

# INTRODUCTORY REMARKS, FACTS, & OPINIONS

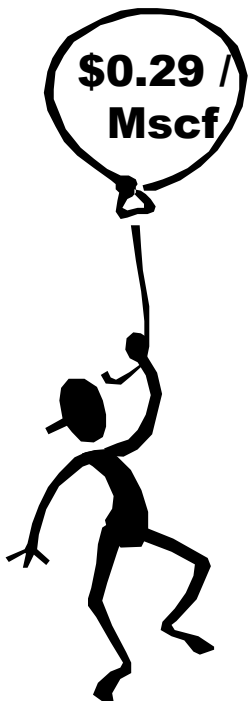
- ④ IN THE WORLD OF NATGAS MEASUREMENT, IT IS DIFFICULT TO SEPARATE THE CONCEPTS OF **QUANTITY & QUALITY**.
- ④ IN THE WORLD OF NATGAS ACCOUNTING (FOR CUSTODY TRANSFER PURPOSES), ONE CAN CHOOSE TO ACCOUNT FOR NATGAS IN TERMS OF:
  - ④ **ENERGY** ( BTU, MMBTU, THERM, DEKATHERM, JOULE )
  - ④ **VOLUME** ( CF, MCF, MMCF, BCF, TCF )
  - ④ **MASS** ( POUND-MASS, SLUG, KILOGRAM)
- ④ IN THE WORLD OF NATGAS CHEMISTRY, THERE MAY NOT BE AGREEMENT ON CERTAIN BASIC ASSUMPTIONS (SUCH AS **HHV OF HYDROCARBON COMPONENTS**).

*AND, FINALLY...*

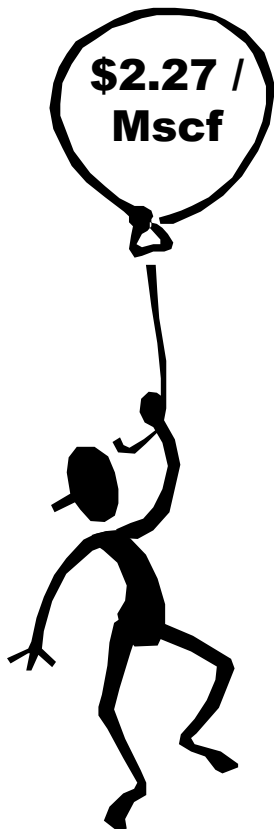
- ④ IN THE WORLD OF NATGAS REGULATION, THERE IS NO AGREEMENT ON THE DEFINITION OF **PIPELINE QUALITY NATURAL GAS**.

