

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

October 29, 2010

RECEIVED

NOV 01 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 – September 2010

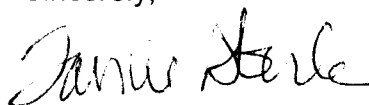
Montana-Dakota Utilities Co., a Division of MDU Resources Group, Inc., herewith submits the following information, pursuant to the Ordering paragraphs one and two of the Order issued in the above-referenced docket, dated October 20, 1987:

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 October 2010.
2. Attachment B consists of copies of the monthly Heating Value Test Reports received from our supplier for the month of September 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.

There were no thermal variances to report for the month of September 2010.

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
 OCT 2010

Div Nbr	Off Code	City Name	Heat Zone Nbr	Therm Billing Factor
12	314	APPLE VALLEY	271	1.1492
12	327	BISMARCK	28	1.1492
12	343	CARRINGTON	273	1.1482
12	344	CLEVELAND	272	1.1401
12	364	CAVALIER	273	1.1724
12	365	DAWSON	271	1.1411
12	374	FT TOTTEN	273	1.1563
12	375	DEVILS LAKE	273	1.1563
12	379	BARLOW	273	1.1482
12	387	ELDRIDGE	272	1.1482
12	411	GLEN ULLIN	31	.9974
12	417	GRAFTON	273	1.1805
12	439	HANKINSON	600	1.0689
12	449	JAMESTOWN	272	1.1563
12	463	LANGDON	273	1.1482
12	475	LINTON	802	.9765
12	478	LINCOLN	28	1.1492
12	494	MEDINA	271	1.1411
12	498	MANDAN	28	1.1492
12	524	NEW SALEM	28	1.1249
12	532	NEW ROCKFORD	273	1.1482
12	539	PARK RIVER	273	1.1724
12	574	SANBORN	272	1.1563
12	593	STEELE	271	1.1411
12	598	SHEYENNE	273	1.1563
12	610	TAPPEN	271	1.1411
12	625	VALLEY CITY	272	1.1643
12	629	WALHALLA	273	1.1724
12	647	WILTON	262	1.1249
12	717	SPIRITWOOD	272	1.1563
12	718	FAIRMOUNT	600	1.0668
12	732	MSR SITE	273	1.1482
12	733	PAR SITE	273	1.1482
15	303	ALEXANDER	25	1.0701
15	308	ARNEGARD	25	1.0701

MONTANA-DAKOTA UTILITIES CO.
 Therm Billing Factor
 OCT 2010

Div Nbr	Off Code	City Name	Heat Zone Nbr	Therm Billing Factor
15	318	BEACH	32	.9611
15	319	BELFIELD	32	.9681
15	323	BERTHOLD	262	1.1249
15	330	BOWMAN	34	1.0613
15	337	BURLINGTON	262	1.1492
15	368	DES LACS	262	1.1330
15	369	DICKINSON	31	.9902
15	384	EPPING	264	1.1334
15	407	GLADSTONE	31	.9902
15	413	GOLVA	32	.9470
15	416	GARRISON	262	1.1330
15	429	HEBRON	31	.9974
15	459	KILLDEER	33	1.1136
15	469	LEFOR	31	.9902
15	474	LIGNITE	263	1.0778
15	500	MARMARTH	34	1.0692
15	505	MINOT	262	1.1492
15	510	MOTT	31	.9902
15	512	MAX	262	1.1249
15	522	NEW ENGLAND	31	.9830
15	540	PALERMO	262	1.1249
15	558	RAY	264	1.1334
15	561	REGENT	31	.9902
15	563	RHAME	34	1.0536
15	564	RICHARDTON	31	.9830
15	568	ROSS	261	1.0737
15	572	RUTHVILLE	262	1.1492
15	583	SENTINEL BUTTE	32	.9611
15	588	SOUTH HEART	31	.9830
15	590	SPRINGBROOK	264	1.1334
15	591	STANLEY	261	1.0815
15	605	SURREY	262	1.1492
15	611	TAYLOR	31	.9830
15	616	TIOGA	261	1.0737
15	619	TURTLE LAKE	262	1.1330

MONTANA-DAKOTA UTILITIES CO.
Therm Billing Factor
OCT 2010

Div Nbr	Off Code	City Name	Heat Zone Nbr	Therm Billing Factor
15	620	TRENTON	24	1.1416
15	624	UNDERWOOD	262	1.1330
15	632	WATFORD CITY	25	1.0701
15	636	WHEELLOCK	264	1.1252
15	637	WHITE EARTH	261	1.0815
15	642	WILLISTON	24	1.1416
15	646	WASHBURN	262	1.1411
15	664	RIVERDALE	262	1.1330
15	691	FAIRVIEW	24	1.1416
15	712	MINOT AFB	262	1.1492
15	743	BAKER FIELD	35	.8980

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

GQ Source Daily Summary

September 2010

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

Day	Relative Density		Heating Value		CO2	N2	C1	C2	C3	IC4	NC4	ICS	NC5	C5	C7	C8	C9	C10	Wobbe	CCT
	Wet	Dry	Wet	Dry																
1	0.7149	1187.6	1208.7	0.156	3.200	70.303	23.070	3.117	0.058	0.085	0.004	0.004	0.004	0.002	0.000	0.000	0.000	0.000	0.000	1429.54
2	0.7165	1194.4	1215.5	0.040	3.109	70.146	23.259	3.219	0.089	0.120	0.007	0.007	0.007	0.003	0.000	0.000	0.000	0.000	0.000	1435.98
3	0.7108	1185.7	1206.6	0.038	3.109	70.768	23.122	2.792	0.071	0.091	0.004	0.004	0.004	0.002	0.000	0.000	0.000	0.000	0.000	1431.26
4	0.7129	1189.7	1210.7	0.038	3.065	70.553	23.165	3.007	0.065	0.098	0.004	0.004	0.004	0.002	0.000	0.000	0.000	0.000	0.000	1433.93
5	0.7067	1179.5	1200.4	0.041	3.102	71.230	22.978	2.529	0.045	0.068	0.002	0.002	0.002	0.002	0.000	0.000	0.000	0.000	0.000	1427.89
6	0.7113	1187.1	1208.1	0.038	3.068	70.639	23.295	2.816	0.053	0.081	0.003	0.003	0.003	0.002	0.000	0.000	0.000	0.000	0.000	1432.48
7	0.7130	1190.0	1211.0	0.041	3.056	70.563	23.107	3.079	0.059	0.087	0.003	0.003	0.003	0.002	0.000	0.000	0.000	0.000	0.000	1434.14
8	0.7103	1186.1	1207.1	0.037	3.043	70.743	23.290	2.760	0.049	0.072	0.002	0.002	0.002	0.002	0.000	0.000	0.000	0.000	0.000	1432.24
9	0.7185	1188.5	1209.6	0.299	3.265	70.034	22.864	3.324	0.076	0.125	0.006	0.005	0.005	0.002	0.000	0.000	0.000	0.000	0.000	1427.09
10	0.7064	1179.7	1200.6	0.039	3.059	71.278	23.006	2.491	0.051	0.068	0.003	0.003	0.003	0.002	0.000	0.000	0.000	0.000	0.000	1428.50
11	0.7364	1194.0	1215.1	0.862	3.746	68.570	21.737	4.722	0.118	0.219	0.013	0.011	0.011	0.002	0.000	0.000	0.000	0.000	0.000	1416.19
12	0.7463	1198.3	1219.5	1.136	3.995	67.554	21.533	5.338	0.143	0.272	0.016	0.013	0.013	0.001	0.000	0.000	0.000	0.000	0.000	1411.65
13	0.7621	1223.9	1245.5	1.115	3.938	66.562	21.024	6.352	0.281	0.607	0.055	0.053	0.053	0.013	0.000	0.000	0.000	0.000	0.000	1426.64
14	0.7383	1185.0	1206.0	1.148	4.039	68.282	21.609	4.526	0.128	0.241	0.014	0.012	0.012	0.001	0.000	0.000	0.000	0.000	0.000	1403.55
15	0.7435	1194.3	1215.4	1.124	3.998	67.908	21.343	5.224	0.130	0.246	0.014	0.012	0.012	0.001	0.000	0.000	0.000	0.000	0.000	1409.55
16	0.7280	1179.7	1200.6	0.620	3.592	69.158	22.337	4.038	0.084	0.153	0.009	0.007	0.007	0.001	0.000	0.000	0.000	0.000	0.000	1407.45
17	0.7145	1181.8	1202.7	0.290	3.311	70.496	22.665	3.069	0.064	0.095	0.004	0.004	0.004	0.001	0.000	0.000	0.000	0.000	0.000	1423.00
18	0.7118	1187.4	1208.4	0.045	3.087	70.583	23.290	2.844	0.059	0.086	0.003	0.003	0.003	0.001	0.000	0.000	0.000	0.000	0.000	1432.34
19	0.7093	1184.1	1205.1	0.045	3.056	70.918	23.138	2.707	0.052	0.078	0.003	0.002	0.002	0.001	0.000	0.000	0.000	0.000	0.000	1430.88
20	0.7105	1185.4	1206.4	0.046	3.085	70.786	23.145	2.788	0.056	0.085	0.003	0.003	0.003	0.001	0.000	0.000	0.000	0.000	0.000	1431.25
21	0.7122	1185.3	1206.2	0.104	3.169	70.701	22.886	2.971	0.063	0.098	0.004	0.004	0.004	0.001	0.000	0.000	0.000	0.000	0.000	1429.36
22	0.7177	1184.3	1205.2	0.325	3.405	70.108	22.707	3.258	0.071	0.115	0.005	0.004	0.004	0.001	0.000	0.000	0.000	0.000	0.000	1422.80
23	0.7069	1179.0	1199.8	0.049	3.137	71.233	22.893	2.567	0.047	0.068	0.002	0.002	0.002	0.001	0.000	0.000	0.000	0.000	0.000	1427.07
24	0.7080	1182.5	1203.5	0.049	3.026	71.133	23.012	2.640	0.053	0.080	0.003	0.003	0.003	0.001	0.000	0.000	0.000	0.000	0.000	1430.24
25	0.7120	1187.8	1208.8	0.052	3.072	70.677	23.109	2.908	0.066	0.105	0.005	0.004	0.004	0.001	0.000	0.000	0.000	0.000	0.000	1432.57
26	0.7111	1186.6	1207.7	0.050	3.062	70.793	23.059	2.863	0.063	0.101	0.004	0.004	0.004	0.001	0.000	0.000	0.000	0.000	0.000	1432.10
27	0.7111	1187.7	1208.8	0.049	3.001	70.820	23.070	2.880	0.068	0.102	0.004	0.004	0.004	0.001	0.000	0.000	0.000	0.000	0.000	1433.37
28	0.7206	1183.1	1204.1	0.490	3.502	70.089	22.066	3.617	0.083	0.139	0.007	0.006	0.006	0.001	0.000	0.000	0.000	0.000	0.000	1418.55
29	0.7104	1186.3	1207.3	0.038	3.039	70.903	22.976	2.894	0.058	0.084	0.003	0.003	0.003	0.001	0.000	0.000	0.000	0.000	0.000	1430.71
30	0.7087	1183.5	1204.5	0.045	3.040	70.960	23.157	2.693	0.043	0.058	0.002	0.002	0.002	0.001	0.000	0.000	0.000	0.000	0.000	1430.34
Avg	0.7180	1188.0	1208.6	0.282	3.279	70.150	22.730	3.334	0.078	0.131	0.007	0.006	0.006	0.002	0.000	0.000	0.000	0.000	0.000	1426.49

