000	0.000	0.000	0.000	1394.34		
2	0.7299	1170.0	1190.7	5.069	69.287	20.394	4.099	0.165	0.372	0.025	0.027	0.012	0.000	0.000	0.000	0.000	0.000	1393.75		
3	0.7321	1170.4	1191.1	5.262	69.237	19.860	4.439	0.183	0.409	0.025	0.027	0.011	0.000	0.000	0.000	0.000	0.000	1392.04		
4	0.7332	1171.9	1192.6	5.289	69.290	19.639	4.486	0.202	0.472	0.033	0.037	0.018	0.000	0.000	0.000	0.000	0.000	1392.80		
5	0.7340	1173.2	1193.9	5.284	69.098	19.870	4.454	0.199	0.468	0.034	0.038	0.020	0.000	0.000	0.000	0.000	0.000	1393.58		
6	0.7327	1171.9	1192.7	5.251	69.298	19.765	4.402	0.198	0.466	0.033	0.037	0.021	0.000	0.000	0.000	0.000	0.000	1393.27		
7	0.7362	1179.4	1200.2	5.078	69.129	19.728	4.632	0.223	0.541	0.042	0.051	0.019	0.000	0.000	0.000	0.000	0.000	1398.82		
8	0.7349	1176.0	1196.9	5.149	68.995	20.063	4.459	0.200	0.475	0.034	0.039	0.022	0.000	0.000	0.000	0.000	0.000	1396.11		
9	0.7323	1173.1	1193.9	5.092	68.853	20.748	4.146	0.161	0.374	0.026	0.029	0.013	0.000	0.000	0.000	0.000	0.000	1395.19		
10	0.7308	1169.8	1190.6	5.186	69.596	19.660	4.273	0.191	0.460	0.036	0.041	0.026	0.000	0.000	0.000	0.000	0.000	1392.71		
11	0.7312	1170.5	1191.3	5.191	69.572	19.616	4.332	0.195	0.466	0.035	0.040	0.025	0.000	0.000	0.000	0.000	0.000	1393.11		
12	0.7329	1173.5	1194.3	5.153	69.455	19.617	4.423	0.206	0.497	0.040	0.045	0.027	0.000	0.000	0.000	0.000	0.000	1395.05		
13	0.7349	1177.3	1198.2	5.094	69.414	19.535	4.472	0.224	0.564	0.051	0.061	0.039	0.000	0.000	0.000	0.000	0.000	1397.69		
14	0.7356	1175.0	1195.8	5.345	69.620	18.935	4.474	0.248	0.652	0.068	0.083	0.059	0.000	0.000	0.000	0.000	0.000	1394.21		
15	0.7314	1171.8	1192.5	5.130	70.054	19.102	4.144	0.230	0.610	0.063	0.079	0.060	0.000	0.000	0.000	0.000	0.000	1394.41		
16	0.7287	1167.0	1187.7	5.174	70.379	18.890	4.031	0.222	0.586	0.060	0.074	0.059	0.000	0.000	0.000	0.000	0.000	1391.29		
17	0.7329	1174.4	1195.2	5.083	69.532	19.679	4.254	0.213	0.538	0.049	0.059	0.043	0.000	0.000	0.000	0.000	0.000	1396.02		
18	0.7296	1173.0	1193.7	4.893	69.890	19.738	4.136	0.199	0.493	0.041	0.050	0.032	0.000	0.000	0.000	0.000	0.000	1397.58		
19	0.7322	1170.0	1190.7	5.321	69.610	19.370	4.283	0.215	0.539	0.047	0.056	0.036	0.000	0.000	0.000	0.000	0.000	1391.57		
20	0.7291	1169.4	1190.1	5.047	69.807	19.757	4.077	0.191	0.467	0.038	0.045	0.028	0.000	0.000	0.000	0.000	0.000	1393.68		
21	0.7315	1174.9	1195.7	4.934	69.373	20.248	4.157	0.184	0.449	0.038	0.044	0.029	0.000	0.000	0.000	0.000	0.000	1397.98		
22	0.7255	1167.7	1188.4	4.798	69.675	20.745	3.708	0.137	0.316	0.024	0.027	0.016	0.000	0.000	0.000	0.000	0.000	1395.15		
23	0.7003	1155.7	1176.2	3.302	73.600	19.589	2.686	0.098	0.216	0.016	0.018	0.012	0.000	0.000	0.000	0.000	0.000	1405.51		
24	0.6913	1145.8	1166.1	2.968	75.081	18.769	2.371	0.082	0.167	0.011	0.012	0.014	0.000	0.000	0.000	0.000	0.000	1402.44		
25	0.7056	1159.4	1179.9	3.390	72.857	19.857	2.976	0.096	0.195	0.014	0.014	0.014	0.000	0.000	0.000	0.000	0.000	1404.60		
26	0.6920	1146.5	1166.8	3.029	74.999	18.781	2.376	0.088	0.187	0.014	0.016	0.016	0.000	0.000	0.000	0.000	0.000	1402.70		
27	0.6876	1141.0	1161.2	2.981	75.740	18.194	2.323	0.086	0.175	0.012	0.012	0.004	0.000	0.000	0.000	0.000	0.000	1400.45		
28	0.6989	1156.1	1176.6	3.102	74.154	19.006	2.871	0.106	0.226	0.015	0.016	0.010	0.000	0.000	0.000	0.000	0.000	1407.34		
29	0.7075	1156.2	1176.7	3.710	72.800	19.274	3.209	0.117	0.240	0.017	0.018	0.002	0.000	0.000	0.000	0.000	0.000	1399.01		
30	0.7044	1154.8	1175.2	3.434	73.152	19.455	2.958	0.096	0.198	0.015	0.017	0.008	0.000	0.000	0.000	0.000	0.000	1400.25		
31	0.7046	1145.8	1166.1	4.139	72.991	18.991	2.910	0.107	0.236	0.019	0.021	0.010	0.000	0.000	0.000	0.000	0.000	1389.19		
Avg	0.7224	1166.0	1186.9	4.612	70.765	19.586	3.834	0.169	0.401	0.032	0.037	0.023	0.000	0.000	0.000	0.000	0.000	1396.51		

Zone 27a

Williston Basin Interstate Pipeline Co.