# Average Price of Nat Gas Delivered to U.S. Electric Utilities

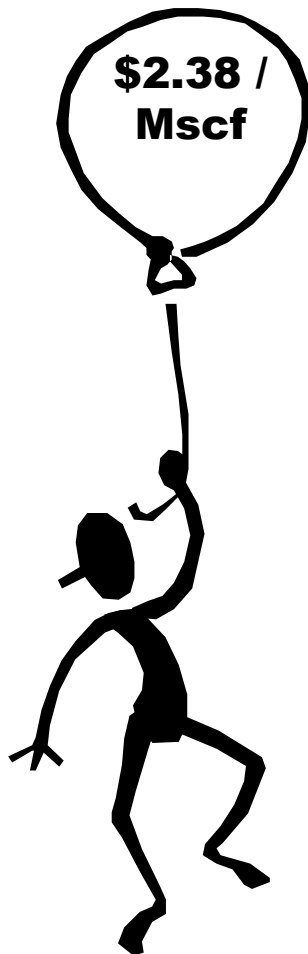
**1970**



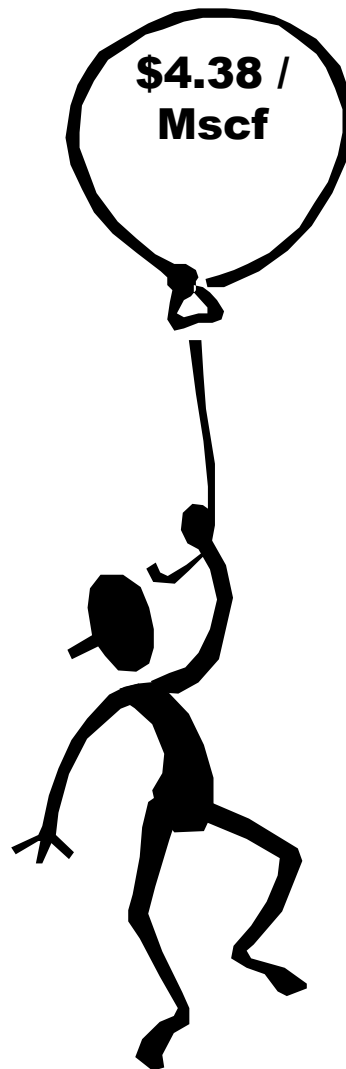
**1980**



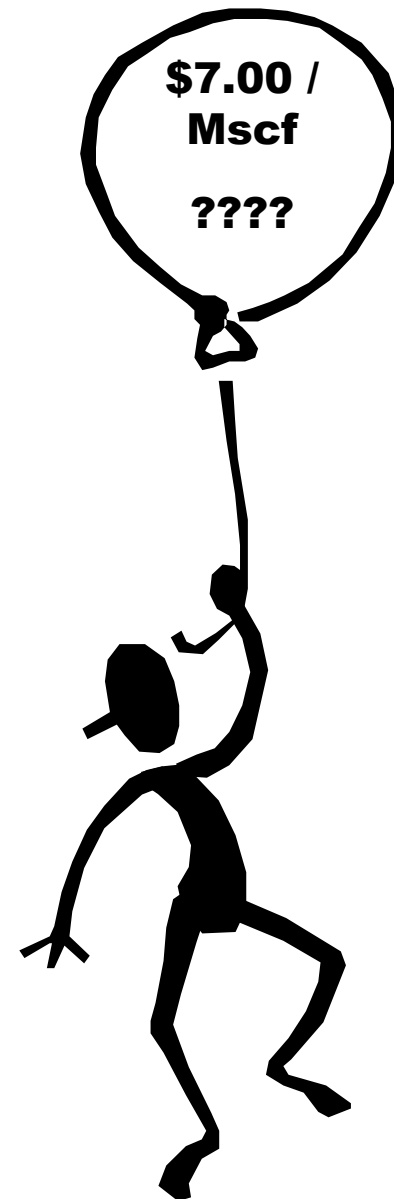
**1990**



**2000**



**2004**



**\$0.29 /  
Mscf**

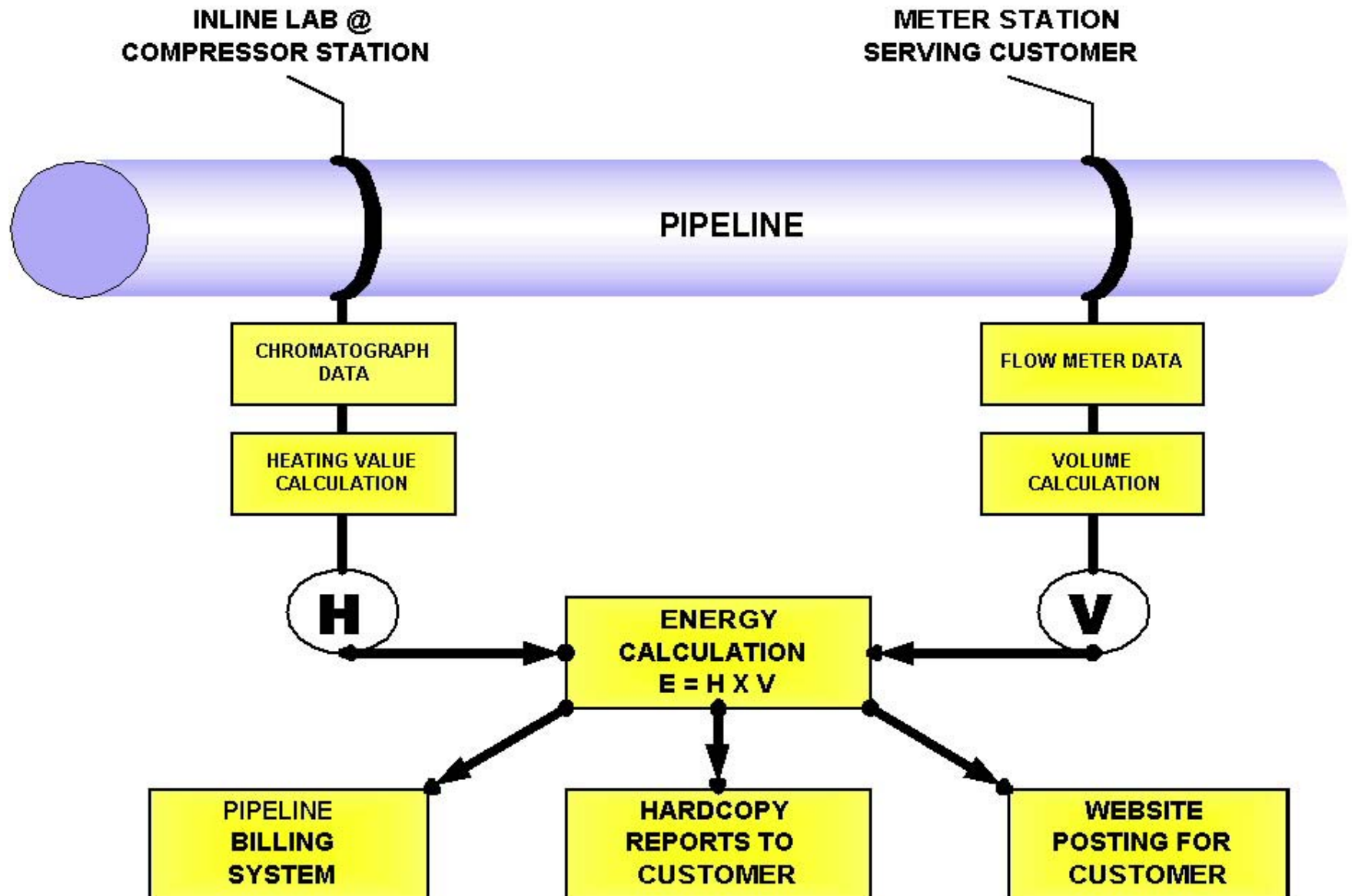
**\$2.27 /  
Mscf**

**\$2.38 /  
Mscf**

**\$4.38 /  
Mscf**

**\$7.00 /  
Mscf  
????**

# PIPELINE ENERGY CALCULATION PROCESS





Date Requested: May 18 2004 8:37 AM

The data contained herein is preliminary data and therefore should be used for contemporaneous operational purposes only and may be subject to change at month end. This data is provided to assist our customers in tracking their gas usage as closely as possible on a real-time basis. The information contained on this web page is not to be considered billable information. This data will be subject to additional verification and possible modification prior to billing.

8001 - MAINLINE (BROOKER)

