

16.11.98

AMBIENT MONITOR

14:27 11/16/98

O2 FLOW L/MIN 2.919
 C. CELL THP. °C 50.4
 S. CELL THP. °C 48.3
 OVEN THP. °C 48.5
 CRT. HTR. THP. °C 342.2
 5 REFF. 5.00
 5 VOLT + 5.00
 24 VOLT + 23.98
 30 VOLT + 29.99
 15 VOLT +/- 14.99
 C. EMTR. 5.50
 S. EMTR. 5.50
 C. IR CELL 8.731
 S. IR CELL 8.509

14:39 11/16/98

ID CODE 000000042 WTD. 1029 CAL#1

CARBON 12.00% SULFUR .000042%
OXYGEN FLOW 2.994

-C- -S-

BLANK +.000000 +.000000
 TIME 40. 30.
 PEAK 16070. 0.
 CALIB. 0.6592 0.8981
 K FRC. 0.9710 0.9725

14:31 11/16/98

ID CODE 000000043 WTD. 1029 CAL#1

CARBON 12.22% SULFUR .000158%
OXYGEN FLOW 3.099

-C- -S-

BLANK +.000000 +.000000
 TIME 40. 30.
 PEAK 14537. 0.
 CALIB. 0.6592 0.8981
 K FRC. 0.9899 0.9911

14:33 11/16/98

ID CODE 000000044 WTD. 1019 CAL#1

CARBON 13.10% SULFUR .000079%
OXYGEN FLOW 3.219

-C- -S-

BLANK +.000000 +.000000
 TIME 40. 30.
 PEAK 14948. 0.
 CALIB. 0.6592 0.8981
 K FRC. 1.0093 1.0109

14:34 11/16/98

ID CODE 000000045 WTD. 9979 CAL#1

CARBON 0.8770% SULFUR .000000%
OXYGEN FLOW 3.177

-C- -S-

BLANK +.000000 +.000000
 TIME 40. 30.
 PEAK 9705. 0.
 CALIB. 0.6592 0.8981
 K FRC. 1.0037 1.0049

14:34 11/16/98

ID CODE 000000046 WTD. 9959 CAL#1
 CARBON 0.8791% SULFUR .000000%
OXYGEN FLOW 3.165

-C- -S-

BLANK +.000000 +.000000

TIME 40. 30.

PEAK 9631. 0.

CALIB. 0.6592 0.8981

K FRC. 1.0013 1.0029

14:39 11/16/98

ID CODE 000000047 WTD. 9920 CAL#1
 CARBON 0.8740% SULFUR .000007%
OXYGEN FLOW 3.120

-C- -S-

BLANK +.000000 +.000000

TIME 40. 30.

PEAK 8856. 0.

CALIB. 0.6592 0.8981

K FRC. 0.9933 0.9949

14:41 11/16/98

ID CODE 000000048 WTD. 9050 CAL#1
 CARBON 0.8848% SULFUR .000007%
OXYGEN FLOW 3.148

-C- -S-

BLANK +.000000 +.000000

TIME 40. 30.

PEAK 8939. 0.

CALIB. 0.6592 0.8981

K FRC. 0.9986 0.9999

HR STACK CALIBRATION %%

14:41 11/16/98

ID CODE WEIGHT CARBON% SULFUR%
 000000048 1.9959 0.8848 .000007
 000000047 1.9920 0.8740 .000007
 000000046 0.9959 0.8791 .000004
 000000045 0.9979 0.8770 .000000
 000000044 0.1010 13.10 .00079
 000000043 0.1020 12.22 .00018
 000000042 0.1080 12.94 .00043
 000000041 0.0580 2.291 .00045
 000000040 0.0739 3.640 .00096
 000000039 0.1010 12.13 .00042

CARBON STD.% 80.8220
 OLD C-CAL -1- 0.6592
 INCLUIDE CARBON
 000000048 0.8848
 000000047 0.8740
 000000046 0.8791
 000000045 0.8770
 NEW C-CAL -1- 0.6166

Std.

0.822

46-11.98

14:42 11/16/98

17 CODE 000000049 MT9 1000 CAL#1
 100000049 1.8059 0.8277 .000007
 100000047 1.8029 0.8176 .000007
 100000046 0.9950 0.8224 .000004
 100000045 0.8870 0.8284 .000000
 100000044 0.1819 12.26 .000079
 100000043 0.1829 11.43 .000010
 100000042 0.1089 11.26 .000043
 100000041 0.0599 2.143 .000045
 100000040 0.0520 3.425 .000086
 100000039 0.1819 11.34 .000042

BBP END CALIBRATION ***
 14:44 11/16/98

17 CODE 000000049 MT1 0849 CAL#1
 100000049 0.8227% SULFUR .000021
 OXYGEN FLOW 3.134

Std.