GQ Source Daily Summary August 2010

Number: 061 **Pressure Base:** 14.730 **Contract Day:** 1
Name: CLEVELAND-GRAFTON **Temperature Base:** **Contract Hour:** 9

Day	Relative Density	Heating Value		CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
		Wet	Dry																
1	0.7314	1171.6	1192.4	0.556	5.105	69.155	20.278	4.313	0.167	0.367	0.024	0.026	0.008	0.000	0.000	0.000	0.000	0.000	1394.22
2	0.7295	1169.5	1190.2	0.547	5.071	69.366	20.303	4.109	0.165	0.375	0.025	0.027	0.012	0.000	0.000	0.000	0.000	0.000	1393.50
3	0.7322	1170.3	1191.0	0.552	5.268	69.227	19.850	4.447	0.184	0.410	0.025	0.027	0.011	0.000	0.000	0.000	0.000	0.000	1391.85
4	0.7331	1171.8	1192.6	0.533	5.285	69.292	19.654	4.476	0.201	0.470	0.033	0.036	0.019	0.000	0.000	0.000	0.000	0.000	1392.80
5	0.7341	1173.2	1194.0	0.535	5.291	69.091	19.855	4.469	0.199	0.469	0.033	0.037	0.021	0.000	0.000	0.000	0.000	0.000	1393.50
6	0.7331	1171.6	1192.4	0.566	5.244	69.259	19.776	4.400	0.197	0.466	0.033	0.037	0.022	0.000	0.000	0.000	0.000	0.000	1392.62
7	0.7366	1179.9	1200.8	0.555	5.088	69.075	19.742	4.664	0.224	0.543	0.043	0.048	0.020	0.000	0.000	0.000	0.000	0.000	1399.05
8	0.7355	1177.1	1197.9	0.563	5.143	68.930	20.094	4.492	0.202	0.482	0.035	0.039	0.023	0.000	0.000	0.000	0.000	0.000	1396.79
9	0.7326	1173.7	1194.5	0.558	5.087	68.805	20.787	4.160	0.161	0.375	0.026	0.029	0.013	0.000	0.000	0.000	0.000	0.000	1395.57
10	0.7316	1171.0	1191.8	0.540	5.182	69.482	19.724	4.314	0.192	0.462	0.026	0.029	0.013	0.000	0.000	0.000	0.000	0.000	1393.30
11	0.7301	1168.6	1189.3	0.527	5.206	69.738	19.477	4.303	0.194	0.457	0.034	0.039	0.026	0.000	0.000	0.000	0.000	0.000	1391.89
12	0.7333	1174.2	1195.0	0.538	5.150	69.400	19.647	4.450	0.207	0.496	0.040	0.046	0.028	0.000	0.000	0.000	0.000	0.000	1395.46
13	0.7350	1177.5	1198.4	0.545	5.092	69.400	19.546	4.479	0.224	0.563	0.051	0.061	0.040	0.000	0.000	0.000	0.000	0.000	1397.81
14	0.7354	1174.7	1195.5	0.512	5.350	69.655	18.901	4.469	0.249	0.654	0.068	0.083	0.059	0.000	0.000	0.000	0.000	0.000	1394.06
15	0.7313	1171.8	1192.6	0.519	5.131	70.067	19.094	4.144	0.231	0.613	0.063	0.079	0.060	0.000	0.000	0.000	0.000	0.000	1391.20
16	0.7289	1167.1	1187.8	0.531	5.179	70.363	18.887	4.036	0.222	0.588	0.060	0.075	0.060	0.000	0.000	0.000	0.000	0.000	1396.14
17	0.7331	1174.6	1195.4	0.551	5.083	69.524	19.670	4.264	0.215	0.543	0.049	0.058	0.043	0.000	0.000	0.000	0.000	0.000	1397.83
18	0.7301	1173.5	1194.3	0.530	4.899	69.814	19.782	4.163	0.198	0.489	0.042	0.049	0.033	0.000	0.000	0.000	0.000	0.000	1391.24
19	0.7319	1169.5	1190.2	0.523	5.325	69.648	19.348	4.263	0.215	0.540	0.048	0.056	0.036	0.000	0.000	0.000	0.000	0.000	1397.83
20	0.7288	1168.8	1189.5	0.544	5.051	69.852	19.726	4.059	0.190	0.467	0.038	0.045	0.029	0.000	0.000	0.000	0.000	0.000	1393.30
21	0.7316	1175.2	1196.0	0.539	4.932	69.351	20.271	4.161	0.185	0.450	0.038	0.044	0.029	0.000	0.000	0.000	0.000	0.000	1398.23
22	0.7252	1167.2	1187.8	0.555	4.794	69.716	20.738	3.681	0.136	0.314	0.024	0.028	0.016	0.000	0.000	0.000	0.000	0.000	1394.86
23	0.7002	1155.5	1176.0	0.463	3.301	73.621	19.571	2.683	0.098	0.217	0.015	0.018	0.012	0.000	0.000	0.000	0.000	0.000	1405.42
24	0.6913	1145.8	1166.1	0.521	2.971	75.092	18.755	2.373	0.082	0.168	0.010	0.012	0.014	0.000	0.000	0.000	0.000	0.000	1402.46
25	0.7060	1160.0	1180.6	0.588	3.381	72.831	19.860	2.998	0.099	0.200	0.014	0.015	0.014	0.000	0.000	0.000	0.000	0.000	1405.04
26	0.6922	1146.8	1167.1	0.491	3.039	74.963	18.797	2.390	0.088	0.187	0.014	0.016	0.016	0.000	0.000	0.000	0.000	0.000	1402.80
27	0.6877	1141.1	1161.3	0.481	2.981	75.716	18.207	2.328	0.086	0.174	0.011	0.012	0.013	0.000	0.000	0.000	0.000	0.000	1400.36
28	0.6991	1156.5	1176.9	0.488	3.097	74.138	19.016	2.886	0.109	0.226	0.014	0.016	0.010	0.000	0.000	0.000	0.000	0.000	1407.66
29	0.7074	1156.1	1176.5	0.614	3.712	72.801	19.279	3.203	0.116	0.239	0.017	0.018	0.002	0.000	0.000	0.000	0.000	0.000	1398.87
30	0.7044	1154.7	1175.2	0.666	3.434	73.161	19.446	2.960	0.096	0.198	0.015	0.017	0.008	0.000	0.000	0.000	0.000	0.000	1400.24
31	0.7048	1146.0	1166.3	0.578	4.136	72.972	19.001	2.921	0.107	0.236	0.018	0.020	0.010	0.000	0.000	0.000	0.000	0.000	1389.30
Avg	0.7225	1166.0	1186.9	0.542	4.613	70.758	19.583	3.840	0.169	0.401	0.032	0.037	0.023	0.000	0.000	0.000	0.000	0.000	1396.51

