



MONTANA-DAKOTA

UTILITIES CO.

A Division of MDU Resources Group, Inc.

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

October 29, 2012

RECEIVED

OCT 30 2012

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

PUBLIC SERVICE COMMISSION

Re: Case No. 11,006 (Therm Billing)
Monthly Report – September 2012

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

1. Attachment A is a schedule showing the thermal billing factors by community that reflect the BTU values shown on Attachment B and were used for billing purposes in October 2012.
2. Attachment B consists of copies of the monthly Heating Value Test Reports received from our supplier for the month of September 2012. There is a report for each of the 17 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 September 2012.

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
Director of Regulatory Affairs

MONTANA-DAKOTA UTILITIES CO.
Therm Billing Factor
OCT 2012

Div Nbr	Off Code	City Name	Heat Zone Nbr	Therm Billing Factor
12	314	APPLE VALLEY	271	1.1318
12	323	BERTHOLD	262	1.1098
12	327	BISMARCK	28	1.1318
12	337	BURLINGTON	262	1.1338
12	343	CARRINGTON	273	1.1338
12	344	CLEVELAND	272	1.1258
12	364	CAVALIER	273	1.1576
12	365	DAWSON	271	1.1239
12	368	DES LACS	262	1.1178
12	374	FT TOTTEN	273	1.1417
12	375	DEVILS LAKE	273	1.1417
12	379	BARLOW	273	1.1338
12	387	ELDRIDGE	272	1.1338
12	411	GLEN ULLIN	31	1.0144
12	416	GARRISON	262	1.1178
12	417	GRAFTON	273	1.1656
12	439	HANKINSON	600	1.0926
12	449	JAMESTOWN	272	1.1417
12	463	LANGDON	273	1.1338
12	475	LINTON	802	.9919
12	478	LINCOLN	28	1.1318
12	494	MEDINA	271	1.1239
12	498	MANDAN	28	1.1318
12	505	MINOT	262	1.1338
12	512	MAX	262	1.1098
12	524	NEW SALEM	28	1.1079
12	532	NEW ROCKFORD	273	1.1338
12	539	PARK RIVER	273	1.1576
12	572	RUTHVILLE	262	1.1338
12	574	SANBORN	272	1.1417
12	593	STEELE	271	1.1239
12	598	SHEYENNE	273	1.1417
12	605	SURREY	262	1.1338
12	610	TAPPEN	271	1.1239
12	619	TURTLE LAKE	262	1.1178

MONTANA-DAKOTA UTILITIES CO.
Therm Billing Factor
OCT 2012

Div Nbr	Off Code	City Name	Heat Zone Nbr	Therm Billing Factor
12	624	UNDERWOOD	262	1.1178
12	625	VALLEY CITY	272	1.1496
12	629	WALHALLA	273	1.1576
12	646	WASHBURN	262	1.1258
12	647	WILTON	262	1.1098
12	664	RIVERDALE	262	1.1178
12	712	MINOT AFB	262	1.1338
12	717	SPIRITWOOD	272	1.1417
12	718	FAIRMOUNT	600	1.0904
12	732	MSR SITE	273	1.1338
12	733	PAR SITE	273	1.1338
15	303	ALEXANDER	25	1.1173
15	308	ARNEGARD	25	1.1173
15	318	BEACH	32	1.0452
15	319	BELFIELD	32	1.0528
15	330	BOWMAN	34	1.0421
15	369	DICKINSON	31	1.0071
15	384	EPPING	264	1.1306
15	407	GLADSTONE	31	1.0071
15	413	GOLVA	32	1.0299
15	429	HEBRON	31	1.0144
15	459	KILLDEER	33	1.1145
15	469	LEFOR	31	1.0071
15	474	LIGNITE	263	1.0864
15	500	MARMARTH	34	1.0498
15	510	MOTT	31	1.0071
15	522	NEW ENGLAND	31	.9998
15	540	PALERMO	262	1.1098
15	558	RAY	264	1.1306
15	561	REGENT	31	1.0071
15	563	RHAME	34	1.0344
15	564	RICHARDTON	31	.9998
15	568	ROSS	261	1.0971
15	583	SENTINEL BUTTE	32	1.0452
15	588	SOUTH HEART	31	.9998

MONTANA-DAKOTA UTILITIES CO.
Therm Billing Factor
OCT 2012

Div Nbr	Off Code	City Name	Heat Zone Nbr	Therm Billing Factor
15	590	SPRINGBROOK	264	1.1306
15	591	STANLEY	261	1.1051
15	611	TAYLOR	31	.9998
15	616	TIOGA	261	1.0971
15	620	TRENTON	24	1.1387
15	632	WATFORD CITY	25	1.1173
15	636	WHEELOCK	264	1.1224
15	637	WHITE EARTH	261	1.1051
15	642	WILLISTON	24	1.1387
15	691	FAIRVIEW	241	1.1330
15	743	BAKER FIELD	35	.8980

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

GQ Source Daily Summary

September 2012

Number: 251

Pressure Base: 14.730

Contract Day: 1

Name: SIDNEY BORDER

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	0.7321	1178.5	1199.3	1.131	3.883	68.759	22.108	3.733	0.121	0.234	0.015	0.013	0.004	0.000	0.000	0.000	0.000	1401.72	
2	0.7328	1179.5	1200.4	1.132	3.879	68.815	21.866	3.913	0.123	0.239	0.015	0.013	0.004	0.000	0.000	0.000	0.000	1402.33	
3	0.7337	1180.9	1201.8	1.145	3.868	68.734	21.936	3.847	0.139	0.285	0.022	0.020	0.006	0.000	0.000	0.000	0.000	1403.00	
4	0.7303	1175.3	1196.1	1.153	3.877	68.953	22.078	3.562	0.118	0.228	0.015	0.012	0.003	0.000	0.000	0.000	0.000	1399.62	
5	0.7321	1177.8	1198.6	1.164	3.873	68.897	21.959	3.618	0.150	0.296	0.021	0.018	0.004	0.000	0.000	0.000	0.000	1400.90	
6	0.7334	1180.5	1201.4	1.137	3.876	68.578	22.279	3.672	0.144	0.275	0.018	0.016	0.005	0.000	0.000	0.000	0.000	1402.85	
7	0.7315	1177.9	1198.7	1.124	3.879	68.673	22.415	3.501	0.128	0.248	0.015	0.013	0.004	0.000	0.000	0.000	0.000	1401.56	
8	0.7294	1173.9	1194.7	1.150	3.886	68.915	22.334	3.323	0.124	0.238	0.015	0.012	0.003	0.000	0.000	0.000	0.000	1398.83	
9	0.7321	1178.1	1199.0	1.148	3.879	68.797	22.112	3.606	0.143	0.278	0.018	0.016	0.004	0.000	0.000	0.000	0.000	1401.30	
10	0.7299	1174.8	1195.6	1.147	3.876	68.941	22.239	3.373	0.132	0.256	0.016	0.014	0.004	0.000	0.000	0.000	0.000	1399.49	
11	0.7287	1172.7	1193.5	1.165	3.865	68.965	22.412	3.199	0.124	0.239	0.015	0.013	0.003	0.000	0.000	0.000	0.000	1398.13	
12	0.7314	1177.3	1198.2	1.151	3.860	68.693	22.370	3.564	0.113	0.221	0.014	0.012	0.003	0.000	0.000	0.000	0.000	1401.02	
13	0.7339	1181.5	1202.4	1.145	3.848	68.631	22.109	3.813	0.135	0.275	0.021	0.019	0.005	0.000	0.000	0.000	0.000	1403.56	
14	0.7314	1177.0	1197.8	1.155	3.873	68.793	22.173	3.639	0.114	0.223	0.014	0.012	0.004	0.000	0.000	0.000	0.000	1400.60	
15	0.7317	1177.8	1198.6	1.150	3.858	68.841	22.041	3.733	0.117	0.229	0.014	0.012	0.004	0.000	0.000	0.000	0.000	1401.29	
16	0.7304	1176.2	1197.0	1.151	3.840	68.866	22.244	3.540	0.114	0.218	0.013	0.011	0.003	0.000	0.000	0.000	0.000	1400.58	
17	0.7321	1178.7	1199.6	1.154	3.840	68.669	22.291	3.688	0.113	0.218	0.014	0.011	0.003	0.000	0.000	0.000	0.000	1401.96	
18	0.7402	1191.8	1212.9	1.139	3.811	68.199	21.775	4.585	0.151	0.298	0.020	0.017	0.005	0.000	0.000	0.000	0.000	1409.80	
19	0.7321	1178.5	1199.3	1.149	3.863	68.706	22.199	3.719	0.114	0.222	0.014	0.012	0.003	0.000	0.000	0.000	0.000	1401.65	
20	0.7328	1179.7	1200.6	1.149	3.849	68.693	22.155	3.747	0.127	0.247	0.016	0.014	0.004	0.000	0.000	0.000	0.000	1402.46	
21	0.7329	1179.5	1200.4	1.145	3.872	68.752	21.996	3.820	0.131	0.252	0.015	0.013	0.003	0.000	0.000	0.000	0.000	1402.19	
22	0.7328	1180.8	1201.7	1.141	3.794	68.759	22.079	3.817	0.130	0.250	0.015	0.012	0.003	0.000	0.000	0.000	0.000	1403.79	
23	0.7351	1184.6	1205.6	1.143	3.772	68.567	22.062	4.011	0.140	0.270	0.017	0.014	0.004	0.000	0.000	0.000	0.000	1406.14	
24	0.7361	1185.9	1206.9	1.141	3.788	68.568	21.871	4.158	0.149	0.288	0.018	0.015	0.004	0.000	0.000	0.000	0.000	1406.73	
25	0.7379	1189.3	1210.4	1.138	3.756	68.357	21.983	4.271	0.154	0.301	0.019	0.016	0.004	0.000	0.000	0.000	0.000	1408.99	
26	0.7345	1183.5	1204.4	1.146	3.782	68.619	22.077	3.924	0.141	0.274	0.018	0.015	0.004	0.000	0.000	0.000	0.000	1405.32	
27	0.7353	1184.5	1205.5	1.146	3.792	68.516	22.115	3.976	0.143	0.277	0.017	0.015	0.004	0.000	0.000	0.000	0.000	1405.83	
28	0.7381	1189.0	1210.1	1.146	3.780	68.216	22.154	4.251	0.142	0.274	0.018	0.015	0.004	0.000	0.000	0.000	0.000	1408.47	
29	0.7374	1187.8	1208.8	1.144	3.792	68.378	21.982	4.232	0.148	0.286	0.018	0.016	0.004	0.000	0.000	0.000	0.000	1407.68	
30	0.7356	1184.7	1205.7	1.145	3.811	68.493	22.063	4.038	0.142	0.273	0.017	0.014	0.004	0.000	0.000	0.000	0.000	1405.75	
Avg	0.7333	1181.0	1201.5	1.146	3.841	68.678	22.116	3.796	0.132	0.257	0.016	0.014	0.004	0.000	0.000	0.000	0.000	1403.12	

