APPENDIX B

LABORATORY REPORTS

1. OIL API GRAVITY and TVP
2. STORAGE TANK HEADSPACE VOCs
3. GAS PLANT PROCESSED GAS
4. FUGITIVE EMISSIONS
5. GAS PLANT INLET GAS

OILFIELD ENVIRONMENTAL AND COMPLIANCE

Client: Plains Exploration & Production	SAMPLE ID: 07-2871-1
1821 Price Canyon Road	Date Sampled: 12/06/07
San Luis Obispo, CA 93401	Date Analyzed: 12/07/07
Attn: Paul Delorenzo	Date Received: 12/06/07
Project: A.G. HRA	
Site: Price Canyon	Lab Contact: J. Carstens

Report Of Analytical Results

OEC ID	Client ID	Constituent	Results	Units	Method	PQL
07-2871-1	TK 10436	API Gravity	14.1	API	ASTM D-287	0.1
		Vapor Pressure @ 165°F	0.432	psi	HOST[1]	0.005

[1]Test Method for Vapor Pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatography, Revised Draft, calculation from page 6. David Littlejohn and Donald Lucas, Lawrence Berkeley National Laboratory, March 1, 2000. Results listed as ND would have been reported if present at or above the listed PQL(Practical Quantitation Limit).

Julius G. Carstens, Lab Director

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OILFIELD ENVIRONMENTAL AND COMPLIANCE, INC.

Client:	Plains Exploration & Production	SAMPLE ID:	07-2871-2
	1821 Price Canyon Road	Date Received:	12/6/07
	San Luis Obispo, CA 93401	Date Sampled:	12/6/07
Attn:	Paul Delorenzo	Date Analyzed:	12/7/07
Project:	A.G. HRA		
Client ID:	Stock Tank Headspace		
Matrix	Gas	Lab Contact:	J. Carstens

Report Of Analytical Results
TO-14 (VOLATILE ORGANIC COMPOUNDS)

Constituents	Analysis Results	PQL (ppbv)
1,1,1,2-Tetrachloroethane	ND	125
1,1,1-Trichloroethane	ND	125
1,1,2,2-Tetrachloroethane	ND	125
1,1,2-Trichloroethane	ND	125
1,1-Dichloroethane	ND	125
1,1-Dichloroethene	ND	125
1,1-Dichloropropene	ND	125
1,2,3-Trichlorobenzene	ND	125
1,2,3-Trichloropropane	ND	125
1,2,4-Trichlorobenzene	ND	125
1,2,4-Trimethylbenzene	ND	125
1,2-Dibromo-3-Chloropropane	ND	125
1,2-Dibromoethane (EDB)	ND	125
1,2-Dichlorobenzene	ND	125
1,2-Dichloroethane (EDC)	ND	125
1,2-Dichloropropane	ND	125
1,3,5-Trimethylbenzene	ND	125
1,3-Dichlorobenzene	ND	125
1,4-Dichlorobenzene	ND	125
2,2-Dichloropropane	ND	125
2-Chlorotoluene	ND	125
4-Chlorotoluene	ND	125
4-Isopropyltoluene	ND	125
Benzene	6500	125
Bromobenzene	ND	125
Bromodichloromethane	ND	125
Bromoform	ND	125
Bromomethane	ND	125

Test Method: EPA TO-14
PQL = Practical Quantitation Limit
Results listed as ND would have been reported if present at or above the listed PQL.
Raised PQL's due to dilution

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OILFIELD ENVIRONMENTAL AND COMPLIANCE, INC.

Client:	Plains Exploration & Production	SAMPLE ID:	07-2871-2
	1821 Price Canyon Road	Date Received:	12/6/07
	San Luis Obispo, CA 93401	Date Sampled:	12/6/07
Attn:	Paul Delorenzo	Date Analyzed:	12/7/07
Project:	A.G. HRA		
Client ID:	Stock Tank Headspace		
Matrix	Gas	Lab Contact:	J. Carstens

Report Of Analytical Results
TO-14 (VOLATILE ORGANIC COMPOUNDS)