Zone 273

GQ Source Daily Summary

August 2010

Number: 041 **Pressure Base:** 14,730 **Contract Day:** 1
Name: BISMARCK-DICKINSON **Temperature Base:** **Contract Hour:** 9

Day	Heating Value		Pressure Base: 14,730																Wobbe	CCT
	Relative Density	Wet	C02	N2	C1	C2	C3	IC4	NC4	ICS	NC5	C6	C7	C8	C9	C10				
1	0.7299	1170.6	1191.3	5.060	69.483	20.082	4.183	0.175	0.400	0.027	0.030	0.024	0.000	0.000	0.000	0.000	0.000	1394.40		
2	0.7316	1170.6	1191.4	5.190	69.192	20.133	4.299	0.174	0.390	0.024	0.026	0.020	0.000	0.000	0.000	0.000	0.000	1392.85		
3	0.7323	1170.2	1190.9	5.298	69.283	19.755	4.430	0.189	0.428	0.027	0.029	0.021	0.000	0.000	0.000	0.000	0.000	1391.67		
4	0.7345	1173.4	1194.2	5.311	69.087	19.785	4.505	0.202	0.474	0.034	0.037	0.027	0.000	0.000	0.000	0.000	0.000	1393.38		
5	0.7345	1174.0	1194.8	5.267	69.107	19.831	4.471	0.201	0.477	0.036	0.041	0.030	0.000	0.000	0.000	0.000	0.000	1394.18		
6	0.7327	1172.4	1193.1	5.191	69.293	19.828	4.414	0.193	0.448	0.030	0.033	0.024	0.000	0.000	0.000	0.000	0.000	1393.90		
7	0.7382	1182.0	1202.9	5.098	68.862	19.877	4.713	0.224	0.541	0.044	0.050	0.032	0.000	0.000	0.000	0.000	0.000	1400.07		
8	0.7311	1171.0	1191.7	5.122	69.452	19.909	4.254	0.185	0.437	0.031	0.035	0.027	0.000	0.000	0.000	0.000	0.000	1393.77		
9	0.7335	1174.7	1195.5	5.124	68.843	20.586	4.230	0.171	0.403	0.031	0.035	0.028	0.000	0.000	0.000	0.000	0.000	1395.87		
10	0.7319	1170.9	1191.6	5.225	69.391	19.783	4.325	0.188	0.451	0.034	0.038	0.031	0.000	0.000	0.000	0.000	0.000	1392.86		
11	0.7328	1173.3	1194.1	5.145	69.412	19.716	4.405	0.198	0.472	0.036	0.041	0.034	0.000	0.000	0.000	0.000	0.000	1394.94		
12	0.7331	1174.8	1195.6	5.091	69.494	19.644	4.380	0.209	0.512	0.044	0.051	0.038	0.000	0.000	0.000	0.000	0.000	1396.44		
13	0.7369	1178.0	1198.9	5.248	69.314	19.290	4.572	0.238	0.612	0.059	0.072	0.055	0.000	0.000	0.000	0.000	0.000	1396.58		
14	0.7326	1172.1	1192.8	5.239	69.915	19.036	4.237	0.233	0.612	0.064	0.080	0.066	0.000	0.000	0.000	0.000	0.000	1393.63		
15	0.7301	1169.9	1190.7	5.120	70.177	19.110	4.054	0.222	0.585	0.062	0.077	0.065	0.000	0.000	0.000	0.000	0.000	1393.46		
16	0.7313	1170.5	1191.3	5.169	69.853	19.339	4.148	0.216	0.552	0.054	0.066	0.056	0.000	0.000	0.000	0.000	0.000	1392.99		
17	0.7275	1171.3	1192.0	4.823	70.289	19.494	4.041	0.199	0.498	0.045	0.054	0.043	0.000	0.000	0.000	0.000	0.000	1397.55		
18	0.7369	1177.2	1198.0	5.269	68.882	19.902	4.512	0.214	0.523	0.044	0.054	0.038	0.000	0.000	0.000	0.000	0.000	1395.58		
19	0.7268	1164.7	1185.4	5.145	70.171	19.431	3.956	0.188	0.463	0.040	0.047	0.039	0.000	0.000	0.000	0.000	0.000	1390.41		
20	0.7332	1175.4	1196.2	5.053	69.365	19.926	4.274	0.202	0.498	0.043	0.051	0.044	0.000	0.000	0.000	0.000	0.000	1397.01		
21	0.7287	1171.3	1192.0	4.876	69.604	20.352	3.944	0.167	0.404	0.032	0.038	0.032	0.000	0.000	0.000	0.000	0.000	1396.38		
22	0.7174	1166.1	1186.8	4.201	70.601	21.077	3.236	0.103	0.226	0.014	0.015	0.017	0.000	0.000	0.000	0.000	0.000	1401.26		
23	0.6957	1152.7	1173.1	3.032	74.381	19.286	2.478	0.091	0.198	0.014	0.017	0.023	0.000	0.000	0.000	0.000	0.000	1406.39		
24	0.7004	1154.5	1175.0	3.187	73.705	19.439	2.760	0.092	0.182	0.011	0.012	0.017	0.000	0.000	0.000	0.000	0.000	1403.91		
25	0.7169	1165.6	1186.3	4.094	70.780	20.967	3.208	0.104	0.225	0.015	0.017	0.021	0.000	0.000	0.000	0.000	0.000	1403.09		
26	0.6211	1040.3	1058.7	2.229	88.068	7.882	0.770	0.057	0.065	0.011	0.008	0.014	0.000	0.000	0.000	0.000	0.000	1343.29		
27	0.6558	1095.8	1115.2	2.198	82.062	12.928	1.720	0.086	0.132	0.012	0.010	0.014	0.000	0.000	0.000	0.000	0.000	1376.83		
28	0.7053	1157.4	1177.9	3.482	73.242	19.122	3.172	0.116	0.234	0.014	0.015	0.019	0.000	0.000	0.000	0.000	0.000	1402.56		
29	0.7044	1154.8	1175.3	3.507	73.149	19.425	2.934	0.102	0.215	0.016	0.017	0.017	0.000	0.000	0.000	0.000	0.000	1400.27		
30	0.7118	1160.0	1180.5	3.770	72.082	19.806	3.243	0.111	0.238	0.018	0.020	0.020	0.000	0.000	0.000	0.000	0.000	1399.25		
31	0.7035	1140.8	1161.0	4.392	73.238	18.477	2.932	0.111	0.250	0.019	0.022	0.019	0.000	0.000	0.000	0.000	0.000	1384.27		
AVG	0.7198	1162.0	1182.4	4.586	71.283	19.136	3.768	0.167	0.392	0.032	0.037	0.031	0.000	0.000	0.000	0.000	0.000	1393.78		