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Date	BTU	CO2	H2	Grav	Methan	Ethane	Propan	Ibutan	Nbutan	Ipenta	Npenta	C6	C7	H2	Helium	Oxygen
<a href="#">05/18/2004</a>	1037	0.888	0.391	0.588	95.363	2.576	0.476	0.102	0.094	0.035	0.022	0.052	0.000	0.000	0.000	0.000
<a href="#">05/17/2004</a>	1036	0.866	0.387	0.587	95.415	2.593	0.454	0.095	0.090	0.031	0.019	0.050	0.000	0.000	0.000	0.000
<a href="#">05/16/2004</a>	1036	0.838	0.373	0.586	95.558	2.521	0.434	0.093	0.087	0.030	0.019	0.048	0.000	0.000	0.000	0.000
<a href="#">05/15/2004</a>	1037	0.841	0.366	0.587	95.458	2.595	0.454	0.097	0.090	0.031	0.019	0.049	0.000	0.000	0.000	0.000
<a href="#">05/14/2004</a>	1037	0.861	0.375	0.587	95.425	2.576	0.467	0.099	0.094	0.032	0.021	0.051	0.000	0.000	0.000	0.000
<a href="#">05/13/2004</a>	1037	0.870	0.383	0.587	95.405	2.577	0.463	0.100	0.096	0.034	0.021	0.052	0.000	0.000	0.000	0.000
<a href="#">05/12/2004</a>	1038	0.846	0.378	0.587	95.373	2.627	0.472	0.103	0.096	0.033	0.021	0.050	0.000	0.000	0.000	0.000
<a href="#">05/11/2004</a>	1038	0.833	0.377	0.588	95.325	2.674	0.488	0.106	0.096	0.033	0.021	0.047	0.000	0.000	0.000	0.000
<a href="#">05/10/2004</a>	1039	0.853	0.393	0.588	95.205	2.730	0.506	0.109	0.102	0.034	0.022	0.047	0.000	0.000	0.000	0.000
<a href="#">05/09/2004</a>	1039	0.861	0.376	0.588	95.261	2.680	0.506	0.110	0.103	0.034	0.022	0.048	0.000	0.000	0.000	0.000
<a href="#">05/08/2004</a>	1038	0.861	0.387	0.588	95.289	2.643	0.500	0.110	0.105	0.035	0.022	0.050	0.000	0.000	0.000	0.000
<a href="#">05/07/2004</a>	1037	0.828	0.389	0.587	95.4	2.487	0.475	0.108	0.106	0.036	0.024	0.053	0.000	0.000	0.000	0.000
<a href="#">05/06/2004</a>	1038	0.805	0.377	0.587	95.586	2.404	0.480	0.113	0.113	0.039	0.026	0.056	0.000	0.000	0.000	0.000
<a href="#">05/05/2004</a>	1037	0.784	0.371	0.586	95.718	2.349	0.445	0.108	0.105	0.039	0.025	0.056	0.000	0.000	0.000	0.000
<a href="#">05/04/2004</a>	1038	0.824	0.393	0.587	95.489	2.472	0.466	0.112	0.112	0.042	0.028	0.062	0.000	0.000	0.000	0.000
<a href="#">05/03/2004</a>	1044	0.864	0.390	0.592	94.947	2.726	0.627	0.154	0.141	0.050	0.031	0.070	0.000	0.000	0.000	0.000
<a href="#">05/02/2004</a>	1045	0.861	0.421	0.593	94.789	2.811	0.654	0.161	0.150	0.051	0.031	0.070	0.000	0.000	0.000	0.000
<a href="#">05/01/2004</a>	1044	0.836	0.400	0.592	94.954	2.752	0.620	0.151	0.141	0.049	0.030	0.066	0.000	0.000	0.000	0.000
<a href="#">04/30/2004</a>	1044	0.823	0.366	0.591	95.079	2.671	0.618	0.152	0.140	0.051	0.032	0.069	0.000	0.000	0.000	0.000
<a href="#">04/29/2004</a>	1041	0.822	0.398	0.589	95.248	2.599	0.541	0.128	0.124	0.045	0.030	0.065	0.000	0.000	0.000	0.000

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Date Requested: **May 18 2004 8:38 AM**

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ID	Name	BTU	CO2	N2	Grav	Methan	Ethane	Propan	Ibutan	Nbutan	Ipenta	Npenta	C6	C7	H2	Helium	Oxygen	Date
<a href="#">8001</a>	MAINLINE (BROOKER)	1037	0.888	0.391	0.588	95.363	2.576	0.476	0.102	0.094	0.035	0.022	0.052	0.000	0.000	0.000	0.000	05/18/2004
<a href="#">8002</a>	CLARKE-MOBILE (ON-LINE)	1036	0.831	0.262	0.585	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	05/16/2004
<a href="#">8003</a>	COKINOS/FGT TEXAS CITY	1032	0.984	0.320	0.585	96.173	1.756	0.368	0.127	0.083	0.044	0.027	0.010	0.000	0.000	0.000	0.000	05/16/2004
<a href="#">8004</a>	CSX RESIDUE (STR 1)	1050	0.538	0.212	0.588	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	05/16/2004
<a href="#">8008</a>	Northern NAT-Tivoli Plant	1037	0.374	0.445	0.580	96.636	1.632	0.437	0.165	0.097	0.058	0.036	0.117	0.000	0.000	0.000	0.000	05/18/2004
<a href="#">8009</a>	ST.REGIS PT. RES	1133	0.019	7.617	0.712	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	05/16/2004
<a href="#">8010</a>	KUA/CANE ISLAND	1036	0.845	0.415	0.587	95.447	2.565	0.443	0.095	0.091	0.031	0.018	0.025	0.025	0.000	0.000	0.000	05/16/2004
<a href="#">8012</a>	ACADIA PARTNERS PIPELINE	1041	1.130	0.262	0.593	95.180	2.389	0.570	0.147	0.136	0.029	0.047	0.109	0.000	0.000	0.000	0.000	05/16/2004
<a href="#">8013</a>	CHEVRON JUDGE DIGBY	950	8.334	0.223	0.651	89.771	1.171	0.170	0.079	0.042	0.049	0.022	0.069	0.069	0.000	0.000	0.000	05/16/2004
<a href="#">8014</a>	EXXON	1179	0.000	4.251	0.709	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	05/16/2004