-C- -S-

0.822 BLANK + .000000 + .000000
 TIME 40. 30.
 PEAK 8967. 0.
 CALIB. 0.6166 0.8981
 K FPC. 0.9951 0.9974

14:45 11/16/98

17 CODE 000000050 MT9 1000 CAL#1
 100000050 12.58% SULFUR .000059
 OXYGEN FLOW 3.195

-C- -S-

Caco₃ BLANK + .000000 + .000000
 TIME 40. 30.
 PEAK 13995. 0.
 CALIB. 0.6166 0.8981
 K FPC. 1.0069 1.0082

14:47 11/16/98

17 CODE 000000051 MT9 0520 CAL#1
 100000051 3.94% SULFUR .000041
 OXYGEN FLOW 3.197

-C- -S-

WSTZ BLANK + .000000 + .000000
 TIME 40. 30.
 PEAK 2300. 0.
 CALIB. 0.6166 0.8981
 K FPC. 1.0070 1.0085

14:48 11/16/98

17 CODE 000000052 MT1 0848 CAL#1
 100000052 0.8332% SULFUR .000034
 OXYGEN FLOW 3.209

-C- -S-

793 BLANK + .000000 + .000000
 TIME 40. 30.
 PEAK 9223. 0.
 CALIB. 0.6166 0.8981
 K FPC. 1.0091 1.0107

14:59 11/16/98

17 CODE 000000053 MT9 1010 CAL#1
 100000053 8.650% SULFUR .000041
 OXYGEN FLOW 3.233

-C- -S-

793 BLANK + .000000 + .000000
 TIME 40. 30.
 PEAK 10547. 0.
 CALIB. 0.6166 0.8981
 K FPC. 1.0136 1.0149

14:52 11/16/98

17 CODE 000000054 MT9 1000 CAL#1
 100000054 8.937% SULFUR .000059
 OXYGEN FLOW 3.229

-C- -S-

798 BLANK + .000000 + .000000
 TIME 40. 30.
 PEAK 10317. 0.
 CALIB. 0.6166 0.8981
 K FPC. 1.0129 1.0142

14:53 11/16/98

17 CODE 000000055 MT9 1010 CAL#1
 100000055 9.220% SULFUR .000063
 OXYGEN FLOW 3.230

-C- -S-

800 BLANK + .000000 + .000000
 TIME 40. 30.
 PEAK 9951. 0.
 CALIB. 0.6166 0.8981
 K FPC. 1.0131 1.0144

14:55 11/16/98

17 CODE 000000056 MT9 1000 CAL#1
 100000056 6.100% SULFUR .000046
 OXYGEN FLOW 3.204

-C- -S-

808 BLANK + .000000 + .000000
 TIME 40. 30.
 PEAK 6646. 0.
 CALIB. 0.6166 0.8981
 K FPC. 1.0082 1.0099

14:59 11/16/98

17 CODE 000000057 MT9 1000 CAL#1
 100000057 6.249% SULFUR .000051
 OXYGEN FLOW 3.205

-C- -S-

813 BLANK + .000000 + .000000
 TIME 40. 30.
 PEAK 6798. 0.
 CALIB. 0.6166 0.8981
 K FPC. 1.0087 1.0099

15:02 11/16/98

17 CODE 000000058 MT9 1000 CAL#1
 100000058 7.757% SULFUR .000068
 OXYGEN FLOW 3.208

-C- -S-

818 BLANK + .000000 + .000000
 TIME 40. 30.
 PEAK 7503. 0.
 CALIB. 0.6166 0.8981
 K FPC. 1.0078 1.0098

BBP CLEARING TIME ***

15:04 11/16/98

17 CODE 000000059 MT9 1000 CAL#1
 100000059 5.822% SULFUR .000071
 OXYGEN FLOW 3.222

-C- -S-

823 BLANK + .000000 + .000000
 TIME 40. 30.
 PEAK 6892. 0.
 CALIB. 0.6166 0.8981
 K FPC. 1.0117 1.0130

15:06 11/16/98

16.11.98

Cges.

17. 100% 0000000000 MT0 1990 CAL#1
 SULFUR 5.24% SULFUR 000000%
 OXYGEN FLOW 3.216
 -C- -S-
 BLANK + 000000 + 000000

828

TIME 40 30
 PEAK 5432 0.
 CALIB 9.6166 0.9981
 V FRC 1.0126 1.0119
 15:07 11/16/98

17. 100% 0000000001 MT0 0000 CAL#1
 SULFUR 6.818% SULFUR 000049%
 OXYGEN FLOW 3.220
 -C- -S-
 BLANK + 000000 + 000000

833

TIME 40 30
 PEAK 7653 0.
 CALIB 9.6166 0.9981
 V FRC 1.0114 1.0126
 15:09 11/16/98

17. 100% 0000000002 MT0 1990 CAL#1
 SULFUR 7.463% SULFUR 000075%
 OXYGEN FLOW 3.212
 -C- -S-
 BLANK + 000000 + 000000

838

TIME 40 30
 PEAK 7765 0.
 CALIB 9.6166 0.9981
 V FRC 1.0099 1.0112
 15:12 11/16/98

17. 100% 0000000003 MT1 0050 CAL#1
 SULFUR 0.8459% SULFUR 000007%
 OXYGEN FLOW 3.191
 -C- -S-

0.822

BLANK + 000000 + 000000
 TIME 40 30
 PEAK 8721 0.
 CALIB 9.6166 0.9981
 V FRC 1.0059 1.0074
 15:14 11/16/98

std.

17. 100% 0000000004 MT0 1930 CAL#1
 SULFUR 12.40% SULFUR 000069%
 OXYGEN FLOW 3.225
 -C- -S-

CaCO₃

BLANK + 000000 + 000000
 TIME 40 30
 PEAK 12947 0.
 CALIB 9.6166 0.9981
 V FRC 1.0119 1.0135
 15:15 11/16/98

17. 100% 0000000005 MT0 0500 CAL#1
 SULFUR 3.908% SULFUR 000140%
 OXYGEN FLOW 3.210
 -C- -S-

L852

BLANK + 000000 + 000000
 TIME 40 30
 PEAK 20009 0.
 CALIB 9.6166 0.9981
 V FRC 1.0096 1.0109

17. 100% 0000000006 MT1 0049 CAL#1
 SULFUR 0.0000000000 SULFUR 000000%
 OXYGEN FLOW 3.226
 -C- -S-
 BLANK + 000000 + 000000
 TIME 40 30
 PEAK 0362 0.
 CALIB 9.6166 0.9981
 V FRC 1.0124 1.0137

17.11.98

MOL-5

C ges.

DATA ENTRY VERIFIED

$$f_{\text{obs}} = \frac{f_{\text{true}}}{n_{\text{obs}}} = \frac{f_{\text{true}}}{n_{\text{true}}} \cdot \frac{n_{\text{true}}}{n_{\text{obs}}} = f_{\text{true}} \cdot \frac{n_{\text{true}}}{n_{\text{obs}}}$$

卷之三

CaCO_3

PLATEAU	4	0.000000	4	0.000000
TIME		0.0		0.0
DETAILED		11.0000		0
CPN TS	0	0.0000	0	0.0000
CPN TOT	1	0.0100	1	0.0100
		10.9800	11.017400	

CaCO_3

10.000	1000000	1000000
10000	100000	100000
100000	10000000	10000000
1000000	100000000	100000000
10000000	1000000000	1000000000

1. **ANSWER** **THE** **QUESTION** **IN** **ONE** **SENTENCE**

84.

0.822 %

2012-01-01 + 00000000000000000000000000000000

Std.

Std.