Zone 211

GQ Source Daily Summary

September 2012

Number: 372

Pressure Base: 14.730

Contract Day: 1

Name: NESSON PLANT-WILLISTON STATION

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	0.7089	1176.9	1197.8	0.822	2.255	74.001	18.271	4.223	0.151	0.265	0.007	0.005	0.001	0.000	0.000	0.000	0.000	1422.58	
2	0.7096	1173.6	1194.3	0.803	2.561	72.956	19.788	3.549	0.117	0.208	0.006	0.005	0.006	0.000	0.000	0.000	0.000	1417.85	
3	0.7118	1173.9	1194.7	0.775	2.796	72.007	20.935	3.182	0.099	0.184	0.007	0.007	0.008	0.000	0.000	0.000	0.000	1416.05	
4	0.7102	1171.5	1192.2	0.817	2.736	71.704	21.912	2.561	0.080	0.162	0.008	0.009	0.012	0.000	0.000	0.000	0.000	1414.69	
5	0.7121	1177.9	1198.8	0.900	2.410	70.000	25.205	1.305	0.048	0.107	0.007	0.008	0.010	0.000	0.000	0.000	0.000	1420.56	
6	0.7107	1174.8	1195.7	0.903	2.465	69.899	25.612	0.956	0.039	0.097	0.009	0.010	0.010	0.000	0.000	0.000	0.000	1418.24	
7	0.7103	1175.1	1195.9	0.899	2.417	70.199	25.166	1.139	0.045	0.107	0.009	0.010	0.009	0.000	0.000	0.000	0.000	1418.91	
8	0.7103	1175.5	1196.4	0.899	2.382	70.104	25.411	1.025	0.043	0.107	0.010	0.011	0.008	0.000	0.000	0.000	0.000	1419.56	
9	0.7072	1170.1	1190.8	0.901	2.430	70.414	25.272	0.878	0.024	0.061	0.006	0.007	0.007	0.000	0.000	0.000	0.000	1415.96	
10	0.7119	1177.3	1198.1	0.900	2.431	69.994	25.208	1.300	0.044	0.100	0.007	0.008	0.006	0.000	0.000	0.000	0.000	1419.96	
11	0.7127	1179.2	1200.1	0.889	2.399	70.519	24.118	1.823	0.074	0.154	0.009	0.010	0.005	0.000	0.000	0.000	0.000	1421.50	
12	0.7076	1170.7	1191.5	0.897	2.424	70.474	25.140	0.909	0.038	0.093	0.009	0.010	0.005	0.000	0.000	0.000	0.000	1416.46	
13	0.7049	1163.6	1184.2	0.919	2.585	70.713	24.964	0.705	0.028	0.068	0.006	0.007	0.004	0.000	0.000	0.000	0.000	1410.38	
14	0.7066	1168.4	1189.1	0.911	2.461	70.914	24.411	1.136	0.047	0.102	0.008	0.008	0.004	0.000	0.000	0.000	0.000	1414.49	
15	0.7083	1171.8	1192.6	0.900	2.421	70.308	25.333	0.883	0.038	0.094	0.009	0.010	0.004	0.000	0.000	0.000	0.000	1417.05	
16	0.7114	1176.6	1197.5	0.899	2.419	69.950	25.459	1.081	0.049	0.119	0.010	0.011	0.004	0.000	0.000	0.000	0.000	1419.79	
17	0.7091	1172.9	1193.7	0.894	2.434	70.343	25.101	1.056	0.045	0.105	0.008	0.009	0.004	0.000	0.000	0.000	0.000	1417.62	
18	0.7106	1175.4	1196.2	0.892	2.438	70.317	24.855	1.296	0.052	0.123	0.010	0.011	0.004	0.000	0.000	0.000	0.000	1418.95	
19	0.7069	1169.2	1189.9	0.896	2.451	70.820	24.593	1.050	0.049	0.116	0.010	0.011	0.004	0.000	0.000	0.000	0.000	1415.32	
20	0.7116	1177.7	1198.6	0.886	2.385	70.844	23.717	1.921	0.073	0.152	0.009	0.010	0.003	0.000	0.000	0.000	0.000	1420.85	
21	0.7103	1174.2	1195.0	0.901	2.464	70.177	25.178	1.075	0.051	0.127	0.011	0.012	0.004	0.000	0.000	0.000	0.000	1417.90	
22	0.7103	1174.4	1195.2	0.900	2.449	70.298	24.984	1.152	0.054	0.133	0.012	0.014	0.005	0.000	0.000	0.000	0.000	1418.18	
23	0.7119	1179.7	1200.6	0.862	2.317	72.335	20.824	3.331	0.113	0.203	0.007	0.007	0.002	0.000	0.000	0.000	0.000	1422.94	
24	0.7113	1180.5	1201.4	0.832	2.247	73.583	18.571	4.392	0.138	0.229	0.005	0.004	0.000	0.000	0.000	0.000	0.000	1424.50	
25	0.7103	1179.4	1200.3	0.830	2.224	73.574	18.789	4.239	0.128	0.209	0.004	0.003	0.000	0.000	0.000	0.000	0.000	1424.19	
26	0.7146	1185.7	1206.7	0.834	2.236	73.087	18.925	4.517	0.146	0.244	0.006	0.004	0.000	0.000	0.000	0.000	0.000	1427.47	
27	0.7123	1182.8	1203.8	0.818	2.226	73.490	18.584	4.482	0.145	0.245	0.006	0.004	0.000	0.000	0.000	0.000	0.000	1426.24	
28	0.7115	1181.3	1202.2	0.822	2.233	73.567	18.595	4.387	0.144	0.242	0.005	0.004	0.000	0.000	0.000	0.000	0.000	1425.26	
29	0.7139	1185.5	1206.5	0.826	2.194	73.316	18.676	4.564	0.153	0.259	0.006	0.004	0.000	0.000	0.000	0.000	0.000	1427.95	
30	0.7111	1180.9	1201.8	0.833	2.207	73.604	18.625	4.338	0.144	0.241	0.005	0.004	0.000	0.000	0.000	0.000	0.000	1425.13	
Avg	0.7103	1176.0	1196.7	0.869	2.403	71.450	22.741	2.282	0.080	0.155	0.008	0.008	0.004	0.000	0.000	0.000	0.000	1419.88	

Zone 24, 264

GQ Source Analysis

WBI Energy Transmission, Inc.

Attachment B
Page 3 of 16

GQ Source Number:	0602160	Specific Gravity:	0.7276
GQ Source Name:	FAIRVIEW BORDER	Dry Heat Value:	1191.00
Effective Date:	9/1/2012 9:00:00 AM	Wet Heat Value:	1170.27
Effective End Date:	1/18/2038 9:14:07 PM	As Deliv. Heat Value:	1191.00
Pressure Base:	14.730	Sample Pressure:	0.00
Viscosity:		Sample Temperature:	

	<u>Mol %</u>	<u>Liquid Content</u>			<u>Mol %</u>	
C1	Methane	69.261		CO2	Carbon Dioxide	1.156
C2	Ethane	21.670	5.7783	N2	Nitrogen	3.889
C3	Propane	3.627	0.9963	O2	Oxygen	0.000
IC4	Isobutane	0.124	0.0406	He	Helium	
NC4	n-Butane	0.243	0.0766	H2	Hydrogen	
IC5	Isopentane	0.015	0.0053	H2S	Hydrogen Sulfide	
NC5	n-Pentane	0.013	0.0046	Ar	Argon	
C6	Hexanes	0.001	0.0005	CO	Carbon Monoxide	
C7	Heptanes			H2	Water	
C8	Octanes			Neo-C5	Neopentane	
C9	Nonanes					
C10	Decanes					
Totals			100.000%			6.902 GPM

Sample Date: 9/30/2012 12:00:00 AM
Sample Type: Composite
Sample Tech: sampler
H2S: ppm

Sample Remarks:

Analysis Tech: Lab

Analysis Remarks:

Zone 241

GQ Source Analysis

WBI Energy Transmission, Inc.

Attachment B
Page 4 of 16

GQ Source Number:	0602230	Specific Gravity:	0.7034
GQ Source Name:	WATFORD CITY BORDER	Dry Heat Value:	1182.66
Effective Date:	9/1/2012 9:00:00 AM	Wet Heat Value:	1162.07
Effective End Date:	1/18/2038 9:14:07 PM	As Deliv. Heat Value:	1182.66
Pressure Base:	14.730	Sample Pressure:	0.00
Viscosity:		Sample Temperature:	

	<u>Mol %</u>	<u>Liquid Content</u>		<u>Mol %</u>
C1 Methane	71.304		CO2 Carbon Dioxide	0.879
C2 Ethane	23.913	6.3763	N2 Nitrogen	2.549
C3 Propane	1.172	0.3219	O2 Oxygen	0.000
IC4 Isobutane	0.047	0.0155	He Helium	
NC4 n-Butane	0.110	0.0347	H2 Hydrogen	
IC5 Isopentane	0.010	0.0036	H2S Hydrogen Sulfide	
NC5 n-Pentane	0.011	0.0040	Ar Argon	
C6 Hexanes	0.004	0.0017	CO Carbon Monoxide	
C7 Heptanes			H2 Water	
C8 Octanes			Neo-C5 Neopentane	
C9 Nonanes				
C10 Decanes				

Totals 100.000% 6.758 GPM

Sample Date: 9/30/2012 12:00:00 AM
Sample Type: Composite
Sample Tech: sampler
H2S: ppm

Sample Remarks:

Analysis Tech: Lab

Analysis Remarks:

Zone 25

GQ Source Daily Summary

September 2012

Number: 163

Pressure Base: 14.730

Contract Day: 1

Name: NORTH TIOGA-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	0.6881	1136.8	1157.0	0.409	3.391	74.836	19.312	1.885	0.048	0.089	0.006	0.007	0.018					1394.76	
2	0.6929	1146.2	1166.5	0.479	3.156	74.541	19.288	2.285	0.074	0.142	0.010	0.011	0.014					1401.44	
3	0.6959	1150.8	1171.2	0.482	3.159	74.130	19.528	2.410	0.083	0.166	0.012	0.014	0.015					1403.93	
4	0.6949	1149.3	1169.6	0.478	3.159	74.226	19.553	2.290	0.083	0.170	0.012	0.015	0.014					1403.15	
5	0.6923	1144.8	1165.1	0.482	3.187	74.472	19.531	2.054	0.074	0.155	0.013	0.015	0.017					1400.28	
6	0.6912	1143.4	1163.7	0.482	3.170	74.588	19.508	2.006	0.067	0.139	0.011	0.014	0.014					1399.66	
7	0.6929	1145.2	1165.5	0.492	3.202	74.355	19.628	2.061	0.070	0.147	0.013	0.016	0.015					1400.15	
8	0.6931	1145.5	1165.8	0.489	3.206	74.350	19.585	2.108	0.070	0.147	0.013	0.017	0.015					1400.36	
9	0.6970	1151.8	1172.2	0.485	3.198	74.034	19.557	2.361	0.089	0.203	0.021	0.028	0.024					1404.02	
10	0.7004	1157.0	1177.5	0.497	3.177	73.539	19.927	2.462	0.097	0.224	0.023	0.030	0.024					1406.99	
11	0.6961	1150.6	1171.0	0.486	3.182	73.905	19.993	2.095	0.083	0.189	0.020	0.026	0.021					1403.55	
12	0.6964	1151.6	1172.0	0.485	3.148	74.118	19.567	2.321	0.093	0.202	0.019	0.025	0.022					1404.45	
13	0.6968	1152.6	1173.0	0.478	3.141	74.053	19.585	2.408	0.089	0.188	0.016	0.021	0.021					1405.22	
14	0.6979	1154.5	1175.0	0.471	3.137	73.991	19.536	2.500	0.092	0.200	0.020	0.026	0.027					1406.45	
15	0.6970	1153.1	1173.5	0.474	3.134	74.015	19.653	2.378	0.088	0.190	0.019	0.026	0.023					1405.62	
16	0.6938	1148.2	1168.6	0.481	3.122	74.338	19.601	2.157	0.081	0.171	0.015	0.019	0.016					1402.91	
17	0.6964	1151.8	1172.2	0.481	3.145	74.054	19.645	2.351	0.088	0.182	0.016	0.020	0.017					1404.64	
18	0.6974	1153.7	1174.1	0.479	3.133	73.914	19.721	2.438	0.083	0.174	0.016	0.021	0.020					1405.88	
19	0.6937	1147.8	1168.2	0.481	3.137	74.286	19.680	2.140	0.074	0.154	0.014	0.018	0.015					1402.52	
20	0.6943	1148.5	1168.8	0.485	3.149	74.392	19.357	2.315	0.083	0.169	0.015	0.019	0.015					1402.68	
21	0.6944	1149.3	1169.7	0.488	3.103	74.311	19.535	2.268	0.081	0.167	0.014	0.017	0.014					1403.60	
22	0.6971	1153.7	1174.1	0.481	3.102	74.024	19.636	2.403	0.093	0.200	0.019	0.024	0.018					1406.17	
23	0.6968	1153.1	1173.5	0.478	3.111	74.152	19.471	2.417	0.094	0.207	0.021	0.028	0.021					1405.78	
24	0.6974	1153.9	1174.3	0.464	3.135	74.164	19.326	2.523	0.097	0.214	0.022	0.030	0.024					1406.19	
25	0.6947	1149.2	1169.5	0.473	3.160	74.486	19.151	2.371	0.092	0.202	0.020	0.027	0.019					1403.15	
26	0.6976	1153.4	1173.8	0.454	3.199	74.122	19.332	2.475	0.101	0.232	0.025	0.034	0.025					1405.41	
27	0.6978	1153.9	1174.4	0.467	3.170	74.143	19.270	2.522	0.108	0.242	0.023	0.030	0.020					1405.79	
28	0.6968	1153.0	1173.4	0.438	3.176	74.255	19.219	2.510	0.102	0.227	0.022	0.030	0.020					1405.68	
29	0.6947	1149.5	1169.9	0.466	3.153	74.368	19.330	2.372	0.085	0.176	0.016	0.020	0.016					1403.53	
30	0.6945	1149.2	1169.6	0.473	3.139	74.331	19.454	2.299	0.083	0.174	0.015	0.018	0.014					1403.41	
Avg	0.6954	1150.0	1170.4	0.475	3.163	74.216	19.516	2.306	0.085	0.181	0.017	0.022	0.019					1403.58	

Zone 261

GQ Source Daily Summary

September 2012

Number: 091

Pressure Base: 14.730

Contract Day: 1

Name: MINOT BORDER

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	0.7083	1151.9	1172.3	0.423	4.342	71.663	20.527	2.766	0.081	0.179	0.009	0.011	0.000	0.000	0.000	0.000	0.000	1393.03	
2	0.7101	1155.0	1175.5	0.454	4.282	71.260	20.998	2.745	0.077	0.166	0.008	0.009	0.001	0.000	0.000	0.000	0.000	1394.92	
3	0.7180	1159.5	1180.1	0.492	4.691	69.888	21.671	2.986	0.080	0.176	0.007	0.009	0.001	0.000	0.000	0.000	0.000	1392.67	
4	0.7001	1148.6	1168.9	0.453	3.731	72.924	20.302	2.381	0.065	0.135	0.004	0.005	0.000	0.000	0.000	0.000	0.000	1397.11	
5	0.6957	1150.5	1170.8	0.504	3.125	74.054	19.683	2.388	0.078	0.154	0.006	0.008	0.000	0.000	0.000	0.000	0.000	1403.76	
6	0.6983	1154.5	1174.9	0.497	3.135	73.690	19.924	2.464	0.088	0.181	0.009	0.011	0.002	0.000	0.000	0.000	0.000	1406.03	
7	0.6951	1149.1	1169.4	0.506	3.153	74.031	19.841	2.203	0.078	0.165	0.008	0.011	0.003	0.000	0.000	0.000	0.000	1402.66	
8	0.6946	1148.3	1168.7	0.511	3.146	74.053	19.901	2.133	0.074	0.158	0.009	0.011	0.003	0.000	0.000	0.000	0.000	1402.23	
9	0.6923	1144.5	1164.7	0.516	3.162	74.265	19.882	1.951	0.066	0.141	0.007	0.010	0.000	0.000	0.000	0.000	0.000	1399.80	
10	0.6959	1149.5	1169.9	0.517	3.181	73.823	20.066	2.152	0.075	0.161	0.010	0.014	0.002	0.000	0.000	0.000	0.000	1402.45	
11	0.6952	1148.6	1168.9	0.515	3.177	73.945	19.961	2.150	0.072	0.154	0.010	0.013	0.003	0.000	0.000	0.000	0.000	1401.99	
12	0.7009	1157.6	1178.1	0.519	3.164	73.387	20.084	2.463	0.098	0.229	0.020	0.027	0.010	0.000	0.000	0.000	0.000	1407.09	
13	0.6981	1153.5	1174.0	0.509	3.165	73.497	20.376	2.121	0.084	0.198	0.018	0.025	0.009	0.000	0.000	0.000	0.000	1405.01	
14	0.6988	1155.2	1175.7	0.509	3.124	73.668	19.961	2.381	0.096	0.214	0.016	0.022	0.008	0.000	0.000	0.000	0.000	1406.36	
15	0.7003	1158.0	1178.5	0.506	3.096	73.603	19.845	2.568	0.104	0.231	0.017	0.022	0.008	0.000	0.000	0.000	0.000	1408.25	
16	0.6994	1156.2	1176.7	0.507	3.118	73.586	19.987	2.475	0.090	0.198	0.015	0.019	0.006	0.000	0.000	0.000	0.000	1407.02	
17	0.6974	1153.5	1174.0	0.505	3.102	73.733	20.074	2.280	0.085	0.187	0.013	0.017	0.005	0.000	0.000	0.000	0.000	1405.73	
18	0.7006	1159.2	1179.7	0.506	3.051	73.499	20.060	2.488	0.109	0.242	0.018	0.022	0.006	0.000	0.000	0.000	0.000	1409.44	
19	0.6991	1155.8	1176.3	0.506	3.119	73.573	20.049	2.431	0.092	0.196	0.012	0.017	0.005	0.000	0.000	0.000	0.000	1406.79	
20	0.7019	1159.8	1180.3	0.550	3.074	73.104	20.483	2.450	0.092	0.204	0.015	0.020	0.007	0.000	0.000	0.000	0.000	1408.81	
21	0.6969	1153.0	1173.4	0.495	3.100	73.794	20.031	2.297	0.083	0.175	0.010	0.013	0.002	0.000	0.000	0.000	0.000	1405.60	
22	0.6985	1155.3	1175.8	0.511	3.084	73.725	19.909	2.448	0.091	0.195	0.013	0.017	0.006	0.000	0.000	0.000	0.000	1406.82	
23	0.6989	1156.2	1176.7	0.512	3.059	73.597	20.121	2.387	0.092	0.198	0.013	0.017	0.004	0.000	0.000	0.000	0.000	1407.59	
24	0.7004	1158.1	1178.6	0.511	3.092	73.519	19.990	2.518	0.102	0.223	0.016	0.022	0.008	0.000	0.000	0.000	0.000	1408.27	
25	0.7008	1158.9	1179.5	0.506	3.083	73.509	19.967	2.546	0.104	0.233	0.018	0.025	0.009	0.000	0.000	0.000	0.000	1408.94	
26	0.7000	1157.3	1177.8	0.497	3.120	73.774	19.586	2.615	0.105	0.241	0.020	0.028	0.013	0.000	0.000	0.000	0.000	1407.74	
27	0.6988	1155.4	1175.9	0.494	3.134	73.837	19.654	2.487	0.103	0.234	0.020	0.027	0.010	0.000	0.000	0.000	0.000	1406.59	
28	0.7034	1162.4	1182.9	0.485	3.146	73.374	19.775	2.725	0.122	0.291	0.028	0.039	0.015	0.000	0.000	0.000	0.000	1410.50	
29	0.6995	1156.2	1176.6	0.495	3.145	73.772	19.645	2.547	0.105	0.237	0.020	0.026	0.008	0.000	0.000	0.000	0.000	1406.89	
30	0.7012	1159.2	1179.7	0.478	3.145	73.641	19.624	2.662	0.116	0.267	0.023	0.031	0.011	0.000	0.000	0.000	0.000	1408.86	
Avg	0.6999	1155.0	1175.1	0.500	3.275	73.393	20.066	2.440	0.090	0.199	0.014	0.018	0.006	0.000	0.000	0.000	0.000	1404.63	

Zone 262

GQ Source Analysis

WBI Energy Transmission, Inc.

