

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

May 28, 2010

RECEIVED

JUN 1 - 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 – April 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 May 2010.
2. Attachment B consists of copies of the monthly Heating Value Test Reports received from our supplier for the month of April 2010. There is a report for each of the 16 thermal zones for the month.
3. Attachment C is a listing which states the type of measuring device in place at each zone.
4. Attachment D is a monthly list of the heating value data, by zone, for the most recent 12-month period and an average thereof. It is being provided pursuant to a Staff request.
5. Attachment E provides a brief explanation of the thermal variances, where applicable, for the month of April.

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
MAY 2010

Div Nbr	Off Code	City Name	Heat Zone Nbr	Therm Billing Factor
12	314	APPLE VALLEY	271	1.1415
12	327	BISMARCK	28	1.1367
12	343	CARRINGTON	273	1.1405
12	344	CLEVELAND	272	1.1325
12	364	CAVALIER	273	1.1645
12	365	DAWSON	271	1.1334
12	374	FT TOTTEN	273	1.1485
12	375	DEVILS LAKE	273	1.1485
12	379	BARLOW	273	1.1405
12	387	ELDRIDGE	272	1.1405
12	411	GLEN ULLIN	31	.9757
12	417	GRAFTON	273	1.1725
12	439	HANKINSON	600	1.0670
12	449	JAMESTOWN	272	1.1485
12	463	LANGDON	273	1.1405
12	475	LINTON	802	.9717
12	478	LINCOLN	28	1.1367
12	494	MEDINA	271	1.1334
12	498	MANDAN	28	1.1367
12	524	NEW SALEM	28	1.1126
12	532	NEW ROCKFORD	273	1.1405
12	539	PARK RIVER	273	1.1645
12	574	SANBORN	272	1.1485
12	593	STEELE	271	1.1334
12	598	SHEYENNE	273	1.1485
12	610	TAPPEN	271	1.1334
12	625	VALLEY CITY	272	1.1565
12	629	WALHALLA	273	1.1645
12	647	WILTON	262	1.1183
12	717	SPIRITWOOD	272	1.1485
12	718	FAIRMOUNT	600	1.0648
12	732	MSR SITE	273	1.1405
12	733	PAR SITE	273	1.1405
15	303	ALEXANDER	25	1.0654
15	308	ARNEGARD	25	1.0654

MONTANA-DAKOTA UTILITIES CO.
Therm Billing Factor
MAY 2010

Div Nbr	Off Code	City Name	Heat Zone Nbr	Therm Billing Factor
15	318	BEACH	32	.9204
15	319	BELFIELD	32	.9272
15	323	BERTHOLD	262	1.1183
15	330	BOWMAN	34	1.0732
15	337	BURLINGTON	262	1.1424
15	368	DES LACS	262	1.1263
15	369	DICKINSON	31	.9686
15	384	EPPING	264	1.1258
15	407	GLADSTONE	31	.9686
15	413	GOLVA	32	.9070
15	416	GARRISON	262	1.1263
15	429	HEBRON	31	.9757
15	459	KILLDEER	33	1.1032
15	469	LEFOR	31	.9686
15	474	LIGNITE	263	1.0559
15	500	MARMARTH	34	1.0812
15	505	MINOT	262	1.1424
15	510	MOTT	31	.9686
15	512	MAX	262	1.1183
15	522	NEW ENGLAND	31	.9616
15	540	PALERMO	262	1.1183
15	558	RAY	264	1.1258
15	561	REGENT	31	.9686
15	563	RHAME	34	1.0654
15	564	RICHARDTON	31	.9616
15	568	ROSS	261	1.0784
15	572	RUTHVILLE	262	1.1424
15	583	SENTINEL BUTTE	32	.9204
15	588	SOUTH HEART	31	.9616
15	590	SPRINGBROOK	264	1.1258
15	591	STANLEY	261	1.0862
15	605	SURREY	262	1.1424
15	611	TAYLOR	31	.9616
15	616	TIOGA	261	1.0784
15	619	TURTLE LAKE	262	1.1263

MONTANA-DAKOTA UTILITIES CO.
Therm Billing Factor
MAY 2010

Div Nbr	Off Code	City Name	Heat Zone Nbr	Therm Billing Factor
15	620	TRENTON	24	1.1339
15	624	UNDERWOOD	262	1.1263
15	632	WATFORD CITY	25	1.0654
15	636	WHEELLOCK	264	1.1177
15	637	WHITE EARTH	261	1.0862
15	642	WILLISTON	24	1.1339
15	646	WASHBURN	262	1.1344
15	664	RIVERDALE	262	1.1263
15	691	FAIRVIEW	24	1.1339
15	712	MINOT AFB	262	1.1424
15	743	BAKER FIELD	35	.8971

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

GQ Source Daily Summary

April 2010

Number: 251

Pressure Base: 14.730

Contract Day: 1

Name: SIDNEY 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
	Wet	Dry																
1	0.7356	1178.4	1.174	4.142	68.796	20.978	4.550	0.123	0.218	0.011	0.008	0.001	0.000	0.000	0.000	0.000	0.000	1398.32
2	0.7357	1178.7	1.168	4.145	68.805	20.930	4.593	0.122	0.217	0.011	0.008	0.001	0.000	0.000	0.000	0.000	0.000	1398.55
3	0.7366	1180.2	1.172	4.134	68.727	20.921	4.673	0.126	0.225	0.011	0.009	0.001	0.000	0.000	0.000	0.000	0.000	1399.43
4	0.7370	1180.7	1.171	4.134	68.696	20.925	4.694	0.128	0.231	0.011	0.009	0.001	0.000	0.000	0.000	0.000	0.000	1399.76
5	0.7067	1167.7	0.314	3.405	71.472	22.143	2.538	0.048	0.075	0.003	0.002	0.000	0.000	0.000	0.000	0.000	0.000	1413.75
6	0.6980	1161.9	0.117	3.245	72.400	22.190	1.974	0.029	0.043	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1415.31
7	0.6992	1166.7	0.105	3.077	72.215	22.512	2.028	0.026	0.034	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	1420.00
8	0.7299	1176.8	1.009	3.964	69.340	21.211	4.161	0.107	0.191	0.009	0.007	0.001	0.000	0.000	0.000	0.000	0.000	1401.87
9	0.7359	1179.3	1.168	4.131	68.713	21.091	4.535	0.122	0.220	0.011	0.008	0.001	0.000	0.000	0.000	0.000	0.000	1399.00
10	0.7147	1176.7	0.430	3.427	70.537	22.395	3.041	0.061	0.100	0.004	0.003	0.000	0.000	0.000	0.000	0.000	0.000	1416.68
11	0.7029	1172.3	0.066	3.138	71.560	22.965	2.183	0.030	0.037	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1423.09
12	0.7257	1173.8	0.917	3.889	69.701	21.438	3.742	0.107	0.189	0.009	0.007	0.001	0.000	0.000	0.000	0.000	0.000	1402.45
13	0.7251	1192.2	0.455	3.408	70.245	21.361	3.946	0.170	0.348	0.028	0.030	0.009	0.000	0.000	0.000	0.000	0.000	1424.87
14	0.7356	1193.5	0.837	3.727	69.052	21.255	4.518	0.186	0.367	0.026	0.027	0.006	0.000	0.000	0.000	0.000	0.000	1416.21
15	0.7336	1175.7	1.154	4.160	68.979	20.998	4.337	0.126	0.225	0.011	0.009	0.001	0.000	0.000	0.000	0.000	0.000	1396.88
16	0.7264	1168.9	1.030	4.080	69.815	20.857	3.893	0.111	0.197	0.010	0.008	0.001	0.000	0.000	0.000	0.000	0.000	1395.85
17	0.7232	1175.7	0.791	3.734	69.976	21.514	3.728	0.089	0.154	0.007	0.006	0.001	0.000	0.000	0.000	0.000	0.000	1407.13
18	0.7365	1179.8	1.181	4.135	68.679	21.019	4.635	0.118	0.213	0.011	0.009	0.001	0.000	0.000	0.000	0.000	0.000	1399.07
19	0.7385	1183.9	1.159	4.102	68.370	21.281	4.734	0.118	0.216	0.011	0.009	0.001	0.000	0.000	0.000	0.000	0.000	1402.05
20	0.7354	1178.6	1.166	4.130	68.787	21.037	4.530	0.118	0.213	0.011	0.008	0.001	0.000	0.000	0.000	0.000	0.000	1398.65
21	0.7305	1170.5	1.160	4.175	69.348	20.854	4.117	0.117	0.210	0.010	0.008	0.001	0.000	0.000	0.000	0.000	0.000	1400.47
22	0.7375	1181.8	1.181	4.110	68.526	21.145	4.692	0.116	0.210	0.011	0.008	0.001	0.000	0.000	0.000	0.000	0.000	1393.73
23	0.7334	1175.2	1.174	4.140	68.892	21.204	4.255	0.113	0.204	0.010	0.008	0.001	0.000	0.000	0.000	0.000	0.000	1400.47
24	0.7351	1178.2	1.160	4.135	68.734	21.190	4.439	0.115	0.208	0.011	0.009	0.001	0.000	0.000	0.000	0.000	0.000	1396.54
25	0.7318	1172.4	1.173	4.158	69.074	21.153	4.104	0.114	0.206	0.010	0.008	0.001	0.000	0.000	0.000	0.000	0.000	1398.51
26	0.7095	1167.1	0.435	3.522	71.096	22.200	2.606	0.051	0.083	0.003	0.003	0.000	0.000	0.000	0.000	0.000	0.000	1394.81
27	0.7277	1173.8	0.986	3.975	69.486	21.325	3.938	0.098	0.176	0.009	0.007	0.001	0.000	0.000	0.000	0.000	0.000	1410.25
28	0.7321	1172.8	1.173	4.167	69.054	21.108	4.165	0.112	0.201	0.010	0.008	0.001	0.000	0.000	0.000	0.000	0.000	1400.53
29	0.7342	1176.4	1.171	4.144	68.827	21.170	4.352	0.113	0.203	0.010	0.008	0.001	0.000	0.000	0.000	0.000	0.000	1394.93
30	0.7279	1165.0	1.165	4.253	69.790	20.406	4.052	0.114	0.203	0.010	0.007	0.001	0.000	0.000	0.000	0.000	0.000	1397.22
AVG	0.7271	1176.0	0.912	3.903	69.590	21.359	3.925	0.104	0.187	0.010	0.008	0.001	0.000	0.000	0.000	0.000	0.000	1403.52