Zone 211

GQ Source Analysis

GQ Source Number: 0602330	Specific Gravity: 0.7143
GQ Source Name: WILLISTON BORDER	BTU Base: Dry
Effective Date: 9/1/2010 9:00:00 AM	Measured Heat Value: 1203.39
Effective End Date: 1/18/2038 9:14:07 PM	Dry Heat Value: 1200.45
Pressure Base: 14.730	Wet Heat Value: 1179.55
Viscosity:	As Deliv. Heat Value: 1200.45

		<u>Mol %</u>	<u>GPM</u>			<u>Mol %</u>
C1	Methane	72.309		CO2	Carbon Dioxide	0.686
C2	Ethane	19.822	5.285	N2	Nitrogen	2.777
C3	Propane	3.837	1.054	O2	Oxygen	0.000
IC4	Iso-Butane	0.166	0.054	HE	Helium	
NC4	N-Butane	0.342	0.108	H2	Hydrogen	
IC5	Iso-Pentane	0.023	0.008	H2S	Hydrogen Sulfide	
NC5	N-Pentane	0.026	0.009	AR	Argon	
C6	Hexane	0.009	0.004	CO	Carbon Monoxide	
C7	Heptane			H2O	Water	
C8	Octane					
C9	Nonane					
C10	Decane					
Totals			99.997%	6.523	GPM	

Sample Date: 9/30/2010 12:00:00 AM
Sample Type: Composite
Sample Tech: sampler
Sample Remarks:

Analysis Remarks:

Zone 24, 264

GQ Source Analysis

GQ Source Number: 0602230
GQ Source Name: WATFORD CITY BORDER
Effective Date: 9/1/2010 9:00:00 AM
Effective End Date: 1/18/2038 9:14:07 PM
Pressure Base: 14.730
Viscosity:

Specific Gravity: 0.7274
BTU Base: Dry
Measured Heat Value: 1135.72
Dry Heat Value: 1133.07
Wet Heat Value: 1113.35
As Deliv. Heat Value: 1133.07

		<u>Mol %</u>	<u>GPM</u>			<u>Mol %</u>
C1	Methane	68.744		CO2	Carbon Dioxide	0.666
C2	Ethane	18.172	4.845	N2	Nitrogen	8.100
C3	Propane	3.701	1.017	O2	Oxygen	0.000
IC4	Iso-Butane	0.191	0.062	HE	Helium	
NC4	N-Butane	0.357	0.112	H2	Hydrogen	
IC5	Iso-Pentane	0.030	0.011	H2S	Hydrogen Sulfide	
NC5	N-Pentane	0.030	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%		6.062 GPM	

Sample Date: 9/30/2010 12:00:00 AM
Sample Type: Composite
Sample Tech: sampler
Sample Remarks:

Analysis Remarks:

Zone 25

GQ Source Daily Summary

September 2010

Number: 163 **Pressure Base:** 14.730 **Contract Day:** 1
Name: NORTH TIOGA-MINOT **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	Dry																	
1	0.6844	1133.1	1153.2	0.332	3.386	75.444	18.937	1.647	0.064	0.149	0.012	0.015	0.011					1393.92	
2	0.6855	1134.3	1154.4	0.350	3.394	75.101	19.371	1.559	0.054	0.128	0.012	0.016	0.016					1394.25	
3	0.6861	1135.9	1156.0	0.341	3.362	75.097	19.277	1.707	0.056	0.128	0.010	0.012	0.011					1395.62	
4	0.6856	1134.2	1154.3	0.348	3.405	75.245	19.062	1.704	0.061	0.140	0.011	0.013	0.011					1394.06	
5	0.6839	1132.3	1152.4	0.335	3.384	75.367	19.130	1.588	0.052	0.115	0.008	0.010	0.010					1393.45	
6	0.6788	1125.0	1145.0	0.315	3.376	75.867	19.117	1.195	0.034	0.075	0.005	0.006	0.009					1389.74	
7	0.6834	1131.5	1151.5	0.358	3.359	75.240	19.479	1.401	0.042	0.093	0.007	0.009	0.011					1392.88	
8	0.6835	1130.4	1150.4	0.377	3.403	75.361	19.236	1.415	0.050	0.116	0.011	0.015	0.016					1392.88	
9	0.6791	1124.5	1144.4	0.320	3.430	75.943	18.915	1.217	0.041	0.095	0.010	0.013	0.016					1391.44	
10	0.6809	1126.9	1146.8	0.332	3.434	75.718	18.986	1.355	0.043	0.098	0.009	0.011	0.014					1388.76	
11	0.6753	1118.8	1138.6	0.287	3.471	76.527	18.395	1.200	0.033	0.069	0.004	0.004	0.009					1389.88	
12	0.6742	1117.5	1137.3	0.280	3.471	76.620	18.451	1.078	0.031	0.066	0.004	0.005	0.009					1385.58	
13	0.6693	1107.5	1127.2	0.218	3.702	77.303	17.781	0.896	0.025	0.055	0.004	0.005	0.010					1385.17	
14	0.6775	1120.6	1140.5	0.306	3.538	76.239	18.498	1.258	0.039	0.089	0.008	0.011	0.014					1377.76	
15	0.6857	1134.2	1154.3	0.396	3.347	75.131	19.303	1.615	0.054	0.118	0.010	0.013	0.013					1385.61	
16	0.6757	1120.0	1139.9	0.279	3.452	76.410	18.598	1.114	0.035	0.080	0.008	0.010	0.014					1393.91	
17	0.6821	1128.6	1148.6	0.344	3.426	75.612	19.011	1.398	0.048	0.114	0.013	0.017	0.017					1386.65	
18	0.6752	1119.9	1139.7	0.282	3.409	76.503	18.569	1.085	0.036	0.084	0.008	0.011	0.013					1390.72	
19	0.6752	1119.9	1139.7	0.282	3.409	76.503	18.569	1.085	0.036	0.084	0.008	0.011	0.013					1386.98	
20	0.6859	1134.5	1154.6	0.352	3.411	75.148	19.268	1.546	0.058	0.146	0.019	0.026	0.026					1386.98	
21	0.6820	1129.0	1149.0	0.334	3.408	75.684	18.894	1.471	0.050	0.118	0.011	0.015	0.015					1394.12	
22	0.6752	1119.9	1139.7	0.282	3.409	76.503	18.569	1.085	0.036	0.084	0.008	0.011	0.013					1391.32	
23	0.6752	1119.9	1139.7	0.282	3.409	76.503	18.569	1.085	0.036	0.084	0.008	0.011	0.013					1386.98	
24	0.6752	1119.9	1139.7	0.282	3.409	76.503	18.569	1.085	0.036	0.084	0.008	0.011	0.013					1386.98	
25	0.6732	1116.8	1136.6	0.239	3.470	76.766	18.381	1.010	0.031	0.072	0.007	0.009	0.016					1385.29	
26	0.6769	1122.3	1142.2	0.259	3.452	76.362	18.489	1.270	0.040	0.092	0.008	0.011	0.016					1388.26	
27	0.6721	1115.2	1134.9	0.224	3.491	77.010	18.061	1.089	0.032	0.069	0.005	0.006	0.012					1385.29	
28	0.6745	1119.0	1138.8	0.224	3.486	76.688	18.256	1.197	0.036	0.082	0.007	0.008	0.015					1384.35	
29	0.6694	1111.8	1131.5	0.178	3.514	77.415	17.791	0.982	0.028	0.064	0.006	0.008	0.014					1386.57	
30	0.6769	1121.4	1141.3	0.260	3.502	76.418	18.320	1.331	0.043	0.095	0.008	0.009	0.015					1382.93	
AVG	0.6789	1125.0	1144.5	0.302	3.435	76.032	18.759	1.300	0.042	0.096	0.009	0.011	0.013					1387.19	
																			1389.01

