



MONTANA-DAKOTA

UTILITIES CO.

A Division of MDU Resources Group, Inc.

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

April 4, 2011

RECEIVED

APR 05 2011

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 – February 2011

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 March 2011.
2. Attachment B consists of copies of the monthly Heating Value Test Reports received from our supplier for the month of February 2011. 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 February 2011.

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
Regulatory Affairs Manager

MONTANA-DAKOTA UTILITIES CO.
Therm Billing Factor
MAR 2011

Div Nbr	Off Code	City Name	Heat Zone Nbr	Therm Billing Factor
12	314	APPLE VALLEY	271	1.0788
12	327	BISMARCK	28	1.0054
12	343	CARRINGTON	273	1.0778
12	344	CLEVELAND	272	1.0702
12	364	CAVALIER	273	1.1005
12	365	DAWSON	271	1.0712
12	374	FT TOTTEN	273	1.0854
12	375	DEVILS LAKE	273	1.0854
12	379	BARLOW	273	1.0778
12	387	ELDRIDGE	272	1.0778
12	411	GLEN ULLIN	31	.9823
12	417	GRAFTON	273	1.1081
12	439	HANKINSON	600	1.0729
12	449	JAMESTOWN	272	1.0854
12	463	LANGDON	273	1.0778
12	475	LINTON	802	.9745
12	478	LINCOLN	28	1.0054
12	494	MEDINA	271	1.0712
12	498	MANDAN	28	1.0054
12	524	NEW SALEM	28	.9842
12	532	NEW ROCKFORD	273	1.0778
12	539	PARK RIVER	273	1.1005
12	574	SANBORN	272	1.0854
12	593	STEELE	271	1.0712
12	598	SHEYENNE	273	1.0854
12	610	TAPPEN	271	1.0712
12	625	VALLEY CITY	272	1.0929
12	629	WALHALLA	273	1.1005
12	647	WILTON	262	1.1126
12	717	SPIRITWOOD	272	1.0854
12	718	FAIRMOUNT	600	1.0707
12	732	MSR SITE	273	1.0778
12	733	PAR SITE	273	1.0778
15	303	ALEXANDER	25	1.0682
15	308	ARNEGARD	25	1.0682

MONTANA-DAKOTA UTILITIES CO.
Therm Billing Factor
MAR 2011

Div Nbr	Off Code	City Name	Heat Zone Nbr	Therm Billing Factor
15	318	BEACH	32	.9583
15	319	BELFIELD	32	.9653
15	323	BERTHOLD	262	1.1126
15	330	BOWMAN	34	1.0622
15	337	BURLINGTON	262	1.1367
15	368	DES LACS	262	1.1206
15	369	DICKINSON	31	.9752
15	384	EPPING	264	1.1296
15	407	GLADSTONE	31	.9752
15	413	GOLVA	32	.9443
15	416	GARRISON	262	1.1206
15	429	HEBRON	31	.9823
15	459	KILLDEER	33	1.1098
15	469	LEFOR	31	.9752
15	474	LIGNITE	263	1.0369
15	500	MARMARTH	34	1.0701
15	505	MINOT	262	1.1367
15	510	MOTT	31	.9752
15	512	MAX	262	1.1126
15	522	NEW ENGLAND	31	.9681
15	540	PALERMO	262	1.1126
15	558	RAY	264	1.1296
15	561	REGENT	31	.9752
15	563	RHAME	34	1.0545
15	564	RICHARDTON	31	.9681
15	568	ROSS	261	1.1027
15	572	RUTHVILLE	262	1.1367
15	583	SENTINEL BUTTE	32	.9583
15	588	SOUTH HEART	31	.9681
15	590	SPRINGBROOK	264	1.1296
15	591	STANLEY	261	1.1107
15	605	SURREY	262	1.1367
15	611	TAYLOR	31	.9681
15	616	TIOGA	261	1.1027
15	619	TURTLE LAKE	262	1.1206

MONTANA-DAKOTA UTILITIES CO.
Therm Billing Factor
MAR 2011

Div Nbr	Off Code	City Name	Heat Zone Nbr	Therm Billing Factor
15	620	TRENTON	24	1.1378
15	624	UNDERWOOD	262	1.1206
15	632	WATFORD CITY	25	1.0682
15	636	WHEELOCK	264	1.1215
15	637	WHITE EARTH	261	1.1107
15	642	WILLISTON	24	1.1378
15	646	WASHBURN	262	1.1286
15	664	RIVERDALE	262	1.1206
15	691	FAIRVIEW	24	1.1378
15	712	MINOT AFB	262	1.1367
15	743	BAKER FIELD	35	.8980

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

GQ Source Daily Summary

February 2011

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	C02	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Webbe	CCT
1	0.7233	1204.3	1225.7	0.039	3.142	69.155	23.653	3.919	0.042	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1441.15
2	0.7198	1201.6	1222.9	0.030	2.997	69.529	23.771	3.592	0.038	0.042	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1441.39
3	0.7210	1204.3	1225.6	0.031	2.945	69.447	23.759	3.725	0.042	0.048	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1443.38
4	0.7128	1190.6	1211.7	0.039	2.999	70.595	23.063	3.226	0.036	0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1435.13
5	0.7155	1193.7	1214.8	0.042	3.055	70.268	23.118	3.437	0.038	0.041	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1436.19
6	0.7178	1199.0	1220.2	0.038	2.956	70.040	23.220	3.659	0.041	0.044	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1440.19
7	0.7153	1192.9	1214.0	0.043	3.088	70.210	23.229	3.350	0.038	0.041	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1435.37
8	0.7165	1195.3	1216.4	0.046	3.053	70.107	23.222	3.494	0.037	0.041	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1437.01
9	0.7171	1197.3	1218.5	0.037	2.994	69.944	23.508	3.438	0.039	0.041	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1438.93
10	0.7158	1194.6	1215.7	0.036	3.036	70.140	23.340	3.368	0.038	0.041	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1436.98
11	0.7125	1189.6	1210.6	0.035	3.041	70.551	23.162	3.138	0.035	0.038	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1434.20
12	0.7139	1191.1	1212.2	0.038	3.077	70.303	23.334	3.173	0.036	0.039	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1437.62
13	0.7151	1194.2	1215.3	0.036	2.997	70.167	23.472	3.248	0.037	0.041	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1437.17
14	0.7116	1188.7	1209.7	0.039	3.008	70.581	23.363	2.929	0.039	0.047	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1434.07
15	0.7148	1193.4	1214.6	0.040	3.008	70.324	23.220	3.318	0.041	0.048	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1436.60
16	0.7117	1188.5	1209.6	0.037	3.023	70.678	23.137	3.020	0.043	0.059	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1433.78
17	0.7161	1195.2	1216.4	0.032	3.039	70.128	23.334	3.334	0.054	0.077	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1437.38
18	0.7167	1195.8	1217.0	0.029	3.057	70.137	23.256	3.329	0.072	0.114	0.004	0.003	0.001	0.000	0.000	0.000	0.000	0.000	1437.54
19	0.7116	1187.5	1208.5	0.031	3.080	70.834	22.881	2.977	0.071	0.119	0.004	0.003	0.000	0.000	0.000	0.000	0.000	0.000	1432.69
20	0.7135	1191.9	1213.0	0.033	2.993	70.689	22.902	3.157	0.082	0.137	0.005	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1436.06
21	0.7147	1194.7	1215.9	0.033	2.933	70.456	23.190	3.169	0.080	0.131	0.005	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1436.06
22	0.7141	1192.8	1213.9	0.035	2.986	70.526	23.122	3.110	0.085	0.128	0.004	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1438.21
23	0.7171	1198.1	1219.4	0.039	2.941	70.073	23.454	3.270	0.080	0.134	0.005	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1436.53
24	0.7172	1197.3	1218.5	0.041	2.998	70.078	23.375	3.270	0.084	0.144	0.005	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1439.89
25	0.7186	1201.2	1222.4	0.042	2.890	70.022	23.328	3.480	0.086	0.143	0.005	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1438.78
26	0.7166	1197.2	1218.4	0.044	2.949	70.182	23.335	3.259	0.082	0.139	0.005	0.004	0.000	0.000	0.000	0.000	0.000	0.000	1442.02
27	0.7109	1189.2	1210.3	0.040	2.899	70.906	23.075	2.895	0.067	0.111	0.004	0.003	0.000	0.000	0.000	0.000	0.000	0.000	1439.18
28	0.7129	1193.1	1214.2	0.042	2.847	70.768	23.047	3.064	0.081	0.140	0.006	0.005	0.000	0.000	0.000	0.000	0.000	0.000	1435.44
AVG	0.7155	1195.0	1215.9	0.037	3.001	70.244	23.281	3.298	0.055	0.079	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.000	1437.43

Zone 2/1

GQ Source Analysis

Williston Basin Interstate Pipeline Co.