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Last Updated 5/18/2004 8:00

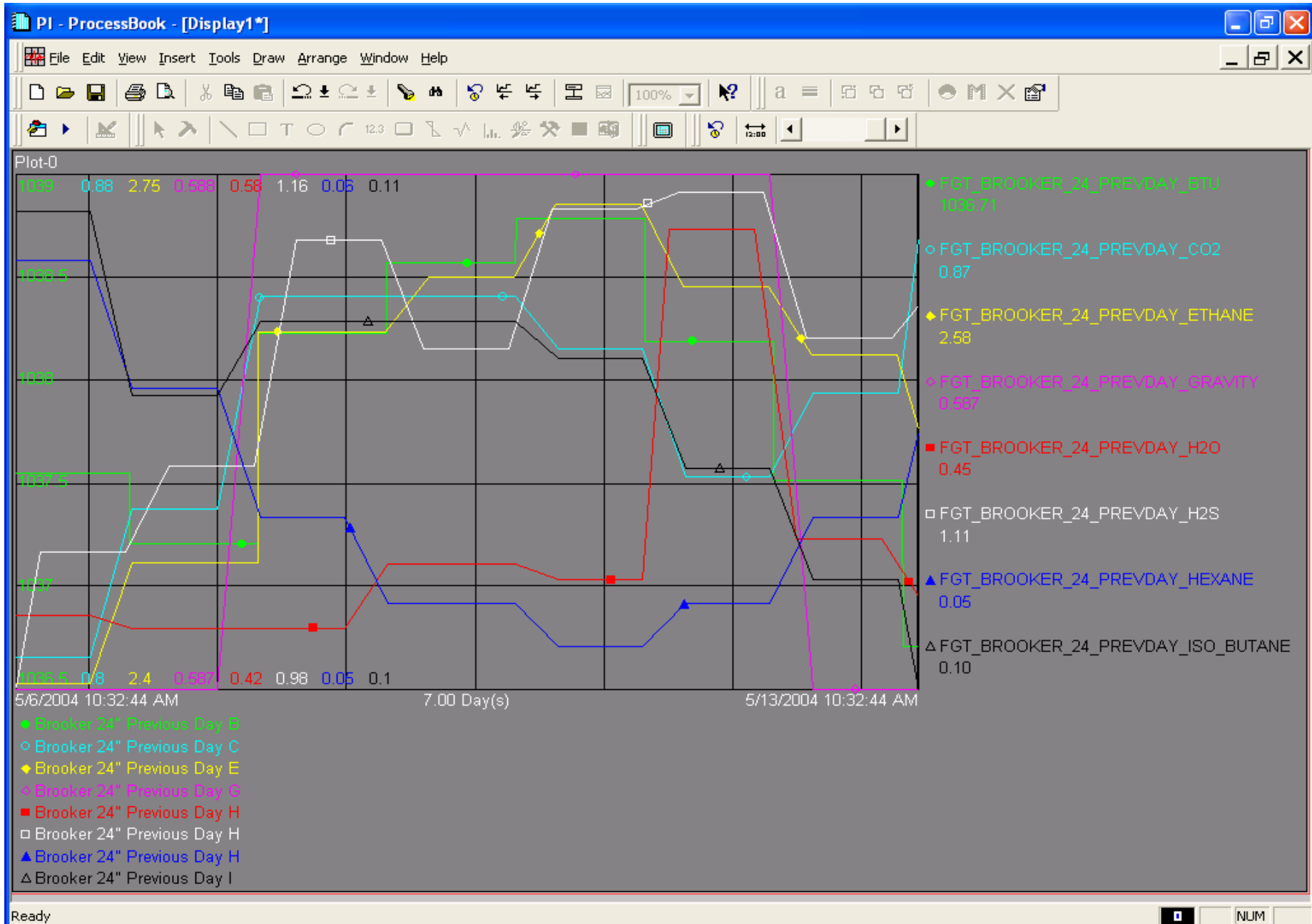
Station Name	Total Sulfur	
	Previous Day Avg	Previous Day Avg
	ppm	Grains/hcf
	05/16/2004	05/16/2004
Perry 36" Stream #1	1.183	0.074
Perry 30" Stream #2	1.817	0.114
Perry 24" Stream #3	1.816	0.114
Brooker 24" Stream	4.655	0.291

Florida Gas makes no warranty or representation whatsoever as to the accuracy of the information provided. This information is provided on a best efforts basis and is an estimate. The information is not used for billing purposes. Florida Gas is not responsible for any reliance on this information by any party.