Zone 28

Williston Basin Interstate Pipeline Co.

GQ Source Daily Summary August 2010

Number: 271 Pressure Base: 14.730 Contract Day: 1
 Name: DICKINSON AREA Temperature Base: Contract Hour: 9

Day	Relative Density	Heating Value		CO2	NZ	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
		Wet	Dry																
1	0.6062	1020.0	1038.1	0.671	2.395	90.391	5.965	0.498	0.048	0.031	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1333.27
2	0.6078	1012.7	1030.7	0.700	2.946	89.816	6.127	0.362	0.033	0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1322.33
3	0.6033	1012.3	1030.2	0.640	2.642	90.734	5.566	0.360	0.035	0.021	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1326.32
4	0.6099	1030.9	1049.2	0.604	2.176	89.777	6.738	0.588	0.069	0.046	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	1343.44
5	0.6130	1041.0	1059.4	0.613	1.841	89.412	7.249	0.732	0.090	0.060	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	1353.08
6	0.6022	1009.0	1026.9	0.674	2.681	90.963	5.297	0.331	0.034	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1323.33
7	0.6051	1013.7	1031.7	0.624	2.744	90.301	5.941	0.344	0.028	0.018	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1326.29
8	0.6087	1020.2	1038.3	0.594	2.735	89.529	6.746	0.356	0.024	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1330.75
9	0.6075	1020.7	1038.8	0.628	2.536	90.039	6.245	0.476	0.044	0.032	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1332.82
10	0.6165	1035.4	1053.7	0.557	2.601	87.989	8.404	0.406	0.027	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1341.95
11	0.6202	1043.8	1062.2	0.491	2.538	87.177	9.325	0.425	0.028	0.017	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1348.84
12	0.6237	1053.6	1072.2	0.472	2.297	86.787	9.719	0.635	0.052	0.036	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1357.65
13	0.6389	1088.1	1107.4	0.362	1.788	84.249	12.346	1.096	0.085	0.068	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.000	1385.35
14	0.6307	1069.2	1088.1	0.449	2.044	85.760	10.660	0.961	0.067	0.055	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	1369.97
15	0.6284	1065.9	1084.8	0.432	2.047	86.092	10.483	0.817	0.073	0.054	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	1368.42
16	0.6208	1047.6	1066.2	0.489	2.360	87.358	9.098	0.609	0.051	0.034	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	1353.19
17	0.6360	1079.8	1099.0	0.358	2.025	84.469	12.196	0.825	0.073	0.052	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1377.98
18	0.6321	1078.4	1097.5	0.355	1.749	85.555	11.185	0.979	0.101	0.073	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	1380.43
19	0.6353	1086.6	1105.8	0.348	1.559	85.104	11.687	1.099	0.116	0.081	0.001	0.000	0.004	0.000	0.000	0.000	0.000	0.000	1387.43
20	0.6332	1078.3	1097.4	0.364	1.852	85.201	11.525	0.902	0.089	0.064	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.000	1378.97
21	0.6331	1078.3	1097.4	0.365	1.836	85.271	11.440	0.925	0.092	0.067	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.000	1379.17
22	0.6989	1139.8	1160.0	0.478	4.093	74.742	16.892	3.220	0.168	0.359	0.019	0.016	0.013	0.000	0.000	0.000	0.000	0.000	1387.95
23	0.6699	1124.9	1144.8	0.237	2.664	76.062	17.440	1.371	0.077	0.128	0.007	0.008	0.006	0.000	0.000	0.000	0.000	0.000	1398.93
24	0.6205	1047.1	1065.6	0.948	1.668	88.030	8.620	0.629	0.060	0.042	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	1352.72
25	0.6070	1018.7	1036.8	0.932	2.152	90.660	5.636	0.505	0.050	0.038	0.010	0.010	0.006	0.000	0.000	0.000	0.000	0.000	1330.65
26	0.6101	1028.5	1046.7	1.290	1.298	90.576	6.092	0.633	0.065	0.045	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1340.06
27	0.6087	1026.0	1044.2	1.204	1.456	90.635	6.050	0.562	0.055	0.037	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1338.28
28	0.6071	1020.1	1038.1	1.044	1.908	90.516	6.070	0.400	0.037	0.024	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1332.36
29	0.6098	1021.2	1039.3	1.053	2.079	89.869	6.604	0.351	0.027	0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1330.91
30	0.6093	1020.9	1039.0	0.995	2.145	89.865	6.618	0.339	0.025	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1331.00
31	0.6054	1016.0	1034.0	1.049	1.991	90.806	5.727	0.374	0.032	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1328.90
Avg	0.6213	1047.0	1065.3	0.646	2.221	87.604	8.700	0.713	0.060	0.052	0.001	0.001	0.002	0.000	0.000	0.000	0.000	0.000	1351.38