PI. DATE	4-000000	4-000000
TIME	49	30
SEED	7004	0
PER. IR.	5.6166	5.8981
PI. DPT	1-0149	1-0167

אֶלְעָזָר בֶּן-בָּנָי אַבְרָהָם וְשֵׁם

CD-ROM	CD-R	BB	BB-BB
CD-R C-CAL -1 -		0.6166	
CD-R C-CAL	CD-RW	CD-RW	CD-RW
CD-RW C-CAL	-1 -	0.8514	
CD-RW C-CAL	-1 -	0.8563	
CD-RW C-CAL	-1 -	0.8515	
CD-RW C-CAL	-1 -	0.8483	
NEW C-CAL	-1 -	0.5956	

10:53 11/17/91
 ID CODE 000000073 WTB 9990 OPL#
 READING 3 0.0342 SULFUR 0000041
 OXYGEN FLOW 3.21
 -C- -S-
 BLOOM + 000000 + 000000
 TIME 49 30
 PEAK 9953 0
 OPLTR 0.5950 0.898
 TDC 1.0184 1.012

C ges.

1101-5

17.11.98

17. CODE 0000000074 UT0.0520 CAL#1
 CARBON 22.53% SULFUR .000112
 OXYGEN FLOW 3.248
 -C- -S-
 BLANK + .000000 + .000000
 TIME 40. 30.
 PEAK 13502. 0.
 CALIB. 9.5950 0.8981
 X FRC 1.0157 1.0176
 10:56 11/17/98

CaCO₃

17. CODE 0000000075 UT0.0500 CAL#1
 CARBON 22.53% SULFUR .001031
 OXYGEN FLOW 3.233
 -C- -S-
 BLANK + .000000 + .000000
 TIME 40. 30.
 PEAK 13502. 0.
 CALIB. 9.5950 0.8981
 X FRC 1.0139 1.0149
 10:58 11/17/98

WHTZ

17. CODE 0000000076 UT1.0020 CAL#1
 CARBON 22.53% SULFUR .000072
 OXYGEN FLOW 3.229
 -C- -S-
 BLANK + .000000 + .000000
 TIME 40. 30.
 PEAK 7911. 0.
 CALIB. 9.5950 0.8981
 X FRC 1.0120 1.0142
 11:00 11/17/98

17. CODE 0000000077 UT1.0020 CAL#1
 CARBON 22.53% SULFUR .000062
 OXYGEN FLOW 3.229
 -C- -S-
 BLANK + .000000 + .000000
 TIME 40. 30.
 PEAK 9483. 0.
 CALIB. 9.5950 0.8981
 X FRC 1.0120 1.0142

Std.

PER STANDBY CALIBRATION ***

11:02 11/17/98
 17. CODE WEIGHT CARBON SULFUR
 0000000077 1.0020 0.8285 .00006
 0000000076 1.0020 0.8243 .00007
 0000000075 9.0520 3.783 .00103
 0000000074 9.0520 23.53 .00011
 0000000073 9.0520 0.8234 .00004
 0000000072 1.0020 0.8216 .00006
 0000000071 1.0020 0.8263 .00005
 0000000070 1.0050 0.8216 .00009
 0000000069 1.0020 0.8185 .00006
 0000000068 9.1800 12.26 .00004

CARBON STD.% 00.8220
 OLD C-CAL -1- 0.5940
 INCLUDE CARBON
 0000000077 0.8285
 0000000076 0.8243
 0000000075 0.8234
 0000000072 0.8216
 0000000071 0.8263
 0000000070 0.8216
 0000000069 0.8185
 NEW C-CAL -1- 0.5940

17. CODE WEIGHT CARBON SULFUR
 0000000077 1.0020 0.8271 .00006
 0000000076 1.0020 0.8229 .00007
 0000000075 9.0520 3.776 .00103
 0000000074 9.0520 23.49 .00011
 0000000073 9.0520 0.8219 .00004
 0000000072 1.0020 0.8231 .00006
 0000000071 1.0020 0.8248 .00005
 0000000070 1.0050 0.8202 .00009
 0000000069 1.0020 0.8171 .00006

PER END CALIBRATION ***

11:06 11/17/98

17. CODE CARBONITE UT1.0020 CAL#1
 CARBON 22.53% SULFUR .000072
 OXYGEN FLOW 3.210
 -C- -S-
 BLANK + .000000 + .000000
 TIME 40. 30.
 PEAK 8753. 0.
 CALIB. 0.5940 0.8981
 X FRC 1.0087 1.0109
 PER CLEANING TIME ***

PER STANDBY CALIBRATION ***

11:09 11/17/98
 17. CODE WEIGHT CARBON SULFUR
 0000000079 1.0020 0.8136 .00007
 0000000077 1.0020 0.8271 .00006
 0000000076 1.0020 0.8229 .00007
 0000000075 9.0520 3.776 .00103
 0000000074 9.0520 23.49 .00011
 0000000073 9.0520 0.8219 .00004
 0000000072 1.0020 0.8231 .00006
 0000000071 1.0020 0.8248 .00005
 0000000070 1.0050 0.8202 .00009
 0000000069 1.0020 0.8171 .00006

CARBON STD.% 00.8220
 OLD C-CAL -1- 0.5940
 INCLUDE CARBON
 0000000079 0.8136
 0000000077 0.8271
 0000000076 0.8229
 0000000073 0.8219
 0000000072 0.8201
 0000000071 0.8248
 0000000070 0.8202
 0000000069 0.8171
 NEW C-CAL -1- 0.5947

11:10 11/17/98
 17. CODE WEIGHT CARBON SULFUR
 0000000079 1.0020 0.8146 .00007
 0000000077 1.0020 0.8281 .00006
 0000000076 1.0020 0.8239 .00007
 0000000075 9.0520 3.781 .00103
 0000000074 9.0520 23.52 .00011
 0000000073 9.0520 0.8230 .00004
 0000000072 1.0020 0.8211 .00006
 0000000071 1.0020 0.8258 .00005
 0000000070 1.0050 0.8212 .00009
 0000000069 1.0020 0.8181 .00006