Constituents	Analysis Results	PQL (ppbv)
Carbon Tetrachloride	ND	125
Chlorobenzene	ND	125
Chlorodifluoromethane	ND	125
Chloroethane	ND	250
Chloroform	ND	125
Chloromethane	ND	500
cis-1,2-Dichloroethene	ND	125
cis-1,3-Dichloropropene	ND	125
Dibromochloromethane	ND	125
Dibromomethane	ND	125
Dichlorodifluoromethane	ND	500
Ethylbenzene	310	125
Isopropylbenzene	ND	125
Methylene Chloride	ND	250
Styrene	ND	125
Napthalene	ND	125
n-Butylbenzene	ND	125
n-Propylbenzene	ND	125
sec-Butylbenzene	ND	125
tert-Butylbenzene	ND	125
Tetrachloroethene (PCE)	ND	125
Toluene	1000	125
trans-1,2-Dichloroethene	ND	125
trans-1,3-Dichloropropene	ND	125
Trichloroethene (TCE)	ND	125
Trichlorofluoromethane	ND	125

Test Method: EPA TO-14
PQL = Practical Quantitation Limit
Results listed as ND would have been reported if present at or above the listed PQL.
Raised PQL's due to dilution

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OILFIELD ENVIRONMENTAL AND COMPLIANCE, INC.

Client:	Plains Exploration & Production	SAMPLE ID:	07-2871-2
	1821 Price Canyon Road	Date Received:	12/6/07
	San Luis Obispo, CA 93401	Date Sampled:	12/6/07
Attn:	Paul Delorenzo	Date Analyzed:	12/7/07
Project:	A.G. HRA		
Client ID:	Stock Tank Headspace		
Matrix	Gas	Lab Contact:	J. Carstens

Report Of Analytical Results
TO-14 (VOLATILE ORGANIC COMPOUNDS)

Constituents	Analysis Results	PQL (ppbv)
Vinyl Chloride	ND	125
Xylenes (m,p)	200	125
Xylene (o)	ND	125
Percent Surrogate Recovery (Dibromofluoromethane)		93
Percent Surrogate Recovery (Toluene-d8)		125
Percent Surrogate Recovery (4-Bromofluorobenzene)		111

Test Method: EPA TO-14
PQL = Practical Quantitation Limit
Results listed as ND would have been reported if present at or above the listed PQL.
Raised PQL's due to dilution

Julius G. Carstens, Lab Director

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OILFIELD ENVIRONMENTAL AND COMPLIANCE, INC.

Client:	Plains Exploration & Production	SAMPLE ID:	06-740-1
	1821 Price Canyon Rd	Date Sampled:	03/31/06 @ 1100
	San Luis Obispo, CA 93401	Date Analyzed:	04/01/06 @ 0223
Attn:	Paul Delorenzo	Lab Contact:	J. Carstens
Facility:	Price Canyon Facility	Meter:	-
Description:	Fuel Gas Outlet	Pressure:	260 psig
Note:	1st Quarter Gas Samples	Temp:	60 °F

Gas Analysis by Chromatography - ASTM D 1945/3588

Component	Mole %	Weight %	G/MCF
Oxygen	0.00	0.00	-
Nitrogen	1.72	1.52	-
Carbon Dioxide	54.39	75.51	-
Hydrogen Sulfide	0.00	0.00	-
Methane	42.68	21.60	-
Ethane	0.90	0.85	0.229
Propane	0.14	0.19	0.038
i-Butane	0.15	0.27	0.049
n-Butane	0.03	0.05	0.008
neo-Pentane	0.00	0.00	0.000
i-Pentane	0.00	0.00	0.000
n-Pentane	0.00	0.00	0.000
2,2-Dimethylbutane	0.00	0.00	0.000
2,3-Dimethylbutane	0.00	0.00	0.000
2-Methylpentane	0.00	0.00	0.000
3-Methylpentane	0.00	0.00	0.000
n-Hexane	0.00	0.00	0.000
Hexanes Plus	0.00	0.00	0.000
Totals	100.0	100.0	0.324

Specific Gravity, Calculated	1.0944 air = 1			
Compressibility (Z) Factor	0.9962		CHONS	Weight %
			Carbon	37.90
Gross Calorific Value			Hydrogen	5.69
BTU/ft^3 dry	456.2		Oxygen	54.89
BTU/ft^3 wet	448.2		Nitrogen	1.52
			Sulfur	0.00
Net Calorific Value				
BTU/ft^3 dry	411.2	EPA 'F' Factor (60°F, 1ATM)		9724.9
BTU/ft^3 wet	404.0	SDCF/MMBTU		

Hydrogen Sulfide = ND ppm

ND: None Detected NA: Not Analyzed G/MCF: Gallons/Thousand Cubic Feet

OILFIELD ENVIRONMENTAL AND COMPLIANCE, INC.