GQ Source Number:	0602330	Specific Gravity:	0.7151
GQ Source Name:	WILLISTON BORDER	BTU Base:	Dry
Effective Date:	2/1/2011 9:00:00 AM	Measured Heat Value:	1199.02
Effective End Date:	1/18/2038 9:14:07 PM	Dry Heat Value:	1195.92
Pressure Base:	14.730	Wet Heat Value:	1175.10
Viscosity:		As Deliv. Heat Value:	1195.92
		Sample Pressure:	0.00
		Sample Temperature:	

		<u>Mol %</u>	<u>GPM</u>			<u>Mol %</u>
C1	Methane	70.455		CO2	Carbon Dioxide	0.520
C2	Ethane	22.277	5.940	N2	Nitrogen	3.394
C3	Propane	3.092	0.849	O2	Oxygen	0.000
IC4	Iso-Butane	0.091	0.030	HE	Helium	
NC4	N-Butane	0.156	0.049	H2	Hydrogen	
IC5	Iso-Pentane	0.008	0.003	H2S	Hydrogen Sulfide	
NC5	N-Pentane	0.007	0.002	AR	Argon	
C6	Hexane	0.000	0.000	CO	Carbon Monoxide	
C7	Heptane			H2O	Water	
C8	Octane			Neo-C5	Neo-Pentane	
C9	Nonane					
C10	Decane					

Totals 100.000% 6.874 GPM

Sample Date: 2/28/2011 12:00:00 AM
Sample Type: Composite
Sample Tech: sampler
Sample Remarks:

Analysis Tech: Mary Berger

Analysis Remarks:

Zone 24, 264

GQ Source Analysis

Williston Basin Interstate Pipeline Co.

GQ Source Number:	0602230	Specific Gravity:	0.7283
GQ Source Name:	WATFORD CITY BORDER	BTU Base:	Dry
Effective Date:	2/1/2011 9:00:00 AM	Measured Heat Value:	1133.57
Effective End Date:	1/18/2038 9:14:07 PM	Dry Heat Value:	1130.88
Pressure Base:	14.730	Wet Heat Value:	1111.20
Viscosity:		As Deliv. Heat Value:	1130.88
		Sample Pressure:	0.00
		Sample Temperature:	

		<u>Mol %</u>	<u>GPM</u>			<u>Mol %</u>
C1	Methane	68.378		CO2	Carbon Dioxide	0.621
C2	Ethane	18.314	4.883	N2	Nitrogen	8.388
C3	Propane	3.724	1.023	O2	Oxygen	0.000
IC4	Iso-Butane	0.183	0.060	HE	Helium	
NC4	N-Butane	0.338	0.106	H2	Hydrogen	
IC5	Iso-Pentane	0.026	0.010	H2S	Hydrogen Sulfide	
NC5	N-Pentane	0.025	0.009	AR	Argon	
C6	Hexane	0.000	0.000	CO	Carbon Monoxide	
C7	Heptane			H2O	Water	
C8	Octane			Neo-C5	Neo-Pentane	
C9	Nonane					
C10	Decane					

Totals 99.998% 6.091 GPM

Sample Date: 2/28/2011 12:00:00 AM
Sample Type: Composite
Sample Tech: sampler
Sample Remarks:

Analysis Tech: Mary Berger

Analysis Remarks:

Zone 25

GQ Source Daily Summary

February 2011

Number: 163 **Pressure Base:** 14.730 **Contract Day:** 1

Name: NORTH TIOGA-MINOT **Temperature Base:** **Contract Hour:** 9

Day	Relative Density		Heating Value																CCT
	Wet	Dry	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe		
1	0.6963	1149.4	1169.7	0.417	3.381	73.732	19.829	2.462	0.060	0.108	0.004	0.004	0.002					1401.80	
2	0.6920	1141.4	1161.6	0.405	3.478	74.469	19.180	2.248	0.068	0.132	0.007	0.006	0.006					1396.41	
3	0.6969	1148.5	1168.8	0.439	3.457	73.960	19.358	2.441	0.099	0.208	0.014	0.016	0.009					1400.10	
4	0.7079	1166.0	1186.7	0.470	3.363	72.755	19.747	3.215	0.133	0.273	0.017	0.018	0.008					1410.45	
5	0.7079	1165.6	1186.2	0.470	3.360	72.760	19.750	3.210	0.130	0.270	0.020	0.025	0.000					187.78	
6	0.7016	1151.1	1171.5	0.521	3.608	73.318	19.483	2.747	0.099	0.194	0.012	0.012	0.006					1398.66	
7	0.6982	1147.1	1167.4	0.470	3.612	73.511	19.683	2.494	0.076	0.139	0.007	0.006	0.002					1397.20	
8	0.6946	1142.4	1162.7	0.441	3.610	73.842	19.683	2.247	0.062	0.105	0.004	0.003	0.002					1395.03	
9	0.6963	1146.8	1167.2	0.445	3.497	73.666	19.842	2.352	0.067	0.119	0.006	0.005	0.002					1398.69	
10	0.7041	1160.0	1180.5	0.462	3.395	72.800	20.293	2.702	0.100	0.208	0.015	0.017	0.008					1406.88	
11	0.7030	1158.1	1178.6	0.474	3.394	72.988	20.166	2.612	0.100	0.215	0.018	0.022	0.012					1405.63	
12	0.6997	1152.7	1173.1	0.483	3.396	73.288	20.106	2.464	0.082	0.158	0.008	0.008	0.005					1402.42	
13	0.7000	1151.9	1172.3	0.502	3.441	73.204	20.157	2.442	0.080	0.154	0.008	0.008	0.004					1401.22	
14	0.6994	1151.5	1171.9	0.487	3.438	73.246	20.168	2.421	0.077	0.145	0.007	0.007	0.004					1401.26	
15	0.7003	1154.8	1175.3	0.452	3.367	73.285	20.044	2.574	0.087	0.168	0.009	0.009	0.005					1404.45	
16	0.6995	1153.2	1173.6	0.453	3.392	73.403	19.919	2.572	0.081	0.157	0.009	0.009	0.005					1403.24	
17	0.6970	1149.6	1170.0	0.423	3.424	73.558	19.997	2.403	0.066	0.118	0.005	0.005	0.002					1401.41	
18	0.6970	1148.9	1169.2	0.427	3.462	73.573	19.927	2.416	0.067	0.117	0.005	0.004	0.003					1400.50	
19	0.7001	1154.1	1174.5	0.442	3.410	73.230	20.108	2.559	0.082	0.152	0.007	0.007	0.003					1403.72	
20	0.7050	1162.1	1182.7	0.458	3.353	72.776	20.200	2.851	0.111	0.223	0.012	0.012	0.003					1408.59	
21	0.7071	1165.5	1186.1	0.455	3.356	72.489	20.394	2.899	0.118	0.246	0.017	0.019	0.007					1410.48	
22	0.7058	1164.0	1184.7	0.459	3.308	72.568	20.510	2.799	0.107	0.214	0.014	0.015	0.006					1410.14	
23	0.7044	1161.7	1182.2	0.472	3.309	72.590	20.642	2.707	0.092	0.169	0.008	0.008	0.003					1408.60	
24	0.7047	1162.4	1183.0	0.461	3.306	72.593	20.589	2.767	0.092	0.172	0.008	0.008	0.003					1409.22	
25	0.7047	1169.5	1190.2	0.461	3.306	72.593	20.589	2.767	0.092	0.172	0.008	0.006	0.006					180.86	
26	0.7031	1159.5	1180.1	0.431	3.374	72.743	20.513	2.689	0.082	0.150	0.007	0.007	0.004					1407.38	
27	0.7034	1159.7	1180.2	0.455	3.362	72.800	20.430	2.632	0.096	0.192	0.012	0.013	0.006					1407.18	
28	0.7016	1157.6	1178.1	0.463	3.309	73.025	20.368	2.541	0.091	0.176	0.010	0.011	0.005					1406.46	
Avg	0.7011	1156.0	1176.0	0.457	3.410	73.170	20.060	2.615	0.089	0.173	0.010	0.010	0.005					1316.63	