Attachment B
Page 7 of 16

GQ Source Number:	2501030	Specific Gravity:	0.6784
GQ Source Name:	LIGNITE PLANT	Dry Heat Value:	1141.92
Effective Date:	9/1/2012 9:00:00 AM	Wet Heat Value:	1122.05
Effective End Date:	1/18/2038 9:14:07 PM	As Deliv. Heat Value:	1141.92
Pressure Base:	14.730	Sample Pressure:	0.00
Viscosity:		Sample Temperature:	

		<u>Mol %</u>	<u>Liquid Content</u>			<u>Mol %</u>
C1	Methane	75.853		CO2	Carbon Dioxide	0.127
C2	Ethane	18.435	4.9157	N2	Nitrogen	3.784
C3	Propane	1.758	0.4831	O2	Oxygen	0.000
IC4	Isobutane	0.014	0.0045	He	Helium	
NC4	n-Butane	0.005	0.0014	H2	Hydrogen	
IC5	Isopentane	0.000	0.0000	H2S	Hydrogen Sulfide	
NC5	n-Pentane	0.000	0.0000	Ar	Argon	
C6	Hexanes	0.023	0.0107	CO	Carbon Monoxide	
C7	Heptanes			H2	Water	
C8	Octanes			Neo-C5	Neopentane	
C9	Nonanes					
C10	Decanes					

Totals 100.000% 5.415 GPM

Sample Date: 9/30/2012 12:00:00 AM
Sample Type: Composite
Sample Tech: sampler
H2S: ppm

Sample Remarks:

Analysis Tech: Lab

Analysis Remarks:

Zone 263

*** End of Report ***

GQ Source Daily Summary

September 2012

Number: 043

Pressure Base: 14.730

Contract Day: 1

Name: BISMARCK STATION-CLEVELAND STATION

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	0.7066	1150.5	1170.9	0.414	4.285	71.857	20.532	2.681	0.063	0.131	0.007	0.008	0.021	0.000	0.000	0.000	0.000	1393.04	
2	0.6922	1144.5	1164.7	0.483	3.195	74.581	19.288	2.232	0.061	0.116	0.007	0.008	0.028	0.000	0.000	0.000	0.000	1399.94	
3	0.6945	1148.8	1169.2	0.511	3.100	74.357	19.441	2.310	0.077	0.156	0.010	0.013	0.025	0.000	0.000	0.000	0.000	1402.99	
4	0.6977	1153.9	1174.3	0.504	3.099	73.969	19.625	2.469	0.090	0.188	0.013	0.015	0.026	0.000	0.000	0.000	0.000	1405.96	
5	0.6932	1146.6	1166.9	0.503	3.129	74.451	19.484	2.150	0.075	0.157	0.011	0.014	0.025	0.000	0.000	0.000	0.000	1401.57	
6	0.6938	1147.7	1168.0	0.510	3.110	74.340	19.626	2.121	0.075	0.161	0.013	0.016	0.027	0.000	0.000	0.000	0.000	1402.25	
7	0.6908	1142.6	1162.9	0.510	3.141	74.644	19.533	1.921	0.064	0.137	0.011	0.014	0.024	0.000	0.000	0.000	0.000	1399.07	
8	0.6940	1147.2	1167.5	0.515	3.155	74.267	19.662	2.117	0.072	0.156	0.013	0.017	0.026	0.000	0.000	0.000	0.000	1401.41	
9	0.6936	1146.8	1167.1	0.510	3.148	74.369	19.540	2.159	0.070	0.150	0.012	0.016	0.026	0.000	0.000	0.000	0.000	1401.34	
10	0.7002	1157.0	1177.5	0.514	3.133	73.814	19.554	2.528	0.105	0.252	0.027	0.035	0.038	0.000	0.000	0.000	0.000	1407.19	
11	0.6994	1155.5	1176.0	0.511	3.159	73.451	20.307	2.204	0.083	0.201	0.021	0.028	0.035	0.000	0.000	0.000	0.000	1406.14	
12	0.6974	1153.7	1174.1	0.506	3.089	73.942	19.808	2.288	0.089	0.199	0.019	0.026	0.035	0.000	0.000	0.000	0.000	1405.92	
13	0.6987	1155.8	1176.3	0.506	3.077	73.894	19.686	2.434	0.101	0.227	0.020	0.025	0.031	0.000	0.000	0.000	0.000	1407.25	
14	0.6985	1155.4	1175.8	0.506	3.089	73.888	19.674	2.484	0.089	0.197	0.018	0.022	0.034	0.000	0.000	0.000	0.000	1406.87	
15	0.6977	1154.2	1174.7	0.498	3.090	74.092	19.473	2.466	0.094	0.209	0.019	0.024	0.036	0.000	0.000	0.000	0.000	1406.35	
16	0.6974	1154.0	1174.5	0.502	3.071	73.957	19.785	2.331	0.087	0.194	0.017	0.022	0.034	0.000	0.000	0.000	0.000	1406.39	
17	0.6978	1155.0	1175.4	0.504	3.044	73.996	19.683	2.388	0.099	0.217	0.018	0.023	0.027	0.000	0.000	0.000	0.000	1407.15	
18	0.6967	1152.4	1172.8	0.502	3.101	74.074	19.591	2.425	0.083	0.172	0.012	0.015	0.025	0.000	0.000	0.000	0.000	1405.15	
19	0.6998	1157.1	1177.5	0.536	3.057	73.574	20.080	2.397	0.089	0.196	0.017	0.022	0.031	0.000	0.000	0.000	0.000	1407.67	
20	0.6945	1149.5	1169.9	0.499	3.078	74.290	19.604	2.244	0.079	0.160	0.011	0.014	0.022	0.000	0.000	0.000	0.000	1403.81	
21	0.6984	1155.5	1175.9	0.511	3.066	73.938	19.625	2.485	0.097	0.212	0.017	0.022	0.027	0.000	0.000	0.000	0.000	1407.07	
22	0.6961	1152.5	1172.9	0.508	3.039	74.086	19.753	2.299	0.083	0.175	0.014	0.017	0.024	0.000	0.000	0.000	0.000	1405.75	
23	0.6981	1155.2	1175.6	0.511	3.055	74.024	19.547	2.470	0.100	0.222	0.019	0.024	0.028	0.000	0.000	0.000	0.000	1407.03	
24	0.6986	1156.0	1176.5	0.497	3.071	74.010	19.491	2.516	0.103	0.232	0.021	0.027	0.032	0.000	0.000	0.000	0.000	1407.57	
25	0.6970	1153.1	1173.5	0.497	3.099	74.377	19.059	2.553	0.103	0.230	0.021	0.027	0.034	0.000	0.000	0.000	0.000	1405.60	
26	0.6970	1152.8	1173.3	0.484	3.131	74.203	19.364	2.409	0.100	0.229	0.022	0.028	0.030	0.000	0.000	0.000	0.000	1405.34	
27	0.6988	1155.9	1176.4	0.488	3.109	74.061	19.342	2.563	0.106	0.243	0.024	0.032	0.034	0.000	0.000	0.000	0.000	1407.22	
28	0.6998	1157.1	1177.6	0.490	3.124	74.000	19.277	2.637	0.115	0.265	0.026	0.034	0.032	0.000	0.000	0.000	0.000	1407.70	
29	0.6960	1152.3	1172.7	0.459	3.105	74.303	19.357	2.404	0.096	0.207	0.018	0.023	0.028	0.000	0.000	0.000	0.000	1405.72	
30	0.6967	1152.8	1173.2	0.496	3.091	74.205	19.408	2.441	0.091	0.199	0.018	0.023	0.029	0.000	0.000	0.000	0.000	1405.53	
Avg	0.6970	1152.0	1172.8	0.499	3.141	74.034	19.607	2.371	0.088	0.193	0.017	0.021	0.029	0.000	0.000	0.000	0.000	1404.73	