Zone 2/1

GQ Source Analysis

GQ Source Number:	0602330	Specific Gravity:	0.7324
GQ Source Name:	WILLISTON BORDER	BTU Base:	Dry
Effective Date:	4/1/2010 9:00:00 AM	Measured Heat Value:	1195.41
Effective End Date:	1/18/2038 9:14:07 PM	Dry Heat Value:	1192.19
Pressure Base:	14.730	Wet Heat Value:	1171.44
Viscosity:		As Deliv. Heat Value:	1192.19

		<u>Mol %</u>	<u>GPM</u>			<u>Mol %</u>
C1	Methane	68.846		CO2	Carbon Dioxide	1.010
C2	Ethane	20.792	5.544	N2	Nitrogen	4.492
C3	Propane	4.468	1.227	O2	Oxygen	0.000
IC4	Iso-Butane	0.131	0.043	HE	Helium	
NC4	N-Butane	0.234	0.074	H2	Hydrogen	
IC5	Iso-Pentane	0.014	0.005	H2S	Hydrogen Sulfide	
NC5	N-Pentane	0.011	0.004	AR	Argon	
C6	Hexane	0.000	0.000	CO	Carbon Monoxide	
C7	Heptane			H2O	Water	
C8	Octane					
C9	Nonane					
C10	Decane					

Totals 100.000% 6.897 GPM

Sample Date: 4/30/2010 12:00:00 AM
Sample Type: Composite
Sample Tech: sampler
Sample Remarks:

Analysis Remarks:

Zone 24, 264

GQ Source Analysis

GQ Source Number:	0602230	Specific Gravity:	0.7281
GQ Source Name:	WATFORD CITY BORDER	BTU Base:	Dry
Effective Date:	4/1/2010 9:00:00 AM	Measured Heat Value:	1130.51
Effective End Date:	1/18/2038 9:14:07 PM	Dry Heat Value:	1127.86
Pressure Base:	14.730	Wet Heat Value:	1108.23
Viscosity:		As Deliv. Heat Value:	1127.86

		<u>Mol %</u>	<u>GPM</u>			<u>Mol %</u>
C1	Methane	68.653		CO2	Carbon Dioxide	0.708
C2	Ethane	17.831	4.755	N2	Nitrogen	8.416
C3	Propane	3.783	1.039	O2	Oxygen	0.000
IC4	Iso-Butane	0.192	0.063	HE	Helium	
NC4	N-Butane	0.355	0.112	H2	Hydrogen	
IC5	Iso-Pentane	0.028	0.010	H2S	Hydrogen Sulfide	
NC5	N-Pentane	0.027	0.010	AR	Argon	
C6	Hexane	0.006	0.003	CO	Carbon Monoxide	
C7	Heptane			H2O	Water	
C8	Octane					
C9	Nonane					
C10	Decane					
Totals			99.998 %		5.991 GPM	

Sample Date: 4/30/2010 12:00:00 AM
Sample Type: Composite
Sample Tech: sampler
Sample Remarks:

Analysis Remarks:

zone 25

GQ Source Daily Summary

April 2010

Number: 163 **Pressure Base:** 14.730 **Contract Day:** 1
Name: NORTH TIOGA-MINOT **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	0.6958	1139.3	1159.5	0.615	3.645	74.136	18.879	2.491	0.076	0.140	0.007	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	1390.03
2	0.6949	1135.1	1155.2	0.623	3.804	74.271	18.606	2.467	0.073	0.136	0.007	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	1385.80
3	0.6960	1135.6	1155.7	0.639	3.854	74.131	18.613	2.531	0.075	0.138	0.007	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	1385.28
4	0.6947	1134.4	1154.5	0.631	3.821	74.330	18.497	2.497	0.072	0.133	0.007	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	1385.07
5	0.6955	1136.4	1156.6	0.619	3.782	74.289	18.510	2.547	0.079	0.151	0.008	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	1386.86
6	0.6934	1136.3	1156.5	0.562	3.678	74.562	18.512	2.433	0.077	0.150	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	1388.83
7	0.6874	1132.1	1152.2	0.470	3.518	75.184	18.626	1.999	0.063	0.121	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	1389.65
8	0.6865	1131.4	1151.5	0.465	3.484	75.361	18.502	1.977	0.064	0.126	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	1389.71
9	0.6834	1126.6	1146.6	0.464	3.489	75.728	18.359	1.780	0.056	0.106	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	1386.92
10	0.6870	1128.6	1148.6	0.526	3.604	75.251	18.462	1.968	0.061	0.112	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	1385.82
11	0.6919	1133.2	1153.3	0.582	3.706	74.689	18.486	2.316	0.071	0.129	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	1386.42
12	0.6924	1135.5	1155.7	0.565	3.633	74.603	18.634	2.349	0.072	0.128	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	1388.82
13	0.6909	1134.7	1154.8	0.550	3.570	74.577	19.038	2.073	0.063	0.113	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	1389.29
14	0.6937	1136.1	1156.2	0.594	3.673	74.215	19.101	2.212	0.068	0.122	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	1388.27
15	0.6953	1138.5	1158.7	0.597	3.677	73.968	19.257	2.289	0.069	0.125	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	1389.54
16	0.6845	1133.5	1153.6	0.540	3.334	76.178	17.477	1.965	0.033	0.163	0.006	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.007	440.95
17	0.6864	1127.2	1147.2	0.542	3.610	75.354	18.368	1.940	0.060	0.109	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	1384.68
18	0.6871	1128.1	1148.1	0.539	3.631	75.286	18.337	2.010	0.063	0.115	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	1385.00
19	0.6767	1118.0	1137.8	0.404	3.478	76.588	18.002	1.372	0.046	0.092	0.005	0.005	0.005	0.010	0.010	0.010	0.010	0.010	0.010	1383.13
20	0.6822	1127.5	1147.5	0.439	3.354	75.856	18.524	1.646	0.054	0.106	0.006	0.006	0.006	0.010	0.010	0.010	0.010	0.010	0.010	1389.33
21	0.6822	1130.2	1150.2	0.482	3.551	75.359	18.439	1.920	0.069	0.145	0.011	0.013	0.013	0.012	0.012	0.012	0.012	0.012	0.012	1388.02
22	0.6847	1128.7	1148.7	0.439	3.520	75.381	18.794	1.668	0.056	0.116	0.008	0.008	0.008	0.011	0.011	0.011	0.011	0.011	0.011	1388.19
23	0.6825	1129.0	1149.0	0.386	3.373	75.691	18.806	1.531	0.057	0.125	0.009	0.010	0.010	0.011	0.011	0.011	0.011	0.011	0.011	1390.85
24	0.6832	1130.3	1150.3	0.390	3.357	75.656	18.783	1.577	0.063	0.141	0.010	0.010	0.010	0.012	0.012	0.012	0.012	0.012	0.012	1391.66
25	0.6782	1121.5	1141.3	0.379	3.442	76.342	18.269	1.381	0.052	0.112	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	1385.89
26	0.6830	1126.4	1146.4	0.447	3.488	75.625	18.633	1.642	0.051	0.097	0.005	0.005	0.005	0.007	0.007	0.007	0.007	0.007	0.007	1387.13
27	0.6840	1125.7	1145.6	0.457	3.606	75.451	18.660	1.656	0.051	0.099	0.006	0.006	0.006	0.008	0.008	0.008	0.008	0.008	0.008	1385.27
28	0.6774	1118.0	1137.8	0.402	3.552	76.353	18.223	1.329	0.042	0.083	0.005	0.005	0.005	0.008	0.008	0.008	0.008	0.008	0.008	1382.34
29	0.6775	1121.2	1141.0	0.386	3.385	76.361	18.390	1.333	0.043	0.084	0.004	0.004	0.004	0.008	0.008	0.008	0.008	0.008	0.008	1386.23
30	0.6770	1119.6	1139.5	0.400	3.412	76.438	18.297	1.310	0.042	0.084	0.005	0.005	0.005	0.007	0.007	0.007	0.007	0.007	0.007	1384.85
Avg	0.6870	1130.0	1150.0	0.504	3.568	75.240	18.536	1.940	0.071	0.120	0.006	0.006	0.006	0.008	0.008	0.008	0.008	0.008	0.008	1355.66

Zone 261

Williston Basin Interstate Pipeline Co.