**Stream History**

Gas Day	Index	Perry 36" Stream #1	Perry 36" Stream #1	Perry 30" Stream #2	Perry 30" Stream #2	Perry 24" Stream #3	
		15SA36PSUL.A	15SA36PSUL.A	15SA30PSUL.A	15SA30PSUL.A	15SA24PSUL.A	
		Avg ppm	Avg Grains/hcf	Avg ppm	Avg Grains/hcf	Avg ppm	Avg
05/15/2004	33	0.952	0.059	1.485	0.093	1.507	
05/14/2004	32	0.956	0.060	1.481	0.093	1.527	
05/13/2004	31	1.113	0.070	1.535	0.096	1.576	
05/12/2004	30	1.185	0.074	1.631	0.102	1.658	
05/11/2004	29	1.556	0.097	2.014	0.126	2.087	
05/10/2004	28	1.880	0.117	2.332	0.146	2.483	
05/09/2004	27	0.926	0.058	1.478	0.092	1.601	
05/08/2004	26	1.149	0.072	1.734	0.108	1.830	
05/07/2004	25	1.214	0.076	1.883	0.118	1.856	
05/06/2004	24	1.201	0.075	1.902	0.119	1.885	
05/05/2004	23	1.328	0.083	1.967	0.123	1.882	

# Gas Quality Data





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- Sign to 1Line
- Stational Chart

Total Station

Please click a chromatograph on the map or select one from the dropdown box.



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Chromatograph: Station 200-Buckeye Road

From (Gas Day): 05/16/2004 9:00 AM To (Gas Day): 05/18/2004 8:59 AM



- Related Mrkter Info
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- Sign up for 1Line



Total Sulfur

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# Chromatograph BUCKEYE ROAD

Date	BTU	CO2	N2	Gravity	Methane	Ethane	Propane	Ibutane	Nbutane	Ipentane	Npentane	C6+
05/10/2004	1052.776	1.033	0.253	0.599	94.093	3.196	0.899	0.225	0.182	0.05	0.024	0.04
05/11/2004	1033.78	0.822	0.248	0.583	96.032	2.179	0.459	0.111	0.091	0.025	0.013	0.019
05/12/2004	1029.228	0.805	0.252	0.58	96.336	2.077	0.355	0.084	0.063	0.016	0.0070	0.0060
05/13/2004	1029.966	0.772	0.253	0.58	96.372	2.044	0.37	0.082	0.068	0.018	0.0090	0.011
05/14/2004	1029.379	0.767	0.25	0.579	96.368	2.106	0.349	0.074	0.057	0.014	0.0070	0.0060
05/15/2004	1031.27	0.781	0.258	0.581	96.096	2.333	0.374	0.075	0.057	0.014	0.0060	0.0060
05/16/2004	1033.272	0.841	0.24	0.583	95.883	2.405	0.433	0.09	0.072	0.018	0.0090	0.0080

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### Chromatograph

## Total Sulfur (Florida Delivery Stations)

From (Gas Day):  9:00 AM To (Gas Day):  8:59 AM

[View Data](#)

Gas Day	Avg ppm	Avg Grains/hcf
05/10/2004	9.467	0.559
05/11/2004	2.863	0.169
05/12/2004	1.331	0.079
05/13/2004	1.565	0.092
05/14/2004	1.267	0.075
05/15/2004	1.295	0.076
05/16/2004	0.814	0.048

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# **ADDITIONAL FPL GAS QUALITY INFORMATION REQUIREMENTS**

WHAT ADDITIONAL QUALITY INFO IS NEEDED?

- WATER
- WOBBE INDEX
- HYDROCARBON DEWPOINT

WHAT FORMAT (WEB, DATA STREAM, HARDCOPY)?

WHAT FREQUENCY (HOURLY AVG, DAILY AVG)?

WHAT TIMING (DAILY POSTING, EOM REPORT)?