Zone 261

GQ Source Daily Summary

September 2010

Number: 091

Pressure Base: 14.730

Contract Day: 1

Name: MINOT

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	0.7176	1157.9	1178.4	0.558	4.637	71.469	19.025	3.720	0.161	0.365	0.026	0.030	0.010	0.000	0.000	0.000	0.000	0.000	1391.13
2	0.7328	1176.9	1197.7	0.561	4.908	68.268	21.810	4.034	0.119	0.259	0.017	0.019	0.006	0.000	0.000	0.000	0.000	0.000	1399.14
3	0.7427	1191.0	1212.1	0.586	4.939	67.149	22.061	4.766	0.144	0.311	0.018	0.020	0.005	0.000	0.000	0.000	0.000	0.000	1406.43
4	0.7311	1173.6	1194.3	0.560	4.950	68.487	21.679	3.891	0.125	0.272	0.015	0.016	0.004	0.000	0.000	0.000	0.000	0.000	1396.85
5	0.7301	1172.0	1192.8	0.571	4.940	68.467	21.914	3.693	0.117	0.259	0.016	0.018	0.006	0.000	0.000	0.000	0.000	0.000	1395.92
6	0.7326	1177.4	1198.2	0.560	4.863	68.330	21.858	3.894	0.135	0.307	0.021	0.023	0.008	0.000	0.000	0.000	0.000	0.000	1399.91
7	0.7349	1181.3	1202.2	0.555	4.842	68.194	21.807	4.017	0.153	0.359	0.027	0.032	0.013	0.000	0.000	0.000	0.000	0.000	1402.39
8	0.7251	1165.4	1186.0	0.555	4.903	68.804	22.193	3.224	0.093	0.204	0.011	0.011	0.003	0.000	0.000	0.000	0.000	0.000	1392.80
9	0.7229	1164.1	1184.7	0.552	4.782	69.072	22.222	3.069	0.086	0.190	0.010	0.012	0.004	0.000	0.000	0.000	0.000	0.000	1393.37
10	0.7245	1165.6	1186.3	0.563	4.815	68.978	22.090	3.221	0.097	0.212	0.011	0.011	0.003	0.000	0.000	0.000	0.000	0.000	1393.73
11	0.7218	1163.2	1183.8	0.555	4.719	69.371	21.950	3.090	0.090	0.199	0.011	0.012	0.004	0.000	0.000	0.000	0.000	0.000	1393.47
12	0.7214	1161.1	1181.7	0.563	4.805	69.404	21.851	3.071	0.086	0.190	0.011	0.013	0.005	0.000	0.000	0.000	0.000	0.000	1391.25
13	0.7235	1162.4	1183.0	0.560	4.927	69.071	21.949	3.183	0.088	0.195	0.011	0.012	0.004	0.000	0.000	0.000	0.000	0.000	1390.79
14	0.7276	1166.7	1187.4	0.566	5.039	68.425	22.262	3.405	0.089	0.193	0.009	0.009	0.002	0.000	0.000	0.000	0.000	0.000	1392.00
15	0.7246	1161.3	1181.8	0.563	5.090	68.930	21.822	3.283	0.092	0.198	0.010	0.010	0.003	0.000	0.000	0.000	0.000	0.000	1388.41
16	0.7335	1172.4	1193.1	0.583	5.223	67.658	22.418	3.774	0.101	0.219	0.011	0.011	0.003	0.000	0.000	0.000	0.000	0.000	1393.12
17	0.7193	1161.1	1181.7	0.563	4.604	69.989	21.372	3.140	0.094	0.207	0.012	0.014	0.005	0.000	0.000	0.000	0.000	0.000	1393.38
18	0.7331	1172.7	1193.5	0.595	5.141	67.726	22.478	3.717	0.099	0.214	0.012	0.013	0.005	0.000	0.000	0.000	0.000	0.000	1393.92
19	0.7289	1167.8	1188.5	0.572	5.078	68.380	22.082	3.556	0.096	0.210	0.011	0.012	0.003	0.000	0.000	0.000	0.000	0.000	1392.15
20	0.7307	1171.9	1192.7	0.577	4.995	68.254	22.109	3.688	0.106	0.235	0.015	0.016	0.006	0.000	0.000	0.000	0.000	0.000	1395.24
21	0.7327	1174.2	1195.0	0.581	5.032	68.046	22.110	3.832	0.113	0.245	0.016	0.018	0.007	0.000	0.000	0.000	0.000	0.000	1396.08
22	0.7360	1180.1	1201.0	0.568	5.008	67.705	22.150	4.143	0.126	0.262	0.015	0.017	0.006	0.000	0.000	0.000	0.000	0.000	1399.88
23	0.7319	1174.5	1195.3	0.570	4.956	68.148	22.105	3.864	0.106	0.220	0.013	0.014	0.004	0.000	0.000	0.000	0.000	0.000	1397.19
24	0.7340	1175.6	1196.5	0.586	5.066	67.787	22.285	3.893	0.110	0.239	0.014	0.016	0.005	0.000	0.000	0.000	0.000	0.000	1396.48
25	0.7348	1175.8	1196.6	0.579	5.133	67.618	22.387	3.906	0.110	0.240	0.013	0.014	0.004	0.000	0.000	0.000	0.000	0.000	1396.02
26	0.7317	1170.4	1191.1	0.572	5.185	67.968	22.262	3.634	0.109	0.237	0.013	0.014	0.003	0.000	0.000	0.000	0.000	0.000	1392.53
27	0.7313	1170.7	1191.5	0.565	5.139	67.973	22.378	3.574	0.106	0.234	0.013	0.014	0.004	0.000	0.000	0.000	0.000	0.000	1392.50
28	0.7303	1169.8	1190.5	0.559	5.118	68.144	22.252	3.557	0.106	0.234	0.013	0.014	0.003	0.000	0.000	0.000	0.000	0.000	1393.30
29	0.7318	1171.4	1192.2	0.568	5.145	67.894	22.397	3.639	0.104	0.227	0.012	0.012	0.003	0.000	0.000	0.000	0.000	0.000	1393.58
30	0.7326	1171.3	1192.1	0.569	5.224	67.730	22.430	3.725	0.096	0.203	0.010	0.011	0.003	0.000	0.000	0.000	0.000	0.000	1392.71
AVG	0.7295	1171.0	1191.4	0.568	4.973	68.448	21.990	3.640	0.109	0.238	0.014	0.015	0.005	0.000	0.000	0.000	0.000	0.000	1394.87

Zone 262

GQ Source Analysis

GQ Source Number:	2501030	Specific Gravity:	0.6637
GQ Source Name:	LIGNITE PLANT	BTU Base:	Dry
Effective Date:	9/1/2010 9:00:00 AM	Measured Heat Value:	1134.51
Effective End Date:	1/18/2038 9:14:07 PM	Dry Heat Value:	1132.69
Pressure Base:	14.730	Wet Heat Value:	1112.98
Viscosity:		As Deliv. Heat Value:	1132.69

		<u>Mol %</u>	<u>GPM</u>			<u>Mol %</u>
C1	Methane	77.772		CO2	Carbon Dioxide	0.128
C2	Ethane	18.650	0.000	N2	Nitrogen	2.950
C3	Propane	0.460	0.126	O2	Oxygen	0.000
IC4	Iso-Butane	0.001	0.000	HE	Helium	
NC4	N-Butane	0.001	0.000	H2	Hydrogen	
IC5	Iso-Pentane	0.002	0.001	H2S	Hydrogen Sulfide	
NC5	N-Pentane	0.002	0.001	AR	Argon	
C6	Hexane	0.029	0.013	CO	Carbon Monoxide	
C7	Heptane			H2O	Water	
C8	Octane					
C9	Nonane					
C10	Decane					
Totals			99.994%	0.142	GPM	

Sample Date: 9/30/2010 12:00:00 AM
Sample Type: Composite
Sample Tech: sampler
Sample Remarks:

Analysis Remarks:

*** End of Report ***

Zone 263

GQ Source Daily Summary

September 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	Wet	Dry																
1	0.7362	1181.6	1202.5	1195.1	0.589	4.898	67.909	21.911	4.238	0.124	0.273	0.019	0.021	0.018	0.000	0.000	0.000	0.000	1401.51	
2	0.7313	1174.4	1195.1	1190.5	0.569	4.916	68.487	21.697	3.894	0.123	0.267	0.016	0.018	0.014	0.000	0.000	0.000	0.000	1397.51	
3	0.7287	1169.7	1190.5	1187.7	0.576	4.945	68.614	21.925	3.525	0.112	0.251	0.016	0.018	0.017	0.000	0.000	0.000	0.000	1394.52	
4	0.7318	1176.8	1197.7	1209.8	0.567	4.811	68.559	21.674	3.883	0.134	0.301	0.023	0.026	0.022	0.000	0.000	0.000	0.000	1399.99	
5	0.7395	1188.8	1209.8	1188.7	0.565	4.808	68.047	21.420	4.409	0.188	0.450	0.038	0.043	0.032	0.000	0.000	0.000	0.000	1406.78	
6	0.7266	1168.0	1188.7	1184.3	0.555	4.869	68.726	22.153	3.322	0.098	0.218	0.013	0.015	0.017	0.000	0.000	0.000	0.000	1394.47	
7	0.7231	1163.7	1184.3	1187.6	0.555	4.826	69.074	22.160	3.073	0.087	0.191	0.011	0.012	0.012	0.000	0.000	0.000	0.000	1392.68	
8	0.7251	1166.9	1187.6	1185.3	0.572	4.787	68.919	22.145	3.235	0.094	0.207	0.013	0.014	0.014	0.000	0.000	0.000	0.000	1394.63	
9	0.7240	1164.7	1185.3	1179.3	0.581	4.801	69.085	22.011	3.194	0.091	0.200	0.012	0.013	0.013	0.000	0.000	0.000	0.000	1393.07	
10	0.7190	1158.8	1179.3	1182.1	0.571	4.705	69.900	21.511	3.001	0.084	0.185	0.013	0.015	0.016	0.000	0.000	0.000	0.000	1390.90	
11	0.7237	1161.5	1182.1	1183.2	0.573	4.985	69.011	21.991	3.126	0.085	0.188	0.012	0.013	0.015	0.000	0.000	0.000	0.000	1389.51	
12	0.7234	1162.6	1183.2	1187.5	0.567	4.898	69.158	21.867	3.189	0.087	0.191	0.012	0.014	0.015	0.000	0.000	0.000	0.000	1391.13	
13	0.7273	1166.8	1187.5	1180.9	0.572	4.999	68.530	22.195	3.394	0.087	0.190	0.011	0.011	0.012	0.000	0.000	0.000	0.000	1392.40	
14	0.7240	1160.3	1180.9	1187.7	0.577	5.079	69.038	21.752	3.245	0.087	0.188	0.011	0.011	0.011	0.000	0.000	0.000	0.000	1387.78	
15	0.7287	1167.0	1187.7	1173.5	0.569	5.120	68.425	22.007	3.542	0.094	0.205	0.012	0.012	0.012	0.000	0.000	0.000	0.000	1391.35	
16	0.7101	1153.1	1173.5	1189.4	0.496	4.334	71.347	20.819	2.727	0.073	0.164	0.011	0.013	0.016	0.000	0.000	0.000	0.000	1392.80	
17	0.7288	1168.7	1189.4	1189.8	0.611	4.962	68.458	22.139	3.476	0.099	0.209	0.013	0.016	0.017	0.000	0.000	0.000	0.000	1393.26	
18	0.7297	1169.1	1189.8	1193.7	0.580	5.067	68.274	22.175	3.571	0.093	0.200	0.012	0.014	0.014	0.000	0.000	0.000	0.000	1392.89	
19	0.7314	1173.0	1193.7	1194.7	0.587	4.981	68.185	22.172	3.682	0.105	0.237	0.016	0.018	0.016	0.000	0.000	0.000	0.000	1395.83	
20	0.7320	1173.9	1194.7	1202.7	0.589	4.978	68.193	22.058	3.769	0.110	0.246	0.017	0.020	0.019	0.000	0.000	0.000	0.000	1396.37	
21	0.7373	1181.8	1202.7	1196.6	0.581	5.004	67.604	22.175	4.181	0.130	0.271	0.017	0.019	0.018	0.000	0.000	0.000	0.000	1400.68	
22	0.7324	1175.8	1196.6	1196.2	0.575	4.920	68.126	22.137	3.867	0.108	0.220	0.014	0.016	0.017	0.000	0.000	0.000	0.000	1398.26	
23	0.7327	1175.4	1196.2	1196.8	0.585	4.955	68.045	22.204	3.831	0.106	0.226	0.015	0.017	0.016	0.000	0.000	0.000	0.000	1397.54	
24	0.7345	1176.0	1196.8	1192.4	0.590	5.091	67.711	22.333	3.891	0.107	0.233	0.015	0.016	0.014	0.000	0.000	0.000	0.000	1396.39	
25	0.7319	1171.7	1192.4	1188.7	0.577	5.127	67.978	22.299	3.627	0.108	0.229	0.015	0.016	0.013	0.000	0.000	0.000	0.000	1393.78	
26	0.7294	1168.0	1188.7	1190.3	0.567	5.129	68.308	22.122	3.503	0.102	0.227	0.014	0.015	0.013	0.000	0.000	0.000	0.000	1391.84	
27	0.7302	1169.6	1190.3	1190.0	0.574	5.097	68.185	22.239	3.544	0.099	0.220	0.014	0.015	0.014	0.000	0.000	0.000	0.000	1392.98	
28	0.7304	1169.3	1190.0	1191.7	0.574	5.133	68.158	22.207	3.571	0.099	0.218	0.013	0.014	0.013	0.000	0.000	0.000	0.000	1392.40	
29	0.7322	1171.0	1191.7	1195.0	0.577	5.197	67.835	22.376	3.680	0.095	0.203	0.012	0.012	0.013	0.000	0.000	0.000	0.000	1392.70	
30	0.7337	1174.2	1195.0	1190.8	0.569	5.152	67.692	22.416	3.828	0.096	0.207	0.012	0.013	0.013	0.000	0.000	0.000	0.000	1395.13	
AVG	0.7290	1170.0	1190.8		0.573	4.953	68.519	22.010	3.567	0.103	0.228	0.015	0.016	0.016	0.000	0.000	0.000	0.000	1394.70	

Zone 271

GQ Source Daily Summary

September 2010

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

Day	Relative Density		Heating Value		C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
	Wet	Dry	Wet	Dry													
1	0.7211	1159.5	1180.1	0.577	4.842	70.600	19.740	3.735	0.135	0.306	0.025	0.028	0.014	0.000	0.000	0.000	1389.65
2	0.7363	1181.4	1202.4	0.585	4.924	67.937	21.791	4.300	0.130	0.286	0.019	0.021	0.007	0.000	0.000	0.000	1401.20
3	0.7279	1168.6	1189.3	0.580	4.928	68.830	21.664	3.581	0.114	0.261	0.018	0.019	0.006	0.000	0.000	0.000	1394.01
4	0.7265	1167.1	1187.8	0.570	4.902	68.929	21.782	3.413	0.106	0.246	0.020	0.023	0.009	0.000	0.000	0.000	1393.56
5	0.7357	1182.7	1203.7	0.569	4.811	68.153	21.710	4.213	0.151	0.336	0.022	0.024	0.011	0.000	0.000	0.000	1403.35
6	0.7391	1188.7	1209.8	0.556	4.782	68.035	21.576	4.287	0.185	0.464	0.040	0.047	0.028	0.000	0.000	0.000	1407.14
7	0.7251	1165.3	1186.0	0.562	4.893	68.858	22.114	3.250	0.092	0.203	0.012	0.012	0.003	0.000	0.000	0.000	1392.79
8	0.7225	1163.8	1184.4	0.545	4.771	69.194	22.059	3.081	0.088	0.194	0.013	0.013	0.003	0.000	0.000	0.000	1393.46
9	0.7238	1165.0	1185.7	0.571	4.781	69.094	22.026	3.201	0.094	0.207	0.013	0.013	0.001	0.000	0.000	0.000	1393.63
10	0.7186	1158.9	1179.4	0.559	4.689	69.914	21.550	2.973	0.087	0.194	0.013	0.015	0.006	0.000	0.000	0.000	1391.30
11	0.7244	1163.2	1183.8	0.593	4.919	69.017	21.916	3.227	0.090	0.199	0.013	0.015	0.011	0.000	0.000	0.000	1390.83
12	0.7195	1158.0	1178.5	0.547	4.840	69.671	21.677	2.961	0.085	0.188	0.012	0.013	0.006	0.000	0.000	0.000	1389.42
13	0.7282	1167.1	1187.8	0.581	5.049	68.402	22.194	3.462	0.089	0.195	0.012	0.012	0.003	0.000	0.000	0.000	1391.95
14	0.7252	1162.9	1183.5	0.578	5.033	68.817	21.974	3.294	0.089	0.194	0.011	0.011	0.000	0.000	0.000	0.000	1389.74
15	0.7265	1164.0	1184.6	0.572	5.100	68.704	21.875	3.424	0.095	0.207	0.012	0.012	0.000	0.000	0.000	0.000	1389.75
16	0.7298	1168.9	1189.6	0.577	5.097	68.272	22.086	3.635	0.096	0.211	0.013	0.013	0.000	0.000	0.000	0.000	1392.53
17	0.7061	1149.3	1169.6	0.495	4.197	72.037	20.410	2.574	0.078	0.173	0.012	0.014	0.010	0.000	0.000	0.000	1392.03
18	0.7300	1169.1	1189.8	0.595	5.080	68.214	22.211	3.554	0.097	0.211	0.014	0.015	0.008	0.000	0.000	0.000	1392.50
19	0.7289	1168.7	1189.4	0.579	5.026	68.419	22.077	3.552	0.097	0.216	0.014	0.015	0.004	0.000	0.000	0.000	1393.06
20	0.7312	1173.0	1193.8	0.586	4.965	68.227	22.126	3.702	0.108	0.242	0.017	0.019	0.008	0.000	0.000	0.000	1396.04
21	0.7326	1174.3	1195.1	0.582	5.019	68.159	21.940	3.894	0.114	0.243	0.017	0.020	0.012	0.000	0.000	0.000	1396.27
22	0.7355	1179.6	1200.5	0.571	4.984	67.859	22.035	4.103	0.128	0.270	0.018	0.020	0.013	0.000	0.000	0.000	1399.81
23	0.7320	1175.1	1195.9	0.578	4.928	68.165	22.089	3.872	0.107	0.225	0.014	0.016	0.006	0.000	0.000	0.000	1397.72
24	0.7332	1175.0	1195.8	0.587	5.026	67.945	22.199	3.865	0.107	0.234	0.016	0.017	0.004	0.000	0.000	0.000	1396.53
25	0.7332	1173.4	1194.2	0.581	5.136	67.823	22.301	3.774	0.110	0.243	0.015	0.016	0.000	0.000	0.000	0.000	1394.59
26	0.7308	1170.2	1190.9	0.572	5.119	68.077	22.297	3.562	0.105	0.236	0.015	0.016	0.000	0.000	0.000	0.000	1393.10
27	0.7302	1169.7	1190.4	0.566	5.098	68.217	22.179	3.562	0.107	0.238	0.015	0.016	0.001	0.000	0.000	0.000	1393.13
28	0.7303	1169.6	1190.4	0.567	5.114	68.143	22.244	3.583	0.100	0.222	0.014	0.014	0.000	0.000	0.000	0.000	1392.93
29	0.7286	1166.8	1187.5	0.563	5.136	68.267	22.282	3.431	0.092	0.204	0.012	0.013	0.000	0.000	0.000	0.000	1391.17
30	0.7354	1175.3	1196.2	0.584	5.215	67.498	22.368	3.995	0.101	0.214	0.012	0.013	0.000	0.000	0.000	0.000	1394.89
AVG	0.7283	1169.0	1189.9	0.571	4.947	68.649	21.884	3.569	0.106	0.235	0.016	0.017	0.006	0.000	0.000	0.000	1394.27