Zone 261

GQ Source Daily Summary

February 2011

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	0.7031	1147.2	1167.5	0.499	4.028	72.715	19.796	2.718	0.079	0.150	0.004	0.004	0.006	0.000	0.000	0.000	0.000	0.000	1392.36
2	0.7113	1156.8	1177.3	0.533	4.151	71.891	19.715	3.387	0.100	0.201	0.008	0.008	0.005	0.000	0.000	0.000	0.000	0.000	1396.01
3	0.7063	1152.7	1173.1	0.494	4.000	72.101	20.443	2.684	0.083	0.171	0.008	0.009	0.006	0.000	0.000	0.000	0.000	0.000	1395.97
4	0.7038	1160.5	1181.1	0.469	3.320	73.277	19.561	2.935	0.128	0.270	0.016	0.018	0.005	0.000	0.000	0.000	0.000	0.000	1407.83
5	0.7128	1171.7	1192.5	0.511	3.421	72.146	19.967	3.424	0.155	0.328	0.022	0.023	0.004	0.000	0.000	0.000	0.000	0.000	1412.36
6	0.7040	1156.0	1176.5	0.534	3.520	73.114	19.552	2.894	0.115	0.235	0.014	0.016	0.005	0.000	0.000	0.000	0.000	0.000	1402.14
7	0.7018	1152.8	1173.2	0.507	3.555	73.148	19.777	2.732	0.090	0.170	0.007	0.007	0.007	0.000	0.000	0.000	0.000	0.000	1400.41
8	0.6955	1143.9	1164.2	0.456	3.582	73.705	19.814	2.263	0.063	0.110	0.000	0.000	0.007	0.000	0.000	0.000	0.000	0.000	1395.94
9	0.6960	1145.9	1166.2	0.450	3.516	73.733	19.750	2.356	0.067	0.119	0.002	0.002	0.006	0.000	0.000	0.000	0.000	0.000	1397.85
10	0.7007	1155.2	1175.6	0.462	3.375	72.995	20.468	2.468	0.075	0.142	0.005	0.005	0.005	0.000	0.000	0.000	0.000	0.000	1404.43
11	0.7083	1166.2	1186.8	0.492	3.360	72.464	20.285	2.934	0.126	0.281	0.023	0.027	0.008	0.000	0.000	0.000	0.000	0.000	1410.24
12	0.6996	1153.2	1173.6	0.484	3.357	73.305	20.149	2.430	0.084	0.166	0.009	0.011	0.006	0.000	0.000	0.000	0.000	0.000	1403.15
13	0.7013	1155.1	1175.6	0.507	3.364	73.063	20.275	2.515	0.086	0.166	0.008	0.008	0.009	0.000	0.000	0.000	0.000	0.000	1403.76
14	0.7001	1152.2	1172.6	0.511	3.422	73.187	20.176	2.455	0.079	0.151	0.006	0.006	0.007	0.000	0.000	0.000	0.000	0.000	1401.44
15	0.7002	1154.5	1174.9	0.477	3.344	73.185	20.258	2.485	0.080	0.152	0.006	0.006	0.007	0.000	0.000	0.000	0.000	0.000	1404.10
16	0.7016	1157.1	1177.6	0.464	3.335	73.206	19.994	2.695	0.094	0.187	0.009	0.009	0.008	0.000	0.000	0.000	0.000	0.000	1405.89
17	0.6992	1153.5	1173.9	0.447	3.355	73.321	20.143	2.517	0.071	0.131	0.004	0.003	0.008	0.000	0.000	0.000	0.000	0.000	1403.91
18	0.6964	1148.3	1168.6	0.433	3.433	73.658	19.917	2.370	0.066	0.116	0.001	0.001	0.007	0.000	0.000	0.000	0.000	0.000	1400.36
19	0.6996	1153.8	1174.2	0.446	3.378	73.256	20.162	2.528	0.077	0.140	0.003	0.002	0.007	0.000	0.000	0.000	0.000	0.000	1403.86
20	0.7033	1159.4	1179.9	0.476	3.335	72.793	20.444	2.673	0.090	0.172	0.006	0.005	0.007	0.000	0.000	0.000	0.000	0.000	1406.96
21	0.7112	1172.1	1192.9	0.461	3.318	72.212	20.282	3.208	0.147	0.322	0.022	0.024	0.005	0.000	0.000	0.000	0.000	0.000	1414.50
22	0.7058	1164.2	1184.8	0.469	3.288	72.556	20.536	2.806	0.106	0.213	0.011	0.010	0.006	0.000	0.000	0.000	0.000	0.000	1410.27
23	0.7050	1162.8	1183.4	0.481	3.285	72.497	20.747	2.705	0.092	0.171	0.008	0.008	0.007	0.000	0.000	0.000	0.000	0.000	1409.33
24	0.7051	1163.0	1183.6	0.482	3.278	72.548	20.632	2.775	0.092	0.173	0.007	0.006	0.006	0.000	0.000	0.000	0.000	0.000	1409.52
25	0.7089	1169.8	1190.5	0.457	3.253	72.341	20.441	3.097	0.125	0.256	0.013	0.013	0.005	0.000	0.000	0.000	0.000	0.000	1413.97
26	0.7063	1165.2	1185.9	0.438	3.314	72.521	20.480	2.903	0.103	0.211	0.012	0.012	0.006	0.000	0.000	0.000	0.000	0.000	1411.06
27	0.7038	1160.5	1181.0	0.460	3.345	72.637	20.630	2.654	0.089	0.169	0.007	0.005	0.007	0.000	0.000	0.000	0.000	0.000	1407.76
28	0.7038	1161.2	1181.8	0.472	3.281	72.756	20.537	2.620	0.099	0.202	0.012	0.014	0.006	0.000	0.000	0.000	0.000	0.000	1408.62
Avg	0.7034	1158.0	1178.2	0.478	3.447	72.869	20.176	2.722	0.095	0.188	0.009	0.009	0.006	0.000	0.000	0.000	0.000	0.000	1404.78

Zone 262

GQ Source Analysis

Williston Basin Interstate Pipeline Co.

GQ Source Number:	2501030	Specific Gravity:	0.6395
GQ Source Name:	LIGNITE PLANT	BTU Base:	Dry
Effective Date:	2/1/2011 9:00:00 AM	Measured Heat Value:	1091.22
Effective End Date:	1/18/2038 9:14:07 PM	Dry Heat Value:	1089.95
Pressure Base:	14.730	Wet Heat Value:	1070.98
Viscosity:		As Deliv. Heat Value:	1089.95
		Sample Pressure:	0.00
		Sample Temperature:	

		<u>Mol %</u>	<u>GPM</u>			<u>Mol %</u>
C1	Methane	82.414		CO2	Carbon Dioxide	0.071
C2	Ethane	13.933	0.000	N2	Nitrogen	3.326
C3	Propane	0.218	0.060	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	0.026	0.012	CO	Carbon Monoxide	
C7	Heptane			H2O	Water	
C8	Octane			Neo-C5	Neo-Pentane	
C9	Nonane					
C10	Decane					

Totals 99.994% 0.074 GPM

Sample Date: 2/28/2011 12:00:00 AM
Sample Type: Composite
Sample Tech: sampler
Sample Remarks:

Analysis Tech: Mary Berger
Analysis Remarks:

Zone 263

*** End of Report ***

GQ Source Daily Summary

February 2011

Number: 043 **Pressure Base:** 14.730 **Contract Day:** 1
Name: BISMARCK-CLEVELAND **Temperature Base:** 9 **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	0.6541	1082.5	1101.7	0.605	3.201	81.659	12.815	1.565	0.053	0.078	0.008	0.010	0.000	0.000	0.000	0.000	0.000	1362.22
2	0.6433	1059.6	1078.3	0.642	3.531	83.908	10.178	1.552	0.061	0.096	0.011	0.008	0.012	0.000	0.000	0.000	0.000	1344.39
3	0.6544	1075.5	1094.6	0.534	3.764	81.735	11.964	1.833	0.054	0.093	0.007	0.006	0.010	0.000	0.000	0.000	0.000	1353.07
4	0.6771	1115.1	1134.8	0.491	3.550	77.623	15.909	2.160	0.078	0.153	0.011	0.012	0.012	0.000	0.000	0.000	0.000	1379.19
5	0.6819	1125.7	1145.7	0.518	3.307	77.385	15.795	2.627	0.110	0.214	0.015	0.015	0.015	0.000	0.000	0.000	0.000	1387.41
6	0.6752	1113.7	1133.4	0.538	3.386	78.356	15.102	2.273	0.098	0.198	0.017	0.018	0.015	0.000	0.000	0.000	0.000	1379.33
7	0.6610	1091.2	1110.5	0.563	3.388	80.561	13.441	1.833	0.068	0.115	0.010	0.009	0.013	0.000	0.000	0.000	0.000	1365.89
8	0.6480	1072.9	1091.9	0.651	3.138	82.932	11.632	1.467	0.060	0.088	0.010	0.008	0.014	0.000	0.000	0.000	0.000	1356.50
9	0.6464	1070.2	1089.1	0.640	3.173	83.110	11.537	1.382	0.054	0.075	0.009	0.006	0.013	0.000	0.000	0.000	0.000	1354.71
10	0.6568	1086.7	1105.9	0.592	3.221	81.174	13.232	1.607	0.057	0.088	0.009	0.007	0.013	0.000	0.000	0.000	0.000	1364.63
11	0.6764	1116.6	1136.4	0.512	3.366	77.889	15.776	2.149	0.086	0.174	0.016	0.018	0.015	0.000	0.000	0.000	0.000	1381.67
12	0.6822	1125.9	1145.8	0.469	3.410	76.640	16.998	2.205	0.079	0.157	0.012	0.013	0.015	0.000	0.000	0.000	0.000	1387.25
13	0.6851	1130.0	1150.0	0.497	3.388	75.964	17.738	2.178	0.073	0.136	0.008	0.008	0.012	0.000	0.000	0.000	0.000	1389.39
14	0.6862	1130.9	1151.0	0.509	3.418	75.742	17.909	2.191	0.071	0.133	0.008	0.007	0.012	0.000	0.000	0.000	0.000	1389.41
15	0.6871	1133.0	1153.0	0.488	3.411	75.501	18.200	2.181	0.068	0.126	0.007	0.007	0.011	0.000	0.000	0.000	0.000	1390.99
16	0.6881	1135.7	1155.8	0.464	3.368	75.635	17.867	2.381	0.085	0.167	0.010	0.010	0.013	0.000	0.000	0.000	0.000	1393.39
17	0.6755	1115.5	1135.3	0.463	3.422	77.597	16.327	2.006	0.059	0.105	0.006	0.005	0.010	0.000	0.000	0.000	0.000	1381.28
18	0.6572	1086.3	1105.5	0.455	3.494	80.827	13.483	1.597	0.049	0.079	0.005	0.004	0.007	0.000	0.000	0.000	0.000	1363.71
19	0.6538	1080.4	1099.5	0.458	3.524	81.426	12.939	1.523	0.045	0.071	0.005	0.004	0.007	0.000	0.000	0.000	0.000	1359.89
20	0.6529	1078.7	1097.8	0.479	3.509	81.754	12.518	1.581	0.052	0.089	0.006	0.005	0.007	0.000	0.000	0.000	0.000	1358.69
21	0.6567	1085.1	1104.3	0.483	3.478	81.313	12.717	1.780	0.071	0.135	0.009	0.008	0.007	0.000	0.000	0.000	0.000	1362.67
22	0.6631	1095.3	1114.7	0.475	3.471	80.079	13.890	1.853	0.069	0.134	0.010	0.009	0.009	0.000	0.000	0.000	0.000	1368.82
23	0.6631	1095.3	1114.7	0.467	3.482	80.075	13.887	1.858	0.071	0.132	0.009	0.009	0.009	0.000	0.000	0.000	0.000	1368.84
24	0.6598	1090.1	1109.4	0.472	3.476	80.531	13.613	1.727	0.060	0.102	0.006	0.006	0.007	0.000	0.000	0.000	0.000	1365.80
25	0.6552	1082.8	1102.0	0.505	3.437	81.437	12.783	1.659	0.059	0.100	0.007	0.006	0.007	0.000	0.000	0.000	0.000	1361.43
26	0.6540	1081.4	1100.5	0.517	3.391	81.990	12.069	1.774	0.077	0.148	0.012	0.012	0.009	0.000	0.000	0.000	0.000	1360.87
27	0.6614	1092.2	1111.5	0.496	3.464	80.312	13.744	1.800	0.060	0.103	0.007	0.006	0.009	0.000	0.000	0.000	0.000	1366.74
28	0.6671	1102.2	1121.8	0.495	3.392	79.339	14.659	1.880	0.071	0.131	0.010	0.010	0.012	0.000	0.000	0.000	0.000	1373.39
AVG	0.6651	1098.0	1117.7	0.517	3.413	79.732	14.240	1.879	0.068	0.122	0.009	0.009	0.011	0.000	0.000	0.000	0.000	1370.41

Zone 271

GQ Source Daily Summary

February 2011

Number: 063 **Pressure Base:** 14.730 **Contract Day:** 1

Name: CLEVELAND-MAPLETON **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	0.6510	1078.4	1097.5	0.603	3.167	82.204	12.383	1.493	0.053	0.077	0.008	0.006	0.007	0.000	0.000	0.000	0.000	0.000	1360.21
2	0.6431	1061.3	1080.1	0.637	3.413	83.851	10.459	1.468	0.057	0.087	0.010	0.008	0.010	0.000	0.000	0.000	0.000	0.000	1346.78
3	0.6595	1082.7	1101.9	0.576	3.742	81.138	12.183	2.136	0.074	0.128	0.008	0.007	0.009	0.000	0.000	0.000	0.000	0.000	1356.84
4	0.6763	1109.6	1129.3	0.510	3.781	77.661	15.663	2.163	0.068	0.129	0.010	0.009	0.006	0.000	0.000	0.000	0.000	0.000	1373.24
5	0.6776	1119.9	1139.7	0.495	3.296	77.977	15.468	2.419	0.101	0.204	0.015	0.015	0.010	0.000	0.000	0.000	0.000	0.000	1384.58
6	0.6790	1119.9	1139.7	0.533	3.375	77.814	15.435	2.471	0.108	0.219	0.018	0.018	0.009	0.000	0.000	0.000	0.000	0.000	1383.08
7	0.6646	1096.7	1116.2	0.537	3.425	80.012	13.801	1.973	0.077	0.143	0.012	0.011	0.009	0.000	0.000	0.000	0.000	0.000	1369.12
8	0.6506	1076.6	1095.6	0.630	3.192	82.502	11.900	1.583	0.063	0.099	0.011	0.008	0.011	0.000	0.000	0.000	0.000	0.000	1358.39
9	0.6459	1069.8	1088.7	0.635	3.162	83.185	11.490	1.369	0.055	0.077	0.010	0.007	0.011	0.000	0.000	0.000	0.000	0.000	1354.65
10	0.6509	1077.8	1096.9	0.618	3.168	82.299	12.242	1.502	0.057	0.085	0.010	0.007	0.011	0.000	0.000	0.000	0.000	0.000	1359.59
11	0.6693	1105.7	1125.3	0.517	3.352	78.998	14.948	1.942	0.073	0.136	0.012	0.012	0.009	0.000	0.000	0.000	0.000	0.000	1375.44
12	0.6814	1124.5	1144.5	0.487	3.388	76.973	16.581	2.242	0.090	0.190	0.017	0.019	0.013	0.000	0.000	0.000	0.000	0.000	1386.40
13	0.6834	1127.5	1147.5	0.481	3.408	76.254	17.459	2.164	0.073	0.139	0.009	0.009	0.004	0.000	0.000	0.000	0.000	0.000	1388.02
14	0.6848	1129.1	1149.1	0.502	3.408	76.004	17.676	2.180	0.073	0.135	0.008	0.008	0.006	0.000	0.000	0.000	0.000	0.000	1388.57
15	0.6863	1131.3	1151.3	0.495	3.428	75.652	18.016	2.192	0.070	0.132	0.007	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1389.75
16	0.6878	1135.2	1155.3	0.466	3.370	75.472	18.174	2.280	0.075	0.145	0.008	0.008	0.002	0.000	0.000	0.000	0.000	0.000	1393.09
17	0.6821	1125.8	1145.7	0.466	3.406	76.643	16.987	2.249	0.076	0.148	0.010	0.009	0.007	0.000	0.000	0.000	0.000	0.000	1387.28
18	0.6601	1091.0	1110.3	0.445	3.496	80.327	13.894	1.687	0.051	0.085	0.006	0.005	0.005	0.000	0.000	0.000	0.000	0.000	1366.58
19	0.6525	1078.4	1097.5	0.463	3.514	81.696	12.673	1.522	0.046	0.073	0.005	0.004	0.004	0.000	0.000	0.000	0.000	0.000	1358.76
20	0.6522	1077.9	1097.0	0.466	3.520	81.784	12.547	1.540	0.050	0.083	0.006	0.005	0.002	0.000	0.000	0.000	0.000	0.000	1358.35
21	0.6533	1079.6	1098.8	0.485	3.487	81.797	12.381	1.662	0.062	0.112	0.007	0.007	0.001	0.000	0.000	0.000	0.000	0.000	1359.36
22	0.6623	1094.0	1113.4	0.467	3.481	80.342	13.547	1.900	0.078	0.156	0.012	0.013	0.003	0.000	0.000	0.000	0.000	0.000	1368.11
23	0.6624	1094.3	1113.6	0.463	3.485	80.191	13.780	1.852	0.072	0.135	0.010	0.010	0.002	0.000	0.000	0.000	0.000	0.000	1368.27
24	0.6608	1091.8	1111.1	0.482	3.487	80.352	13.738	1.776	0.062	0.107	0.007	0.006	0.003	0.000	0.000	0.000	0.000	0.000	1366.83
25	0.6558	1083.8	1103.0	0.489	3.458	81.318	12.865	1.689	0.060	0.104	0.007	0.006	0.004	0.000	0.000	0.000	0.000	0.000	1362.07
26	0.6517	1077.8	1096.8	0.517	3.401	82.313	11.833	1.706	0.072	0.134	0.010	0.009	0.005	0.000	0.000	0.000	0.000	0.000	1358.67
27	0.6589	1088.8	1108.1	0.491	3.442	80.777	13.352	1.747	0.061	0.108	0.009	0.008	0.006	0.000	0.000	0.000	0.000	0.000	1365.13
28	0.6651	1098.6	1118.0	0.489	3.434	79.720	14.253	1.872	0.072	0.134	0.010	0.010	0.007	0.000	0.000	0.000	0.000	0.000	1370.89
Avg	0.6646	1097.0	1116.9	0.515	3.417	79.831	14.133	1.885	0.069	0.125	0.010	0.009	0.006	0.000	0.000	0.000	0.000	0.000	1369.93