Zone 31

GQ Source Daily Summary

August 2010

Number: 051 **Pressure Base:** 14.730 **Contract Day:** 1
Name: CABIN CR-DICKINSON **Temperature Base:** 9 **Contract Hour:** 9

Day	Relative Density	Heating Value Wet	Heating Value Dry	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.5830	972.0	989.2	0.817	2.928	94.906	1.087	0.199	0.032	0.020	0.006	0.003	0.004	0.000	0.000	0.000	0.000	0.000	1295.56
2	0.5907	992.6	1010.1	0.779	2.454	93.807	2.352	0.464	0.069	0.047	0.013	0.006	0.009	0.000	0.000	0.000	0.000	0.000	1314.25
3	0.5948	1005.6	1023.4	0.741	2.098	93.229	3.136	0.612	0.088	0.059	0.016	0.007	0.012	0.000	0.000	0.000	0.000	0.000	1326.98
4	0.6007	1021.5	1039.6	0.756	1.665	92.403	4.129	0.811	0.115	0.078	0.020	0.009	0.013	0.000	0.000	0.000	0.000	0.000	1341.20
5	0.5858	978.7	996.0	0.825	2.770	94.517	1.510	0.285	0.045	0.030	0.008	0.004	0.006	0.000	0.000	0.000	0.000	0.000	1301.36
6	0.5845	974.0	991.3	0.807	2.961	94.625	1.304	0.237	0.032	0.021	0.005	0.002	0.004	0.000	0.000	0.000	0.000	0.000	1296.56
7	0.5887	985.4	1002.8	0.788	2.694	93.998	2.045	0.376	0.048	0.032	0.008	0.004	0.006	0.000	0.000	0.000	0.000	0.000	1306.96
8	0.5902	988.6	1006.1	0.795	2.626	93.808	2.223	0.425	0.056	0.042	0.011	0.005	0.007	0.000	0.000	0.000	0.000	0.000	1309.61
9	0.5894	987.6	1005.1	0.788	2.616	93.903	2.201	0.389	0.050	0.033	0.009	0.004	0.008	0.000	0.000	0.000	0.000	0.000	1309.23
10	0.6027	1022.0	1040.1	0.650	1.979	91.882	4.412	0.841	0.108	0.082	0.021	0.010	0.014	0.000	0.000	0.000	0.000	0.000	1339.64
11	0.6259	1070.1	1089.0	0.538	1.403	87.890	8.362	1.521	0.126	0.105	0.024	0.013	0.019	0.000	0.000	0.000	0.000	0.000	1376.38
12	0.6069	1023.4	1041.5	0.667	2.263	90.887	5.124	0.899	0.071	0.059	0.013	0.007	0.010	0.000	0.000	0.000	0.000	0.000	1336.73
13	0.6183	1055.5	1074.2	0.569	1.528	89.176	7.180	1.278	0.125	0.095	0.022	0.011	0.016	0.000	0.000	0.000	0.000	0.000	1366.02
14	0.5985	1009.1	1027.0	0.695	2.308	92.387	3.773	0.679	0.075	0.053	0.013	0.006	0.010	0.000	0.000	0.000	0.000	0.000	1327.42
15	0.6066	1032.5	1050.8	0.596	1.791	91.178	5.225	0.975	0.114	0.080	0.018	0.009	0.013	0.000	0.000	0.000	0.000	0.000	1349.04
16	0.6134	1050.6	1069.2	0.523	1.431	90.151	6.386	1.210	0.146	0.104	0.024	0.011	0.013	0.000	0.000	0.000	0.000	0.000	1365.20
17	0.6166	1058.9	1077.7	0.521	1.229	89.696	6.913	1.305	0.164	0.114	0.029	0.014	0.015	0.000	0.000	0.000	0.000	0.000	1372.37
18	0.6114	1044.8	1063.3	0.569	1.531	90.499	5.967	1.142	0.141	0.100	0.025	0.012	0.013	0.000	0.000	0.000	0.000	0.000	1359.79
19	0.6051	1028.6	1046.8	0.610	1.869	91.462	4.882	0.931	0.118	0.085	0.021	0.010	0.011	0.000	0.000	0.000	0.000	0.000	1345.49
20	0.6143	1054.7	1073.4	0.512	1.277	90.113	6.508	1.252	0.163	0.118	0.029	0.014	0.015	0.000	0.000	0.000	0.000	0.000	1369.55
21	0.6129	1050.6	1069.2	0.531	1.374	90.322	6.244	1.201	0.157	0.114	0.028	0.014	0.015	0.000	0.000	0.000	0.000	0.000	1365.59
22	0.6261	1058.5	1077.2	0.457	2.260	86.461	10.007	0.679	0.064	0.048	0.011	0.006	0.007	0.000	0.000	0.000	0.000	0.000	1361.04
23	0.5979	1008.6	1026.5	1.303	1.356	93.236	3.302	0.636	0.080	0.057	0.015	0.007	0.009	0.000	0.000	0.000	0.000	0.000	1327.46
24	0.5888	984.8	1002.2	1.088	2.279	94.309	1.881	0.351	0.044	0.031	0.008	0.004	0.005	0.000	0.000	0.000	0.000	0.000	1306.04
25	0.6003	1013.1	1031.0	1.474	1.044	93.015	3.615	0.683	0.082	0.058	0.014	0.006	0.008	0.000	0.000	0.000	0.000	0.000	1330.73
26	0.5976	1006.8	1024.7	1.422	1.253	93.358	3.218	0.602	0.072	0.051	0.012	0.006	0.007	0.000	0.000	0.000	0.000	0.000	1325.49
27	0.5910	990.4	1007.9	1.347	1.753	94.250	2.152	0.398	0.048	0.034	0.008	0.004	0.005	0.000	0.000	0.000	0.000	0.000	1311.07
28	0.5890	982.4	999.8	1.367	2.018	94.505	1.722	0.311	0.038	0.027	0.006	0.003	0.004	0.000	0.000	0.000	0.000	0.000	1302.78
29	0.5883	982.2	999.6	1.296	2.078	94.546	1.697	0.308	0.037	0.026	0.006	0.003	0.004	0.000	0.000	0.000	0.000	0.000	1303.23
30	0.5901	988.7	1006.2	1.275	1.877	94.308	2.073	0.374	0.045	0.031	0.008	0.004	0.005	0.000	0.000	0.000	0.000	0.000	1309.90
31	0.5918	989.8	1007.3	1.513	1.614	94.249	2.134	0.393	0.047	0.032	0.008	0.004	0.005	0.000	0.000	0.000	0.000	0.000	1309.36
Avg	0.6000	1013.0	1031.2	0.859	1.946	92.357	3.960	0.702	0.084	0.060	0.015	0.007	0.009	0.000	0.000	0.000	0.000	0.000	1331.03

