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	18357.2	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	16593.4	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

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GWF Power
4300 Railroad Avenue
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/Ref
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

Jim Etherton, Lab Operations Manager

cc:

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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GWF Power
4300 Railroad Avenue
Pittsburg CA 94565

Attention: Bob Okubo
cc:
Sample Description:
Natural Gas Main To Plant
Sampled 07/31/00 @ 10:50 by T. Mason

Laboratory No: 0007433-1
Date Received: 07/31/2000
Date Analyzed: 08/02/2000
Purchase Order:
Q0005010

Date Reprinted: 08/02/2000

Test Code: 1635

GC1 Chromatographic Analysis, ASTM D-1945-81, ASTM D-3588-89, GPA 2145-94

Constituent:	Norm Mol%	Norm Wt%	GPM Gallons/1000 Cu.F
Oxygen	0.061	0.105	GPM, (C3....C3) = 0.499
Nitrogen	0.549	0.825	(C3....C4) = 0.585
Carbon Dioxide	2.167	5.117	(C3....C5) = 0.603
Carbon Monoxide	0.000	0.000	(C3....C6+) = 0.638
Methane	86.396	74.361	
Ethane	8.612	13.894	
Propane	1.814	4.292	0.499
IsoButane	0.089	0.277	0.029
n-Butane	0.180	0.562	0.057
IsoPentane	0.028	0.108	0.010
n-Pentane	0.024	0.092	0.009
Hexanes +	0.079	0.367	0.034
Totals:	100.000	100.000	0.638
Total Flammable Gases:	97.22	93.95	

Gas Properties calculated @STP: degrees F. 60
Measurement Base Pressure @STP: psia 14.696

Gross Btu/Cu.Ft.,	Dry Gas	1088.1
Ideal Gross Btu/Lb.	Dry Gas	22095.5
Net Btu/Cu.Ft.	Dry Gas	983.2
Ideal Net Btu/Lb	Dry Gas	19964.2
Gross Btu/Cu.Ft.,	water saturated	1066.3

Relative Gas Density; [Air=1] Ideal	0.6436
Specific Gravity, [Air=1] Real gas	0.6449
Real Gas Density, Lb/Cu.Ft.	0.04925
Specific Volume, Cu.Ft./Lb	20.3056
Relative Liquid Density @ 60F/60F	0.3278
Compressibility, 'z'	0.9974
Molecular Weight of gas	18.64

Jim Etherton
Laboratory Operations Manager

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GWF Power
4300 Railroad Avenue
Pittsburg, CA 945656006

Attention: Bob Okubo

Sample Type: Gas/NGL/LPG

Description: Natrual Gas Main to Plant
Sampled by Tim Mason

Laboratory No: 0007433-1
Date Received: 07/31/00
Date Reported: 08/17/00
Contract No. :
Date Sampled : 07/31/00
Time Sampled : 10:50

REPORT OF ANALYTICAL RESULTS

Constituents	Results	Units	DLR	Method/Ref
Total Sulfur				
Hydrogen Sulfide, Total H2S	1.3	ppmv	1.0	D-3246/3
Total Sulfur, S	0.08	Gr/100 SCF	0.06	D-3246/3

Date Analyzed: 08/04/00 JAR

Jim Epperton, Lab Operations Manager

cc.

Method References
3. Annual Book of A.S.T.M. Standards
41 South Coast AQMD

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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Atmospheric Analysis & Consulting, Inc.

LABORATORY ANALYSIS REPORT

CLIENT	: Zalco Laboratories, Inc.	SAMPLING DATE	: 7/31/2000
PROJECT NUMBER	: 300-02-2295	RECEIVING DATE	: 8/1/2000
UNITS	: PPBV	ANALYSIS DATE	: 8/2/2000
DETECTION LIMIT	: 50 PPBV	REPORT DATE	: 8/16/2000

	Client ID	Sample 1
Compounds	AAC-ID	22140-1
H_2S		<50
Carbonyl Sulfide + SO2		403
Methyl Mercaptan		<50
Ethyl Mercaptan		<50
Propyl Mercaptan		<50
Carbon Disulfide		<50
Dimethyl Sulfide		<50
Allyl Sulfide		<50
Propyl Sulfide		<50
Allyl disulfide		<50
Butyl Sulfide		<50
Isopropyl Mercaptan		<50
t-Butyl mercaptan		<50
Ethyl methyl sulfide		<50
Thiophene		<50
Isobutyl mercaptan		<50
Dimethyl disulfide		<50
Diethyl sulfide		<50
n-Butyl mercaptan		<50
Allyl mercaptan		<50
3-Methylthiophene		<50
Tetrahydrothiophene		<50
2-Ethylthiophene		<50
2,5-Dimethylthiophene		<50
Diethyl disulfide		<50

Dr. Sucha Parmar
President

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