Client:	Plains Exploration & Production	SAMPLE ID:	06-1442-1
	1821 Price Canyon Rd.	Date Sampled:	06/26/06
	San Luis Obispo CA 93401	Date Analyzed:	06/26/06 @ 1116
Attn:	Mr Paul Delorenzo	Lab Contact:	J. Carstens
Facility:	Price Canyon	Meter:	-
Description:	Fuel Gas Outlet	Pressure:	255 psig
Note:	2nd Quarter Gas Samples	Temp:	- °F

Gas Analysis by Chromatography - ASTM D 1945/3588

Component	Mole %	Weight %	G/MCF
Oxygen	0 00	0 00	-
Nitrogen	1.49	1.27	-
Carbon Dioxide	58 30	78 11	-
Hydrogen Sulfide	0.00	0.00	-
Methane	38.84	18.97	-
Ethane	0.89	0.81	0.227
Propane	0.15	0.20	0.040
i-Butane	0.18	0.32	0.059
n-Butane	0.03	0.05	0.010
neo-Pentane	0.06	0.13	0.022
i-Pentane	0.06	0.13	0.022
n-Pentane	0.00	0.00	0.000
2,2-Dimethylbutane	0 00	0 00	0 000
2,3-Dimethylbutane	0.00	0.00	0.000
2-Methylpentane	0.00	0.00	0.000
3-Methylpentane	0.00	0.00	0.000
n-Hexane	0.00	0.00	0.000
Hexanes Plus	0 00	0 00	0 000
Totals	100.0	100.0	0.379

Specific Gravity, Calculated	1.1342	air = 1	**B/MCF =**	**0.009**
Compressibility (Z) Factor	0.9960		CHONS	Weight %
			Carbon	36.87
Gross Calorific Value			Hydrogen	5.08
BTU/ft^3 dry	423.4		Oxygen	56.79
BTU/ft^3 wet	416.0		Nitrogen	1.27
			Sulfur	0.00
Net Calorific Value				
BTU/ft^3 dry	381.8	EPA 'F' Factor (60°F, 1ATM)		9912.5
BTU/ft^3 wet	375.2	SDCF/MMBTU		

Hydrogen Sulfide = ND ppm

ND: None Detected NA: Not Analyzed G/MCF: Gallons/Thousand Cubic Feet

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OILFIELD ENVIRONMENTAL AND COMPLIANCE, INC.

Client:	Plains Exploration & Production	SAMPLE ID:	06-1949-1
	1821 Price Canyon Rd	Date Sampled:	08/25/06 @ 1205
	San Luis Obispo, CA 93401	Date Analyzed:	08/25/06 @ 1340
Attn:	Paul Delorenzo	Lab Contact:	J. Carstens
Facility:	Price Canyon Facility	Meter:	-
Description:	Fuel Gas Outlet	Pressure:	262 psig
Note:	3rd Quarter Gas Samples	Temp:	78 °F

Gas Analysis by Chromatography - ASTM D 1945/3588

Component	Mole %	Weight %	G/MCF
Oxygen	0.00	0.00	-
Nitrogen	1.31	1.08	-
Carbon Dioxide	62.36	80.94	-
Hydrogen Sulfide	0.00	0.00	-
Methane	35.19	16.65	-
Ethane	0.72	0.64	0.183
Propane	0.14	0.18	0.038
i-Butane	0.18	0.31	0.059
n-Butane	0.06	0.10	0.018
neo-Pentane	0.00	0.00	0.000
i-Pentane	0.04	0.09	0.016
n-Pentane	0.00	0.00	0.000
2,2-Dimethylbutane	0.00	0.00	0.000
2,3-Dimethylbutane	0.00	0.00	0.000
2-Methylpentane	0.00	0.00	0.000
3-Methylpentane	0.00	0.00	0.000
n-Hexane	0.00	0.00	0.000
Hexanes Plus	0.00	0.00	0.000
Totals	100.0	100.0	0.314