PER END CALIBRATION ***

M01-S

C 820

17.11.98

11:12 11/17/98
 17 CORE C000000079 UTO 1010 CAL#1
 CARBON 12.50% SULFUR .00062%

OXYGEN FLOW 3.245
 -C- -S-
 BLANK + .000000 + .000000

TIME 40. 30.
 PEAK 16397. 0.
 CALIB. 0.5947 0.8981
 K FRC. 1.0151 1.0179
 11:15 11/17/98

17 CORE C000000099 UTO 0510 CAL#1
 CARBON 3.487% SULFUR .00102%

OXYGEN FLOW 3.241
 -C- -S-
 BLANK + .000000 + .000000

TIME 40. 30.
 PEAK 2080. 0.
 CALIB. 0.5947 0.8981
 K FRC. 1.0145 1.0164
 11:27 11/17/98

17 CORE C000000091 UTO 1000 CAL#1
 CARBON 8.229% SULFUR .00077%

OXYGEN FLOW 3.237
 -C- -S-
 BLANK + .000000 + .000000

TIME 40. 30.
 PEAK 8368. 0.
 CALIB. 0.5947 0.8981
 K FRC. 1.0137 1.0156
 11:29 11/17/98

17 CORE C000000092 UTO 1000 CAL#1
 CARBON 8.649% SULFUR .00073%

OXYGEN FLOW 3.251
 -C- -S-
 BLANK + .000000 + .000000

TIME 40. 30.
 PEAK 11169. 0.
 CALIB. 0.5947 0.8981
 K FRC. 1.0162 1.0181
 11:31 11/17/98

17 CORE C000000093 UTO 1000 CAL#1
 CARBON 8.007% SULFUR .00059%

OXYGEN FLOW 3.249
 -C- -S-
 BLANK + .000000 + .000000

TIME 40. 30.
 PEAK 10257. 0.
 CALIB. 0.5947 0.8981
 K FRC. 1.0159 1.0178
 11:32 11/17/98

17 CORE C000000094 UTO 1000 CAL#1
 CARBON 7.924% SULFUR .00062%

OXYGEN FLOW 3.250
 -C- -S-
 BLANK + .000000 + .000000

TIME 40. 30.
 PEAK 6769. 0.
 CALIB. 0.5947 0.8981
 K FRC. 1.0161 1.0179
 11:34 11/17/98

17 CORE C000000095 UTO 1000 CAL#1
 CARBON 6.203% SULFUR .00055%

OXYGEN FLOW 3.265
 -C- -S-
 BLANK + .000000 + .000000

813 TIME 40. 30.
 PEAK 4084. 0.
 CALIB. 0.5947 0.8981
 K FRC. 1.0187 1.0206
 11:35 11/17/98

17 CORE C000000096 UTO 1000 CAL#1
 CARBON 7.733% SULFUR .00068%

OXYGEN FLOW 3.259
 -C- -S-
 BLANK + .000000 + .000000

818 TIME 40. 30.
 PEAK 3635. 0.
 CALIB. 0.5947 0.8981
 K FRC. 1.0176 1.0195
 11:36 11/17/98

17 CORE C000000097 UTO 1000 CAL#1
 CARBON 5.618% SULFUR .00073%

OXYGEN FLOW 3.258
 -C- -S-
 BLANK + .000000 + .000000

823 TIME 40. 30.
 PEAK 7420. 0.
 CALIB. 0.5947 0.8981
 K FRC. 1.0175 1.0193
 11:38 11/17/98

17 CORE C000000098 UTO 1000 CAL#1
 CARBON 5.209% SULFUR .00049%

OXYGEN FLOW 3.261
 -C- -S-
 BLANK + .000000 + .000000

828 TIME 40. 30.
 PEAK 6373. 0.
 CALIB. 0.5947 0.8981
 K FRC. 1.0179 1.0199
 11:39 11/17/98

17 CORE C000000099 UTO 1000 CAL#1
 CARBON 4.739% SULFUR .00067%

OXYGEN FLOW 3.256
 -C- -S-
 BLANK + .000000 + .000000

833 TIME 40. 30.
 PEAK 6938. 0.
 CALIB. 0.5947 0.8981
 K FRC. 1.0174 1.0190
 11:41 11/17/98

17 CORE C000000090 UTO 1000 CAL#1
 CARBON 7.148% SULFUR .00066%

OXYGEN FLOW 3.252
 -C- -S-
 BLANK + .000000 + .000000

838 TIME 40. 30.
 PEAK 7635. 0.
 CALIB. 0.5947 0.8981
 K FRC. 1.0164 1.0182
 11:44 11/17/98

17 CORE C000000091 UTO 0950 CAL#1
 CARBON 8.325% SULFUR .00061%

OXYGEN FLOW 3.238
 Std. 0.822 ✓

C 801

1101-5

17.11.98

-C- -S-
 BLANK + .000000 + .000000
 TIME 40. 30.
 PEAK 9569. 0.
 CALIB. 0.5947 0.8981
 X FRC. 1.0125 1.0144
 11:47 11/17/98

ID CODE 000000092 WTD. 10000 CAL#1
 OXYGEN 3.042 SULFUR .000079%
 OXYGEN FLOW 3.250

-C- -S-
 CaCO₃ BLANK + .000000 + .000000
 TIME 40. 30.
 PEAK 14657. 0.
 CALIB. 0.5947 0.8981
 X FRC. 1.0161 1.0179
 11:47 11/17/98

ID CODE 000000093 WTD. 05000 CAL#1
 OXYGEN 3.782% SULFUR .000075%
 OXYGEN FLOW 3.244

-C- -S-
 WWT2 BLANK + .000000 + .000000
 TIME 40. 30.
 PEAK 2114. 0.
 CALIB. 0.5947 0.8981
 X FRC. 1.0159 1.0169
 11:49 11/17/98

ID CODE 000000094 WTD. 10000 CAL#1
 OXYGEN 3.742% SULFUR .000044%
 OXYGEN FLOW 3.253

-C- -S-
 843 BLANK + .000000 + .000000
 TIME 40. 30.
 PEAK 9906. 0.
 CALIB. 0.5947 0.8981
 X FRC. 1.0165 1.0184
 11:50 11/17/98

ID CODE 000000095 WTD. 10000 CAL#1
 OXYGEN 3.739% SULFUR .000014%
 OXYGEN FLOW 3.253

-C- -S-
 848 BLANK + .000000 + .000000
 TIME 40. 30.
 PEAK 9589. 0.
 CALIB. 0.5947 0.8981
 X FRC. 1.0165 1.0184
 11:52 11/17/98

ID CODE 000000096 WTD. 10000 CAL#1
 OXYGEN 3.507% SULFUR .000030%
 OXYGEN FLOW 3.259

-C- -S-
 853 BLANK + .000000 + .000000
 TIME 40. 30.
 PEAK 9178. 0.
 CALIB. 0.5947 0.8981
 X FRC. 1.0176 1.0195
 11:53 11/17/98