Zone 272

GQ Source Daily Summary

September 2010

Number: 061 **Pressure Base:** 14.730 **Contract Day:** 1
Name: CLEVELAND-GRAFTON **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	0.7213	1160.7	1181.3	0.569	4.796	70.606	19.752	3.756	0.140	0.317	0.023	0.027	0.014	0.000	0.000	0.000	0.000	1390.94
2	0.7352	1180.1	1201.0	0.578	4.911	68.092	21.716	4.247	0.128	0.283	0.019	0.021	0.004	0.000	0.000	0.000	0.000	1400.67
3	0.7260	1165.3	1185.9	0.579	4.955	69.014	21.596	3.488	0.102	0.229	0.015	0.017	0.004	0.000	0.000	0.000	0.000	1391.83
4	0.7265	1167.3	1188.0	0.569	4.898	68.944	21.760	3.413	0.108	0.256	0.020	0.022	0.008	0.000	0.000	0.000	0.000	1393.71
5	0.7364	1184.2	1205.1	0.563	4.803	68.051	21.769	4.269	0.151	0.335	0.022	0.024	0.011	0.000	0.000	0.000	0.000	1404.31
6	0.7378	1186.6	1207.6	0.556	4.796	67.815	21.929	4.392	0.149	0.313	0.019	0.021	0.011	0.000	0.000	0.000	0.000	1405.85
7	0.7249	1164.9	1185.5	0.567	4.896	68.887	22.094	3.236	0.092	0.202	0.012	0.012	0.003	0.000	0.000	0.000	0.000	1392.42
8	0.7227	1164.2	1184.8	0.552	4.722	69.221	22.037	3.118	0.090	0.200	0.012	0.013	0.003	0.000	0.000	0.000	0.000	1393.77
9	0.7238	1165.0	1185.6	0.570	4.785	69.097	22.013	3.208	0.094	0.207	0.012	0.013	0.001	0.000	0.000	0.000	0.000	1393.59
10	0.7190	1159.6	1180.1	0.561	4.683	69.851	21.603	2.987	0.087	0.194	0.013	0.015	0.006	0.000	0.000	0.000	0.000	1391.70
11	0.7244	1163.3	1183.9	0.587	4.915	69.035	21.907	3.226	0.090	0.201	0.013	0.015	0.011	0.000	0.000	0.000	0.000	1391.01
12	0.7196	1158.0	1178.5	0.543	4.860	69.643	21.685	2.964	0.085	0.188	0.012	0.013	0.006	0.000	0.000	0.000	0.000	1389.27
13	0.7282	1167.3	1187.9	0.577	5.046	68.395	22.218	3.455	0.089	0.194	0.012	0.012	0.003	0.000	0.000	0.000	0.000	1392.12
14	0.7251	1162.6	1183.2	0.572	5.045	68.842	21.943	3.293	0.089	0.193	0.011	0.011	0.000	0.000	0.000	0.000	0.000	1389.51
15	0.7266	1164.2	1184.8	0.572	5.094	68.700	21.882	3.427	0.095	0.207	0.012	0.012	0.000	0.000	0.000	0.000	0.000	1389.91
16	0.7286	1167.8	1188.4	0.572	5.062	68.435	22.039	3.565	0.094	0.207	0.013	0.014	0.000	0.000	0.000	0.000	0.000	1392.30
17	0.7062	1149.3	1169.7	0.494	4.196	72.023	20.430	2.573	0.077	0.170	0.013	0.013	0.010	0.000	0.000	0.000	0.000	1392.11
18	0.7302	1169.2	1189.9	0.598	5.083	68.178	22.248	3.538	0.097	0.212	0.014	0.015	0.008	0.000	0.000	0.000	0.000	1392.50
19	0.7289	1168.6	1189.2	0.580	5.031	68.413	22.083	3.548	0.096	0.214	0.014	0.015	0.004	0.000	0.000	0.000	0.000	1392.93
20	0.7318	1173.9	1194.6	0.586	4.968	68.155	22.141	3.756	0.110	0.243	0.016	0.018	0.006	0.000	0.000	0.000	0.000	1396.49
21	0.7327	1174.7	1195.5	0.583	5.009	68.141	21.959	3.901	0.114	0.245	0.017	0.019	0.012	0.000	0.000	0.000	0.000	1396.56
22	0.7356	1179.9	1200.8	0.569	4.975	67.877	22.005	4.113	0.130	0.278	0.018	0.021	0.013	0.000	0.000	0.000	0.000	1400.13
23	0.7321	1175.1	1195.9	0.578	4.932	68.170	22.069	3.894	0.107	0.221	0.015	0.016	0.007	0.000	0.000	0.000	0.000	1397.66
24	0.7332	1175.0	1195.8	0.587	5.028	67.945	22.186	3.875	0.108	0.234	0.016	0.017	0.005	0.000	0.000	0.000	0.000	1396.54
25	0.7331	1173.2	1194.0	0.581	5.135	67.844	22.283	3.773	0.110	0.242	0.015	0.016	0.000	0.000	0.000	0.000	0.000	1394.51
26	0.7308	1170.3	1191.1	0.571	5.115	68.065	22.314	3.563	0.105	0.235	0.015	0.016	0.000	0.000	0.000	0.000	0.000	1393.24
27	0.7302	1170.0	1190.7	0.561	5.093	68.209	22.193	3.565	0.107	0.239	0.015	0.016	0.002	0.000	0.000	0.000	0.000	1393.41
28	0.7305	1169.9	1190.6	0.568	5.114	68.128	22.238	3.602	0.100	0.222	0.013	0.014	0.000	0.000	0.000	0.000	0.000	1393.04
29	0.7288	1167.2	1187.8	0.563	5.132	68.237	22.308	3.438	0.092	0.204	0.012	0.013	0.000	0.000	0.000	0.000	0.000	1391.39
30	0.7356	1175.7	1196.5	0.585	5.213	67.475	22.376	4.012	0.102	0.214	0.012	0.012	0.000	0.000	0.000	0.000	0.000	1395.07
Avg	0.7282	1169.0	1189.8	0.570	4.944	68.650	21.893	3.573	0.105	0.230	0.015	0.016	0.005	0.000	0.000	0.000	0.000	1394.28