Zone 272

GQ Source Daily Summary

February 2011

Number: 061 **Pressure Base:** 14.730 **Contract Day:** 1
Name: CLEVELAND-GRAFTON **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	0.6512	1078.8	1097.9	0.604	3.160	82.173	12.413	1.498	0.053	0.077	0.008	0.006	0.007	0.000	0.000	0.000	0.000	0.000	1360.48
2	0.6431	1061.4	1080.2	0.638	3.404	83.855	10.462	1.468	0.057	0.087	0.010	0.008	0.011	0.000	0.000	0.000	0.000	0.000	1346.94
3	0.6544	1076.0	1095.1	0.573	3.672	82.047	11.493	1.992	0.073	0.116	0.016	0.014	0.003	0.000	0.000	0.000	0.000	0.000	1353.71
4	0.6763	1109.9	1129.5	0.510	3.771	77.656	15.679	2.163	0.068	0.130	0.009	0.009	0.006	0.000	0.000	0.000	0.000	0.000	1373.46
5	0.6778	1120.3	1140.1	0.495	3.291	77.945	15.495	2.429	0.101	0.203	0.015	0.016	0.010	0.000	0.000	0.000	0.000	0.000	1384.86
6	0.6792	1120.3	1140.1	0.533	3.369	77.781	15.469	2.474	0.109	0.220	0.018	0.018	0.009	0.000	0.000	0.000	0.000	0.000	1383.36
7	0.6649	1097.2	1116.7	0.537	3.421	79.964	13.847	1.979	0.077	0.143	0.012	0.011	0.008	0.000	0.000	0.000	0.000	0.000	1369.46
8	0.6508	1077.0	1096.1	0.630	3.187	82.465	11.935	1.591	0.064	0.099	0.011	0.008	0.011	0.000	0.000	0.000	0.000	0.000	1358.70
9	0.6464	1070.4	1089.4	0.637	3.165	83.124	11.525	1.375	0.057	0.090	0.009	0.007	0.010	0.000	0.000	0.000	0.000	0.000	1354.98
10	0.6511	1078.2	1097.3	0.619	3.164	82.273	12.264	1.508	0.058	0.086	0.010	0.007	0.012	0.000	0.000	0.000	0.000	0.000	1359.84
11	0.6694	1106.0	1125.6	0.517	3.344	78.977	14.976	1.943	0.073	0.137	0.012	0.012	0.009	0.000	0.000	0.000	0.000	0.000	1375.72
12	0.6815	1124.7	1144.6	0.488	3.383	76.967	16.586	2.248	0.090	0.189	0.017	0.020	0.013	0.000	0.000	0.000	0.000	0.000	1386.54
13	0.6836	1127.9	1147.8	0.481	3.402	76.221	17.494	2.167	0.073	0.139	0.009	0.009	0.004	0.000	0.000	0.000	0.000	0.000	1388.27
14	0.6847	1129.0	1149.0	0.502	3.402	76.000	17.711	2.152	0.072	0.137	0.008	0.008	0.007	0.000	0.000	0.000	0.000	0.000	1388.61
15	0.6865	1131.8	1151.8	0.496	3.420	75.624	18.040	2.202	0.071	0.133	0.008	0.007	0.000	0.000	0.000	0.000	0.000	0.000	1390.09
16	0.6881	1135.7	1155.9	0.466	3.364	75.424	18.222	2.285	0.076	0.145	0.008	0.008	0.002	0.000	0.000	0.000	0.000	0.000	1393.45
17	0.6823	1126.2	1146.2	0.467	3.399	76.609	17.015	2.259	0.077	0.148	0.009	0.010	0.007	0.000	0.000	0.000	0.000	0.000	1387.58
18	0.6603	1091.4	1110.8	0.445	3.489	80.290	13.931	1.693	0.051	0.085	0.005	0.005	0.006	0.000	0.000	0.000	0.000	0.000	1366.92
19	0.6526	1078.7	1097.8	0.463	3.509	81.678	12.695	1.523	0.046	0.073	0.005	0.004	0.004	0.000	0.000	0.000	0.000	0.000	1358.98
20	0.6524	1078.3	1097.4	0.466	3.513	81.758	12.572	1.546	0.050	0.083	0.006	0.005	0.002	0.000	0.000	0.000	0.000	0.000	1358.63
21	0.6535	1080.0	1099.1	0.486	3.481	81.769	12.409	1.667	0.062	0.112	0.007	0.007	0.001	0.000	0.000	0.000	0.000	0.000	1359.62
22	0.6627	1094.7	1114.0	0.468	3.473	80.292	13.590	1.912	0.078	0.158	0.012	0.013	0.003	0.000	0.000	0.000	0.000	0.000	1368.55
23	0.6626	1094.7	1114.0	0.464	3.478	80.161	13.809	1.858	0.072	0.136	0.010	0.010	0.002	0.000	0.000	0.000	0.000	0.000	1368.56
24	0.6610	1092.1	1111.5	0.462	3.482	80.328	13.759	1.782	0.062	0.108	0.007	0.006	0.003	0.000	0.000	0.000	0.000	0.000	1367.09
25	0.6559	1084.0	1103.2	0.489	3.453	81.306	12.881	1.689	0.060	0.104	0.007	0.006	0.004	0.000	0.000	0.000	0.000	0.000	1362.22
26	0.6518	1078.0	1097.1	0.517	3.396	82.295	11.856	1.705	0.072	0.135	0.010	0.009	0.005	0.000	0.000	0.000	0.000	0.000	1365.84
27	0.6591	1089.3	1108.6	0.492	3.435	80.748	13.372	1.760	0.061	0.108	0.009	0.009	0.006	0.000	0.000	0.000	0.000	0.000	1365.45
28	0.6652	1098.8	1118.3	0.489	3.430	79.695	14.284	1.869	0.072	0.134	0.010	0.010	0.007	0.000	0.000	0.000	0.000	0.000	1371.09
Avg	0.6646	1098.0	1117.0	0.516	3.409	79.837	14.135	1.884	0.069	0.126	0.010	0.009	0.006	0.000	0.000	0.000	0.000	0.000	1370.07