-C- -S-
 858 BLANK + .000000 + .000000
 TIME 40. 30.
 PEAK 5973. 0.
 CALIB. 0.5947 0.8981
 X FRC. 1.0139 1.0157
 11:54 11/17/98

-C- -S-
 ID CODE 000000099 WTD. 10000 CAL#1
 OXYGEN 5.912% SULFUR .000020%
 OXYGEN FLOW 3.248

-C- -S-
 863 BLANK + .000000 + .000000
 TIME 40. 30.
 PEAK 7528. 0.
 CALIB. 0.5947 0.8981
 X FRC. 1.0157 1.0176
 *** CLEANING TIME ***
 11:56 11/17/98

-C- -S-
 ID CODE 000000099 WTD. 10000 CAL#1
 OXYGEN 6.094% SULFUR .000053%
 OXYGEN FLOW 3.246

-C- -S-
 868 BLANK + .000000 + .000000
 TIME 40. 30.
 PEAK 7970. 0.
 CALIB. 0.5947 0.8981
 X FRC. 1.0153 1.0172
 11:57 11/17/98

-C- -S-
 ID CODE 000000099 WTD. 10000 CAL#1
 OXYGEN 7.326% SULFUR .000046%
 OXYGEN FLOW 3.251

-C- -S-
 873 BLANK + .000000 + .000000
 TIME 40. 30.
 PEAK 6565. 0.
 CALIB. 0.5947 0.8981
 X FRC. 1.0162 1.0181
 11:59 11/17/98

-C- -S-
 ID CODE 000000091 WTD. 10000 CAL#1
 OXYGEN 7.841% SULFUR .000073%
 OXYGEN FLOW 3.267

-C- -S-
 878 BLANK + .000000 + .000000
 TIME 40. 30.
 PEAK 7978. 0.
 CALIB. 0.5947 0.8981
 X FRC. 1.0190 1.0209
 12:00 11/17/98

-C- -S-
 ID CODE 000000092 WTD. 10000 CAL#1
 OXYGEN 8.173% SULFUR .000056%
 OXYGEN FLOW 3.274

-C- -S-
 883 BLANK + .000000 + .000000
 TIME 40. 30.
 PEAK 8954. 0.
 CALIB. 0.5947 0.8981
 X FRC. 1.0203 1.0222

17.11.98

1101-5

C. ges.

12107 11/17/98
 10000 0.728 0.1150 0.00723
 OXYGEN FLOW 3.263

888

Std.

0.822

12-26 11-17-88

12/20/06 10:17:29
 10-100E 0099000006 UTL 9010 CRL#1
 10-100E 0 00010 SULFUR 0000070
 OXYGEN FLOW 3.255
 -C- -S-
 BLANK + 000000 + 000000
 TIME 49. 30.
 PEAK 8709. 0.
 CRL#1 0.5947 0.8981
 K FBD 1.0169 1.0188
 210 OUT-RED RESULT ***
 12/20 10:17:29

12/08 11/17/98
10 CAFE COFFEE 0000000007 WTB 9999 CAL#1
10000004 9 82924 SULFUR .0000062
0W/GEN FL SH 0-252

12118 11/17/98
TR. CODE: 0000000009 UT1.0000 CAL#1
PRESSURE: 9.22103 SULFUR: 00000025
OXYGEN FLOW: 0.257

14

3.4. STOCK PREPARATION TEST

12:12 11/17/00

	1871-1872	1872-1873	1873-1874	1874-1875
1871-1872	8 36939	9 33119	8 33212	
1872-1873	8 36939	9 32922	8 33206	
1873-1874	7 33119	9 32921	8 33207	
1874-1875	8 36938	9 34335	8 33204	
1875-1876	8 36938	9 35538	8 33273	
1876-1877	8 36939	8 173	8 33256	
1877-1878	8 36939	7 961	8 33273	
1878-1879	8 36939	7 936	8 33246	
1879-1880	8 36939	6 994	8 33253	
1880-1881	8 36939	5 912	8 33228	

CARBON	STD %	99.9920
OLB C-CPL -1-	%	9.5947
THIOLIDE		CARBON
0000000000	%	9.9318
0000000007	%	9.8292
0000000006	%	9.8291
NEW C-CPL -1-	%	9.5892

12312 11/17/99

Digitized by srujanika@gmail.com

CaCO_3

BLANK	+ .00000	+ .00000
TIME	48	30
PEAK	14123	0
CALIB	0.5992	0.8981
R.F.D.	1.9183	1.0199

W18T2

	-C-	-S-
SI PARK	+ .000000	+ .000000
7754E	40	30.
PEAK	2036	0.
CPLTB	0.5892	0.8981
SC FBD	1.8199	1.0215

893

	1966	1967
PIANK	+ .000000	+ .000000
THE	40.	30.
PEAK	8548.	0
CALIB	9.5992	9.8981
W.D.	1.5127	1.5285

R FRC 1 8187 1.0203
12:23 11/17/98
12 CODE 000990011 WTD 1800 CAL#1
1255AM 8 242% SULFUR 00063%

29

	-C-	-S-
BLANK	+ .000000	+ .000000
TIME	48.	38.
PEAK	9172.	0.
CALTR.	0.5392	0.8981
X FAR	1.0284	1.0228

C90

1101-5

C90

12:24 11/17/98
 10 CORE 080000012 WTB. 1000 CAL#1
 SULFUR 6.024% SULFUR .00050%
 OXYGEN FLOW 3.282
 -C- -S-
 BLANK + .00000 + .00000