Zone 3a

GQ Source Daily Summary August 2010

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	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.6823	1154.9	1175.4	0.000	2.371	74.156	22.851	0.606	0.007	0.009	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1422.99
2	0.6824	1155.6	1176.0	0.000	2.341	74.132	22.919	0.591	0.007	0.009	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1423.66
3	0.6829	1155.6	1176.0	0.000	2.394	74.004	22.996	0.590	0.007	0.009	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1423.08
4	0.6839	1156.7	1177.2	0.000	2.417	73.802	23.177	0.588	0.006	0.009	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1423.44
5	0.6835	1156.0	1176.5	0.000	2.416	73.878	23.112	0.578	0.006	0.009	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1423.10
6	0.6835	1156.4	1176.8	0.000	2.399	73.880	23.122	0.583	0.006	0.009	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1423.47
7	0.6844	1157.9	1178.4	0.000	2.388	73.764	23.184	0.647	0.007	0.009	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1424.43
8	0.6842	1157.8	1178.3	0.000	2.377	73.803	23.153	0.651	0.007	0.009	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1424.52
9	0.6829	1155.9	1176.3	0.000	2.371	74.001	23.038	0.574	0.007	0.009	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1423.51
10	0.6829	1155.2	1175.6	0.000	2.418	73.961	23.053	0.553	0.006	0.009	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1422.60
11	0.6846	1158.2	1178.7	0.000	2.387	73.742	23.194	0.661	0.007	0.009	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1424.61
12	0.6833	1156.5	1177.0	0.000	2.376	73.859	23.220	0.530	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1423.80
13	0.6832	1155.9	1176.4	0.000	2.398	73.865	23.213	0.510	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1423.24
14	0.6844	1156.7	1177.2	0.000	2.468	73.599	23.408	0.512	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1422.92
15	0.6855	1158.4	1178.9	0.000	2.467	73.379	23.625	0.516	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1422.87
16	0.6848	1157.1	1177.5	0.000	2.479	73.537	23.448	0.522	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1422.98
17	0.6851	1157.4	1177.9	0.000	2.484	73.476	23.509	0.516	0.006	0.008	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1423.13
18	0.6855	1158.3	1178.8	0.000	2.473	73.465	23.449	0.600	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1423.73
19	0.6848	1157.7	1178.2	0.000	2.448	73.567	23.413	0.557	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1423.65
20	0.6842	1156.8	1177.3	0.000	2.444	73.710	23.253	0.578	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1423.21
21	0.6830	1154.8	1175.2	0.000	2.446	73.941	23.048	0.550	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1422.08
22	0.6849	1158.1	1178.6	0.000	2.425	73.599	23.365	0.596	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1424.16
23	0.6833	1155.7	1176.2	0.000	2.418	73.838	23.223	0.507	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1422.93
24	0.6871	1161.7	1182.2	0.000	2.415	73.364	23.392	0.815	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1422.93
25	0.6831	1155.6	1176.0	0.000	2.412	73.923	23.093	0.558	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1422.88
26	0.6825	1154.5	1175.0	0.000	2.415	74.062	22.944	0.564	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1422.26
27	0.6827	1155.1	1175.5	0.000	2.409	73.949	23.129	0.496	0.006	0.009	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1422.65
28	0.6833	1155.8	1176.3	0.000	2.416	73.815	23.266	0.488	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1422.97
29	0.6833	1155.7	1176.2	0.000	2.425	73.805	23.270	0.486	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1422.84
30	0.6830	1155.5	1176.0	0.000	2.406	73.863	23.244	0.472	0.006	0.008	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1422.92
31	0.6822	1153.7	1174.2	0.000	2.433	74.047	23.017	0.488	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1421.64
Avg	0.6838	1156.0	1177.0	0.000	2.417	73.800	23.204	0.564	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1423.34