Zone 273

GQ Source Daily Summary

February 2011

Number: 041 **Pressure Base:** 14.730 **Contract Day:** 1
Name: BISMARCK-DICKINSON **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	0.6179	1027.6	1045.7	0.692	3.017	88.403	6.920	0.844	0.044	0.050	0.010	0.007	0.012	0.000	0.000	0.000	0.000	0.000	1330.32
2	0.6148	1021.8	1039.9	0.689	3.076	88.983	6.333	0.796	0.044	0.048	0.011	0.007	0.013	0.000	0.000	0.000	0.000	0.000	1326.30
3	0.6208	1029.6	1047.8	0.515	3.436	87.617	7.375	0.962	0.036	0.041	0.006	0.004	0.008	0.000	0.000	0.000	0.000	0.000	1329.83
4	0.6259	1038.8	1057.2	0.504	3.369	86.713	8.226	1.089	0.037	0.041	0.007	0.005	0.008	0.000	0.000	0.000	0.000	0.000	1336.26
5	0.6238	1036.5	1054.9	0.549	3.241	87.171	7.891	1.046	0.038	0.042	0.008	0.005	0.009	0.000	0.000	0.000	0.000	0.000	1335.59
6	0.6234	1035.3	1053.7	0.534	3.298	87.160	7.923	0.986	0.037	0.040	0.007	0.005	0.009	0.000	0.000	0.000	0.000	0.000	1334.52
7	0.6204	1030.3	1048.5	0.585	3.245	87.776	7.381	0.908	0.039	0.043	0.008	0.006	0.009	0.000	0.000	0.000	0.000	0.000	1331.23
8	0.6145	1023.0	1041.1	0.760	2.869	89.175	6.273	0.783	0.049	0.053	0.013	0.009	0.016	0.000	0.000	0.000	0.000	0.000	1328.11
9	0.6132	1020.2	1038.2	0.762	2.919	89.425	5.980	0.773	0.049	0.054	0.013	0.009	0.016	0.000	0.000	0.000	0.000	0.000	1325.81
10	0.6132	1019.4	1037.5	0.734	3.000	89.383	5.980	0.765	0.048	0.052	0.013	0.009	0.016	0.000	0.000	0.000	0.000	0.000	1324.92
11	0.6173	1023.7	1041.9	0.545	3.412	88.269	6.834	0.842	0.036	0.040	0.007	0.005	0.009	0.000	0.000	0.000	0.000	0.000	1326.07
12	0.6180	1023.4	1041.5	0.422	3.688	87.881	7.100	0.837	0.028	0.032	0.004	0.003	0.004	0.000	0.000	0.000	0.000	0.000	1324.91
13	0.6216	1030.2	1048.5	0.440	3.583	87.296	7.666	0.937	0.030	0.034	0.005	0.003	0.005	0.000	0.000	0.000	0.000	0.000	1329.86
14	0.6210	1029.6	1047.8	0.441	3.570	87.382	7.617	0.914	0.030	0.033	0.005	0.003	0.005	0.000	0.000	0.000	0.000	0.000	1329.62
15	0.6197	1026.8	1045.0	0.420	3.642	87.567	7.434	0.867	0.028	0.032	0.004	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1327.51
16	0.6159	1020.0	1038.1	0.422	3.698	88.251	6.777	0.783	0.027	0.031	0.004	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1322.74
17	0.6150	1018.7	1036.7	0.444	3.668	88.396	6.696	0.726	0.028	0.032	0.004	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1321.90
18	0.6168	1021.6	1039.7	0.462	3.621	88.102	6.984	0.759	0.028	0.033	0.004	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1323.90
19	0.6153	1018.7	1036.8	0.477	3.639	88.410	6.550	0.750	0.028	0.034	0.004	0.003	0.004	0.000	0.000	0.000	0.000	0.000	1321.68
20	0.6164	1020.4	1038.4	0.476	3.638	88.232	6.790	0.789	0.029	0.035	0.004	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1322.71
21	0.6150	1017.7	1035.8	0.491	3.648	88.500	6.522	0.764	0.028	0.035	0.004	0.003	0.003	0.000	0.000	0.000	0.000	0.000	1320.76
22	0.6153	1018.3	1036.3	0.468	3.678	88.423	6.582	0.772	0.029	0.037	0.005	0.003	0.004	0.000	0.000	0.000	0.000	0.000	1321.16
23	0.6150	1017.2	1035.2	0.454	3.740	88.472	6.473	0.772	0.029	0.037	0.005	0.003	0.004	0.000	0.000	0.000	0.000	0.000	1320.06
24	0.6178	1022.4	1040.5	0.447	3.697	87.946	7.010	0.815	0.031	0.038	0.005	0.004	0.004	0.000	0.000	0.000	0.000	0.000	1323.75
25	0.6143	1016.6	1034.6	0.523	3.602	88.693	6.352	0.741	0.032	0.041	0.005	0.004	0.005	0.000	0.000	0.000	0.000	0.000	1320.03
26	0.6131	1015.3	1033.3	0.564	3.508	88.989	6.121	0.724	0.034	0.042	0.007	0.005	0.006	0.000	0.000	0.000	0.000	0.000	1319.62
27	0.6108	1010.1	1028.0	0.541	3.641	89.398	5.622	0.704	0.034	0.042	0.007	0.005	0.007	0.000	0.000	0.000	0.000	0.000	1315.38
28	0.6161	1020.3	1038.4	0.515	3.554	88.439	6.580	0.803	0.038	0.048	0.008	0.006	0.008	0.000	0.000	0.000	0.000	0.000	1322.96
AVG	0.6172	1023.0	1041.5	0.531	3.454	88.230	6.860	0.831	0.035	0.040	0.007	0.005	0.007	0.000	0.000	0.000	0.000	0.000	1325.63

Zone 28

GQ Source Daily Summary

February 2011

Number: 271 **Pressure Base:** 14.730 **Contract Day:** 1
Name: DICKINSON AREA **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	0.6146	1022.5	1040.6	0.690	3.004	88.960	6.440	0.809	0.041	0.046	0.000	0.010	0.000	0.000	0.000	0.000	0.000	1327.35
2	0.6148	1021.5	1039.6	0.626	3.180	88.806	6.484	0.818	0.037	0.043	0.000	0.006	0.000	0.000	0.000	0.000	0.000	1325.90
3	0.6231	1034.0	1052.3	0.497	3.394	87.121	7.891	1.025	0.032	0.038	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1333.12
4	0.6241	1036.9	1055.3	0.521	3.270	87.046	7.988	1.098	0.035	0.039	0.000	0.002	0.000	0.000	0.000	0.000	0.000	1335.86
5	0.6215	1033.3	1051.6	0.529	3.247	87.440	7.739	0.972	0.034	0.037	0.000	0.002	0.000	0.000	0.000	0.000	0.000	1333.82
6	0.6220	1033.1	1051.4	0.519	3.317	87.337	7.763	0.991	0.033	0.037	0.000	0.002	0.000	0.000	0.000	0.000	0.000	1333.11
7	0.6159	1024.6	1042.7	0.669	3.031	88.690	6.680	0.835	0.041	0.046	0.000	0.008	0.000	0.000	0.000	0.000	0.000	1328.64
8	0.6126	1019.7	1037.8	0.761	2.880	89.449	6.029	0.770	0.046	0.052	0.000	0.013	0.000	0.000	0.000	0.000	0.000	1325.87
9	0.6126	1019.5	1037.5	0.752	2.909	89.440	6.010	0.778	0.046	0.052	0.000	0.013	0.000	0.000	0.000	0.000	0.000	1325.55
10	0.6122	1016.2	1034.2	0.615	3.277	89.255	6.000	0.770	0.037	0.042	0.000	0.006	0.000	0.000	0.000	0.000	0.000	1321.79
11	0.6183	1025.4	1043.5	0.453	3.533	87.848	7.240	0.866	0.027	0.032	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1327.16
12	0.6200	1027.9	1046.1	0.423	3.590	87.504	7.509	0.918	0.026	0.030	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1328.59
13	0.6208	1028.6	1046.8	0.440	3.595	87.376	7.604	0.929	0.027	0.030	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1328.65
14	0.6193	1026.8	1045.0	0.413	3.681	88.315	6.762	0.780	0.023	0.027	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1327.94
15	0.6152	1019.3	1037.3	0.411	3.641	88.450	6.687	0.744	0.023	0.028	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1322.55
16	0.6145	1018.4	1036.5	0.427	3.691	88.630	6.488	0.712	0.023	0.028	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1322.24
17	0.6134	1016.0	1034.0	0.428	3.531	88.244	6.906	0.789	0.025	0.031	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1320.17
18	0.6161	1021.5	1039.6	0.474	3.651	88.752	6.335	0.738	0.024	0.030	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1324.54
19	0.6132	1015.3	1033.2	0.470	3.601	88.387	6.690	0.787	0.025	0.032	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1319.46
20	0.6153	1019.1	1037.2	0.478	3.638	88.477	6.595	0.766	0.025	0.032	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1322.22
21	0.6147	1017.9	1035.9	0.467	3.704	88.796	6.237	0.754	0.026	0.033	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1321.23
22	0.6130	1014.5	1032.5	0.451	3.690	88.154	6.835	0.825	0.028	0.038	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1318.73
23	0.6164	1020.6	1038.7	0.431	3.623	88.452	6.607	0.780	0.028	0.038	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1322.91
24	0.6150	1018.4	1036.5	0.473	3.497	89.161	6.030	0.718	0.028	0.037	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1321.65
25	0.6116	1013.9	1031.9	0.527	3.467	89.288	5.918	0.717	0.030	0.039	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1319.40
26	0.6112	1013.4	1031.3	0.540	3.555	89.495	5.662	0.703	0.031	0.039	0.000	0.002	0.000	0.000	0.000	0.000	0.000	1319.20
27	0.6099	1010.6	1028.5	0.513	3.429	88.467	6.664	0.839	0.038	0.049	0.000	0.002	0.000	0.000	0.000	0.000	0.000	1317.00
28	0.6158	1021.9	1040.0	0.510	3.437	88.391	6.759	0.825	0.031	0.037	0.000	0.003	0.000	0.000	0.000	0.000	0.000	1325.29
AVG	0.6160	1022.0	1039.9	0.518														1325.00