Zone 273

GQ Source Daily Summary

September 2010

Number: 041 **Pressure Base:** 14.730 **Contract Day:** 1
Name: BISMARCK-DICKINSON **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	0.7368	1182.6	1203.6	0.587	4.894	67.836	21.952	4.265	0.126	0.280	0.019	0.022	0.018	0.000	0.000	0.000	0.000	1402.18
2	0.7323	1176.1	1197.0	0.571	4.900	68.365	21.757	3.963	0.125	0.272	0.016	0.017	0.014	0.000	0.000	0.000	0.000	1398.65
3	0.7283	1169.4	1190.1	0.577	4.925	68.626	21.993	3.483	0.105	0.236	0.017	0.019	0.017	0.000	0.000	0.000	0.000	1394.50
4	0.7327	1178.2	1199.1	0.566	4.807	68.436	21.770	3.896	0.137	0.320	0.022	0.025	0.022	0.000	0.000	0.000	0.000	1400.87
5	0.7413	1191.9	1213.0	0.564	4.785	67.776	21.605	4.534	0.184	0.440	0.036	0.044	0.031	0.000	0.000	0.000	0.000	1408.79
6	0.7273	1169.2	1189.9	0.568	4.855	68.669	22.170	3.363	0.102	0.227	0.014	0.015	0.018	0.000	0.000	0.000	0.000	1395.29
7	0.7238	1164.7	1185.3	0.553	4.828	68.990	22.197	3.115	0.088	0.194	0.011	0.012	0.018	0.000	0.000	0.000	0.000	1393.24
8	0.7251	1166.8	1187.4	0.572	4.791	68.909	22.172	3.218	0.093	0.205	0.013	0.014	0.014	0.000	0.000	0.000	0.000	1394.51
9	0.7241	1164.9	1185.6	0.581	4.801	69.061	22.034	3.196	0.090	0.199	0.012	0.013	0.013	0.000	0.000	0.000	0.000	1393.23
10	0.7186	1158.0	1178.5	0.572	4.719	69.961	21.452	2.985	0.083	0.184	0.013	0.014	0.017	0.000	0.000	0.000	0.000	1390.24
11	0.7239	1161.7	1182.3	0.573	4.986	68.992	22.001	3.132	0.086	0.190	0.012	0.013	0.015	0.000	0.000	0.000	0.000	1389.62
12	0.7239	1163.4	1184.0	0.569	4.890	69.081	21.938	3.201	0.087	0.192	0.012	0.013	0.015	0.000	0.000	0.000	0.000	1391.64
13	0.7269	1166.2	1186.8	0.570	5.006	68.580	22.165	3.367	0.087	0.191	0.011	0.011	0.012	0.000	0.000	0.000	0.000	1392.00
14	0.7244	1160.8	1181.4	0.575	5.083	68.974	21.810	3.248	0.088	0.190	0.011	0.011	0.011	0.000	0.000	0.000	0.000	1388.07
15	0.7286	1167.1	1187.8	0.567	5.114	68.427	22.023	3.533	0.094	0.205	0.012	0.012	0.013	0.000	0.000	0.000	0.000	1391.46
16	0.7105	1153.1	1173.5	0.498	4.370	71.288	20.818	2.748	0.074	0.164	0.011	0.013	0.016	0.000	0.000	0.000	0.000	1392.37
17	0.7278	1168.0	1188.7	0.607	4.918	68.621	22.057	3.444	0.097	0.213	0.013	0.014	0.017	0.000	0.000	0.000	0.000	1393.41
18	0.7300	1169.4	1190.2	0.583	5.074	68.223	22.200	3.581	0.095	0.203	0.012	0.013	0.014	0.000	0.000	0.000	0.000	1392.96
19	0.7315	1173.1	1193.9	0.588	4.978	68.157	22.208	3.684	0.104	0.232	0.016	0.018	0.016	0.000	0.000	0.000	0.000	1395.94
20	0.7322	1174.0	1194.8	0.589	4.990	68.156	22.083	3.771	0.110	0.244	0.017	0.020	0.019	0.000	0.000	0.000	0.000	1396.28
21	0.7369	1181.2	1202.1	0.582	5.005	67.624	22.197	4.141	0.128	0.268	0.017	0.019	0.018	0.000	0.000	0.000	0.000	1400.35
22	0.7324	1175.9	1196.7	0.575	4.915	68.127	22.140	3.869	0.107	0.221	0.014	0.016	0.017	0.000	0.000	0.000	0.000	1398.39
23	0.7346	1176.0	1196.1	0.583	4.963	68.054	22.174	3.849	0.106	0.224	0.015	0.017	0.016	0.000	0.000	0.000	0.000	1397.42
24	0.7346	1176.0	1196.8	0.590	5.092	67.706	22.334	3.894	0.107	0.232	0.015	0.016	0.014	0.000	0.000	0.000	0.000	1396.40
25	0.7321	1171.9	1192.7	0.577	5.128	67.950	22.320	3.630	0.108	0.242	0.015	0.016	0.014	0.000	0.000	0.000	0.000	1393.91
26	0.7299	1168.8	1189.5	0.568	5.120	68.237	22.187	3.517	0.102	0.226	0.014	0.015	0.013	0.000	0.000	0.000	0.000	1392.39
27	0.7302	1169.6	1190.3	0.573	5.096	68.211	22.196	3.561	0.100	0.221	0.014	0.015	0.014	0.000	0.000	0.000	0.000	1392.99
28	0.7309	1170.1	1190.9	0.574	5.129	68.099	22.228	3.611	0.099	0.221	0.013	0.014	0.013	0.000	0.000	0.000	0.000	1392.95
29	0.7323	1171.2	1192.0	0.577	5.188	67.830	22.387	3.682	0.095	0.203	0.012	0.012	0.013	0.000	0.000	0.000	0.000	1392.91
30	0.7334	1173.7	1194.4	0.569	5.157	67.744	22.375	3.813	0.096	0.207	0.012	0.013	0.013	0.000	0.000	0.000	0.000	1394.74
AVG	0.7292	1170.0	1191.1	0.573	4.950	68.490	22.031	3.577	0.103	0.228	0.015	0.016	0.016	0.000	0.000	0.000	0.000	1394.92

Zone 28

GQ Source Daily Summary

September 2010

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

Day	Relative Value		CO2	Heating Value																CCT			
	Wet	Dry		N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe						
1	0.6068	1017.3	1.257	1.721	90.827	5.727	0.409	0.036	0.023	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1329.15
2	0.6140	1031.3	1.159	1.699	89.312	7.300	0.467	0.038	0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1339.45
3	0.6176	1036.5	1.092	1.821	88.515	8.027	0.483	0.037	0.025	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1342.11
4	0.6066	1020.1	0.802	2.227	90.356	6.121	0.440	0.030	0.023	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1332.95
5	0.6067	1013.9	0.902	2.459	90.308	5.921	0.367	0.024	0.018	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1324.82
6	0.6047	1012.0	0.861	2.451	90.681	5.600	0.359	0.028	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1324.49
7	0.6040	1008.7	0.818	2.653	90.757	5.349	0.378	0.024	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1320.94
8	0.6047	1008.5	0.857	2.676	90.684	5.319	0.417	0.025	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1319.83
9	0.6046	1008.5	0.716	2.876	90.458	5.562	0.359	0.016	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1319.99
10	0.6036	1007.2	0.742	2.826	90.686	5.362	0.347	0.021	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1319.35
11	0.6082	1013.7	0.698	2.926	89.703	6.283	0.356	0.019	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1322.86
12	0.6041	1006.6	0.723	2.936	90.519	5.468	0.325	0.016	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1318.05
13	0.6176	1032.0	0.653	2.765	88.124	7.707	0.698	0.028	0.023	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1336.36
14	0.6546	1086.8	0.127	3.713	80.492	14.303	1.314	0.021	0.031	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1367.02
15	0.6455	1071.9	0.152	3.726	82.162	12.806	1.107	0.018	0.028	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1357.72
16	0.6478	1070.7	0.218	3.915	81.894	12.653	1.275	0.016	0.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1353.78
17	0.6473	1073.6	0.156	3.786	81.781	13.108	1.153	0.007	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1358.00
18	0.6087	1008.4	0.552	3.521	89.410	6.042	0.467	0.001	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1315.39
19	0.6213	1028.2	0.461	3.633	87.045	8.093	0.740	0.009	0.018	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1327.65
20	0.6145	1019.5	0.533	3.418	88.237	7.322	0.480	0.002	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1323.60
21	0.6458	1071.8	0.178	3.722	82.155	12.764	1.135	0.019	0.027	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1357.13
22	0.6368	1053.5	0.302	3.793	84.189	10.476	1.182	0.023	0.035	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1343.43
23	0.6214	1028.1	0.464	3.648	87.033	8.068	0.762	0.008	0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1327.36
24	0.6301	1043.0	0.340	3.753	85.332	9.581	0.953	0.016	0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1337.14
25	0.6453	1068.5	0.196	3.841	82.588	11.909	1.384	0.031	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1353.67
26	0.6392	1058.7	0.257	3.773	83.667	11.047	1.192	0.025	0.039	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1347.68
27	0.6466	1070.7	0.167	3.871	82.256	12.261	1.371	0.030	0.044	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1355.17
28	0.6428	1063.6	0.244	3.828	83.150	11.322	1.363	0.035	0.059	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1350.12
29	0.6347	1049.2	0.343	3.795	84.626	10.031	1.142	0.025	0.039	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1340.34
30	0.6349	1051.5	0.370	3.711	84.496	10.826	1.110	0.016	0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1343.02
Avg	0.6240	1038.0	0.543	3.183	86.715	8.729	0.785	0.022	0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1336.95