GQ Source Daily Summary

April 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	0.7189	1156.4	1176.9	0.647	4.724	70.082	21.034	3.268	0.075	0.150	0.007	0.006	0.007	0.000	0.000	0.000	0.000	0.000	1388.06
2	0.7177	1155.1	1175.6	0.656	4.680	70.316	20.850	3.250	0.077	0.153	0.006	0.006	0.005	0.000	0.000	0.000	0.000	0.000	1387.64
3	0.7174	1152.3	1172.7	0.654	4.829	70.181	21.004	3.098	0.072	0.144	0.006	0.005	0.007	0.000	0.000	0.000	0.000	0.000	1384.50
4	0.7183	1153.8	1174.2	0.670	4.794	70.088	21.054	3.156	0.074	0.147	0.006	0.005	0.006	0.000	0.000	0.000	0.000	0.000	1385.47
5	0.7166	1151.1	1171.5	0.661	4.807	70.321	20.908	3.082	0.070	0.136	0.005	0.003	0.007	0.000	0.000	0.000	0.000	0.000	1383.95
6	0.7180	1154.2	1174.7	0.644	4.778	70.185	20.959	3.177	0.079	0.157	0.007	0.006	0.008	0.000	0.000	0.000	0.000	0.000	1386.29
7	0.7201	1157.7	1178.2	0.625	4.791	69.924	21.068	3.316	0.085	0.168	0.007	0.007	0.009	0.000	0.000	0.000	0.000	0.000	1388.43
8	0.7203	1160.9	1181.4	0.567	4.709	69.926	21.112	3.398	0.094	0.175	0.006	0.005	0.008	0.000	0.000	0.000	0.000	0.000	1391.99
9	0.7376	1187.0	1208.0	0.565	4.733	68.409	21.119	4.428	0.198	0.463	0.034	0.038	0.013	0.000	0.000	0.000	0.000	0.000	1406.52
10	0.7324	1178.3	1199.2	0.568	4.771	69.053	20.765	4.164	0.183	0.423	0.029	0.033	0.011	0.000	0.000	0.000	0.000	0.000	1401.21
11	0.7193	1154.9	1175.4	0.595	4.927	70.780	19.610	3.575	0.146	0.320	0.019	0.020	0.007	0.000	0.000	0.000	0.000	0.000	1385.82
12	0.7254	1164.3	1185.0	0.626	4.881	69.985	20.059	3.886	0.159	0.350	0.022	0.024	0.008	0.000	0.000	0.000	0.000	0.000	1391.23
13	0.7243	1164.0	1184.6	0.622	4.802	69.759	20.646	3.768	0.128	0.249	0.010	0.010	0.005	0.000	0.000	0.000	0.000	0.000	1391.92
14	0.7255	1166.8	1187.4	0.613	4.757	69.619	20.816	3.733	0.138	0.289	0.015	0.016	0.006	0.000	0.000	0.000	0.000	0.000	1394.11
15	0.7265	1168.7	1189.4	0.644	4.686	69.377	21.157	3.695	0.130	0.272	0.015	0.016	0.008	0.000	0.000	0.000	0.000	0.000	1395.47
16	0.7240	1165.1	1185.7	0.639	4.690	69.467	21.326	3.558	0.105	0.194	0.007	0.006	0.008	0.000	0.000	0.000	0.000	0.000	1393.46
17	0.7260	1166.4	1187.0	0.644	4.786	69.261	21.273	3.672	0.115	0.225	0.009	0.008	0.005	0.000	0.000	0.000	0.000	0.000	1393.12
18	0.7235	1163.7	1184.3	0.636	4.726	69.729	20.925	3.612	0.117	0.230	0.009	0.009	0.007	0.000	0.000	0.000	0.000	0.000	1392.36
19	0.7210	1160.8	1181.3	0.616	4.699	70.023	20.861	3.457	0.108	0.211	0.008	0.007	0.009	0.000	0.000	0.000	0.000	0.000	1391.25
20	0.7240	1164.9	1185.5	0.577	4.793	69.733	20.807	3.652	0.132	0.275	0.013	0.013	0.005	0.000	0.000	0.000	0.000	0.000	1393.23
21	0.7269	1171.7	1192.5	0.571	4.658	69.372	21.126	3.798	0.144	0.300	0.014	0.014	0.004	0.000	0.000	0.000	0.000	0.000	1398.62
22	0.7222	1164.1	1184.7	0.576	4.678	69.867	20.984	3.513	0.117	0.238	0.011	0.012	0.006	0.000	0.000	0.000	0.000	0.000	1393.98
23	0.7256	1168.2	1188.9	0.580	4.740	69.296	21.362	3.638	0.118	0.237	0.011	0.011	0.008	0.000	0.000	0.000	0.000	0.000	1395.63
24	0.7224	1163.3	1183.9	0.558	4.769	69.524	21.462	3.371	0.096	0.196	0.009	0.009	0.006	0.000	0.000	0.000	0.000	0.000	1392.90
25	0.7228	1165.1	1185.7	0.542	4.724	69.395	21.658	3.390	0.087	0.179	0.009	0.009	0.006	0.000	0.000	0.000	0.000	0.000	1394.64
26	0.7251	1168.3	1188.9	0.539	4.747	69.300	21.420	3.635	0.112	0.222	0.010	0.010	0.006	0.000	0.000	0.000	0.000	0.000	1396.24
27	0.7222	1163.6	1184.2	0.563	4.727	69.577	21.401	3.440	0.095	0.178	0.007	0.006	0.005	0.000	0.000	0.000	0.000	0.000	1393.42
28	0.7273	1168.6	1189.3	0.599	4.843	68.947	21.538	3.730	0.109	0.212	0.009	0.009	0.003	0.000	0.000	0.000	0.000	0.000	1394.55
29	0.7265	1169.4	1190.1	0.564	4.769	69.117	21.477	3.713	0.113	0.223	0.010	0.010	0.004	0.000	0.000	0.000	0.000	0.000	1396.29
30	0.7240	1165.3	1185.9	0.547	4.815	69.327	21.477	3.507	0.102	0.203	0.009	0.009	0.005	0.000	0.000	0.000	0.000	0.000	1393.73
AVG	0.7234	1164.0	1184.4	0.604	4.761	69.665	21.042	3.556	0.113	0.231	0.011	0.011	0.007	0.000	0.000	0.000	0.000	0.000	1392.53

Zone 262

GQ Source Analysis

GQ Source Number:	2501030	Specific Gravity:	0.6508
GQ Source Name:	LIGNITE PLANT	BTU Base:	Dry
Effective Date:	4/1/2010 9:00:00 AM	Measured Heat Value:	1111.76
Effective End Date:	1/18/2038 9:14:07 PM	Dry Heat Value:	1110.28
Pressure Base:	14.730	Wet Heat Value:	1090.96
Viscosity:		As Deliv. Heat Value:	1110.28

		<u>Mol %</u>	<u>GPM</u>			<u>Mol %</u>
C1	Methane	80.445		CO2	Carbon Dioxide	0.143
C2	Ethane	15.851	0.000	N2	Nitrogen	3.062
C3	Propane	0.455	0.125	O2	Oxygen	0.000
IC4	Iso-Butane	0.000	0.000	HE	Helium	
NC4	N-Butane	0.000	0.000	H2	Hydrogen	
IC5	Iso-Pentane	0.000	0.000	H2S	Hydrogen Sulfide	
NC5	N-Pentane	0.000	0.000	AR	Argon	
C6	Hexane	0.037	0.017	CO	Carbon Monoxide	
C7	Heptane			H2O	Water	
C8	Octane					
C9	Nonane					
C10	Decane					

Totals 99.993% 0.142 GPM

Sample Date: 4/30/2010 12:00:00 AM
Sample Type: Composite
Sample Tech: sampler
Sample Remarks:

Analysis Remarks:

*** End of Report ***

Zone 263

GQ Source Daily Summary

April 2010

Number: 043

Pressure Base: 14.730

Contract Day: 1

Name: BISMARCK-CLEVELAND

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	0.7182	1155.3	1175.8	0.659	4.700	70.314	20.789	3.285	0.074	0.151	0.008	0.008	0.012	0.000	0.000	0.000	0.000	0.000	1387.42
2	0.7180	1156.3	1176.8	0.669	4.606	70.364	20.841	3.267	0.076	0.151	0.008	0.008	0.012	0.000	0.000	0.000	0.000	0.000	1388.80
3	0.7176	1152.5	1172.9	0.677	4.789	70.275	20.876	3.133	0.074	0.149	0.008	0.007	0.012	0.000	0.000	0.000	0.000	0.000	1384.65
4	0.7170	1151.5	1171.9	0.681	4.790	70.361	20.816	3.107	0.073	0.146	0.007	0.007	0.012	0.000	0.000	0.000	0.000	0.000	1384.00
5	0.7163	1150.2	1170.6	0.680	4.802	70.463	20.739	3.082	0.070	0.140	0.007	0.006	0.011	0.000	0.000	0.000	0.000	0.000	1383.13
6	0.7179	1153.7	1174.2	0.664	4.766	70.384	20.643	3.266	0.081	0.166	0.009	0.008	0.012	0.000	0.000	0.000	0.000	0.000	1385.76
7	0.7187	1156.5	1177.0	0.618	4.743	70.304	20.683	3.363	0.086	0.173	0.009	0.008	0.012	0.000	0.000	0.000	0.000	0.000	1388.29
8	0.7194	1159.4	1179.9	0.580	4.684	70.236	20.791	3.385	0.103	0.193	0.009	0.008	0.012	0.000	0.000	0.000	0.000	0.000	1391.17
9	0.7364	1185.0	1206.0	0.579	4.710	68.714	20.842	4.394	0.195	0.468	0.034	0.038	0.025	0.000	0.000	0.000	0.000	0.000	1405.39
10	0.7279	1170.7	1191.4	0.579	4.786	69.802	20.209	3.961	0.173	0.407	0.028	0.032	0.024	0.000	0.000	0.000	0.000	0.000	1396.48
11	0.7171	1150.2	1170.6	0.618	4.962	71.242	19.149	3.519	0.139	0.314	0.019	0.020	0.018	0.000	0.000	0.000	0.000	0.000	1382.32
12	0.7248	1163.7	1184.3	0.638	4.838	70.138	19.986	3.837	0.153	0.341	0.022	0.024	0.023	0.000	0.000	0.000	0.000	0.000	1391.05
13	0.7235	1163.1	1183.7	0.630	4.766	69.940	20.532	3.719	0.129	0.248	0.011	0.011	0.014	0.000	0.000	0.000	0.000	0.000	1391.64
14	0.7253	1167.0	1187.7	0.625	4.705	69.763	20.692	3.718	0.136	0.310	0.018	0.018	0.015	0.000	0.000	0.000	0.000	0.000	1394.56
15	0.7258	1167.3	1188.0	0.656	4.686	69.495	21.088	3.643	0.126	0.262	0.015	0.015	0.015	0.000	0.000	0.000	0.000	0.000	1394.45
16	0.7225	1162.0	1182.5	0.657	4.706	69.706	21.169	3.444	0.103	0.187	0.008	0.008	0.011	0.000	0.000	0.000	0.000	0.000	1391.20
17	0.7244	1165.1	1185.7	0.647	4.703	69.727	20.846	3.674	0.122	0.245	0.012	0.011	0.012	0.000	0.000	0.000	0.000	0.000	1393.16
18	0.7207	1160.0	1180.5	0.631	4.687	70.187	20.658	3.480	0.114	0.213	0.010	0.009	0.012	0.000	0.000	0.000	0.000	0.000	1390.66
19	0.7213	1159.3	1179.9	0.626	4.793	70.065	20.678	3.458	0.119	0.225	0.012	0.011	0.013	0.000	0.000	0.000	0.000	0.000	1389.26
20	0.7257	1169.6	1190.3	0.561	4.678	69.750	20.714	3.771	0.147	0.327	0.018	0.019	0.016	0.000	0.000	0.000	0.000	0.000	1397.28
21	0.7221	1164.3	1184.9	0.579	4.640	70.043	20.793	3.516	0.125	0.263	0.013	0.014	0.015	0.000	0.000	0.000	0.000	0.000	1394.39
22	0.7227	1163.2	1183.8	0.593	4.741	69.842	20.913	3.523	0.117	0.233	0.012	0.013	0.014	0.000	0.000	0.000	0.000	0.000	1392.55
23	0.7205	1160.3	1180.8	0.573	4.750	69.843	21.262	3.260	0.091	0.188	0.010	0.010	0.013	0.000	0.000	0.000	0.000	0.000	1391.09
24	0.7224	1164.6	1185.2	0.552	4.691	69.559	21.506	3.391	0.085	0.180	0.011	0.011	0.014	0.000	0.000	0.000	0.000	0.000	1394.52
25	0.7248	1168.1	1188.8	0.554	4.699	69.282	21.602	3.524	0.096	0.206	0.012	0.012	0.013	0.000	0.000	0.000	0.000	0.000	1396.40
26	0.7239	1166.7	1187.3	0.550	4.709	69.494	21.354	3.542	0.106	0.212	0.010	0.010	0.012	0.000	0.000	0.000	0.000	0.000	1395.51
27	0.7229	1164.1	1184.7	0.590	4.717	69.551	21.372	3.464	0.095	0.183	0.008	0.008	0.011	0.000	0.000	0.000	0.000	0.000	1393.34
28	0.7254	1167.1	1187.8	0.587	4.770	69.348	21.286	3.638	0.113	0.224	0.011	0.011	0.011	0.000	0.000	0.000	0.000	0.000	1394.56
29	0.7246	1165.2	1185.9	0.567	4.842	69.437	21.184	3.596	0.119	0.222	0.011	0.011	0.011	0.000	0.000	0.000	0.000	0.000	1393.08
30	0.7215	1163.0	1183.6	0.558	4.702	69.780	21.252	3.371	0.101	0.203	0.010	0.010	0.011	0.000	0.000	0.000	0.000	0.000	1393.37
Avg	0.7223	1162.0	1182.8	0.613	4.739	69.914	20.842	3.511	0.111	0.231	0.013	0.013	0.014	0.000	0.000	0.000	0.000	0.000	1391.65

Zone 271

GQ Source Daily Summary

April 2010

Number: 063

Pressure Base: 14.730

Contract Day: 1

Name: CLEVELAND-MAPLETON

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	0.7164	1152.0	1172.4	0.667	4.727	70.280	20.739	3.138	0.077	0.155	0.008	0.249	0.000	0.000	0.000	0.000	0.000	1385.14
2	0.7175	1155.9	1176.4	0.657	4.605	70.392	20.832	3.268	0.075	0.150	0.008	0.006	0.000	0.000	0.000	0.000	0.000	1388.81
3	0.7171	1153.0	1173.4	0.661	4.738	70.388	20.760	3.203	0.076	0.152	0.008	0.006	0.000	0.000	0.000	0.000	0.000	1385.70
4	0.7172	1151.8	1172.2	0.680	4.790	70.302	20.853	3.131	0.074	0.149	0.008	0.006	0.000	0.000	0.000	0.000	0.000	1384.15
5	0.7162	1150.3	1170.6	0.673	4.805	70.426	20.765	3.098	0.072	0.142	0.007	0.006	0.000	0.000	0.000	0.000	0.000	1383.24
6	0.7165	1151.0	1171.4	0.671	4.789	70.395	20.803	3.104	0.073	0.145	0.007	0.006	0.000	0.000	0.000	0.000	0.000	1383.86
7	0.7195	1156.1	1176.6	0.653	4.788	70.207	20.623	3.429	0.090	0.184	0.010	0.007	0.000	0.000	0.000	0.000	0.000	1387.07
8	0.7185	1157.7	1178.2	0.582	4.703	70.242	20.849	3.335	0.093	0.172	0.008	0.007	0.000	0.000	0.000	0.000	0.000	1389.93
9	0.7296	1174.9	1195.7	0.578	4.689	69.218	20.970	3.989	0.156	0.344	0.022	0.011	0.000	0.000	0.000	0.000	0.000	1399.85
10	0.7236	1179.1	1200.0	0.569	4.733	69.103	20.692	4.193	0.187	0.438	0.031	0.035	0.018	0.000	0.000	0.000	0.000	1401.94
11	0.7243	1164.2	1184.8	0.628	4.829	70.206	19.960	3.814	0.161	0.370	0.025	0.027	0.016	0.000	0.000	0.000	0.000	1392.13
12	0.7181	1151.0	1171.4	0.592	4.997	71.089	19.165	3.600	0.144	0.322	0.021	0.022	0.013	0.000	0.000	0.000	0.000	1382.23
13	0.7230	1161.7	1182.2	0.635	4.799	70.090	20.303	3.721	0.134	0.276	0.015	0.015	0.012	0.000	0.000	0.000	0.000	1390.37
14	0.7237	1164.0	1184.7	0.619	4.747	69.876	20.630	3.685	0.134	0.274	0.014	0.014	0.007	0.000	0.000	0.000	0.000	1396.58
15	0.7275	1170.5	1191.2	0.641	4.677	69.378	21.007	3.790	0.144	0.312	0.020	0.021	0.010	0.000	0.000	0.000	0.000	1392.51
16	0.7225	1162.7	1183.3	0.645	4.672	69.684	21.215	3.464	0.105	0.192	0.008	0.008	0.007	0.000	0.000	0.000	0.000	1396.15
17	0.7250	1164.9	1185.5	0.652	4.765	69.406	21.225	3.587	0.116	0.223	0.010	0.010	0.006	0.000	0.000	0.000	0.000	1392.32
18	0.7230	1163.7	1184.3	0.638	4.679	69.900	20.841	3.554	0.120	0.236	0.011	0.011	0.008	0.000	0.000	0.000	0.000	1392.81
19	0.7208	1160.2	1180.7	0.628	4.697	70.056	20.825	3.439	0.113	0.216	0.010	0.009	0.007	0.000	0.000	0.000	0.000	1390.70
20	0.7182	1154.9	1175.3	0.618	4.787	70.842	19.825	3.464	0.133	0.280	0.020	0.021	0.011	0.000	0.000	0.000	0.000	1386.73
21	0.7264	1171.4	1192.1	0.573	4.620	69.477	21.085	3.752	0.145	0.307	0.016	0.016	0.010	0.000	0.000	0.000	0.000	1398.72
22	0.7188	1158.4	1178.9	0.589	4.676	70.330	20.695	3.375	0.103	0.203	0.011	0.011	0.009	0.000	0.000	0.000	0.000	1390.49
23	0.7199	1159.2	1179.8	0.593	4.723	69.912	21.103	3.336	0.101	0.205	0.011	0.012	0.009	0.000	0.000	0.000	0.000	1390.46
24	0.7207	1160.9	1181.5	0.563	4.745	69.774	21.274	3.328	0.093	0.194	0.011	0.011	0.008	0.000	0.000	0.000	0.000	1391.68
25	0.7225	1164.8	1185.5	0.549	4.693	69.503	21.542	3.408	0.088	0.186	0.011	0.012	0.008	0.000	0.000	0.000	0.000	1394.65
26	0.7256	1169.1	1189.8	0.551	4.724	69.220	21.511	3.622	0.112	0.227	0.012	0.013	0.008	0.000	0.000	0.000	0.000	1396.69
27	0.7232	1165.3	1185.9	0.579	4.672	69.296	21.533	3.577	0.108	0.209	0.011	0.012	0.003	0.000	0.000	0.000	0.000	1394.54
28	0.7243	1165.2	1185.8	0.608	4.746	69.151	21.564	3.609	0.101	0.198	0.011	0.011	0.001	0.000	0.000	0.000	0.000	1393.31
29	0.7257	1168.5	1189.2	0.569	4.743	69.277	21.378	3.673	0.110	0.222	0.012	0.011	0.006	0.000	0.000	0.000	0.000	1395.91
30	0.7246	1165.9	1186.5	0.551	4.827	69.364	21.313	3.593	0.107	0.215	0.011	0.011	0.006	0.000	0.000	0.000	0.000	1393.84
Avg	0.7220	1162.0	1182.2	0.614	4.740	69.893	20.863	3.509	0.112	0.230	0.013	0.013	0.016	0.000	0.000	0.000	0.000	1391.28