Specific Gravity, Calculated	1.1707 air = 1			
Compressibility (Z) Factor	0.9959		CHONS	Weight %
			Carbon	35.64
Gross Calorific Value			Hydrogen	4.43
BTU/ft^3 dry	381.1		Oxygen	58.85
BTU/ft^3 wet	374.4		Nitrogen	1.08
			Sulfur	0.00
Net Calorific Value				
BTU/ft^3 dry	343.6	EPA 'F' Factor (60°F, 1ATM)		10169.8
BTU/ft^3 wet	337.6	SDCF/MMBTU		

Hydrogen Sulfide = 2.0 ppm

ND: None Detected NA: Not Analyzed G/MCF: Gallons/Thousand Cubic Feet

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OILFIELD ENVIRONMENTAL AND COMPLIANCE, INC.

Client:	Plains Exploration & Production	SAMPLE ID:	06-2757-1
	1821 Price Canyon Rd	Date Sampled:	11/21/06 @ 0938
	San Luis Obispo, CA 93401	Date Analyzed:	11/21/06 @ 1150
Attn:	Paul Delorenzo	Lab Contact:	J. Carstens
Facility:	Price Canyon Facility	Meter:	-
Description:	Fuel Gas Outlet	Pressure:	255 psig
Note:	4th Quarter Gas Samples	Temp:	56 °F

Gas Analysis by Chromatography - ASTM D 1945/3588

Component	Mole %	Weight %	G/MCF
Oxygen	0.00	0.00	-
Nitrogen	1.09	0.85	-
Carbon Dioxide	69.61	85.08	-
Hydrogen Sulfide	0.00	0.00	-
Methane	27.99	12.47	-
Ethane	0.67	0.56	0.171
Propane	0.17	0.21	0.047
i-Butane	0.22	0.36	0.072
n-Butane	0.09	0.14	0.028
neo-Pentane	0.00	0.00	0.000
i-Pentane	0.16	0.33	0.060
n-Pentane	0.00	0.00	0.000
2,2-Dimethylbutane	0.00	0.00	0.000
2,3-Dimethylbutane	0.00	0.00	0.000
2-Methylpentane	0.00	0.00	0.000
3-Methylpentane	0.00	0.00	0.000
n-Hexane	0.00	0.00	0.000
Hexanes Plus	0.00	0.00	0.000
Totals	100.0	100.0	0.378

Specific Gravity, Calculated	1.2431	air = 1		
Compressibility (Z) Factor	0.9955		CHONS	Weight %
			Carbon	33.88
Gross Calorific Value			Hydrogen	3.43
BTU/ft^3 dry	315.5		Oxygen	61.85
BTU/ft^3 wet	310.1		Nitrogen	0.85
			Sulfur	0.00
Net Calorific Value				
BTU/ft^3 dry	284.8	EPA 'F' Factor (60°F, 1ATM)		10749.4
BTU/ft^3 wet	279.8	SDCF/MMBTU		

Hydrogen Sulfide = 1.1 ppm

ND: None Detected NA: Not Analyzed G/MCF: Gallons/Thousand Cubic Feet

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OILFIELD ENVIRONMENTAL AND COMPLIANCE, INC.

Client:	Plains Exploration & Production	SAMPLE ID:	06-740-2
	1821 Price Canyon Rd	Date Sampled:	03/31/06 @ 1105
	San Luis Obispo, CA 93401	Date Analyzed:	04/01/06 @ 0249
Attn:	Paul Delorenzo	Lab Contact:	J. Carstens
Facility:	Price Canyon Facility	Meter:	-
Description:	Inlet to Gas Plant	Pressure:	270 psig
Note:	1st Quarter Gas Samples	Temp:	68 °F