Zone 271

GQ Source Daily Summary

September 2012

Number: 063

Pressure Base: 14.730

Contract Day: 1

Name: CLEVELAND STATION-MAPLETON LINE

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	0.7218	1165.2	1185.8	0.492	4.700	69.571	21.621	3.286	0.089	0.196	0.013	0.014	0.019	0.000	0.000	0.000	0.000	1395.79	
2	0.6946	1143.5	1163.7	0.413	3.593	73.759	19.938	2.104	0.052	0.103	0.006	0.008	0.023	0.000	0.000	0.000	0.000	1396.33	
3	0.6945	1148.7	1169.0	0.508	3.121	74.275	19.546	2.288	0.073	0.143	0.009	0.010	0.026	0.000	0.000	0.000	0.000	1402.72	
4	0.6965	1151.5	1171.9	0.509	3.126	74.012	19.712	2.346	0.079	0.164	0.012	0.014	0.025	0.000	0.000	0.000	0.000	1404.27	
5	0.6977	1153.8	1174.2	0.510	3.108	73.847	19.836	2.374	0.088	0.185	0.013	0.015	0.024	0.000	0.000	0.000	0.000	1405.69	
6	0.6945	1148.3	1168.6	0.515	3.135	74.168	19.789	2.099	0.077	0.164	0.013	0.016	0.025	0.000	0.000	0.000	0.000	1402.26	
7	0.6934	1146.8	1167.1	0.511	3.125	74.290	19.760	2.047	0.069	0.148	0.012	0.015	0.024	0.000	0.000	0.000	0.000	1401.57	
8	0.6942	1147.5	1167.9	0.519	3.145	74.152	19.852	2.057	0.070	0.152	0.013	0.017	0.024	0.000	0.000	0.000	0.000	1401.65	
9	0.6950	1148.5	1168.8	0.517	3.161	74.071	19.850	2.118	0.071	0.156	0.013	0.017	0.024	0.000	0.000	0.000	0.000	1402.04	
10	0.6978	1153.0	1173.5	0.511	3.158	73.842	19.817	2.323	0.084	0.194	0.019	0.024	0.028	0.000	0.000	0.000	0.000	1404.74	
11	0.7031	1161.4	1181.9	0.527	3.120	73.272	20.044	2.591	0.104	0.248	0.025	0.033	0.035	0.000	0.000	0.000	0.000	1409.56	
12	0.6976	1152.9	1173.3	0.507	3.154	73.639	20.295	2.046	0.082	0.195	0.021	0.028	0.034	0.000	0.000	0.000	0.000	1404.78	
13	0.6989	1155.6	1176.1	0.516	3.093	73.765	19.880	2.355	0.096	0.216	0.020	0.026	0.033	0.000	0.000	0.000	0.000	1406.82	
14	0.6985	1155.2	1175.7	0.511	3.090	73.815	19.799	2.431	0.091	0.198	0.016	0.020	0.028	0.000	0.000	0.000	0.000	1406.69	
15	0.7011	1159.5	1180.0	0.502	3.082	73.573	19.853	2.580	0.099	0.226	0.021	0.028	0.035	0.000	0.000	0.000	0.000	1409.31	
16	0.7000	1157.8	1178.3	0.502	3.086	73.641	19.911	2.473	0.094	0.212	0.020	0.027	0.034	0.000	0.000	0.000	0.000	1408.30	
17	0.6963	1152.1	1172.5	0.507	3.073	73.973	19.932	2.193	0.082	0.179	0.015	0.018	0.027	0.000	0.000	0.000	0.000	1405.20	
18	0.6994	1156.9	1177.4	0.508	3.076	73.687	19.919	2.429	0.097	0.215	0.018	0.023	0.027	0.000	0.000	0.000	0.000	1407.84	
19	0.7001	1157.8	1178.3	0.513	3.076	73.542	20.009	2.533	0.086	0.183	0.015	0.018	0.025	0.000	0.000	0.000	0.000	1408.28	
20	0.6986	1155.4	1175.8	0.532	3.063	73.587	20.241	2.245	0.084	0.185	0.016	0.020	0.027	0.000	0.000	0.000	0.000	1406.73	
21	0.6976	1154.0	1174.5	0.506	3.087	73.897	19.791	2.390	0.088	0.184	0.015	0.019	0.024	0.000	0.000	0.000	0.000	1406.13	
22	0.6971	1153.5	1173.9	0.513	3.060	73.947	19.821	2.339	0.085	0.179	0.014	0.018	0.024	0.000	0.000	0.000	0.000	1406.00	
23	0.6996	1157.7	1178.2	0.511	3.044	73.672	19.943	2.452	0.097	0.212	0.019	0.024	0.026	0.000	0.000	0.000	0.000	1408.56	
24	0.7001	1158.1	1178.6	0.517	3.055	73.714	19.797	2.504	0.102	0.232	0.023	0.029	0.028	0.000	0.000	0.000	0.000	1408.57	
25	0.7005	1158.7	1179.2	0.495	3.082	73.712	19.705	2.589	0.102	0.232	0.022	0.029	0.032	0.000	0.000	0.000	0.000	1408.99	
26	0.6977	1153.9	1174.4	0.501	3.103	74.091	19.470	2.436	0.099	0.224	0.021	0.027	0.028	0.000	0.000	0.000	0.000	1405.98	
27	0.7005	1158.1	1178.6	0.489	3.134	73.730	19.648	2.544	0.108	0.254	0.027	0.035	0.032	0.000	0.000	0.000	0.000	1408.17	
28	0.6994	1156.5	1176.9	0.497	3.117	73.896	19.523	2.538	0.106	0.242	0.023	0.030	0.029	0.000	0.000	0.000	0.000	1407.31	
29	0.7006	1158.9	1179.5	0.467	3.119	73.798	19.518	2.637	0.113	0.260	0.025	0.033	0.029	0.000	0.000	0.000	0.000	1409.15	
30	0.6965	1152.2	1172.6	0.499	3.103	74.096	19.595	2.389	0.085	0.178	0.014	0.018	0.023	0.000	0.000	0.000	0.000	1405.02	
Avg	0.6988	1154.0	1174.9	0.504	3.173	73.701	19.881	2.391	0.088	0.195	0.017	0.022	0.027	0.000	0.000	0.000	0.000	1405.48	

Zone 272

GQ Source Daily Summary

September 2012

Number: 061

Pressure Base: 14.730

Contract Day: 1

Name: CLEVELAND STATION-GRAFTON BORDER

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	0.7220	1165.5	1186.1	0.493	4.695	69.556	21.629	3.297	0.088	0.196	0.013	0.014	0.020	0.000	0.000	0.000	0.000	1395.99	
2	0.6949	1144.1	1164.3	0.414	3.585	73.716	19.972	2.121	0.052	0.103	0.006	0.007	0.023	0.000	0.000	0.000	0.000	1396.73	
3	0.6947	1148.8	1169.2	0.509	3.124	74.255	19.557	2.293	0.073	0.144	0.009	0.010	0.026	0.000	0.000	0.000	0.000	1402.78	
4	0.6964	1151.5	1171.9	0.511	3.122	74.024	19.700	2.350	0.079	0.164	0.012	0.014	0.025	0.000	0.000	0.000	0.000	1404.28	
5	0.6978	1153.9	1174.4	0.509	3.106	73.830	19.853	2.375	0.088	0.185	0.013	0.015	0.024	0.000	0.000	0.000	0.000	1405.82	
6	0.6946	1148.5	1168.8	0.512	3.138	74.146	19.805	2.102	0.077	0.165	0.013	0.016	0.025	0.000	0.000	0.000	0.000	1402.37	
7	0.6935	1147.0	1167.3	0.514	3.118	74.287	19.754	2.058	0.070	0.148	0.012	0.015	0.024	0.000	0.000	0.000	0.000	1401.72	
8	0.6941	1147.4	1167.7	0.519	3.146	74.155	19.859	2.046	0.070	0.152	0.013	0.016	0.024	0.000	0.000	0.000	0.000	1401.58	
9	0.6950	1148.5	1168.8	0.516	3.159	74.068	19.862	2.112	0.071	0.156	0.014	0.017	0.025	0.000	0.000	0.000	0.000	1402.10	
10	0.6979	1153.1	1173.6	0.511	3.156	73.842	19.811	2.329	0.085	0.195	0.019	0.024	0.028	0.000	0.000	0.000	0.000	1404.81	
11	0.7034	1161.9	1182.4	0.528	3.113	73.234	20.082	2.594	0.104	0.250	0.026	0.034	0.035	0.000	0.000	0.000	0.000	1409.91	
12	0.6977	1153.2	1173.6	0.508	3.149	73.613	20.330	2.041	0.081	0.195	0.021	0.028	0.034	0.000	0.000	0.000	0.000	1404.97	
13	0.6990	1155.7	1176.1	0.521	3.090	73.767	19.867	2.362	0.096	0.217	0.020	0.027	0.033	0.000	0.000	0.000	0.000	1406.79	
14	0.6988	1155.7	1176.2	0.511	3.086	73.780	19.825	2.440	0.092	0.198	0.017	0.021	0.029	0.000	0.000	0.000	0.000	1407.01	
15	0.7009	1159.2	1179.8	0.502	3.081	73.609	19.823	2.575	0.099	0.227	0.021	0.028	0.035	0.000	0.000	0.000	0.000	1409.19	
16	0.7001	1157.9	1178.4	0.503	3.084	73.630	19.921	2.473	0.096	0.215	0.020	0.026	0.034	0.000	0.000	0.000	0.000	1408.41	
17	0.6963	1152.2	1172.6	0.507	3.072	73.959	19.950	2.189	0.082	0.180	0.014	0.018	0.027	0.000	0.000	0.000	0.000	1405.27	
18	0.6997	1157.4	1177.9	0.505	3.075	73.644	19.962	2.433	0.097	0.215	0.018	0.023	0.027	0.000	0.000	0.000	0.000	1408.16	
19	0.7001	1157.8	1178.3	0.511	3.079	73.523	20.043	2.516	0.086	0.184	0.014	0.018	0.025	0.000	0.000	0.000	0.000	1408.28	
20	0.6986	1155.4	1175.9	0.532	3.059	73.600	20.220	2.258	0.084	0.184	0.016	0.021	0.027	0.000	0.000	0.000	0.000	1406.83	
21	0.6975	1153.7	1174.2	0.506	3.095	73.910	19.778	2.381	0.088	0.186	0.015	0.019	0.024	0.000	0.000	0.000	0.000	1405.89	
22	0.6972	1153.6	1174.1	0.515	3.059	73.928	19.836	2.342	0.085	0.179	0.014	0.018	0.025	0.000	0.000	0.000	0.000	1406.07	
23	0.6999	1158.0	1178.5	0.512	3.044	73.633	19.975	2.456	0.097	0.215	0.018	0.023	0.026	0.000	0.000	0.000	0.000	1408.72	
24	0.7001	1158.0	1178.5	0.515	3.058	73.718	19.790	2.505	0.103	0.234	0.022	0.028	0.028	0.000	0.000	0.000	0.000	1408.55	
25	0.7004	1158.6	1179.2	0.496	3.076	73.725	19.708	2.581	0.102	0.230	0.022	0.029	0.032	0.000	0.000	0.000	0.000	1409.00	
26	0.6977	1154.0	1174.4	0.499	3.105	74.091	19.470	2.432	0.100	0.227	0.021	0.027	0.029	0.000	0.000	0.000	0.000	1406.01	
27	0.7007	1158.4	1178.9	0.482	3.137	73.723	19.638	2.559	0.110	0.258	0.026	0.035	0.033	0.000	0.000	0.000	0.000	1408.44	
28	0.6995	1156.6	1177.1	0.497	3.120	73.890	19.513	2.547	0.107	0.243	0.023	0.030	0.030	0.000	0.000	0.000	0.000	1407.34	
29	0.7006	1158.8	1179.3	0.469	3.123	73.805	19.504	2.637	0.113	0.261	0.025	0.033	0.030	0.000	0.000	0.000	0.000	1409.02	
30	0.6967	1152.7	1173.1	0.494	3.101	74.067	19.615	2.403	0.086	0.180	0.014	0.017	0.023	0.000	0.000	0.000	0.000	1405.41	
Avg	0.6989	1155.0	1175.0	0.504	3.172	73.691	19.888	2.394	0.089	0.196	0.017	0.022	0.028	0.000	0.000	0.000	0.000	1405.58	