Zone 272

GQ Source Daily Summary

April 2010

Number: 061 Pressure Base: 14,730 Contract Day: 1
 Name: CLEVELAND-GRAFTON Temperature Base: Contract Hour: 9

Day	Relative Density		Heating Value		CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
	Wet	Dry	Wet	Dry																
1	0.7166	1152.3	1172.7	0.666	4.724	70.449	20.769	3.139	0.077	0.154	0.008	0.008	0.008	0.006	0.000	0.000	0.000	0.000	0.000	1385.35
2	0.7184	1157.3	1177.8	0.655	4.606	70.238	20.952	3.300	0.075	0.152	0.008	0.008	0.008	0.006	0.000	0.000	0.000	0.000	0.000	1389.60
3	0.7172	1153.3	1173.7	0.659	4.737	70.351	20.804	3.200	0.075	0.152	0.008	0.008	0.008	0.006	0.000	0.000	0.000	0.000	0.000	1385.92
4	0.7173	1152.0	1172.4	0.680	4.787	70.281	20.873	3.136	0.074	0.149	0.008	0.007	0.006	0.006	0.000	0.000	0.000	0.000	0.000	1384.33
5	0.7163	1150.4	1170.7	0.674	4.807	70.412	20.775	3.099	0.072	0.142	0.007	0.006	0.006	0.006	0.000	0.000	0.000	0.000	0.000	1383.27
6	0.7165	1151.0	1171.4	0.671	4.786	70.391	20.813	3.102	0.073	0.145	0.007	0.006	0.006	0.006	0.000	0.000	0.000	0.000	0.000	1383.92
7	0.7197	1156.4	1176.9	0.653	4.786	70.183	20.638	3.436	0.091	0.186	0.010	0.009	0.007	0.007	0.000	0.000	0.000	0.000	0.000	1387.26
8	0.7187	1157.9	1178.4	0.582	4.705	70.224	20.852	3.348	0.094	0.173	0.008	0.007	0.007	0.007	0.000	0.000	0.000	0.000	0.000	1390.02
9	0.7283	1172.2	1192.9	0.580	4.734	69.302	20.941	3.952	0.141	0.309	0.017	0.017	0.017	0.006	0.000	0.000	0.000	0.000	0.000	1397.86
10	0.7319	1177.8	1198.7	0.570	4.745	69.155	20.687	4.160	0.183	0.425	0.029	0.032	0.032	0.013	0.000	0.000	0.000	0.000	0.000	1401.12
11	0.7242	1163.9	1184.6	0.592	4.834	70.205	19.965	3.813	0.161	0.367	0.024	0.026	0.026	0.014	0.000	0.000	0.000	0.000	0.000	1391.95
12	0.7182	1151.1	1171.5	0.628	4.995	71.082	19.177	3.594	0.145	0.324	0.021	0.022	0.022	0.012	0.000	0.000	0.000	0.000	0.000	1382.31
13	0.7232	1162.0	1182.6	0.635	4.793	70.077	20.307	3.736	0.134	0.276	0.015	0.015	0.015	0.012	0.000	0.000	0.000	0.000	0.000	1390.62
14	0.7239	1164.4	1185.0	0.620	4.743	69.839	20.665	3.693	0.134	0.273	0.014	0.014	0.014	0.007	0.000	0.000	0.000	0.000	0.000	1392.73
15	0.7277	1170.9	1191.6	0.642	4.672	69.352	21.038	3.787	0.144	0.315	0.020	0.021	0.021	0.010	0.000	0.000	0.000	0.000	0.000	1396.82
16	0.7228	1163.3	1183.9	0.645	4.668	69.654	21.199	3.513	0.104	0.193	0.008	0.008	0.008	0.007	0.000	0.000	0.000	0.000	0.000	1392.55
17	0.7253	1165.4	1186.1	0.652	4.759	69.375	21.212	3.635	0.116	0.226	0.011	0.011	0.011	0.006	0.000	0.000	0.000	0.000	0.000	1392.71
18	0.7247	1166.8	1187.5	0.628	4.657	69.614	21.057	3.604	0.132	0.263	0.014	0.014	0.014	0.018	0.000	0.000	0.000	0.000	0.000	1394.88
19	0.7213	1161.0	1181.6	0.627	4.695	70.000	20.833	3.491	0.112	0.216	0.010	0.009	0.009	0.008	0.000	0.000	0.000	0.000	0.000	1391.23
20	0.7234	1164.4	1185.0	0.572	4.770	69.865	20.720	3.601	0.137	0.293	0.016	0.016	0.016	0.009	0.000	0.000	0.000	0.000	0.000	1393.22
21	0.7265	1171.4	1192.2	0.574	4.622	69.466	21.095	3.749	0.146	0.307	0.016	0.016	0.016	0.010	0.000	0.000	0.000	0.000	0.000	1398.71
22	0.7158	1154.7	1175.1	0.577	4.640	70.730	20.596	3.136	0.095	0.193	0.011	0.011	0.011	0.011	0.000	0.000	0.000	0.000	0.000	1388.93
23	0.7148	1152.0	1172.4	0.582	4.702	70.679	20.767	3.001	0.078	0.159	0.010	0.010	0.010	0.010	0.000	0.000	0.000	0.000	0.000	1386.72
24	0.7175	1156.2	1176.6	0.576	4.714	70.291	21.009	3.121	0.084	0.173	0.010	0.010	0.010	0.010	0.000	0.000	0.000	0.000	0.000	1389.12
25	0.7212	1162.5	1183.1	0.559	4.703	69.734	21.358	3.339	0.088	0.187	0.011	0.011	0.011	0.010	0.000	0.000	0.000	0.000	0.000	1393.07
26	0.7258	1169.4	1190.1	0.551	4.719	69.194	21.543	3.620	0.112	0.228	0.012	0.012	0.012	0.008	0.000	0.000	0.000	0.000	0.000	1396.94
27	0.7251	1167.8	1188.5	0.542	4.740	69.361	21.206	3.710	0.132	0.271	0.011	0.011	0.011	0.009	0.000	0.000	0.000	0.000	0.000	1395.76
28	0.7262	1167.8	1188.5	0.577	4.797	69.172	21.312	3.740	0.122	0.247	0.011	0.011	0.011	0.006	0.000	0.000	0.000	0.000	0.000	1394.67
29	0.7257	1168.5	1189.2	0.567	4.740	69.288	21.367	3.677	0.111	0.222	0.011	0.011	0.011	0.006	0.000	0.000	0.000	0.000	0.000	1395.99
30	0.7250	1166.4	1187.1	0.553	4.823	69.302	21.376	3.597	0.107	0.214	0.011	0.011	0.011	0.006	0.000	0.000	0.000	0.000	0.000	1394.16
AVG	0.7220	1162.0	1182.3	0.610	4.740	69.909	20.863	3.501	0.112	0.231	0.013	0.013	0.013	0.009	0.000	0.000	0.000	0.000	0.000	1391.39