Zone 31

GQ Source Daily Summary

September 2010

Number: 051

Pressure Base: 14.730

Contract Day: 1

Name: CABIN CR-DICKINSON

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	Wet	Dry																
1	0.5944	994.9	1012.5	1012.5	1.497	1.565	93.824	2.539	0.465	0.053	0.038	0.009	0.004	0.005	0.000	0.000	0.000	0.000	0.000	1313.32
2	0.5947	992.4	1009.9	1009.9	1.417	1.876	93.572	2.588	0.451	0.046	0.034	0.008	0.004	0.004	0.000	0.000	0.000	0.000	0.000	1309.59
3	0.5907	991.6	1009.2	1009.2	0.961	2.230	93.858	2.443	0.420	0.040	0.032	0.007	0.004	0.004	0.000	0.000	0.000	0.000	0.000	1313.13
4	0.5902	982.9	1000.3	1000.3	1.110	2.492	93.955	2.026	0.344	0.034	0.028	0.006	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1302.11
5	0.5888	982.6	1000.0	1000.0	1.043	2.486	94.158	1.908	0.326	0.037	0.028	0.006	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1303.19
6	0.5898	982.8	1000.2	1000.2	0.987	2.647	93.900	2.042	0.350	0.034	0.029	0.006	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1302.44
7	0.5927	985.5	1002.9	1002.9	1.028	2.701	93.410	2.359	0.421	0.036	0.032	0.006	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1302.68
8	0.5902	980.6	998.0	998.0	0.877	2.990	93.593	2.151	0.332	0.025	0.023	0.004	0.002	0.002	0.000	0.000	0.000	0.000	0.000	1299.04
9	0.5893	980.3	997.6	997.6	0.879	2.925	93.799	2.006	0.327	0.029	0.025	0.005	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1299.56
10	0.5911	980.8	998.1	998.1	0.862	3.084	93.408	2.245	0.338	0.028	0.025	0.004	0.003	0.002	0.000	0.000	0.000	0.000	0.000	1298.31
11	0.5887	977.4	994.7	994.7	0.887	3.028	93.872	1.864	0.291	0.026	0.023	0.004	0.002	0.002	0.000	0.000	0.000	0.000	0.000	1296.43
12	0.5952	991.8	1009.3	1009.3	0.904	2.738	92.816	3.000	0.465	0.037	0.029	0.006	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1308.28
13	0.6462	1068.4	1087.3	1087.3	0.243	3.876	82.471	11.914	1.421	0.030	0.041	0.002	0.002	0.001	0.000	0.000	0.000	0.000	0.000	1352.55
14	0.6438	1063.4	1082.3	1082.3	0.172	4.061	82.738	11.654	1.307	0.026	0.038	0.002	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1348.79
15	0.6396	1050.0	1068.6	1068.6	0.342	4.223	83.907	10.010	1.429	0.032	0.052	0.003	0.002	0.001	0.000	0.000	0.000	0.000	0.000	1336.16
16	0.6429	1062.2	1081.0	1081.0	0.166	4.056	82.848	11.606	1.285	0.017	0.020	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1348.23
17	0.6123	1011.7	1029.6	1029.6	0.495	3.753	88.918	6.081	0.715	0.015	0.020	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1315.66
18	0.6069	1002.4	1020.2	1020.2	0.581	3.684	90.013	5.069	0.610	0.016	0.023	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1309.54
19	0.6026	994.8	1012.4	1012.4	0.631	3.667	90.870	4.261	0.534	0.014	0.021	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1304.14
20	0.6441	1064.2	1083.1	1083.1	0.165	4.048	82.702	11.981	1.337	0.026	0.036	0.002	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1349.38
21	0.6570	1085.3	1104.6	1104.6	0.084	4.093	80.524	13.403	1.785	0.041	0.062	0.003	0.003	0.001	0.000	0.000	0.000	0.000	0.000	1362.75
22	0.6185	1020.9	1039.0	1039.0	0.507	3.760	87.813	7.015	0.856	0.019	0.027	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1321.13
23	0.6192	1022.4	1040.5	1040.5	0.472	3.791	87.587	7.285	0.820	0.018	0.025	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1322.26
24	0.6370	1052.8	1071.4	1071.4	0.269	3.927	84.145	10.386	1.203	0.027	0.039	0.002	0.002	0.001	0.000	0.000	0.000	0.000	0.000	1342.33
25	0.6417	1060.5	1079.3	1079.3	0.244	3.928	83.458	10.840	1.429	0.037	0.057	0.003	0.003	0.001	0.000	0.000	0.000	0.000	0.000	1347.31
26	0.6380	1054.3	1072.9	1072.9	0.274	3.920	84.097	10.304	1.319	0.032	0.049	0.002	0.002	0.001	0.000	0.000	0.000	0.000	0.000	1343.19
27	0.6476	1071.0	1089.9	1089.9	0.169	3.961	82.233	12.043	1.493	0.038	0.056	0.003	0.003	0.001	0.000	0.000	0.000	0.000	0.000	1354.39
28	0.6349	1046.8	1065.3	1065.3	0.349	3.967	84.891	9.326	1.351	0.040	0.066	0.004	0.004	0.001	0.000	0.000	0.000	0.000	0.000	1336.96
29	0.6287	1038.0	1056.4	1056.4	0.409	3.831	85.883	8.717	1.095	0.025	0.036	0.002	0.002	0.001	0.000	0.000	0.000	0.000	0.000	1332.26
30	0.6383	1054.7	1073.4	1073.4	0.298	3.880	83.947	10.553	1.258	0.022	0.028	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1343.51
Avg	0.6165	1022.0	1039.7	1039.7	0.611	3.373	88.440	6.644	0.859	0.030	0.035	0.004	0.002	0.002	0.000	0.000	0.000	0.000	0.000	1323.95

Zone 3a

GQ Source Daily Summary

September 2010

Number: 111 **Pressure Base:** 14.730 **Contract Day:** 1
Name: LITTLE KNIFE PLANT **Temperature Base:** 9 **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	Wet	Dry																
1	0.6876	1162.7	1183.3	0.000	0.000	2.405	72.982	24.060	0.539	0.006	0.008	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1426.94
2	0.6869	1162.0	1182.5	0.000	0.000	2.384	73.147	23.898	0.556	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1426.75
3	0.6847	1158.3	1178.8	0.000	0.000	2.400	73.605	23.413	0.567	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1424.52
4	0.6841	1157.1	1177.6	0.000	0.000	2.416	73.670	23.388	0.511	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1423.69
5	0.6845	1157.3	1177.8	0.000	0.000	2.430	73.624	23.398	0.533	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1423.68
6	0.6825	1154.3	1174.7	0.000	0.000	2.436	73.977	23.075	0.498	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1421.55
7	0.6824	1153.9	1174.3	0.000	0.000	2.448	74.035	22.973	0.530	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1423.31
8	0.6838	1156.5	1176.9	0.000	0.000	2.419	73.765	23.274	0.529	0.006	0.008	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1422.94
9	0.6833	1155.8	1176.3	0.000	0.000	2.420	73.800	23.285	0.481	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1422.32
10	0.6840	1156.7	1177.2	0.000	0.000	2.429	73.656	23.432	0.471	0.005	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1424.77
11	0.6857	1159.3	1179.8	0.000	0.000	2.431	73.304	23.779	0.474	0.005	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1425.18
12	0.6859	1159.8	1180.3	0.000	0.000	2.416	73.318	23.740	0.513	0.005	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1425.07
13	0.6864	1160.1	1180.7	0.011	0.011	2.426	73.311	23.659	0.565	0.008	0.013	0.002	0.002	0.002	0.000	0.000	0.000	0.000	0.000	1425.05
14	0.6860	1159.7	1180.3	0.000	0.000	2.427	73.297	23.747	0.517	0.005	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1424.66
15	0.6856	1159.1	1179.7	0.000	0.000	2.432	73.413	23.604	0.517	0.009	0.019	0.002	0.002	0.002	0.000	0.000	0.000	0.000	0.000	1423.71
16	0.6846	1157.5	1178.0	0.000	0.000	2.436	73.532	23.543	0.476	0.005	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1423.78
17	0.6849	1157.8	1178.3	0.000	0.000	2.459	73.589	23.454	0.485	0.005	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1423.95
18	0.6843	1156.7	1177.2	0.000	0.000	2.461	73.360	23.679	0.488	0.005	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1425.04
19	0.6855	1158.4	1178.9	0.000	0.000	2.448	73.198	23.823	0.517	0.005	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1424.45
20	0.6864	1160.1	1180.7	0.000	0.000	2.450	73.281	23.785	0.472	0.005	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1424.41
21	0.6857	1159.0	1179.5	0.000	0.000	2.449	73.305	23.750	0.483	0.005	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1422.92
22	0.6857	1159.0	1179.5	0.000	0.000	2.474	73.520	23.525	0.468	0.005	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1423.75
23	0.6846	1156.8	1177.3	0.000	0.000	2.464	73.398	23.632	0.492	0.005	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1423.65
24	0.6853	1158.1	1178.6	0.000	0.000	2.472	73.394	23.614	0.507	0.005	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1423.83
25	0.6854	1158.1	1178.6	0.000	0.000	2.461	73.414	23.599	0.513	0.005	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1423.88
26	0.6853	1158.2	1178.7	0.000	0.000	2.479	73.339	23.630	0.539	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1424.32
27	0.6858	1159.4	1179.2	0.000	0.000	2.476	73.289	23.641	0.581	0.005	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1424.46
28	0.6863	1159.4	1179.2	0.000	0.000	2.454	73.316	23.689	0.528	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1424.40
29	0.6859	1159.2	1179.7	0.000	0.000	2.430	73.581	23.482	0.495	0.005	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1423.70
30	0.6845	1157.4	1177.9	0.000	0.000	2.439	73.463	23.572	0.511	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1424.07
Avg	0.6851	1158.0	1178.7	0.000	0.000															