*** End of Report***

Zone 273

GQ Source Daily Summary

September 2012

Number: 041

Pressure Base: 14.730

Contract Day: 1

Name: BISMARCK STATION-GLEN ULLIN STATION

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	0.7069	1150.6	1170.9	0.415	4.308	71.819	20.529	2.691	0.065	0.136	0.007	0.008	0.021	0.000	0.000	0.000	0.000	1392.80	
2	0.6921	1144.3	1164.6	0.482	3.199	74.567	19.322	2.212	0.060	0.114	0.007	0.008	0.028	0.000	0.000	0.000	0.000	1399.84	
3	0.6942	1148.4	1168.7	0.509	3.101	74.404	19.409	2.299	0.076	0.154	0.010	0.012	0.025	0.000	0.000	0.000	0.000	1402.76	
4	0.6978	1154.1	1174.6	0.504	3.098	73.950	19.638	2.475	0.091	0.189	0.013	0.015	0.026	0.000	0.000	0.000	0.000	1406.10	
5	0.6931	1146.4	1166.7	0.503	3.130	74.466	19.476	2.144	0.074	0.156	0.011	0.014	0.025	0.000	0.000	0.000	0.000	1401.43	
6	0.6940	1148.1	1168.4	0.511	3.108	74.312	19.636	2.137	0.076	0.163	0.013	0.016	0.028	0.000	0.000	0.000	0.000	1402.48	
7	0.6909	1142.6	1162.9	0.510	3.143	74.644	19.531	1.922	0.064	0.138	0.011	0.014	0.024	0.000	0.000	0.000	0.000	1399.07	
8	0.6939	1147.0	1167.3	0.516	3.158	74.288	19.633	2.121	0.072	0.156	0.013	0.017	0.026	0.000	0.000	0.000	0.000	1401.27	
9	0.6937	1147.0	1167.3	0.509	3.148	74.353	19.552	2.162	0.070	0.151	0.013	0.016	0.026	0.000	0.000	0.000	0.000	1401.46	
10	0.7000	1156.7	1177.2	0.514	3.133	73.839	19.544	2.518	0.104	0.250	0.026	0.035	0.038	0.000	0.000	0.000	0.000	1407.01	
11	0.6996	1155.7	1176.2	0.511	3.159	73.429	20.321	2.211	0.084	0.202	0.021	0.028	0.035	0.000	0.000	0.000	0.000	1406.25	
12	0.6973	1153.5	1173.9	0.508	3.088	73.977	19.769	2.288	0.089	0.200	0.020	0.026	0.035	0.000	0.000	0.000	0.000	1405.76	
13	0.6982	1155.1	1175.6	0.507	3.075	73.933	19.694	2.399	0.098	0.219	0.019	0.024	0.031	0.000	0.000	0.000	0.000	1406.84	
14	0.6985	1155.3	1175.8	0.505	3.088	73.904	19.661	2.479	0.090	0.198	0.018	0.023	0.033	0.000	0.000	0.000	0.000	1406.86	
15	0.6979	1154.5	1175.0	0.497	3.092	74.076	19.469	2.480	0.095	0.211	0.019	0.024	0.037	0.000	0.000	0.000	0.000	1406.48	
16	0.6976	1154.4	1174.8	0.502	3.072	73.923	19.810	2.338	0.087	0.195	0.017	0.022	0.034	0.000	0.000	0.000	0.000	1406.54	
17	0.6975	1154.5	1175.0	0.504	3.045	74.034	19.668	2.359	0.099	0.222	0.018	0.022	0.028	0.000	0.000	0.000	0.000	1406.89	
18	0.6969	1152.7	1173.1	0.502	3.101	74.063	19.579	2.440	0.085	0.176	0.012	0.015	0.025	0.000	0.000	0.000	0.000	1405.31	
19	0.6995	1156.6	1177.0	0.536	3.060	73.615	20.055	2.378	0.089	0.197	0.017	0.022	0.031	0.000	0.000	0.000	0.000	1407.36	
20	0.6946	1149.8	1170.2	0.500	3.070	74.269	19.629	2.244	0.079	0.161	0.012	0.014	0.023	0.000	0.000	0.000	0.000	1404.05	
21	0.6979	1154.4	1174.9	0.511	3.075	74.007	19.583	2.460	0.094	0.204	0.018	0.021	0.027	0.000	0.000	0.000	0.000	1406.41	
22	0.6959	1152.1	1172.5	0.509	3.041	74.112	19.741	2.285	0.083	0.174	0.014	0.017	0.024	0.000	0.000	0.000	0.000	1405.49	
23	0.6980	1154.9	1175.4	0.510	3.058	74.047	19.532	2.464	0.100	0.218	0.019	0.024	0.028	0.000	0.000	0.000	0.000	1406.86	
24	0.6986	1156.0	1176.5	0.498	3.070	74.021	19.480	2.510	0.104	0.234	0.022	0.028	0.032	0.000	0.000	0.000	0.000	1407.53	
25	0.6966	1152.4	1172.8	0.495	3.102	74.425	19.049	2.518	0.100	0.228	0.021	0.028	0.034	0.000	0.000	0.000	0.000	1405.20	
26	0.6968	1152.6	1173.0	0.486	3.127	74.240	19.333	2.403	0.101	0.230	0.022	0.028	0.030	0.000	0.000	0.000	0.000	1405.20	
27	0.6985	1155.4	1175.9	0.487	3.110	74.089	19.343	2.541	0.105	0.237	0.023	0.031	0.034	0.000	0.000	0.000	0.000	1406.94	
28	0.6998	1157.2	1177.7	0.491	3.116	73.993	19.300	2.631	0.115	0.263	0.025	0.033	0.033	0.000	0.000	0.000	0.000	1407.83	
29	0.6959	1152.3	1172.7	0.457	3.103	74.312	19.358	2.395	0.096	0.208	0.018	0.024	0.029	0.000	0.000	0.000	0.000	1405.79	
30	0.6967	1152.8	1173.2	0.496	3.090	74.207	19.407	2.441	0.090	0.197	0.018	0.024	0.030	0.000	0.000	0.000	0.000	1405.54	
Avg	0.6970	1152.0	1172.7	0.499	3.142	74.044	19.602	2.365	0.088	0.193	0.017	0.021	0.029	0.000	0.000	0.000	0.000	1404.64	

Zone 28

GQ Source Daily Summary

September 2012

Number: 271

Pressure Base: 14.730

Contract Day: 1

Name: DICKINSON STATION-GLEN ULLIN

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	0.6410	1071.5	1090.5	0.597	2.644	84.184	11.028	1.406	0.044	0.090	0.000	0.000	0.007	0.000	0.000	0.000	0.000	1362.02	
2	0.6393	1070.4	1089.3	0.566	2.596	84.598	10.602	1.506	0.039	0.086	0.000	0.000	0.006	0.000	0.000	0.000	0.000	1362.41	
3	0.6194	1050.6	1069.2	0.562	1.934	87.901	8.761	0.791	0.013	0.033	0.000	0.000	0.006	0.000	0.000	0.000	0.000	1358.63	
4	0.6120	1043.1	1061.6	0.590	1.651	89.453	7.515	0.729	0.018	0.039	0.000	0.000	0.006	0.000	0.000	0.000	0.000	1357.02	
5	0.6103	1040.9	1059.4	0.618	1.585	89.795	7.250	0.683	0.019	0.045	0.000	0.000	0.005	0.000	0.000	0.000	0.000	1356.02	
6	0.6180	1051.0	1069.6	0.623	1.686	88.478	8.231	0.878	0.032	0.066	0.000	0.000	0.005	0.000	0.000	0.000	0.000	1360.58	
7	0.6209	1053.9	1072.6	0.640	1.751	87.932	8.673	0.886	0.038	0.072	0.000	0.000	0.007	0.000	0.000	0.000	0.000	1361.26	
8	0.6227	1056.2	1074.9	0.658	1.762	87.577	8.984	0.905	0.037	0.070	0.000	0.000	0.007	0.000	0.000	0.000	0.000	1362.12	
9	0.6348	1071.3	1090.3	0.648	1.991	85.253	10.917	1.063	0.040	0.080	0.000	0.000	0.008	0.000	0.000	0.000	0.000	1368.44	
10	0.6375	1075.0	1094.1	0.624	2.053	84.798	11.224	1.161	0.043	0.087	0.000	0.000	0.010	0.000	0.000	0.000	0.000	1370.29	
11	0.6377	1075.1	1094.2	0.600	2.104	84.706	11.293	1.170	0.040	0.079	0.000	0.000	0.009	0.000	0.000	0.000	0.000	1370.19	
12	0.6502	1091.2	1110.5	0.565	2.355	82.495	12.928	1.468	0.055	0.118	0.003	0.005	0.009	0.000	0.000	0.000	0.000	1377.20	
13	0.6285	1064.7	1083.6	0.620	1.845	86.681	9.572	1.103	0.052	0.116	0.001	0.001	0.010	0.000	0.000	0.000	0.000	1366.77	
14	0.6241	1058.4	1077.1	0.633	1.796	87.458	8.945	1.013	0.049	0.097	0.000	0.000	0.009	0.000	0.000	0.000	0.000	1363.47	
15	0.6298	1065.8	1084.7	0.607	1.921	86.350	9.850	1.120	0.046	0.097	0.000	0.000	0.010	0.000	0.000	0.000	0.000	1366.74	
16	0.6231	1057.2	1075.9	0.610	1.806	87.620	8.801	1.026	0.042	0.088	0.000	0.000	0.008	0.000	0.000	0.000	0.000	1363.04	
17	0.6096	1039.9	1058.3	0.602	1.601	90.026	6.956	0.716	0.031	0.063	0.000	0.000	0.006	0.000	0.000	0.000	0.000	1355.50	
18	0.6014	1029.3	1047.5	0.617	1.453	91.533	5.760	0.563	0.025	0.047	0.000	0.000	0.002	0.000	0.000	0.000	0.000	1350.78	
19	0.6071	1036.2	1054.6	0.618	1.568	90.450	6.631	0.647	0.027	0.054	0.000	0.000	0.004	0.000	0.000	0.000	0.000	1353.48	
20	0.6184	1050.6	1069.2	0.623	1.750	88.409	8.223	0.878	0.037	0.074	0.000	0.000	0.006	0.000	0.000	0.000	0.000	1359.61	
21	0.6235	1057.6	1076.3	0.667	1.733	87.611	8.819	1.033	0.044	0.086	0.000	0.000	0.007	0.000	0.000	0.000	0.000	1363.09	
22	0.6056	1032.8	1051.0	0.691	1.529	90.803	6.285	0.600	0.031	0.057	0.000	0.000	0.005	0.000	0.000	0.000	0.000	1350.56	
23	0.5873	1006.4	1024.2	0.756	1.317	94.115	3.566	0.228	0.006	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1336.45	
24	0.5882	1009.0	1026.8	0.713	1.308	93.961	3.720	0.267	0.012	0.019	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1338.85	
25	0.6469	1087.4	1106.7	0.588	2.239	83.101	12.498	1.407	0.053	0.107	0.000	0.000	0.008	0.000	0.000	0.000	0.000	1375.97	
26	0.6425	1082.0	1101.1	0.615	2.116	84.087	11.597	1.389	0.058	0.126	0.000	0.000	0.011	0.000	0.000	0.000	0.000	1373.73	
27	0.6207	1054.1	1072.7	0.669	1.682	88.131	8.422	0.952	0.044	0.091	0.000	0.000	0.009	0.000	0.000	0.000	0.000	1361.59	
28	0.6219	1055.9	1074.6	0.661	1.699	87.967	8.491	1.022	0.052	0.100	0.000	0.000	0.008	0.000	0.000	0.000	0.000	1362.60	
29	0.6246	1059.5	1078.2	0.634	1.777	87.454	8.890	1.070	0.055	0.110	0.000	0.001	0.010	0.000	0.000	0.000	0.000	1364.26	
30	0.6282	1064.8	1083.6	0.626	1.801	86.813	9.423	1.150	0.058	0.118	0.000	0.000	0.010	0.000	0.000	0.000	0.000	1367.20	
Avg	0.6225	1055.0	1074.1	0.628	1.835	87.658	8.795	0.961	0.038	0.078	0.000	0.000	0.007	0.000	0.000	0.000	0.000	1361.33	