Zone 273

GQ Source Daily Summary

April 2010

Number: 041 **Pressure Base:** 14.730 **Contract Day:** 1
Name: BISMARCK-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	0.7100	1144.4	1164.7	0.678	4.572	71.765	19.681	3.062	0.071	0.143	0.008	0.008	0.007	0.012	0.000	0.000	0.000	0.000	0.000	1382.10
2	0.6688	1091.5	1110.8	0.782	3.759	79.314	13.902	2.058	0.060	0.103	0.008	0.008	0.006	0.009	0.000	0.000	0.000	0.000	0.000	1358.15
3	0.6965	1125.2	1145.2	0.712	4.413	74.117	17.912	2.629	0.066	0.126	0.008	0.008	0.006	0.011	0.000	0.000	0.000	0.000	0.000	1372.11
4	0.7091	1141.6	1161.8	0.702	4.623	71.831	19.670	2.938	0.071	0.140	0.008	0.008	0.007	0.011	0.000	0.000	0.000	0.000	0.000	1379.65
5	0.7114	1144.0	1164.2	0.685	4.717	71.352	20.051	2.969	0.068	0.135	0.007	0.007	0.006	0.011	0.000	0.000	0.000	0.000	0.000	1380.31
6	0.7172	1152.6	1173.0	0.663	4.765	70.478	20.610	3.214	0.079	0.162	0.009	0.009	0.008	0.012	0.000	0.000	0.000	0.000	0.000	1385.15
7	0.7175	1155.4	1175.8	0.607	4.717	70.511	20.534	3.333	0.087	0.172	0.015	0.015	0.008	0.013	0.000	0.000	0.000	0.000	0.000	1388.10
8	0.7203	1160.6	1181.1	0.579	4.700	70.078	20.891	3.409	0.100	0.198	0.019	0.019	0.009	0.012	0.000	0.000	0.000	0.000	0.000	1391.69
9	0.7114	1150.2	1170.5	0.648	4.382	72.831	17.933	3.594	0.157	0.375	0.027	0.027	0.031	0.022	0.000	0.000	0.000	0.000	0.000	1387.42
10	0.7279	1170.7	1191.4	0.579	4.792	69.814	20.168	3.984	0.172	0.407	0.029	0.029	0.032	0.024	0.000	0.000	0.000	0.000	0.000	1396.39
11	0.7167	1149.7	1170.1	0.617	4.964	71.251	19.195	3.467	0.140	0.309	0.019	0.019	0.020	0.018	0.000	0.000	0.000	0.000	0.000	1382.02
12	0.7249	1163.7	1184.3	0.637	4.844	70.114	20.014	3.829	0.152	0.340	0.022	0.022	0.024	0.023	0.000	0.000	0.000	0.000	0.000	1391.01
13	0.7239	1163.7	1184.3	0.630	4.767	69.865	20.606	3.716	0.127	0.251	0.012	0.012	0.011	0.014	0.000	0.000	0.000	0.000	0.000	1391.97
14	0.7251	1166.9	1187.6	0.626	4.688	69.718	20.844	3.634	0.140	0.299	0.018	0.018	0.018	0.015	0.000	0.000	0.000	0.000	0.000	1394.66
15	0.7259	1167.5	1188.2	0.656	4.679	69.507	21.055	3.671	0.124	0.262	0.015	0.015	0.016	0.015	0.000	0.000	0.000	0.000	0.000	1394.65
16	0.7235	1163.6	1184.2	0.656	4.701	69.610	21.168	3.548	0.100	0.191	0.008	0.008	0.008	0.011	0.000	0.000	0.000	0.000	0.000	1392.20
17	0.7247	1165.5	1186.1	0.645	4.713	69.622	20.987	3.626	0.123	0.247	0.012	0.012	0.012	0.012	0.000	0.000	0.000	0.000	0.000	1393.29
18	0.7208	1160.1	1180.6	0.630	4.697	70.153	20.692	3.463	0.114	0.220	0.010	0.010	0.009	0.012	0.000	0.000	0.000	0.000	0.000	1390.63
19	0.7219	1160.6	1181.1	0.627	4.774	69.992	20.730	3.494	0.116	0.231	0.011	0.011	0.011	0.013	0.000	0.000	0.000	0.000	0.000	1390.15
20	0.7247	1168.1	1188.7	0.563	4.679	69.834	20.735	3.668	0.151	0.317	0.018	0.018	0.019	0.016	0.000	0.000	0.000	0.000	0.000	1396.38
21	0.7216	1163.4	1184.0	0.578	4.645	70.121	20.729	3.504	0.127	0.253	0.014	0.014	0.014	0.015	0.000	0.000	0.000	0.000	0.000	1390.86
22	0.7228	1163.4	1184.0	0.594	4.737	69.814	20.960	3.506	0.117	0.232	0.013	0.013	0.013	0.014	0.000	0.000	0.000	0.000	0.000	1392.64
23	0.7202	1159.6	1180.1	0.572	4.761	69.874	21.253	3.230	0.091	0.186	0.010	0.010	0.010	0.013	0.000	0.000	0.000	0.000	0.000	1390.61
24	0.7220	1163.8	1184.4	0.553	4.702	69.623	21.457	3.362	0.086	0.182	0.011	0.011	0.011	0.014	0.000	0.000	0.000	0.000	0.000	1393.91
25	0.7244	1167.2	1187.9	0.554	4.714	69.353	21.524	3.518	0.096	0.204	0.012	0.012	0.012	0.013	0.000	0.000	0.000	0.000	0.000	1395.74
26	0.7239	1166.5	1187.2	0.590	4.717	69.494	21.344	3.549	0.105	0.209	0.010	0.010	0.010	0.012	0.000	0.000	0.000	0.000	0.000	1395.36
27	0.7226	1163.5	1184.1	0.550	4.725	69.623	21.279	3.480	0.095	0.181	0.008	0.008	0.008	0.011	0.000	0.000	0.000	0.000	0.000	1392.94
28	0.7255	1167.3	1187.9	0.587	4.772	69.353	21.245	3.673	0.112	0.224	0.012	0.012	0.012	0.011	0.000	0.000	0.000	0.000	0.000	1394.62
29	0.7260	1167.3	1188.0	0.565	4.844	69.348	21.086	3.783	0.112	0.229	0.011	0.011	0.011	0.011	0.000	0.000	0.000	0.000	0.000	1394.24
30	0.7218	1163.3	1183.9	0.558	4.705	69.754	21.249	3.399	0.099	0.203	0.010	0.010	0.010	0.011	0.000	0.000	0.000	0.000	0.000	1393.53
Avg	0.7184	1157.0	1177.5	0.621	4.676	70.604	20.317	3.410	0.109	0.224	0.013	0.013	0.013	0.014	0.000	0.000	0.000	0.000	0.000	1389.18

Zone 28

GQ Source Daily Summary

April 2010

Number: 271

Pressure Base: 14.730

Contract Day: 1

Name: DICKINSON AREA

Temperature Base:

Contract Hour: 9

Day	Relative Density	Heating Value Wet	Heating Value Dry	CO2	W2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.6068	1013.4	1031.3	0.909	2.489	90.490	5.531	0.510	0.040	0.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1323.96
2	0.6023	1001.8	1019.5	0.781	2.973	90.963	4.899	0.354	0.019	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1313.69
3	0.5903	980.1	997.5	1.032	2.783	93.416	2.646	0.119	0.003	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1298.42
4	0.5849	965.2	982.3	1.172	2.969	94.540	1.287	0.030	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1284.43
5	0.5842	972.6	989.8	1.073	2.608	94.662	1.600	0.058	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1294.97
6	0.5852	968.6	985.8	1.147	2.830	94.479	1.512	0.033	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1288.60
7	0.5832	977.4	994.7	0.952	2.401	94.777	1.822	0.048	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1302.51
8	0.5851	987.4	1004.9	0.822	2.167	94.321	2.611	0.079	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1313.72
9	0.5860	986.0	1003.4	0.870	2.267	94.165	2.623	0.075	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1310.80
10	0.5849	983.8	1001.3	0.871	2.287	94.397	2.373	0.072	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1309.24
11	0.5877	989.8	1007.3	0.882	2.174	93.965	2.806	0.151	0.009	0.012	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1313.97
12	0.5985	1006.3	1024.1	0.902	2.159	92.188	4.247	0.402	0.041	0.055	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.000	1323.67
13	0.6108	1026.1	1044.2	0.764	2.320	89.338	7.193	0.332	0.021	0.029	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	1335.77
14	0.6212	1046.3	1064.9	0.579	2.344	86.811	10.042	0.224	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1350.71
15	0.5887	980.3	997.7	1.012	2.652	93.682	2.583	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1300.29
16	0.5883	976.6	993.9	1.053	2.779	93.768	2.356	0.043	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1295.71
17	0.5818	960.7	977.7	1.209	2.892	95.219	0.662	0.018	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1281.88
18	0.5978	992.0	1009.6	1.002	2.810	91.806	4.294	0.088	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1305.52
19	0.6599	1115.3	1135.1	0.152	2.436	78.639	18.359	0.414	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1397.20
20	0.6411	1076.8	1095.9	0.444	2.569	82.646	14.033	0.308	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1368.42
21	0.6124	1020.8	1038.9	0.804	2.732	88.715	7.582	0.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1326.52
22	0.5869	970.6	987.8	1.131	2.893	94.112	1.827	0.037	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1289.33
23	0.6941	1123.5	1143.4	0.696	4.312	75.055	16.708	2.892	0.107	0.230	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1371.93
24	0.7225	1162.7	1183.3	0.591	4.758	69.915	20.673	3.690	0.122	0.245	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.000	1392.10
25	0.7278	1171.5	1192.2	0.575	4.735	69.554	20.612	3.924	0.162	0.409	0.015	0.008	0.006	0.000	0.000	0.000	0.000	0.000	1397.54
26	0.6538	1078.3	1097.4	0.649	3.350	81.631	12.724	1.498	0.048	0.100	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1356.51
27	0.5869	978.5	995.8	0.772	2.958	93.789	2.398	0.082	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1299.92
28	0.5864	983.8	1001.2	0.689	2.710	93.880	2.611	0.108	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1307.49
29	0.5873	980.8	998.2	0.692	2.973	93.632	2.617	0.085	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1302.51
30	0.5834	977.0	994.3	0.705	2.816	94.462	1.944	0.074	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1301.82
AVG	0.6103	1015.0	1033.1	0.831	2.838	89.634	6.106	0.533	0.019	0.037	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1321.98