903 TIME 40. 30.
 PEAK 10394. 0.
 CALIB. 0.5892 0.8981
 X FRC. 1.0220 1.0236
 12:26 11/17/98

10 CORE 080000013 WTB. 1000 CAL#1
 SULFUR 6.024% SULFUR .00050%
 OXYGEN FLOW 3.279
 -C- -S-
 BLANK + .00000 + .00000

908 TIME 40. 30.
 PEAK 8315. 0.
 CALIB. 0.5892 0.8981
 X FRC. 1.0214 1.0238
 12:27 11/17/98

10 CORE 080000014 WTB. 1000 CAL#1
 SULFUR 6.024% SULFUR .00050%
 OXYGEN FLOW 3.285
 -C- -S-
 BLANK + .00000 + .00000

913 TIME 40. 30.
 PEAK 8053. 0.
 CALIB. 0.5892 0.8981
 X FRC. 1.0226 1.0242
 12:28 11/17/98

10 CORE 080000015 WTB. 1000 CAL#1
 SULFUR 6.024% SULFUR .00050%
 OXYGEN FLOW 3.284
 -C- -S-
 BLANK + .00000 + .00000

918 TIME 40. 30.
 PEAK 6855. 0.
 CALIB. 0.5892 0.8981
 X FRC. 1.0227 1.0240
 12:29 11/17/98

10 CORE 080000016 WTB. 1000 CAL#1
 SULFUR 5.542% SULFUR .00020%
 OXYGEN FLOW 3.286
 -C- -S-
 BLANK + .00000 + .00000

923 TIME 40. 30.
 PEAK 6255. 0.
 CALIB. 0.5892 0.8981
 X FRC. 1.0230 1.0243
 12:31 11/17/98

10 CORE 080000017 WTB. 1000 CAL#1
 SULFUR 5.493% SULFUR .00015%
 OXYGEN FLOW 3.283
 -C- -S-
 BLANK + .00000 + .00000

928 TIME 40. 30.
 PEAK 6169. 0.
 CALIB. 0.5892 0.8981
 X FRC. 1.0222 1.0238
 12:32 11/17/98

10 CORE 080000018 WTB. 1000 CAL#1
 SULFUR 6.024% SULFUR .00050%
 OXYGEN FLOW 3.288
 -C- -S-
 BLANK + .00000 + .00000

933 TIME 40. 30.
 PEAK 9116. 0.
 CALIB. 0.5892 0.8981
 X FRC. 1.0234 1.0247
 XPK CLEARING TIME ***
 12:36 11/17/98

10 CORE 080000019 WTB. 1000 CAL#1
 SULFUR 6.024% SULFUR .00050%
 OXYGEN FLOW 3.276
 -C- -S-

943 BLANK + .00000 + .00000
 TIME 40. 30.
 PEAK 4277. 0.
 CALIB. 0.5892 0.8981
 X FRC. 1.0212 1.0225
 12:38 11/17/98

10 CORE 080000020 WTB. 9990 CAL#1
 SULFUR 6.024% SULFUR .00050%
 OXYGEN FLOW 3.270
 -C- -S-

Std. BLANK + .00000 + .00000
 0.822 TIME 40. 30.
 PEAK 7705. 0.
 CALIB. 0.5892 0.8981
 X FRC. 1.0202 1.0215
 12:39 11/17/98

10 CORE 080000021 WTB. 1000 CAL#1
 SULFUR 12.05% SULFUR .00092%
 OXYGEN FLOW 3.285
 -C- -S-

Caco₃ BLANK + .00000 + .00000
 TIME 40. 30.
 PEAK 16194. 0.
 CALIB. 0.5892 0.8981
 X FRC. 1.0229 1.0242
 12:43 11/17/98

10 CORE 080000022 WTB. 9590 CAL#1
 SULFUR 9.75% SULFUR .00091%
 OXYGEN FLOW 3.275
 -C- -S-

W872 BLANK + .00000 + .00000
 TIME 40. 30.
 PEAK 1978. 0.
 CALIB. 0.5892 0.8981
 X FRC. 1.0211 1.0223
 12:45 11/17/98

10 CORE 080000023 WTB. 1000 CAL#1
 SULFUR 7.51% SULFUR .00038%
 OXYGEN FLOW 3.275
 -C- -S-

948 BLANK + .00000 + .00000
 TIME 40. 30.
 PEAK 2979. 0.
 CALIB. 0.5892 0.8981
 X FRC. 1.0211 1.0223

17.11.98

Mol - S

C gas.