Zone 33

GQ Source Daily Summary

September 2010

Number: 331

Pressure Base: 14.730

Contract Day: 1

Name: MARMARTH 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	0.7983	1136.3	1156.4	2.243	11.015	54.318	29.137	2.963	0.071	0.218	0.009	0.024	0.002	0.000	0.000	0.000	0.000	0.000	1294.29
2	0.7984	1136.5	1156.6	2.237	11.026	54.202	29.310	2.915	0.069	0.209	0.008	0.021	0.002	0.000	0.000	0.000	0.000	0.000	1294.40
3	0.8016	1144.2	1164.4	2.244	10.840	53.736	29.834	3.023	0.072	0.217	0.009	0.022	0.002	0.000	0.000	0.000	0.000	0.000	1300.59
4	0.8009	1144.0	1164.3	2.237	10.798	53.980	29.554	3.089	0.075	0.229	0.010	0.025	0.003	0.000	0.000	0.000	0.000	0.000	1300.95
5	0.8002	1142.2	1162.5	2.245	10.829	53.982	29.628	2.998	0.070	0.215	0.009	0.023	0.002	0.000	0.000	0.000	0.000	0.000	1299.51
6	0.7974	1136.5	1156.6	2.208	10.980	54.295	29.357	2.869	0.065	0.197	0.008	0.020	0.002	0.000	0.000	0.000	0.000	0.000	1295.17
7	0.8005	1142.4	1162.6	2.210	10.899	53.876	29.704	2.990	0.071	0.216	0.009	0.023	0.002	0.000	0.000	0.000	0.000	0.000	1299.45
8	0.8016	1144.1	1164.3	2.184	10.942	53.583	30.009	2.964	0.070	0.214	0.009	0.022	0.002	0.000	0.000	0.000	0.000	0.000	1299.44
9	0.8013	1139.7	1159.9	2.202	11.148	53.680	29.652	2.992	0.072	0.220	0.009	0.023	0.003	0.000	0.000	0.000	0.000	0.000	1300.44
10	0.8003	1142.7	1162.9	2.194	10.892	53.870	29.759	2.954	0.074	0.224	0.009	0.022	0.002	0.000	0.000	0.000	0.000	0.000	1295.79
11	0.8005	1143.1	1163.3	2.127	10.981	53.869	29.645	3.039	0.075	0.228	0.009	0.023	0.002	0.000	0.000	0.000	0.000	0.000	1299.90
12	0.8007	1138.3	1158.5	2.099	11.339	53.819	29.296	3.095	0.077	0.238	0.010	0.025	0.003	0.000	0.000	0.000	0.000	0.000	1294.60
13	0.7989	1131.2	1151.3	2.089	11.612	54.138	28.720	3.086	0.077	0.237	0.010	0.026	0.003	0.000	0.000	0.000	0.000	0.000	1288.06
14	0.7957	1132.4	1147.3	2.096	11.231	54.725	28.627	2.979	0.075	0.228	0.010	0.025	0.003	0.000	0.000	0.000	0.000	0.000	1291.93
15	0.7883	1128.6	1148.6	1.985	10.936	55.981	27.928	2.867	0.068	0.203	0.008	0.022	0.003	0.000	0.000	0.000	0.000	0.000	1293.63
16	0.7863	1127.4	1147.3	1.909	10.940	56.302	27.690	2.850	0.069	0.205	0.009	0.022	0.003	0.000	0.000	0.000	0.000	0.000	1293.87
17	0.7887	1135.0	1155.0	1.858	10.777	55.757	28.462	2.857	0.067	0.193	0.008	0.019	0.002	0.000	0.000	0.000	0.000	0.000	1300.63
18	0.7944	1144.5	1164.8	1.847	10.750	54.655	29.543	2.903	0.069	0.204	0.008	0.019	0.002	0.000	0.000	0.000	0.000	0.000	1306.84
19	0.7990	1129.9	1149.9	2.619	10.903	54.504	28.719	2.948	0.069	0.205	0.009	0.022	0.002	0.000	0.000	0.000	0.000	0.000	1286.41
20	0.7967	1142.1	1162.3	1.942	10.973	54.156	29.798	2.840	0.066	0.195	0.008	0.019	0.002	0.000	0.000	0.000	0.000	0.000	1302.17
21	0.7960	1129.7	1149.7	2.228	11.225	54.433	29.068	2.777	0.062	0.181	0.007	0.017	0.002	0.000	0.000	0.000	0.000	0.000	1288.65
22	0.7988	1130.8	1150.8	2.351	11.231	54.293	28.827	2.984	0.070	0.211	0.009	0.022	0.002	0.000	0.000	0.000	0.000	0.000	1287.62
23	0.7997	1133.6	1153.7	2.236	11.328	54.060	28.998	3.049	0.073	0.221	0.009	0.023	0.003	0.000	0.000	0.000	0.000	0.000	1290.03
24	0.7967	1131.2	1151.3	2.176	11.277	54.516	28.745	2.974	0.069	0.209	0.009	0.023	0.003	0.000	0.000	0.000	0.000	0.000	1289.81
25	0.7980	1135.1	1155.2	2.264	11.031	54.354	29.078	2.967	0.068	0.205	0.008	0.022	0.002	0.000	0.000	0.000	0.000	0.000	1293.15
26	0.7973	1136.6	1156.7	2.049	11.195	54.614	28.598	3.179	0.080	0.244	0.010	0.026	0.004	0.000	0.000	0.000	0.000	0.000	1295.40
27	0.7944	1138.0	1158.1	1.866	11.122	54.523	29.349	2.860	0.063	0.188	0.007	0.019	0.002	0.000	0.000	0.000	0.000	0.000	1299.37
28	0.7972	1138.9	1159.1	1.956	11.126	54.382	29.116	3.053	0.072	0.220	0.009	0.024	0.003	0.000	0.000	0.000	0.000	0.000	1298.17
29	0.7979	1140.0	1160.2	2.075	11.004	54.018	29.788	2.834	0.063	0.190	0.007	0.019	0.002	0.000	0.000	0.000	0.000	0.000	1298.90
30	0.7996	1141.5	1161.7	2.128	10.994	53.903	29.710	2.958	0.069	0.209	0.008	0.021	0.002	0.000	0.000	0.000	0.000	0.000	1299.19
AVG	0.7975	1137.0	1157.3	2.138	11.045	54.351	29.188	2.962	0.070	0.212	0.009	0.022	0.002	0.000	0.000	0.000	0.000	0.000	1295.97

*** 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	12 MONTH AVERAGE	SEPT 10	AUG 10	JULY 10	JUNE 10	MAY 10	APR 10	MAR 10	FEB 10	JAN 10	DEC 09	NOV 09	OCT 09	ZONE
MT/ND	211	Sidney Area	1185	1209	1208	1197	1197	1199	1197	1193	1132	1155	1152	1191	1187	21
ND	24	Williston Area	1188	1200	1212	1204	1171	1186	1192	1200	1161	1176	1173	1193	1182	24
ND	25	Wattford City Area	1130	1133	1129	1130	1134	1132	1128	1132	1125	1132	1131	1129	1121	25
ND	261	Williston - Tioga - Minot Line	1148	1145	1161	1160	1147	1134	1150	1156	1144	1141	1142	1140	1160	261
ND	262	Minot Area	1178	1191	1189	1193	1188	1187	1184	1175	1164	1163	1163	1165	1174	262
ND	263	Tioga - Portal	1106	1133	1127	1124	1104	1102	1110	1090	1078	1073	1090	1113	1126	263
ND	264	Williston - Ray	1188	1200	1212	1208	1171	1186	1192	1200	1161	1176	1173	1193	1182	264
ND	271	Bismarck - Cleveland	1167	1191	1187	1193	1186	1185	1183	1164	1117	1135	1128	1163	1174	271
ND	272	Cleveland - Mapleton	1167	1190	1187	1193	1187	1186	1182	1163	1115	1134	1128	1163	1174	272
ND	273	Cleveland - Grafton	1167	1190	1187	1193	1187	1186	1182	1163	1115	1135	1128	1163	1174	273
ND	28	Bismarck - Cabin Creek	1122	1191	1182	1193	1186	1174	1178	1055	1023	1025	1018	1094	1141	28
ND	31	Dickinson Area	1033	1056	1065	1023	1053	1066	1033	1029	1021	1017	1019	994	1024	31
ND/MT	32	Cabin Creek - Dickinson	1013	1040	1031	966	1043	1005	996	1022	1019	1015	1017	989	994	32
ND	33	Killdeer	1167	1179	1177	1177	1172	1169	1168	1169	1163	1160	1158	1158	1159	33
ND	34	Bowman Area	1164	1157	1157	1156	1165	1162	1170	1169	1172	1161	1150	1169	1174	34
ND	35	Baker Field - North Dakota	978	979	979	979	979	978	978	978	978	978	978	978	978	35