Zone 31

GQ Source Daily Summary

September 2012

Number: 051

Pressure Base: 14.730

Contract Day: 1

Name: CABIN CREEK STATION-BELFIELD TRANSFER

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	0.6616	1110.0	1129.6	0.360	2.612	79.342	16.535	1.047	0.030	0.057	0.005	0.004	0.007	0.000	0.000	0.000	0.000	1388.81	
2	0.6608	1109.3	1128.9	0.342	2.605	79.462	16.471	1.018	0.028	0.059	0.005	0.005	0.006	0.000	0.000	0.000	0.000	1389.30	
3	0.6570	1106.5	1126.1	0.306	2.474	79.999	16.278	0.876	0.020	0.039	0.002	0.002	0.004	0.000	0.000	0.000	0.000	1387.13	
4	0.6475	1096.7	1116.2	0.338	2.124	81.747	15.114	0.630	0.014	0.025	0.001	0.001	0.004	0.000	0.000	0.000	0.000	1386.81	
5	0.6450	1094.4	1113.7	0.345	2.023	82.294	14.657	0.625	0.016	0.032	0.002	0.002	0.004	0.000	0.000	0.000	0.000	1386.81	
6	0.6442	1092.9	1112.3	0.360	2.015	82.455	14.502	0.610	0.016	0.032	0.002	0.003	0.004	0.000	0.000	0.000	0.000	1385.83	
7	0.6525	1104.0	1123.6	0.349	2.139	80.913	15.775	0.737	0.026	0.048	0.004	0.004	0.005	0.000	0.000	0.000	0.000	1390.94	
8	0.6503	1100.9	1120.4	0.368	2.092	81.332	15.439	0.682	0.025	0.044	0.005	0.004	0.006	0.000	0.000	0.000	0.000	1389.37	
9	0.6555	1107.5	1127.1	0.350	2.203	80.263	16.393	0.713	0.023	0.042	0.004	0.004	0.006	0.000	0.000	0.000	0.000	1392.18	
10	0.6612	1115.3	1135.0	0.344	2.278	79.209	17.260	0.817	0.026	0.049	0.005	0.005	0.007	0.000	0.000	0.000	0.000	1395.85	
11	0.6653	1122.6	1142.5	0.264	2.336	78.199	18.367	0.753	0.023	0.043	0.004	0.004	0.006	0.000	0.000	0.000	0.000	1400.70	
12	0.6791	1144.3	1164.6	0.098	2.572	75.068	21.494	0.714	0.016	0.031	0.002	0.003	0.002	0.000	0.000	0.000	0.000	1413.14	
13	0.6728	1132.2	1152.3	0.235	2.501	76.827	19.408	0.925	0.028	0.057	0.005	0.006	0.006	0.000	0.000	0.000	0.000	1404.81	
14	0.6612	1118.2	1138.0	0.286	2.190	79.169	17.461	0.787	0.029	0.057	0.006	0.007	0.007	0.000	0.000	0.000	0.000	1399.44	
15	0.6570	1109.7	1129.4	0.345	2.215	80.186	16.272	0.865	0.031	0.063	0.006	0.007	0.009	0.000	0.000	0.000	0.000	1393.38	
16	0.6539	1105.7	1125.3	0.343	2.172	80.729	15.853	0.800	0.028	0.056	0.005	0.006	0.007	0.000	0.000	0.000	0.000	1391.59	
17	0.6510	1102.5	1122.0	0.344	2.091	81.382	15.227	0.860	0.027	0.052	0.005	0.005	0.007	0.000	0.000	0.000	0.000	1390.70	
18	0.6430	1091.7	1111.0	0.333	2.017	82.665	14.349	0.571	0.020	0.034	0.004	0.003	0.005	0.000	0.000	0.000	0.000	1385.54	
19	0.6461	1096.4	1115.8	0.322	2.046	82.014	14.968	0.582	0.020	0.036	0.004	0.004	0.004	0.000	0.000	0.000	0.000	1388.09	
20	0.6447	1094.1	1113.4	0.344	2.019	82.303	14.708	0.560	0.019	0.034	0.004	0.004	0.005	0.000	0.000	0.000	0.000	1386.70	
21	0.6554	1108.7	1128.4	0.301	2.201	80.192	16.533	0.700	0.022	0.039	0.003	0.003	0.005	0.000	0.000	0.000	0.000	1393.71	
22	0.6699	1131.6	1151.6	0.175	2.367	76.938	19.863	0.605	0.016	0.028	0.002	0.002	0.003	0.000	0.000	0.000	0.000	1406.97	
23	0.6597	1117.1	1136.9	0.216	2.228	78.960	18.059	0.490	0.014	0.024	0.003	0.002	0.003	0.000	0.000	0.000	0.000	1399.65	
24	0.6766	1142.7	1162.9	0.091	2.448	75.249	21.742	0.453	0.006	0.010	0.000	0.000	0.001	0.000	0.000	0.000	0.000	1413.76	
25	0.6572	1111.7	1131.4	0.286	2.212	79.812	16.916	0.701	0.020	0.040	0.005	0.005	0.003	0.000	0.000	0.000	0.000	1395.53	
26	0.6728	1134.2	1154.3	0.204	2.434	76.568	19.957	0.766	0.021	0.039	0.003	0.003	0.004	0.000	0.000	0.000	0.000	1407.20	
27	0.6725	1133.9	1153.9	0.208	2.423	76.687	19.805	0.793	0.023	0.047	0.004	0.005	0.005	0.000	0.000	0.000	0.000	1407.08	
28	0.6539	1106.7	1126.3	0.340	2.121	80.640	16.069	0.731	0.028	0.051	0.006	0.006	0.007	0.000	0.000	0.000	0.000	1392.81	
29	0.6524	1103.3	1122.9	0.375	2.126	81.120	15.456	0.801	0.034	0.064	0.007	0.008	0.008	0.000	0.000	0.000	0.000	1390.23	
30	0.6526	1103.6	1123.1	0.368	2.145	81.106	15.420	0.831	0.036	0.069	0.008	0.008	0.008	0.000	0.000	0.000	0.000	1390.28	
Avg	0.6578	1112.0	1131.3	0.298	2.248	79.761	16.878	0.735	0.023	0.043	0.004	0.004	0.005	0.000	0.000	0.000	0.000	1394.88	

Zone 32

GQ Source Daily Summary

September 2012

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	0.6867	1159.0	1179.5	0.000	2.544	73.103	23.852	0.490	0.005	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1423.39	
2	0.6866	1158.9	1179.4	0.000	2.548	73.093	23.882	0.467	0.005	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1423.28	
3	0.6864	1158.6	1179.1	0.000	2.541	73.132	23.859	0.457	0.004	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1423.18	
4	0.6869	1159.5	1180.0	0.000	2.531	73.041	23.952	0.465	0.004	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1423.81	
5	0.6865	1158.9	1179.4	0.000	2.533	73.103	23.902	0.451	0.004	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1423.46	
6	0.6868	1159.4	1180.0	0.000	2.527	73.067	23.927	0.467	0.005	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1423.83	
7	0.6867	1159.2	1179.8	0.000	2.529	73.071	23.937	0.453	0.004	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1423.70	
8	0.6866	1158.6	1179.1	0.000	2.559	73.092	23.887	0.452	0.005	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1422.99	
9	0.6859	1157.8	1178.3	0.000	2.548	73.227	23.753	0.462	0.005	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1422.68	
10	0.6864	1158.7	1179.2	0.000	2.533	73.161	23.812	0.483	0.005	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1423.36	
11	0.6860	1157.8	1178.3	0.000	2.549	73.210	23.779	0.451	0.005	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1422.69	
12	0.6874	1160.5	1181.1	0.000	2.516	73.056	23.856	0.547	0.008	0.014	0.001	0.001	0.001	0.000	0.000	0.000	0.000	1424.53	
13	0.6874	1160.9	1181.4	0.000	2.496	72.972	24.027	0.492	0.005	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1424.97	
14	0.6873	1161.1	1181.6	0.000	2.476	72.991	24.027	0.495	0.005	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1425.30	
15	0.6877	1161.1	1181.6	0.000	2.511	72.915	24.065	0.498	0.005	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1424.91	
16	0.6870	1159.8	1180.4	0.000	2.521	73.026	23.972	0.469	0.005	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1424.11	
17	0.6899	1164.6	1185.2	0.000	2.506	72.792	23.864	0.814	0.008	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1426.90	
18	0.6869	1159.9	1180.5	0.000	2.503	73.039	23.996	0.452	0.004	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1424.36	
19	0.6871	1159.9	1180.5	0.000	2.524	73.009	23.983	0.473	0.005	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1424.14	
20	0.6871	1160.2	1180.7	0.000	2.513	73.004	24.000	0.470	0.005	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1424.40	
21	0.6880	1161.1	1181.6	0.000	2.545	72.824	24.136	0.484	0.005	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1424.53	
22	0.6871	1159.4	1179.9	0.000	2.556	72.982	24.002	0.450	0.004	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1423.49	
23	0.6871	1159.3	1179.8	0.000	2.565	72.980	23.993	0.451	0.004	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1423.31	
24	0.6891	1162.9	1183.5	0.000	2.528	72.885	23.849	0.706	0.010	0.019	0.001	0.002	0.001	0.000	0.000	0.000	0.000	1425.70	
25	0.6876	1160.3	1180.9	0.000	2.549	72.903	24.061	0.476	0.005	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1424.09	
26	0.6877	1159.9	1180.4	0.000	2.587	72.904	23.990	0.508	0.005	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1423.42	
27	0.6868	1158.6	1179.2	0.000	2.578	73.047	23.897	0.468	0.005	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1422.83	
28	0.6869	1158.8	1179.4	0.000	2.573	73.055	23.873	0.487	0.005	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1422.99	
29	0.6862	1157.8	1178.3	0.000	2.574	73.160	23.802	0.454	0.004	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1422.37	
30	0.6859	1157.1	1177.6	0.000	2.584	73.218	23.746	0.442	0.004	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1421.89	
Avg	0.6871	1160.0	1180.2	0.000	2.538	73.035	23.923	0.491	0.005	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1423.82	