12:46 11/17/98
 ID CODE C000000024 WTB 1000 CAL#1
 CARBON 4.902% SULFUR .00048%
 OXYGEN FLOW 3.276

-C- -S-

938 BLANK + .000000 + .000000
 TIME 49. 30.
 PEAK 9994. 0.
 CALIB. 0.5892 0.8981
 K FRC. 1.0212 1.0225
 12:48 11/17/98

ID CODE C000000025 WTB 1000 CAL#1
 CARBON 4.902% SULFUR .00042%
 OXYGEN FLOW 3.284

-C- -S-

953 BLANK + .000000 + .000000
 TIME 49. 30.
 PEAK 9957. 0.
 CALIB. 0.5892 0.8981
 K FRC. 1.0224 1.0248
 12:49 11/17/98

ID CODE C000000026 WTB 1000 CAL#1
 CARBON 4.902% SULFUR .00019%
 OXYGEN FLOW 3.282

-C- -S-

958 BLANK + .000000 + .000000
 TIME 49. 30.
 PEAK 9939. 0.
 CALIB. 0.5892 0.8981
 K FRC. 1.0220 1.0236
 12:50 11/17/98

ID CODE C000000027 WTB 1000 CAL#1
 CARBON 4.916% SULFUR .00055%
 OXYGEN FLOW 3.283

-C- -S-

963 BLANK + .000000 + .000000
 TIME 49. 30.
 PEAK 9993. 0.
 CALIB. 0.5892 0.8981
 K FRC. 1.0225 1.0238
 12:52 11/17/98

ID CODE C000000028 WTB 1000 CAL#1
 CARBON 4.944% SULFUR .00075%
 OXYGEN FLOW 3.285

-C- -S-

968 BLANK + .000000 + .000000
 TIME 49. 30.
 PEAK 11583. 0.
 CALIB. 0.5892 0.8981
 K FRC. 1.0229 1.0242
 12:53 11/17/98

ID CODE C000000029 WTB 1000 CAL#1
 CARBON 4.998% SULFUR .00031%
 OXYGEN FLOW 3.282

-C- -S-

973 BLANK + .000000 + .000000
 TIME 49. 30.
 PEAK 9555. 0.
 CALIB. 0.5892 0.8981 ✓
 K FRC. 1.0223 1.0236

12:55 11/17/98
 ID CODE C000000030 WTB 1000 CAL#1
 CARBON 4.992% SULFUR .00003%
 OXYGEN FLOW 3.289

-C- -S-

BLANK + .000000 + .000000
 TIME 49. 30.
 PEAK 12246. 0.
 CALIB. 0.5892 0.8981
 K FRC. 1.0224 1.0247
 12:56 11/17/98

ID CODE C000000031 WTB 1000 CAL#1
 CARBON 4.992% SULFUR .00042%
 OXYGEN FLOW 3.289

-C- -S-

BLANK + .000000 + .000000
 TIME 49. 30.
 PEAK 16799. 0.
 CALIB. 0.5892 0.8981
 K FRC. 1.0236 1.0248
 12:57 11/17/98

ID CODE C000000032 WTB 1000 CAL#1
 CARBON 4.992% SULFUR .00073%
 OXYGEN FLOW 3.289

-C- -S-

BLANK + .000000 + .000000
 TIME 49. 30.
 PEAK 11731. 0.
 CALIB. 0.5892 0.8981
 K FRC. 1.0233 1.0248
 12:59 11/17/98

ID CODE C000000033 WTB 9999 CAL#1
 CARBON 4.992% SULFUR .00006%
 OXYGEN FLOW 3.279

-C- -S-

Std. BLANK + .000000 + .000000
 TIME 49. 30.
 PEAK 10528. 0.
 CALIB. 0.5892 0.8981
 K FRC. 1.0214 1.0227
 100 OUT-500 PCMM 444
 12:59 11/17/98

ID CODE C000000034 WTB 9949 CAL#1
 CARBON 4.945% SULFUR .00028%
 OXYGEN FLOW 3.281

-C- -S-

BLANK + .000000 + .000000
 TIME 49. 30.
 PEAK 6865. 0.
 CALIB. 0.5892 0.8981
 K FRC. 1.0218 1.0234
 100 OUT-500 PCMM 444
 12:59 11/17/98

ID CODE C000000035 WTB 9990 CAL#1
 CARBON 4.917% SULFUR .00004%
 OXYGEN FLOW 3.276

-C- -S-

BLANK + .000000 + .000000
 TIME 49. 30.
 PEAK 7831. 0.
 CALIB. 0.5892 0.8981
 K FRC. 1.0212 1.0225 ✓

C90

MO1-S

17.11.98

PER STOCK CPI EMISSION ***

13104 11/17/98
 ID CODE WEIGHT CARBONIC SULFUR%
 0000000007 0 9999 0.9177 000004
 0000000004 0 9749 0.9245 000002
 0000000029 0 9989 0.9375 000006
 0000000023 0 1000 0.9266 000072
 0000000031 0 1000 0.9287 000042
 0000000039 0 1000 0.9192 000003
 0000000029 0 1000 0.9399 000031
 0000000029 0 1000 0.9246 000075
 0000000027 0 1000 0.9165 000055
 0000000026 0 1000 0.9088 000018

CARBON STD % 00.9229
 OLD C-CAL -1- 0.5899
 TIMELINE CARBON
 0000000027 0.8177
 0000000036 0.8245
 0000000023 0.8375
 NEW C-CAL -1- 0.5859

13105 11/17/98

ID CODE WEIGHT CARBONIC SULFUR%
 0000000027 0 9999 0.9132 000004
 0000000026 0 9949 0.9200 000002
 0000000027 0 9999 0.9329 000006
 0000000023 0 1000 0.915 000072
 0000000031 0 1000 0.936 000042
 0000000029 0 1000 0.919 000003
 0000000029 0 1000 0.933 000031
 0000000029 0 1000 0.9192 000075
 0000000027 0 1000 0.9161 000055
 0000000026 0 1000 0.9149 000018

PER STOCK CPI EMISSION ***
 PER OUT-PCD RECM ***
 13107 11/17/98
 ID CODE C003000030 HT1 8010 CPI#1
 CARBON 0.9014 SULFUR 00000004
 DIVISION FLDM 3.268
 -C- -S-
 PFLWV + 000000 + 000000
 TIME 49 39
 PEAK 7846 0
 CALTE 0.9899 0.8981
 V PAC 1.9193 1.0211

PER STOCK CPI EMISSION ***

13108 11/17/98
 ID CODE WEIGHT CARBONIC SULFUR%
 0000000039 0 9919 0.9091 000006
 0000000027 0 9999 0.9132 000004
 0000000026 0 9949 0.9200 000002
 0000000027 0 9999 0.9329 000006
 0000000023 0 1000 0.915 000072
 0000000031 0 1000 0.936 000042
 0000000029 0 1000 0.919 000003
 0000000029 0 1000 0.933 000031
 0000000029 0 1000 0.9192 000075
 0000000027 0 1000 0.9161 000055

CARBON STD % 00.9229
 OLD C-CAL -1- 0.5899
 TIMELINE CARBON
 0000000038 0.8081
 0000000027 0.8132
 0000000036 0.8200
 0000000023 0.8329
 NEW C-CAL -1- 0.5884

13109 11/17/98

ID CODE WEIGHT CARBONIC SULFUR%
 0000000027 0 9999 0.9166 000004
 0000000023 0 9999 0.9264 000006
 V PAC 9999
 CALTE 0.9842
 DIVISION

-C- -S-
 PFLWV

PER STOCK CPI EMISSION ***

13110 11/17/98
 ID CODE WEIGHT CARBONIC SULFUR%
 0000000027 0 9919 0.9116 000006
 0000000027 0 9999 0.9166 000004
 0000000026 0 9949 0.9235 000002
 0000000023 0 9999 0.9324 000006
 0000000023 0 1000 0.925 000072
 0000000031 0 1000 0.936 000042
 0000000029 0 1000 0.919 0.936 000002
 0000000029 0 1000 0.933 000031
 0000000029 0 1000 0.9192 000075
 0000000027 0 1000 0.9161 000055

CARBON STD % 00.9229
 OLD C-CAL -1- 0.5894

TIMELINE
 0000000038 0.8174
 0000000036 0.8225
 0000000033 0.8264
 NEW C-CAL -1- 0.5894

13111 11/17/98
 ID CODE WEIGHT CARBONIC SULFUR%
 0000000027 0 9919 0.9116 000006
 0000000027 0 9999 0.9166 000004
 0000000026 0 9949 0.9235 000002
 0000000023 0 9999 0.9324 000006
 0000000023 0 1000 0.925 000072
 0000000031 0 1000 0.936 000042
 0000000029 0 1000 0.919 0.936 000002
 0000000029 0 1000 0.933 000031
 0000000029 0 1000 0.9192 000075
 0000000027 0 1000 0.9161 000055

PER STOCK CPI EMISSION ***
 13112 11/17/98
 ID CODE C003000030 HT9 1000 CPI#1
 CARBON 0.9014 SULFUR 00000004
 DIVISION FLDM 3.285
 -C- -S-

Caco3
 PFLWV + 000000 + 000000
 TIME 49 39
 PEAK 14523 0
 CALTE 9.9924 0.9981
 V PAC 1.0229 1.0242

13112 11/17/98
 ID CODE C003000030 HT9 0520 CPI#1
 CARBON 0.9014 SULFUR 001413
 DIVISION FLDM 3.221
 -C- -S-

PFLWV + 000000 + 000000
 TIME 49 39
 PEAK 7275 0
 CALTE 9.9924 0.9981
 V PAC 1.0221 1.0234

PER STOCK TIME ***

WSR2

23.11.98

Cgs 1101-5

Cgs.