Gas Analysis by Chromatography - ASTM D 1945/3588

Component	Mole %	Weight %	G/MCF
Oxygen	0.00	0.00	-
Nitrogen	1.04	0.77	-
Carbon Dioxide	73.05	84.64	-
Hydrogen Sulfide	1.79	1.61	-
Methane	21.77	9.20	-
Ethane	0.55	0.44	0.141
Propane	0.14	0.17	0.040
i-Butane	0.25	0.38	0.082
n-Butane	0.13	0.20	0.042
neo-Pentane	0.02	0.03	0.007
i-Pentane	0.58	1.11	0.213
n-Pentane	0.13	0.26	0.049
2,2-Dimethylbutane	0.01	0.02	0.004
2,3-Dimethylbutane	0.37	0.84	0.135
2-Methylpentane	0.00	0.00	0.000
3-Methylpentane	0.00	0.00	0.000
n-Hexane	0.00	0.00	0.000
Hexanes Plus	0.14	0.32	0.060
Totals	100.0	100.0	0.770

Specific Gravity, Calculated	1.3114 air = 1			
Compressibility (Z) Factor	0.9949		CHONS	Weight %
			Carbon	33.03
Gross Calorific Value			Hydrogen	3.06
BTU/ft^3 dry	311.5		Oxygen	61.54
BTU/ft^3 wet	306.1		Nitrogen	0.77
			Sulfur	1.61
Net Calorific Value				
BTU/ft^3 dry	282.5	EPA 'F' Factor (60°F, 1ATM)		10548.6
BTU/ft^3 wet	277.6	SDCF/MMBTU		

Hydrogen Sulfide = 18,000 ppm

ND: None Detected NA: Not Analyzed G/MCF: Gallons/Thousand Cubic Feet

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OILFIELD ENVIRONMENTAL AND COMPLIANCE, INC.

Client:	Plains Exploration & Production	SAMPLE ID:	06-1442-2
	1821 Price Canyon Rd.	Date Sampled:	06/26/06
	San Luis Obispo CA 93401	Date Analyzed:	06/26/06 @ 1225
Attn:	Mr. Paul Delorenzo	Lab Contact:	J. Carstens
Facility:	Price Canyon	Meter:	-
Description:	Inlet to Gas Plant	Pressure:	- psig
Note:	2nd Quarter Gas Samples	Temp:	- °F

Gas Analysis by Chromatography - ASTM D 1945/3588

Component	Mole %	Weight %	G/MCF
Oxygen	0.00	0.00	-
Nitrogen	0.81	0.60	-
Carbon Dioxide	71.57	82.69	-
Hydrogen Sulfide	3.14	2.81	-
Methane	21.65	9.12	-
Ethane	0.56	0.44	0.142
Propane	0.13	0.15	0.035
i-Butane	0.28	0.42	0.090
n-Butane	0.15	0.23	0.047
neo-Pentane	0.00	0.00	0.000
i-Pentane	0.75	1.41	0.273
n-Pentane	0.17	0.33	0.063
2,2-Dimethylbutane	0.01	0.03	0.005
2,3-Dimethylbutane	0.56	1.28	0.204
2-Methylpentane	0.00	0.00	0.000
3-Methylpentane	0.00	0.00	0.000
n-Hexane	0.01	0.03	0.006
Hexanes Plus	0.20	0.46	0.085
Totals	100.0	100.0	0.950

Specific Gravity, Calculated	1.3151	air = 1	**B/MCF =**	**0.023**
Compressibility (Z) Factor	0.9947		CHONS	Weight %
			Carbon	33.20
Gross Calorific Value			Hydrogen	3.27
BTU/ft^3 dry	340.1		Oxygen	60.12
BTU/ft^3 wet	334.2		Nitrogen	0.60
			Sulfur	2.81
Net Calorific Value				
BTU/ft^3 dry	309.0	EPA 'F' Factor (60°F, 1ATM)		10093.0
BTU/ft^3 wet	303.6	SDCF/MMBTU		

Hydrogen Sulfide = 31600 ppm

ND: None Detected NA: Not Analyzed G/MCF: Gallons/Thousand Cubic Feet

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OILFIELD ENVIRONMENTAL AND COMPLIANCE, INC.