Zone 33

GQ Source Daily Summary

September 2012

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	0.8025	1123.9	1143.8	2.278	12.112	53.595	28.613	2.943	0.097	0.304	0.014	0.038	0.007	0.000	0.000	0.000	0.000	1276.83	
2	0.7982	1117.0	1136.8	2.161	12.309	53.969	28.475	2.659	0.090	0.282	0.013	0.034	0.007	0.000	0.000	0.000	0.000	1272.40	
3	0.7924	1105.8	1125.4	2.128	12.493	54.870	27.630	2.477	0.084	0.264	0.012	0.034	0.007	0.000	0.000	0.000	0.000	1264.27	
4	0.7944	1110.4	1130.1	2.175	12.333	54.413	28.335	2.330	0.085	0.273	0.013	0.036	0.008	0.000	0.000	0.000	0.000	1267.78	
5	0.7910	1103.7	1123.2	2.161	12.449	54.789	28.056	2.196	0.074	0.231	0.010	0.028	0.006	0.000	0.000	0.000	0.000	1262.91	
6	0.7907	1110.6	1130.2	1.969	12.292	54.803	28.290	2.280	0.077	0.241	0.011	0.030	0.006	0.000	0.000	0.000	0.000	1271.02	
7	0.7973	1120.8	1140.6	2.071	12.131	54.199	28.451	2.686	0.096	0.305	0.014	0.039	0.008	0.000	0.000	0.000	0.000	1277.39	
8	0.7969	1122.0	1141.9	2.129	11.928	53.948	29.185	2.428	0.081	0.253	0.011	0.031	0.006	0.000	0.000	0.000	0.000	1279.17	
9	0.8043	1138.6	1158.8	2.232	11.460	52.711	30.651	2.590	0.075	0.234	0.011	0.029	0.006	0.000	0.000	0.000	0.000	1292.05	
10	0.7491	1075.6	1094.6	1.882	10.642	63.209	21.933	1.987	0.060	0.199	0.015	0.049	0.025	0.000	0.000	0.000	0.000	1265.66	
11	0.7929	1116.2	1136.0	2.090	11.971	54.460	28.824	2.374	0.059	0.177	0.008	0.023	0.015	0.000	0.000	0.000	0.000	1275.74	
12	0.7938	1115.5	1135.3	2.136	12.023	54.377	28.751	2.423	0.062	0.189	0.008	0.022	0.008	0.000	0.000	0.000	0.000	1274.26	
13	0.7981	1121.9	1141.8	2.362	11.694	53.984	29.076	2.558	0.070	0.215	0.009	0.026	0.007	0.000	0.000	0.000	0.000	1278.08	
14	0.7988	1120.2	1140.0	2.443	11.749	54.070	28.707	2.679	0.075	0.232	0.010	0.028	0.006	0.000	0.000	0.000	0.000	1275.47	
15	0.7964	1114.8	1134.6	2.350	11.991	54.259	28.511	2.563	0.070	0.216	0.010	0.026	0.005	0.000	0.000	0.000	0.000	1271.32	
16	0.7945	1118.9	1138.7	2.067	11.993	54.194	29.018	2.414	0.068	0.207	0.009	0.025	0.005	0.000	0.000	0.000	0.000	1277.52	
17	0.7965	1118.1	1137.9	2.274	11.912	54.033	29.023	2.449	0.067	0.204	0.009	0.024	0.005	0.000	0.000	0.000	0.000	1275.01	
18	0.7900	1115.5	1135.2	1.901	12.030	55.008	28.279	2.462	0.069	0.210	0.009	0.025	0.005	0.000	0.000	0.000	0.000	1277.22	
19	0.7959	1117.5	1137.3	2.278	11.884	54.311	28.643	2.560	0.070	0.214	0.009	0.025	0.005	0.000	0.000	0.000	0.000	1274.80	
20	0.7979	1119.3	1139.2	2.344	11.861	54.087	28.718	2.657	0.072	0.221	0.010	0.027	0.005	0.000	0.000	0.000	0.000	1275.30	
21	0.7975	1116.8	1136.6	2.320	12.009	54.183	28.443	2.705	0.073	0.224	0.010	0.027	0.005	0.000	0.000	0.000	0.000	1272.78	
22	0.7993	1118.0	1137.8	2.431	11.937	53.955	28.620	2.714	0.074	0.227	0.010	0.027	0.005	0.000	0.000	0.000	0.000	1272.69	
23	0.7999	1118.9	1138.8	2.416	11.965	53.963	28.459	2.836	0.077	0.239	0.011	0.029	0.005	0.000	0.000	0.000	0.000	1273.23	
24	0.7965	1117.1	1136.9	2.155	12.148	54.319	28.252	2.755	0.079	0.245	0.011	0.030	0.006	0.000	0.000	0.000	0.000	1273.92	
25	0.8010	1126.8	1146.8	2.251	11.831	53.595	29.160	2.790	0.079	0.248	0.011	0.030	0.006	0.000	0.000	0.000	0.000	1281.40	
26	0.8020	1123.1	1143.0	2.435	11.874	53.645	28.797	2.873	0.080	0.248	0.011	0.030	0.006	0.000	0.000	0.000	0.000	1276.34	
27	0.7945	1113.7	1133.4	2.188	12.118	54.562	28.159	2.648	0.070	0.215	0.009	0.026	0.005	0.000	0.000	0.000	0.000	1271.61	
28	0.7964	1113.4	1133.1	2.318	12.124	54.203	28.459	2.581	0.068	0.208	0.009	0.025	0.005	0.000	0.000	0.000	0.000	1269.70	
29	0.7964	1116.6	1136.4	2.268	12.000	54.169	28.681	2.564	0.069	0.210	0.009	0.025	0.004	0.000	0.000	0.000	0.000	1273.35	
30	0.7937	1114.6	1134.4	2.140	12.066	54.489	28.500	2.500	0.066	0.202	0.009	0.024	0.004	0.000	0.000	0.000	0.000	1273.26	
Avg	0.7950	1116.0	1136.0	2.212	11.978	54.479	28.423	2.556	0.075	0.231	0.010	0.029	0.007	0.000	0.000	0.000	0.000	1274.08	

Zone 34

GQ Source Analysis

WBI Energy Transmission, Inc.

Attachment B
Page 16 of 16

GQ Source Number:	1201140	Specific Gravity:	0.5728
GQ Source Name:	EAGLE 8B ND LMD	Dry Heat Value:	979.13
Effective Date:	6/8/2012 9:00:00 AM	Wet Heat Value:	962.09
Effective End Date:	1/18/2038 9:14:07 PM	As Deliv. Heat Value:	979.13
Pressure Base:	14.730	Sample Pressure:	28.00
Viscosity:		Sample Temperature:	

	<u>Mol %</u>	<u>Liquid Content</u>			<u>Mol %</u>	
C1	Methane	95.902		CO2	Carbon Dioxide	0.106
C2	Ethane	0.323	0.0860	N2	Nitrogen	3.640
C3	Propane	0.020	0.0054	O2	Oxygen	0.000
IC4	Isobutane	0.008	0.0026	He	Helium	
NC4	n-Butane	0.001	0.0002	H2	Hydrogen	
IC5	Isopentane	0.000	0.0000	H2S	Hydrogen Sulfide	
NC5	n-Pentane	0.000	0.0000	Ar	Argon	
C6	Hexanes	0.000	0.0000	CO	Carbon Monoxide	
C7	Heptanes			H2	Water	
C8	Octanes			Neo-C5	Neopentane	
C9	Nonanes					
C10	Decanes					
Totals		100.000%		0.094	GPM	

Sample Date: 6/8/2012 12:00:00 AM
Sample Type: Spot
Sample Tech: MG
H2S: ppm

Sample Remarks:

Analysis Tech: M. Barney

Analysis Remarks:

Zone 35

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

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

STATE	ZONE	ZONE BOUNDARY	12 MONTH AVERAGE	SEPT 12	AUG 12	JULY 12	JUNE 12	MAY 12	APR 12	MAR 12	FEB 12	JAN 12	DEC 11	NOV 11	OCT 11	ZONE
MT/ND	211	Sidney Area	1203	1202	1197	1197	1200	1194	1196	1199	1206	1210	1212	1215	1212	211
ND	24	Williston Area	1197	1197	1198	1203	1197	1196	1194	1199	1195	1184	1199	1203	1197	24
ND	25	Watford City Area	1150	1183	1184	1176	1151	1159	1139	1138	1132	1140	1140	1131	1129	25
ND/MT	241	Fairview Area	1191	1191	1187	1185	1191	1184	1185	1189	1193	1194	1194	1201	1198	241
ND	261	Williston - Tioga - Minot Line	1160	1170	1151	1161	1157	1157	1155	1162	1156	1160	1163	1166	1158	261
ND	262	Minot Area	1164	1175	1179	1163	1160	1159	1157	1162	1158	1161	1165	1168	1163	262
ND	263	Tioga - Portal	1113	1142	1143	1132	1136	1126	1099	1135	1081	1075	1074	1092	1126	263
ND	264	Williston - Ray	1197	1197	1198	1203	1197	1196	1194	1199	1195	1184	1199	1203	1197	264
ND	271	Bismarck - Cleveland	1152	1173	1178	1161	1157	1157	1157	1154	1123	1124	1130	1148	1161	271
ND	272	Cleveland - Mapleton	1152	1175	1180	1162	1159	1158	1156	1153	1121	1122	1129	1148	1161	272
ND	273	Cleveland - Grafton	1152	1175	1180	1162	1159	1158	1157	1153	1121	1123	1129	1148	1162	273
ND	28	Bismarck - Cabin Creek	1128	1173	1178	1160	1157	1157	1143	1117	1065	1073	1078	1084	1148	28
ND	31	Dickinson Area	1095	1074	1102	1150	1092	1070	1111	1114	1064	1072	1077	1081	1138	31
ND/MT	32	Cabin Creek - Dickinson	1099	1131	1135	1164	1152	1142	1092	1047	1044	1057	1063	1061	1100	32
ND	33	Killdeer	1181	1180	1179	1181	1184	1181	1181	1183	1182	1179	1183	1181	1181	33
ND	34	Bowman Area	1128	1136	1130	1126	1098	1134	1130	1126	1126	1147	1129	1117	1139	34
ND	35	Baker Field - North Dakota	979	979	979	979	979	979	979	979	979	979	979	979	979	35

**THERMAL ZONE VARIANCE
DOCUMENTATION**

September 2012

<i>ZONE</i>	<i>BTU VARIANCE</i>	<i>REASON</i>
31	-28	Lower BTU gas coming from NBPL, and mixing with Mainline Gas