Attachment 2.1-1

Natural Gas Thermal and Chemical Analysis

ZALCO LABORATORIES, INC.
Analytical & Consulting Services
4309 Armour Avenue
Bakersfield, California 93308
(661) 395-0539
FAX (661) 395-3069

GWF Power
4300 Railroad Avenue
Pittsburg CA 94565

Attention: Bob Okubo
CC:
Sample Description:
Natural Gas Main To Plant (stainless steel sample cylinder)
Sampled 08/21/00 @ 13:00 by S. Howard

Laboratory No: 0008313-1
Date Received: 08/22/2000
Date Analyzed: 08/22/2000
Purchase Order: Q0005010
Date Reprinted: 08/22/2000
Test Code: 1635

CHONS Chromatographic Analysis, ASTM D-1945-81, ASTM D-3588-89, GPA 2145-94

Constituent:	Norm Mol%	Norm Wt%	GPM	CHONS%
				Carbon, C
Oxygen	2.467	3.930		60.85
Nitrogen	9.463	13.198		
				Hydrogen, H
Carbon Dioxide	2.128	4.663		18.63
Carbon Monoxide	0.000	0.000		
				Oxygen, O
Methane	75.465	60.276		7.32
Ethane	7.954	11.907		
Propane	2.008	4.409	0.552	Nitrogen, N
IsoButane	0.124	0.359	0.041	13.20
n-Butane	0.267	0.773	0.084	
IsoPentane	0.038	0.136	0.014	Sulfur, S
n-Pentane	0.034	0.121	0.012	0.00
Hexanes +	0.053	0.226	0.023	
Totals:	100.000	100.000	0.726	100.00

Gas Properties calculated at STP:	degrees F.	60.00	H/C Ratio:
Measurement Base Pressure at STP:	psia	14.696	0.31

Gross Btu/Cu.Ft.,	Dry Gas HHV	973.9	Relative Gas Density; Ideal gas:	0.6935
Ideal Gross Btu/Lb.	Dry Gas HHV	8357.2	Specific Gravity, (Air = 1) Real gas:	0.6947
Net Btu/Cu.Ft.	Dry Gas LHV	880.3	Real Gas Density, Lb/Cu.Ft.	0.05305
Ideal Net Btu/Lb	Dry Gas LHV	6593.4	Specific Volume, Cu.Ft./Lb	18.8491
Gross Btu/Cu.Ft.,	water saturated	954.7	Compressibility, 'z'	0.9977

		Gross or HHV:	Net or LHV:
"F" Factor,	DSCF/MMBtu at 60F.	8552.3	9461.4
"F" Factor,	DSCF/MMBtu at 68F.	8682.6	9605.5
"F" Factor,	DSCF/MMBtu at 70F.	8715.5	9642.0
"FC" Factor,	DSCF CO2/MMBtu60F.	1048.2	1159.6
"FC" Factor,	DSCF CO2/MMBtu68F.	1064.1	1177.2

Jim Etherton
Laboratory Operations Manager

This report is furnished for the exclusive use of our Customer and applies only to the samples tested. Zalco is not responsible for report alterations or detachment.

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GWF Power
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Pittsburg, CA 945656006

Attention: Bob Okubo

Sample Type: Gas/NGL/LPG

Description: Natural Gas Main to Plant
Sampled by Steve Howard

Laboratory No: 0008313-1
Date Received: 08/22/00
Date Reported: 08/24/00
Contract No. : 00-0534
Date Sampled : 08/21/00
Time Sampled : 13:00

REPORT OF ANALYTICAL RESULTS

Constituents	Results	Units	DLR	Method/Re
Total Sulfur				
Hydrogen Sulfide, Total H2S	1.6	ppmv	1.0	D 3246/3
Total Sulfur, S	0.10	Gr/100 SCF	0.06	D-3246/3

Date Analyzed: 08/23/00 JAH

cc:

Jim Etherton, Lab Operations Manager

Method Reference
A. Annual Book of A.S.T.M. Standards

mg/L : milligrams per Liter (parts per million)
ug/L : micrograms per Liter (parts per billion)
umhos/cm : micromhos/cm at 25 C
mmhos/cm : millimhos/cm at 25 C
ND : None Detected
N/A : Not Applicable
DLR : Detection Limit for Reporting Purposes
MBAS : Methylene Blue Active Substances

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