Zone 31

GQ Source Daily Summary

April 2010

Number: 051 **Pressure Base:** 14.730 **Contract Day:** 1
Name: CABIN CR-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	0.5856	974.2	991.5	0.968	2.804	94.471	1.541	0.182	0.016	0.012	0.003	0.001	0.002	0.000	0.000	0.000	0.000	0.000	1295.64
2	0.5786	969.9	987.1	0.992	2.372	95.782	0.813	0.036	0.002	0.002	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1297.68
3	0.5807	955.0	971.9	1.243	3.097	95.485	0.154	0.013	0.002	0.003	0.001	0.000	0.002	0.000	0.000	0.000	0.000	0.000	1275.38
4	0.5802	964.2	981.3	1.125	2.668	95.573	0.579	0.042	0.004	0.005	0.002	0.001	0.002	0.000	0.000	0.000	0.000	0.000	1288.24
5	0.5804	958.5	975.5	1.219	2.893	95.545	0.316	0.019	0.002	0.003	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1280.42
6	0.5787	968.8	986.0	1.000	2.431	95.768	0.764	0.031	0.002	0.002	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1296.14
7	0.5786	975.2	992.5	0.898	2.183	95.755	1.103	0.053	0.003	0.003	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1304.86
8	0.5791	971.7	988.9	0.967	2.346	95.681	0.955	0.046	0.002	0.002	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1299.50
9	0.5784	971.8	989.0	0.950	2.300	95.820	0.870	0.050	0.003	0.004	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1300.45
10	0.5844	982.4	999.8	0.992	2.154	95.004	1.529	0.239	0.026	0.034	0.008	0.006	0.006	0.000	0.000	0.000	0.000	0.000	1307.79
11	0.5875	984.6	1002.1	1.038	2.235	94.533	1.792	0.294	0.034	0.044	0.011	0.008	0.011	0.000	0.000	0.000	0.000	0.000	1307.37
12	0.5801	971.8	989.0	0.990	2.400	95.521	1.008	0.065	0.005	0.006	0.001	0.001	0.002	0.000	0.000	0.000	0.000	0.000	1298.53
13	0.5800	963.8	980.9	1.114	2.691	95.586	0.556	0.041	0.004	0.004	0.001	0.000	0.002	0.000	0.000	0.000	0.000	0.000	1287.95
14	0.5873	985.3	1002.8	1.193	1.935	94.743	1.738	0.297	0.044	0.031	0.009	0.004	0.007	0.000	0.000	0.000	0.000	0.000	1308.54
15	0.5806	959.3	976.3	1.224	2.853	95.556	0.317	0.036	0.005	0.005	0.001	0.000	0.002	0.000	0.000	0.000	0.000	0.000	1281.25
16	0.5809	955.5	972.4	1.291	3.015	95.494	0.176	0.017	0.003	0.003	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1275.83
17	0.5808	972.4	989.6	1.017	2.385	95.495	0.959	0.111	0.015	0.011	0.003	0.001	0.003	0.000	0.000	0.000	0.000	0.000	1298.54
18	0.5850	984.9	1002.4	1.032	1.990	94.982	1.650	0.261	0.039	0.028	0.008	0.004	0.006	0.000	0.000	0.000	0.000	0.000	1310.51
19	0.5855	985.8	1003.3	1.100	1.878	94.951	1.737	0.253	0.037	0.027	0.007	0.004	0.006	0.000	0.000	0.000	0.000	0.000	1311.17
20	0.5813	982.1	999.5	0.979	1.899	95.472	1.475	0.139	0.016	0.012	0.003	0.002	0.003	0.000	0.000	0.000	0.000	0.000	1310.89
21	0.5804	971.8	989.0	1.038	2.356	95.553	0.943	0.086	0.010	0.008	0.002	0.001	0.002	0.000	0.000	0.000	0.000	0.000	1298.17
22	0.5972	992.1	1009.7	1.084	2.633	92.228	3.838	0.185	0.014	0.011	0.003	0.001	0.003	0.000	0.000	0.000	0.000	0.000	1305.88
23	0.6107	1032.3	1050.6	1.104	1.417	90.277	6.512	0.549	0.069	0.047	0.012	0.006	0.008	0.000	0.000	0.000	0.000	0.000	1344.16
24	0.6081	1018.6	1036.7	0.962	2.224	90.132	6.317	0.300	0.031	0.022	0.005	0.003	0.004	0.000	0.000	0.000	0.000	0.000	1329.34
25	0.5970	1002.7	1020.4	1.542	1.259	93.575	2.934	0.529	0.077	0.052	0.014	0.007	0.010	0.000	0.000	0.000	0.000	0.000	1320.71
26	0.5805	968.4	985.5	0.974	2.675	95.437	0.792	0.093	0.012	0.009	0.003	0.001	0.003	0.000	0.000	0.000	0.000	0.000	1293.40
27	0.5833	979.4	996.7	0.925	2.336	95.437	1.415	0.200	0.029	0.022	0.006	0.003	0.005	0.000	0.000	0.000	0.000	0.000	1305.01
28	0.5823	972.4	989.6	0.906	2.702	95.135	1.036	0.165	0.025	0.019	0.005	0.003	0.004	0.000	0.000	0.000	0.000	0.000	1296.76
29	0.5831	975.0	992.3	0.968	2.514	95.094	1.187	0.180	0.027	0.019	0.005	0.003	0.004	0.000	0.000	0.000	0.000	0.000	1299.48
30	0.5950	1000.9	1018.6	1.462	1.302	93.860	2.723	0.497	0.074	0.051	0.014	0.007	0.010	0.000	0.000	0.000	0.000	0.000	1320.57
AVG	0.5850	978.0	995.7	1.077	2.332	94.786	1.591	0.167	0.021	0.017	0.004	0.002	0.004	0.000	0.000	0.000	0.000	0.000	1301.67

Zone 32

GQ Source Daily Summary

April 2010

Number: 111 **Pressure Base:** 14.730 **Contract Day:** 1
Name: LITTLE KNIFE PLANT **Temperature Base:** **Contract Hour:** 9

Day	Relative Density	Heating Value Wet	Heating Value Dry	CO2	N2	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	Wobbe	CCT
1	0.6805	1152.9	1173.4	0.000	2.325	74.593	22.393	0.672	0.007	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1422.36
2	0.6775	1148.1	1168.5	0.000	2.337	74.978	22.216	0.485	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1419.57
3	0.6766	1147.1	1167.4	0.000	2.315	75.166	22.053	0.451	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1419.23
4	0.6771	1146.7	1167.0	0.000	2.388	75.048	22.096	0.454	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1418.21
5	0.6768	1146.3	1166.6	0.000	2.381	75.114	22.046	0.445	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1418.06
6	0.6770	1146.8	1167.1	0.000	2.378	75.057	22.110	0.442	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1418.37
7	0.6769	1145.8	1166.0	0.000	2.424	75.081	22.038	0.443	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1417.28
8	0.6759	1145.1	1165.4	0.000	2.372	75.269	21.922	0.423	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1417.48
9	0.6762	1145.3	1165.6	0.000	2.389	75.186	22.006	0.406	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1417.40
10	0.6767	1146.4	1166.7	0.000	2.370	75.124	22.051	0.441	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1418.21
11	0.6782	1148.4	1168.8	0.000	2.387	74.820	22.329	0.450	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1419.19
12	0.6772	1146.5	1166.8	0.000	2.410	74.987	22.176	0.414	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1417.85
13	0.6785	1148.8	1169.2	0.000	2.390	74.752	22.405	0.439	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1419.36
14	0.6783	1148.1	1168.4	0.000	2.413	74.784	22.359	0.430	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1418.73
15	0.6767	1145.9	1166.2	0.000	2.397	75.094	22.074	0.420	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1417.68
16	0.6769	1146.6	1166.9	0.000	2.375	75.098	22.058	0.455	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1418.27
17	0.6760	1145.6	1165.9	0.000	2.349	75.315	21.834	0.487	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1418.02
18	0.6758	1145.2	1165.5	0.000	2.353	75.351	21.804	0.478	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1417.74
19	0.6788	1150.2	1170.6	0.000	2.328	75.060	21.806	0.791	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1420.79
20	0.6776	1148.7	1169.0	0.000	2.315	75.072	22.030	0.567	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1420.10
21	0.6802	1152.6	1173.0	0.000	2.321	74.507	22.629	0.528	0.006	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1422.23
22	0.6790	1150.2	1170.5	0.000	2.358	74.705	22.425	0.498	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1420.48
23	0.6784	1148.9	1169.3	0.000	2.375	74.817	22.313	0.481	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1419.58
24	0.6781	1149.1	1169.4	0.000	2.333	74.907	22.250	0.496	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1420.14
25	0.6763	1146.3	1166.6	0.000	2.335	75.225	21.978	0.448	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1418.55
26	0.6758	1146.0	1166.3	0.000	2.305	75.323	21.911	0.448	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1418.76
27	0.6766	1146.1	1166.4	0.000	2.369	75.157	22.017	0.442	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1418.11
28	0.6762	1146.0	1166.3	0.000	2.343	75.235	21.963	0.445	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1418.32
29	0.6783	1149.2	1169.5	0.000	2.346	74.853	22.303	0.483	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1420.05
30	0.6776	1147.6	1167.9	0.000	2.380	75.114	21.884	0.600	0.009	0.012	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	1418.79
Avg	0.6774	1148.0	1167.9	0.000	2.362	75.026	22.116	0.481	0.006	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1418.96