Zone 31

GQ Source Daily Summary

February 2011

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

Day	Heating Value		CCT															
	Relative Density	Wet	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.6131	1019.3	1037.3	0.713	3.034	89.374	5.956	0.797	0.045	0.050	0.011	0.008	0.013	0.000	0.000	0.000	0.000	1324.83
2	0.6168	1023.4	1041.5	0.582	3.334	88.459	6.637	0.883	0.038	0.044	0.008	0.006	0.009	0.000	0.000	0.000	0.000	1326.15
3	0.6225	1032.6	1050.9	0.525	3.400	87.372	7.556	1.049	0.036	0.042	0.007	0.005	0.008	0.000	0.000	0.000	0.000	1331.86
4	0.6228	1034.5	1052.8	0.543	3.281	87.403	7.585	1.085	0.038	0.043	0.008	0.005	0.008	0.000	0.000	0.000	0.000	1334.04
5	0.6201	1029.7	1048.0	0.546	3.316	87.835	7.221	0.981	0.037	0.042	0.008	0.005	0.009	0.000	0.000	0.000	0.000	1330.75
6	0.6194	1028.0	1046.3	0.561	3.327	87.986	7.061	0.962	0.038	0.043	0.008	0.005	0.009	0.000	0.000	0.000	0.000	1329.36
7	0.6129	1019.9	1037.9	0.749	2.929	89.495	5.881	0.809	0.048	0.054	0.012	0.009	0.016	0.000	0.000	0.000	0.000	1325.75
8	0.6118	1017.9	1035.9	0.771	2.910	89.738	5.663	0.775	0.049	0.055	0.013	0.009	0.017	0.000	0.000	0.000	0.000	1324.37
9	0.6118	1017.6	1035.6	0.765	2.941	89.727	5.641	0.781	0.050	0.056	0.013	0.009	0.016	0.000	0.000	0.000	0.000	1323.94
10	0.6153	1020.3	1038.3	0.554	3.424	88.689	6.384	0.849	0.037	0.042	0.008	0.005	0.009	0.000	0.000	0.000	0.000	1323.71
11	0.6167	1020.8	1038.9	0.426	3.723	88.184	6.710	0.884	0.029	0.034	0.004	0.003	0.003	0.000	0.000	0.000	0.000	1322.90
12	0.6188	1025.6	1043.8	0.461	3.573	87.879	7.079	0.926	0.031	0.036	0.005	0.004	0.005	0.000	0.000	0.000	0.000	1326.86
13	0.6193	1026.0	1044.1	0.441	3.623	87.763	7.158	0.937	0.030	0.035	0.005	0.003	0.004	0.000	0.000	0.000	0.000	1326.84
14	0.6144	1017.3	1035.3	0.441	3.699	88.605	6.366	0.816	0.028	0.034	0.004	0.003	0.003	0.000	0.000	0.000	0.000	1320.74
15	0.6124	1013.5	1031.4	0.445	3.728	88.987	5.993	0.774	0.028	0.033	0.004	0.003	0.003	0.000	0.000	0.000	0.000	1318.07
16	0.6116	1012.2	1030.1	0.465	3.705	89.136	5.884	0.736	0.029	0.034	0.005	0.003	0.003	0.000	0.000	0.000	0.000	1317.21
17	0.6124	1013.4	1031.4	0.465	3.711	88.982	6.009	0.760	0.029	0.034	0.004	0.003	0.003	0.000	0.000	0.000	0.000	1317.90
18	0.6134	1015.7	1033.7	0.494	3.619	88.849	6.183	0.778	0.030	0.036	0.005	0.003	0.004	0.000	0.000	0.000	0.000	1319.83
19	0.6131	1014.3	1032.3	0.487	3.681	88.894	6.091	0.771	0.029	0.036	0.004	0.003	0.003	0.000	0.000	0.000	0.000	1318.39
20	0.6138	1015.8	1033.8	0.500	3.640	88.777	6.222	0.785	0.029	0.037	0.004	0.003	0.003	0.000	0.000	0.000	0.000	1319.55
21	0.6137	1015.4	1033.4	0.478	3.689	88.759	6.221	0.773	0.030	0.038	0.005	0.003	0.003	0.000	0.000	0.000	0.000	1319.11
22	0.6133	1014.5	1032.5	0.458	3.738	88.812	6.142	0.770	0.030	0.039	0.005	0.004	0.004	0.000	0.000	0.000	0.000	1318.38
23	0.6160	1018.9	1037.0	0.447	3.733	88.344	6.554	0.834	0.032	0.043	0.005	0.004	0.004	0.000	0.000	0.000	0.000	1321.27
24	0.6130	1014.0	1031.9	0.512	3.656	88.970	6.008	0.765	0.033	0.042	0.006	0.004	0.005	0.000	0.000	0.000	0.000	1318.03
25	0.6113	1011.7	1029.7	0.567	3.550	89.366	5.688	0.734	0.034	0.044	0.007	0.005	0.006	0.000	0.000	0.000	0.000	1316.93
26	0.6107	1010.6	1028.5	0.552	3.590	89.455	5.586	0.721	0.034	0.044	0.007	0.005	0.007	0.000	0.000	0.000	0.000	1316.05
27	0.6125	1013.6	1031.6	0.530	3.599	89.157	5.835	0.771	0.038	0.048	0.008	0.006	0.008	0.000	0.000	0.000	0.000	1318.15
28	0.6177	1023.6	1041.8	0.523	3.495	88.226	6.751	0.884	0.041	0.054	0.009	0.006	0.009	0.000	0.000	0.000	0.000	1325.46
AVG	0.6150	1019.0	1037.3	0.536	3.488	88.687	6.359	0.835	0.035	0.042	0.007	0.005	0.007	0.000	0.000	0.000	0.000	1322.73

Zone 32

GQ Source Daily Summary

February 2011

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	0.6944	1173.6	1194.4	0.000	2.362	73.066	22.794	1.575	0.058	0.115	0.012	0.012	0.006	0.000	0.000	0.000	0.000	0.000	1433.25
2	0.6876	1163.3	1183.9	0.000	2.366	73.102	23.881	0.631	0.007	0.011	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1427.67
3	0.6859	1161.0	1181.5	0.000	2.346	73.276	23.896	0.467	0.006	0.008	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1426.64
4	0.6864	1160.6	1181.2	0.000	2.410	73.298	23.688	0.590	0.006	0.008	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1425.72
5	0.6839	1156.7	1177.2	0.000	2.415	73.752	23.274	0.545	0.006	0.008	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1423.51
6	0.6850	1158.4	1178.9	0.000	2.414	73.478	23.603	0.490	0.006	0.008	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1424.46
7	0.6826	1154.3	1174.7	0.000	2.440	73.910	23.205	0.431	0.006	0.008	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1421.88
8	0.6819	1153.0	1173.4	0.012	2.438	74.078	23.029	0.422	0.007	0.009	0.001	0.001	0.002	0.000	0.000	0.000	0.000	0.000	1420.94
9	0.6812	1153.1	1173.5	0.000	2.378	74.219	22.942	0.447	0.006	0.008	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1421.89
10	0.6810	1152.0	1172.4	0.000	2.429	74.247	22.866	0.443	0.006	0.008	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1420.71
11	0.6808	1151.6	1172.0	0.000	2.439	74.322	22.734	0.490	0.006	0.008	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1420.37
12	0.6810	1152.1	1172.5	0.000	2.422	74.261	22.846	0.456	0.006	0.008	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1420.87
13	0.6804	1151.1	1171.5	0.000	2.430	74.383	22.713	0.458	0.006	0.008	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1420.20
14	0.6811	1152.0	1172.4	0.000	2.443	74.264	22.795	0.483	0.006	0.008	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1420.53
15	0.6813	1152.9	1173.4	0.000	2.398	74.214	22.911	0.461	0.006	0.009	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1421.58
16	0.6814	1153.7	1174.1	0.000	2.369	74.213	22.915	0.487	0.006	0.008	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1422.28
17	0.6815	1153.3	1173.7	0.000	2.401	74.177	22.930	0.478	0.006	0.008	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1421.72
18	0.6808	1151.6	1171.9	0.000	2.438	74.284	22.824	0.439	0.006	0.008	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1420.36
19	0.6809	1151.8	1172.2	0.000	2.431	74.275	22.829	0.451	0.006	0.008	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1420.57
20	0.6814	1153.0	1173.4	0.000	2.408	74.168	22.965	0.444	0.006	0.008	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1421.51
21	0.6818	1153.5	1173.9	0.000	2.414	74.181	22.855	0.536	0.006	0.008	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1421.69
22	0.6797	1149.7	1170.1	0.000	2.449	74.523	22.551	0.462	0.006	0.008	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1419.21
23	0.6795	1149.9	1170.3	0.000	2.420	74.523	22.618	0.423	0.006	0.008	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1419.64
24	0.6803	1151.2	1171.6	0.000	2.415	74.356	22.794	0.421	0.006	0.008	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1420.45
25	0.6798	1150.5	1170.9	0.000	2.412	74.470	22.674	0.429	0.006	0.008	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1420.07
26	0.6797	1151.0	1171.4	0.000	2.370	74.508	22.668	0.439	0.006	0.008	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1420.83
27	0.6796	1150.7	1171.0	0.000	2.381	74.556	22.582	0.465	0.006	0.008	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1420.48
28	0.6791	1149.8	1170.1	0.000	2.389	74.651	22.489	0.455	0.006	0.008	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1419.91
AV9	0.6821	1154.0	1174.6	0.000	2.408	74.098	22.960	0.511	0.008	0.012	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	1422.11