Zone 33

Williston Basin Interstate Pipeline Co.

GQ Source Daily Summary

August 2010

Number: 331 **Pressure Base:** 14.730 **Contract Day:** 1
Name: MARMARTH PLANT **Temperature Base:** **Contract Hour:** 9

Day	Heating Value		CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
	Relative Density	Wet																
1	0.7977	1130.6	1150.6	2.139	11.466	54.139	29.069	2.888	0.066	0.200	0.008	0.022	0.003	0.000	0.000	0.000	0.000	1288.29
2	0.7950	1127.8	1147.8	1.892	11.757	54.551	28.503	2.961	0.074	0.224	0.009	0.025	0.003	0.000	0.000	0.000	0.000	1287.19
3	0.7990	1140.8	1161.0	1.922	11.300	53.891	29.533	3.015	0.075	0.228	0.009	0.024	0.003	0.000	0.000	0.000	0.000	1298.80
4	0.8009	1136.0	1156.1	1.981	11.674	53.644	29.244	3.096	0.079	0.242	0.010	0.026	0.003	0.000	0.000	0.000	0.000	1291.83
5	0.8013	1132.6	1152.7	2.016	11.869	53.652	28.923	3.163	0.082	0.253	0.011	0.027	0.004	0.000	0.000	0.000	0.000	1287.65
6	0.8031	1131.1	1151.1	2.032	12.105	53.419	28.789	3.244	0.088	0.274	0.012	0.031	0.005	0.000	0.000	0.000	0.000	1284.50
7	0.8029	1135.4	1155.5	2.099	11.724	53.561	28.973	3.242	0.087	0.269	0.011	0.030	0.004	0.000	0.000	0.000	0.000	1289.51
8	0.8044	1129.6	1149.6	2.113	12.194	53.261	28.744	3.274	0.089	0.277	0.012	0.031	0.005	0.000	0.000	0.000	0.000	1281.78
9	0.8037	1133.7	1153.7	2.137	11.839	53.429	28.955	3.242	0.086	0.266	0.011	0.030	0.005	0.000	0.000	0.000	0.000	1286.99
10	0.8019	1134.5	1154.6	2.181	11.559	53.747	28.971	3.164	0.082	0.253	0.011	0.028	0.004	0.000	0.000	0.000	0.000	1289.29
11	0.7925	1122.8	1142.7	1.942	11.751	55.040	28.028	2.918	0.072	0.214	0.009	0.023	0.004	0.000	0.000	0.000	0.000	1283.59
12	0.7899	1131.5	1151.5	1.833	11.145	55.219	29.702	2.871	0.070	0.209	0.008	0.021	0.003	0.000	0.000	0.000	0.000	1295.65
13	0.7968	1143.1	1163.3	1.993	10.844	54.278	28.846	2.860	0.062	0.180	0.007	0.019	0.003	0.000	0.000	0.000	0.000	1303.21
14	0.7960	1134.2	1154.3	2.131	11.086	54.540	29.058	2.860	0.070	0.212	0.009	0.022	0.003	0.000	0.000	0.000	0.000	1293.79
15	0.7948	1139.6	1159.8	1.853	11.081	54.488	29.417	2.857	0.068	0.205	0.008	0.021	0.003	0.000	0.000	0.000	0.000	1300.89
16	0.7963	1136.7	1156.8	1.912	11.304	54.378	29.117	2.950	0.074	0.227	0.009	0.024	0.003	0.000	0.000	0.000	0.000	1296.36
17	0.7999	1141.6	1161.8	2.124	11.028	54.096	29.273	3.121	0.078	0.240	0.010	0.027	0.004	0.000	0.000	0.000	0.000	1298.96
18	0.8016	1133.8	1153.9	2.143	11.630	53.769	28.908	3.174	0.082	0.252	0.011	0.028	0.004	0.000	0.000	0.000	0.000	1288.76
19	0.8013	1135.8	1155.9	2.173	11.437	53.790	29.125	3.118	0.078	0.240	0.010	0.026	0.003	0.000	0.000	0.000	0.000	1291.28
20	0.7999	1138.3	1158.5	2.165	11.153	54.180	28.979	3.163	0.079	0.242	0.010	0.026	0.004	0.000	0.000	0.000	0.000	1295.35
21	0.8003	1140.6	1160.8	2.196	11.013	54.182	29.047	3.194	0.080	0.245	0.011	0.028	0.004	0.000	0.000	0.000	0.000	1297.54
22	0.7973	1137.4	1157.5	2.159	10.984	54.472	29.045	3.033	0.068	0.205	0.009	0.022	0.003	0.000	0.000	0.000	0.000	1296.31
23	0.7948	1139.8	1160.0	1.952	10.916	54.604	29.344	2.908	0.062	0.184	0.008	0.019	0.002	0.000	0.000	0.000	0.000	1301.12
24	0.7963	1147.8	1168.1	1.830	10.760	54.225	29.970	2.937	0.063	0.186	0.007	0.019	0.002	0.000	0.000	0.000	0.000	1308.96
25	0.7965	1141.6	1161.8	2.058	10.802	54.488	29.386	2.970	0.066	0.197	0.008	0.021	0.003	0.000	0.000	0.000	0.000	1301.79
26	0.7954	1138.4	1158.6	2.063	10.889	54.740	28.997	3.014	0.067	0.198	0.008	0.021	0.003	0.000	0.000	0.000	0.000	1299.04
27	0.7961	1140.4	1160.6	2.129	10.732	54.611	29.289	2.948	0.065	0.193	0.008	0.020	0.003	0.000	0.000	0.000	0.000	1300.72
28	0.7980	1142.4	1162.6	2.119	10.807	54.140	29.739	2.919	0.062	0.185	0.007	0.019	0.003	0.000	0.000	0.000	0.000	1301.44
29	0.7987	1142.8	1163.0	2.179	10.754	54.131	29.693	2.956	0.064	0.192	0.008	0.020	0.002	0.000	0.000	0.000	0.000	1301.34
30	0.7962	1137.1	1157.3	2.183	10.858	54.486	29.363	2.830	0.063	0.188	0.008	0.019	0.002	0.000	0.000	0.000	0.000	1296.94
31	0.7991	1140.0	1160.1	2.222	10.901	54.124	29.476	2.966	0.069	0.210	0.008	0.021	0.002	0.000	0.000	0.000	0.000	1297.79
Avg	0.7983	1137.0	1156.8	2.060	11.270	54.170	29.145	3.022	0.073	0.222	0.009	0.024	0.003	0.000	0.000	0.000	0.000	1294.73