Zone 33

GQ Source Daily Summary

April 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	0.8017	1152.1	1172.5	2.199	10.432	53.767	30.238	3.030	0.074	0.223	0.009	0.023	0.003	0.000	0.000	0.000	0.000	0.000	1309.53
2	0.8042	1151.0	1171.4	2.219	10.702	53.411	30.137	3.189	0.076	0.229	0.009	0.023	0.003	0.000	0.000	0.000	0.000	0.000	1306.23
3	0.8061	1150.8	1171.1	2.318	10.745	53.159	30.212	3.216	0.077	0.235	0.010	0.025	0.003	0.000	0.000	0.000	0.000	0.000	1304.44
4	0.8060	1148.1	1168.4	2.410	10.760	53.282	29.968	3.229	0.077	0.236	0.010	0.025	0.003	0.000	0.000	0.000	0.000	0.000	1301.44
5	0.8013	1139.4	1159.6	2.344	10.951	53.952	29.340	3.085	0.072	0.219	0.009	0.024	0.004	0.000	0.000	0.000	0.000	0.000	1295.37
6	0.7968	1142.3	1162.6	2.173	10.609	54.608	29.344	2.939	0.072	0.219	0.009	0.024	0.004	0.000	0.000	0.000	0.000	0.000	1302.39
7	0.8004	1142.2	1162.5	2.246	10.845	54.026	29.500	3.047	0.073	0.224	0.009	0.025	0.004	0.000	0.000	0.000	0.000	0.000	1299.31
8	0.8040	1147.3	1167.6	2.302	10.787	53.472	29.960	3.130	0.077	0.235	0.010	0.025	0.003	0.000	0.000	0.000	0.000	0.000	1302.17
9	0.8041	1150.7	1171.0	2.241	10.686	53.443	30.116	3.159	0.078	0.238	0.010	0.025	0.003	0.000	0.000	0.000	0.000	0.000	1305.90
10	0.8046	1151.3	1171.7	2.230	10.704	53.419	30.072	3.208	0.081	0.247	0.010	0.026	0.004	0.000	0.000	0.000	0.000	0.000	1306.26
11	0.8049	1149.3	1169.6	2.293	10.765	53.388	29.986	3.198	0.081	0.249	0.010	0.026	0.003	0.000	0.000	0.000	0.000	0.000	1303.69
12	0.8048	1148.5	1168.8	2.336	10.740	53.408	29.983	3.172	0.079	0.242	0.010	0.026	0.003	0.000	0.000	0.000	0.000	0.000	1302.83
13	0.8025	1144.1	1164.4	2.335	10.784	53.675	29.847	3.031	0.072	0.220	0.009	0.024	0.003	0.000	0.000	0.000	0.000	0.000	1299.85
14	0.8054	1152.8	1173.2	2.306	10.572	53.240	30.386	3.154	0.075	0.231	0.010	0.025	0.003	0.000	0.000	0.000	0.000	0.000	1307.35
15	0.8057	1155.4	1175.9	2.240	10.548	53.251	30.347	3.249	0.080	0.246	0.010	0.027	0.003	0.000	0.000	0.000	0.000	0.000	1309.99
16	0.8072	1157.2	1177.7	2.281	10.516	53.131	30.349	3.329	0.085	0.264	0.011	0.029	0.004	0.000	0.000	0.000	0.000	0.000	1310.79
17	0.8076	1157.8	1178.3	2.293	10.494	53.006	30.533	3.296	0.082	0.254	0.011	0.028	0.003	0.000	0.000	0.000	0.000	0.000	1311.20
18	0.8049	1151.8	1172.1	2.282	10.631	53.391	30.115	3.230	0.076	0.235	0.010	0.026	0.003	0.000	0.000	0.000	0.000	0.000	1306.48
19	0.8047	1153.7	1174.2	2.199	10.613	53.322	30.323	3.199	0.075	0.231	0.010	0.025	0.003	0.000	0.000	0.000	0.000	0.000	1308.93
20	0.8050	1151.6	1171.9	2.249	10.703	53.262	30.261	3.184	0.075	0.229	0.010	0.025	0.003	0.000	0.000	0.000	0.000	0.000	1306.17
21	0.8038	1152.3	1172.7	2.229	10.577	53.515	30.147	3.188	0.075	0.230	0.010	0.026	0.003	0.000	0.000	0.000	0.000	0.000	1308.01
22	0.8070	1155.5	1176.0	2.296	10.580	53.046	30.458	3.251	0.081	0.248	0.010	0.026	0.004	0.000	0.000	0.000	0.000	0.000	1309.02
23	0.8059	1151.3	1171.7	2.271	10.768	53.203	30.157	3.229	0.081	0.250	0.010	0.027	0.003	0.000	0.000	0.000	0.000	0.000	1305.19
24	0.8047	1150.8	1171.2	2.194	10.799	53.479	29.848	3.291	0.084	0.262	0.011	0.029	0.004	0.000	0.000	0.000	0.000	0.000	1305.60
25	0.8035	1150.6	1171.0	2.153	10.759	53.625	29.843	3.232	0.084	0.260	0.011	0.030	0.003	0.000	0.000	0.000	0.000	0.000	1306.39
26	0.8030	1151.4	1171.8	2.045	10.832	53.556	29.985	3.205	0.082	0.254	0.011	0.028	0.004	0.000	0.000	0.000	0.000	0.000	1307.65
27	0.8021	1145.9	1166.1	2.032	11.103	53.695	29.582	3.211	0.082	0.253	0.011	0.029	0.004	0.000	0.000	0.000	0.000	0.000	1302.10
28	0.7980	1137.3	1157.4	1.906	11.439	54.192	29.017	3.077	0.080	0.247	0.011	0.028	0.004	0.000	0.000	0.000	0.000	0.000	1295.58
29	0.8017	1144.0	1164.2	2.055	11.152	53.795	29.390	3.228	0.083	0.255	0.011	0.028	0.004	0.000	0.000	0.000	0.000	0.000	1300.23
30	0.8033	1148.4	1168.8	2.025	11.070	53.695	29.380	3.441	0.085	0.261	0.011	0.028	0.003	0.000	0.000	0.000	0.000	0.000	1304.02
Avg	0.8038	1149.0	1169.8	2.223	10.756	53.514	29.961	3.188	0.079	0.241	0.010	0.026	0.003	0.000	0.000	0.000	0.000	0.000	1304.80

*** End of Report***

Zone 34

GQ Source Analysis

GQ Source Number:	1201140	Specific Gravity:	0.5730
GQ Source Name:	EAGLE 8B ND	BTU Base:	Dry
Effective Date:	6/19/2009 9:00:00 AM	Measured Heat Value:	977.81
Effective End Date:	1/18/2038 9:14:07 PM	Dry Heat Value:	977.72
Pressure Base:	14.730	Wet Heat Value:	960.70
Viscosity:		As Deliv. Heat Value:	977.72

		<u>Mol %</u>	<u>GPM</u>			<u>Mol %</u>
C1	Methane	95.826		CO2	Carbon Dioxide	0.096
C2	Ethane	0.305		N2	Nitrogen	3.757
C3	Propane	0.009	0.002	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%			0.005 GPM

Sample Date: 6/12/2009 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

THERMAL ZONE VARIANCE DOCUMENTATION		
April 2010		
<i>ZONE</i>	<i>BTU VARIANCE</i>	<i>REASON</i>
263	20	Higher BTU gas in area
28	123	Higher BTU gas coming from the North
32	-26	Lower BTU gas coming from the West