Client:	Plains Exploration & Production	SAMPLE ID:	06-1949-2
	1821 Price Canyon Rd	Date Sampled:	08/25/06 @ 1200
	San Luis Obispo, CA 93401	Date Analyzed:	08/25/06 @ 1301
Attn:	Paul Delorenzo	Lab Contact:	J. Carstens
Facility:	Price Canyon Facility	Meter:	-
Description:	Inlet to Gas Plant	Pressure:	267 psig
Note:	3rd Quarter Gas Samples	Temp:	92 °F

Gas Analysis by Chromatography - ASTM D 1945/3588

Component	Mole %	Weight %	G/MCF
Oxygen	0.39	0.32	-
Nitrogen	0.64	0.46	-
Carbon Dioxide	76.51	86.38	-
Hydrogen Sulfide	2.12	1.85	-
Methane	18.23	7.50	-
Ethane	0.41	0.31	0.104
Propane	0.11	0.12	0.030
i-Butane	0.21	0.31	0.068
n-Butane	0.11	0.16	0.035
neo-Pentane	0.01	0.02	0.003
i-Pentane	0.58	1.06	0.210
n-Pentane	0.13	0.24	0.048
2,2-Dimethylbutane	0.00	0.00	0.000
2,3-Dimethylbutane	0.40	0.89	0.147
2-Methylpentane	0.00	0.00	0.000
3-Methylpentane	0.00	0.00	0.000
n-Hexane	0.01	0.02	0.004
Hexanes Plus	0.14	0.32	0.060
Totals	100.0	100.0	0.709

Specific Gravity, Calculated	1.3458 air = 1			
Compressibility (Z) Factor	0.9947		CHONS	Weight %
			Carbon	31.97
Gross Calorific Value			Hydrogen	2.59
BTU/ft^3 dry	273.0		Oxygen	63.12
BTU/ft^3 wet	268.3		Nitrogen	0.46
			Sulfur	1.85
Net Calorific Value				
BTU/ft^3 dry	247.9	EPA 'F' Factor (60°F, 1ATM)		10891.9
BTU/ft^3 wet	243.6	SDCF/MMBTU		

Hydrogen Sulfide = 26,000 ppm

ND: None Detected NA: Not Analyzed G/MCF: Gallons/Thousand Cubic Feet

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OILFIELD ENVIRONMENTAL AND COMPLIANCE, INC.

Client:	Plains Exploration & Production	SAMPLE ID:	06-2757-2
	1821 Price Canyon Rd	Date Sampled:	11/21/06 @ 0945
	San Luis Obispo, CA 93401	Date Analyzed:	11/21/06 @ 1220
Attn:	Paul Delorenzo	Lab Contact:	J. Carstens
Facility:	Price Canyon Facility	Meter:	-
Description:	Inlet Gas to Gas Plant	Pressure:	262 psig
Note:	4th Quarter Gas Samples	Temp:	58 °F

Gas Analysis by Chromatography - ASTM D 1945/3588

Component	Mole %	Weight %	G/MCF
Oxygen	0.00	0.00	-
Nitrogen	0.63	0.45	-
Carbon Dioxide	77.40	86.19	-
Hydrogen Sulfide	3.88	3.34	-
Methane	15.88	6.45	-
Ethane	0.41	0.31	0.104
Propane	0.14	0.15	0.037
i-Butane	0.24	0.35	0.078
n-Butane	0.12	0.18	0.038
neo-Pentane	0.02	0.04	0.008
i-Pentane	0.63	1.15	0.230
n-Pentane	0.15	0.27	0.054
2,2-Dimethylbutane	0.02	0.03	0.005
2,3-Dimethylbutane	0.35	0.77	0.128
2-Methylpentane	0.00	0.00	0.000
3-Methylpentane	0.00	0.00	0.000
n-Hexane	0.01	0.02	0.005
Hexanes Plus	0.13	0.29	0.055
Totals	100.0	100.0	0.742

Specific Gravity, Calculated	1.3645	air = 1		
Compressibility (Z) Factor	0.9945		CHONS	Weight %
			Carbon	31.12
Gross Calorific Value			Hydrogen	2.43
BTU/ft^3 dry	263.6		Oxygen	62.66
BTU/ft^3 wet	259.1		Nitrogen	0.45
			Sulfur	3.34
Net Calorific Value				
BTU/ft^3 dry	239.7	EPA 'F' Factor (60°F, 1ATM)		10648.5
BTU/ft^3 wet	235.5	SDCF/MMBTU		

Hydrogen Sulfide = 40,000 ppm

ND: None Detected NA: Not Analyzed G/MCF: Gallons/Thousand Cubic Feet

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