*** End of Report***

Zone 34

GQ Source Analysis

GQ Source Number:	1201140	Specific Gravity:	0.5725
GQ Source Name:	EAGLE 8B ND	BTU Base:	Dry
Effective Date:	6/7/2010 9:00:00 AM	Measured Heat Value:	979.18
Effective End Date:	1/18/2038 9:14:07 PM	Dry Heat Value:	979.09
Pressure Base:	14.730	Wet Heat Value:	962.05
Viscosity:		As Deliv. Heat Value:	979.09

		<u>Mol %</u>	<u>GPM</u>			<u>Mol %</u>
C1	Methane	95.949		CO2	Carbon Dioxide	0.088
C2	Ethane	0.311	0.083	N2	Nitrogen	3.635
C3	Propane	0.009	0.003	O2	Oxygen	0.000
IC4	Iso-Butane	0.007	0.002	HE	Helium	
NC4	N-Butane	0.000	0.000	H2	Hydrogen	
IC5	Iso-Pentane	0.000	0.000	H2S	Hydrogen Sulfide	
NC5	N-Pentane	0.000	0.000	AR	Argon	
C6	Hexane	0.000	0.000	CO	Carbon Monoxide	
C7	Heptane			H2O	Water	
C8	Octane					
C9	Nonane					
C10	Decane					
Totals			100.000%			0.088 GPM

Sample Date: 6/7/2010 12:00:00 AM
Sample Type: Spot
Sample Tech: MG
Sample Remarks:

Analysis Remarks:

Zone 35

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	Chromatograph	Bowman Area
35	Yearly 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	AUG 10	JULY 10	JUNE 10	MAY 10	APR 10	MAR 10	FEB 10	JAN 10	DEC 09	NOV 09	OCT 09	SEPT 09	ZONE
MT/ND	211	Sidney Area	1208	1204	1197	1199	1197	1197	1193	1155	1152	1191	1187	1192	21
ND	24	Williston Area	1186	1212	1208	1171	1186	1192	1200	1176	1173	1193	1182	1181	24
ND	25	Watford City Area	1129	1130	1130	1134	1128	1132	1132	1132	1131	1129	1121	1123	25
ND	261	Williston - Toga - Minot Line	1148	1161	1160	1147	1134	1150	1156	1141	1142	1140	1160	1138	25
ND	262	Minot Area	1176	1189	1193	1188	1184	1175	1164	1144	1142	1163	1174	1168	261
ND	263	Toga - Portal	1127	1124	1104	1104	1110	1090	1078	1073	1090	1113	1126	1138	262
ND	264	Williston - Ray	1186	1212	1208	1171	1186	1192	1200	1176	1173	1193	1182	1181	263
ND	271	Bismarck - Cleveland	1187	1193	1193	1186	1183	1164	1164	1176	1173	1163	1174	1166	271
ND	272	Cleveland - Mapleton	1187	1193	1187	1186	1182	1163	1115	1134	1128	1163	1174	1167	271
ND	273	Cleveland - Grafton	1187	1193	1193	1186	1182	1163	1116	1135	1128	1164	1173	1167	273
ND	28	Bismarck - Cabin Creek	1182	1193	1193	1186	1178	1163	1055	1025	1018	1094	1173	1166	28
ND	31	Dickinson Area	1065	1023	1053	1066	1033	1029	1023	1017	1019	994	1024	1140	31
ND/MT	32	Cabin Creek - Dickinson	1031	986	1043	1005	986	1022	1019	1015	1017	989	994	1140	32
ND	33	Killdeer	1177	1177	1172	1169	1168	1169	1169	1160	1158	1158	1159	1158	33
ND	34	Bowman Area	1157	1156	1165	1165	1170	1169	1172	1161	1150	1169	1174	1174	34
ND	35	Baker Field - North Dakota	979	979	979	978	978	978	978	978	978	978	978	978	35

THERMAL ZONE VARIANCE DOCUMENTATION		
August 2010		
<i>ZONE</i>	<i>BTU VARIANCE</i>	<i>REASON</i>
31	42	Higher BTU gas coming from the West
32	45	Higher BTU gas coming from the West