Zone 33

GQ Source Daily Summary

February 2011

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	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.8170	1084.5	1103.7	15.788	50.631	27.174	3.723	0.083	0.231	0.008	0.020	0.002	0.000	0.000	0.000	1221.09	
2	0.8212	1086.7	1105.9	16.100	50.202	26.912	4.063	0.099	0.281	0.011	0.027	0.003	0.000	0.000	0.000	1220.41	
3	0.8084	1138.6	1158.7	11.808	53.546	27.859	4.066	0.108	0.315	0.013	0.032	0.004	0.000	0.000	0.000	1288.83	
4	0.8003	1116.9	1136.6	11.394	55.693	25.635	3.954	0.101	0.288	0.011	0.028	0.004	0.000	0.000	0.000	1270.48	
5	0.8186	1142.8	1163.0	10.915	52.710	28.378	4.302	0.095	0.266	0.009	0.023	0.002	0.000	0.000	0.000	1285.44	
6	0.8150	1143.3	1163.6	11.021	52.968	28.452	4.211	0.089	0.245	0.009	0.021	0.002	0.000	0.000	0.000	1288.91	
7	0.8187	1168.6	1189.3	10.661	52.565	29.127	4.665	0.126	0.370	0.014	0.035	0.004	0.000	0.000	0.000	1314.35	
8	0.8229	1175.5	1196.3	10.752	52.297	28.769	5.229	0.141	0.405	0.015	0.038	0.004	0.000	0.000	0.000	1318.74	
9	0.8156	1154.2	1174.6	11.128	54.616	25.468	5.448	0.174	0.542	0.028	0.078	0.012	0.000	0.000	0.000	1300.27	
10	0.7953	1115.8	1135.6	11.524	56.153	25.535	3.890	0.086	0.235	0.009	0.024	0.007	0.000	0.000	0.000	1273.37	
11	0.8000	1131.4	1151.5	11.153	55.419	26.559	3.982	0.100	0.290	0.012	0.033	0.005	0.000	0.000	0.000	1287.29	
12	0.8066	1143.0	1163.3	11.061	53.297	29.415	3.466	0.071	0.206	0.008	0.021	0.002	0.000	0.000	0.000	1295.29	
13	0.8061	1140.8	1161.0	11.091	53.334	29.387	3.394	0.070	0.200	0.008	0.020	0.002	0.000	0.000	0.000	1293.14	
14	0.8032	1140.3	1160.5	11.240	53.637	29.225	3.338	0.073	0.213	0.009	0.023	0.003	0.000	0.000	0.000	1294.84	
15	0.8051	1144.8	1165.0	10.977	53.383	29.652	3.331	0.071	0.206	0.008	0.022	0.003	0.000	0.000	0.000	1298.44	
16	0.8034	1141.0	1161.2	11.075	53.653	29.327	3.315	0.070	0.199	0.008	0.021	0.003	0.000	0.000	0.000	1295.47	
17	0.8039	1141.2	1161.4	11.071	53.507	29.530	3.234	0.071	0.203	0.008	0.021	0.003	0.000	0.000	0.000	1295.40	
18	0.8033	1141.7	1161.9	10.970	53.556	29.654	3.159	0.069	0.197	0.008	0.020	0.003	0.000	0.000	0.000	1296.40	
19	0.8041	1143.0	1163.2	10.943	53.444	29.740	3.200	0.068	0.193	0.007	0.019	0.002	0.000	0.000	0.000	1297.17	
20	0.8046	1140.7	1160.9	10.982	53.535	29.433	3.267	0.072	0.206	0.008	0.020	0.002	0.000	0.000	0.000	1294.28	
21	0.8052	1141.2	1161.4	11.086	53.451	29.378	3.338	0.075	0.216	0.008	0.020	0.002	0.000	0.000	0.000	1294.33	
22	0.8057	1144.7	1164.9	11.011	53.467	29.336	3.482	0.079	0.224	0.009	0.022	0.003	0.000	0.000	0.000	1297.81	
23	0.8053	1142.4	1162.6	11.047	53.472	29.341	3.408	0.075	0.213	0.008	0.021	0.003	0.000	0.000	0.000	1295.52	
24	0.8050	1142.9	1163.1	10.990	53.335	29.712	3.259	0.069	0.195	0.007	0.019	0.002	0.000	0.000	0.000	1296.36	
25	0.7987	1138.4	1158.6	11.031	54.043	29.513	2.966	0.064	0.179	0.007	0.018	0.002	0.000	0.000	0.000	1296.31	
26	0.7985	1140.8	1161.0	11.142	53.897	29.750	2.940	0.066	0.186	0.007	0.019	0.003	0.000	0.000	0.000	1299.28	
27	0.8000	1140.1	1160.2	11.171	53.833	29.543	3.056	0.069	0.198	0.008	0.021	0.003	0.000	0.000	0.000	1297.16	
28	0.8028	1137.4	1157.5	11.048	53.504	29.757	2.954	0.066	0.187	0.007	0.019	0.003	0.000	0.000	0.000	1291.99	
AV9	0.8069	1138.0	1158.1	11.435	53.470	28.627	3.666	0.086	0.246	0.010	0.025	0.003	0.000	0.000	0.000	1289.23	

*** End of Report***

Zone 34

GQ Source Analysis

Williston Basin Interstate Pipeline Co.

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
		Sample Pressure:	29.00
		Sample Temperature:	

		<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			Neo-C5	Neo-Pentane	
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 Tech: Mary Berger

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	Monthly Sampler	Baker Field – North Dakota

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

STATE	ZONE	ZONE BOUNDARY	12 MONTH AVERAGE	FEB 11	JAN 11	DEC 10	NOV 10	OCT 10	SEPT 10	AUG 10	JULY 10	JUNE 10	MAY 10	APR 10	MAR 10	ZONE
MT/ND	211	Sidney Area	1206	1216	1212	1218	1210	1206	1209	1208	1204	1197	1199	1197	1193	21
ND	24	Williston Area	1198	1196	1204	1207	1208	1193	1200	1212	1208	1171	1186	1192	1200	24
ND	25	Wartford City Area	1133	1131	1150	1135	1133	1130	1133	1129	1130	1134	1132	1128	1132	25
ND	261	Williston - Tioga - Minot Line	1152	1176	1171	1154	1135	1140	1145	1161	1160	1147	1134	1150	1156	261
ND	262	Minot Area	1186	1178	1182	1191	1186	1190	1191	1189	1193	1188	1187	1184	1175	262
ND	263	Tioga - Portal	1108	1090	1094	1100	1107	1120	1133	1127	1124	1104	1102	1110	1090	263
ND	264	Williston - Ray	1198	1196	1204	1207	1208	1193	1200	1212	1208	1171	1186	1192	1200	264
ND	271	Bismarck - Cleveland	1172	1118	1130	1160	1172	1190	1191	1187	1193	1186	1185	1183	1164	271
ND	272	Cleveland - Mapleton	1171	1117	1130	1159	1171	1190	1190	1187	1193	1187	1186	1182	1163	272
ND	273	Cleveland - Grafton	1171	1117	1130	1159	1172	1190	1190	1187	1193	1187	1186	1182	1163	273
ND	28	Bismarck - Cabin Creek	1131	1042	1045	1055	1097	1173	1191	1182	1193	1186	1174	1178	1055	28
ND	31	Dickinson Area	1053	1040	1044	1053	1082	1088	1056	1065	1023	1053	1066	1033	1029	31
ND/MT	32	Cabin Creek - Dickinson	1034	1037	1041	1050	1079	1075	1040	1031	986	1043	1005	996	1022	32
ND	33	Killdeer	1174	1175	1175	1175	1177	1179	1179	1177	1177	1172	1169	1168	1169	33
ND	34	Bowman Area	1163	1158	1163	1172	1167	1163	1157	1157	1156	1165	1162	1170	1169	34
ND	35	Baker Field - North Dakota	979	979	979	979	979	979	979	979	979	979	978	978	978	35