AMBIENT MONITOR

13:34 11/23/98

O2 FLOW	L/MIN	3.337
O2 CELL	TMR	C 50.4
O2 CELL	TMR	C 49.3
O2EM	TMR	C 49.5
CAL	UTD TMR	C 340.9
5	PEAK	5.01
5	TIME	41.30
24	WOLT	23.99
30	WOLT	29.99
15	WOLT	14.99
5	ENUTR	5.58
5	ENUTR	5.58
5	TP_CELL	8.575
5	TP_CELL	8.511

13:37 11/23/98

10 CODE	000000000000	UTD 1020 CAL #1
CARBON	0.9140	SULFUR 0.9949%
OXYGEN FLOW	3.317	

-0- -8-

CaCO₃

BLANK	+ .000000	+ .000000
TIME	40.	.30
PEAK	14283.	0.
CALTR	0.5994	0.8981
K_FAC	1.0273	1.0289

13:39 11/23/98

10 CODE	000000000000	UTD 1020 CAL #1
CARBON	0.9140	SULFUR 0.9949%
OXYGEN FLOW	3.304	

-0- -8-

Std.

0.822%

BLANK	+ .000000	+ .000000
TIME	40.	.30
PEAK	7378.	0.
CALTR	0.5994	0.8981
K_FAC	1.0259	1.0275

13:40 11/23/98

10 CODE	000000000041	UTD 0070 CAL #1
CARBON	0.9140	SULFUR 0.9949%
OXYGEN FLOW	3.304	

-0- -8-

BLANK	+ .000000	+ .000000
TIME	40.	.30
PEAK	3794.	0.
CALTR	0.5994	0.8981
K_FAC	1.0259	1.0275

13:42 11/23/98

10 CODE	000000000040	UTD 0080 CAL #1
CARBON	0.9140	SULFUR 0.9949%
OXYGEN FLOW	3.305	

-0- -8-

BLANK	+ .000000	+ .000000
TIME	41.	.30
PEAK	6543.	0.
CALTR	0.5994	0.8981
K_FAC	1.0261	1.0277

13:43 11/23/98

10 CODE	000000000040	UTD 0080 CAL #1
CARBON	0.9140	SULFUR 0.9949%
OXYGEN FLOW	3.305	

-0- -8-

10 CODE	000000000040	UTD 0080 CAL #1
CARBON	0.9140	SULFUR 0.9949%
OXYGEN FLOW	3.307	
Std.		
BLANK	+ .000000	+ .000000

0.822%

TIME	41.	.30
PEAK	7492.	0.
CALTR	0.5994	0.8981
K_FAC	1.0255	1.0272

PPM STACK CALIBRATION ***

10 CODE	NETFLIT	CARBON% SULFUR%
000000000040	0.9999	0.8153
000000000040	0.9999	0.8241
000000000040	0.9999	0.8128
000000000040	0.9999	0.8148

CARBON	STD %	00.8228
OLD C-CAL	-1-	0.5914
000000000040	0.8158	
000000000040	0.8241	
000000000040	0.8128	
000000000040	0.8148	
NEW C-CAL	-1-	0.5912

10 CODE	NETFLIT	CARBON% SULFUR%
000000000040	0.9999	0.8196
000000000040	0.9999	0.8279
000000000040	0.9999	0.8228
000000000040	0.9999	0.8178
000000000040	0.9929	11.98
000000000040	0.9529	3.892
000000000040	0.1000	12.21
000000000040	1.0010	0.8154
000000000040	0.9999	0.8284
000000000040	0.9949	0.8273

PPM END CALIBRATION ***

10 CODE	000000000044	UTD 0080 CAL #1
CARBON	0.9140	SULFUR 0.9949%
OXYGEN FLOW	3.304	
Std.		
BLANK	+ .000000	+ .000000

0.822%

TIME	40.	.30
PEAK	7998.	0.
CALTR	0.5912	0.8981
K_FAC	1.0259	1.0275

PPM STACK CALIBRATION ***

10 CODE	NETFLIT	CARBON% SULFUR%
000000000040	0.9999	0.8288
000000000040	0.9999	0.8196
000000000040	0.9999	0.8279
000000000040	0.9999	0.8228
000000000040	0.9929	11.98
000000000040	0.9529	3.892
000000000040	0.1000	12.21
000000000040	1.0010	0.8154
000000000040	0.9999	0.8284

Cgeo.

1101-5

23.11.98

ID CODE: 0000000049 WTD: 20100 OPL#1
 CARBON: 9.9152% SULFUR: .00000%

*** OUT-SED BEGUN ***

OXYGEN FLOW: 3.299

Std.: -C- -S-

BLANK: +.00000 +.00000

TIME: 40. 30.

0.822 PEAK: 9163. 0.

CALIBR: 0.5905 0.8981

K FRC: 1.0259 1.0267

14:31 11/23/98

ID CODE: WET/HT CARBON: SULFUR:

0000000049 1.0010 9.9152 .000001

0000000049 1.0040 9.9254 .000006

0000000047 1.0040 9.9293 .000007

0000000046 0.9989 9.9279 .000006

0000000043 0.9909 9.9179 .000007

0000000047 0.9939 9.9261 .000005

0000000043 1.0070 9.9211 .000005

0000000043 1.0070 9.9169 .000006

0000000049 0.9920 11.06 .000009

0000000045 0.9720 9.994 .00161

CARBON: STD: 9.9200

OLD CAL: -1. 9.5099

TIME/HTE: CARBON:

0000000049 9.8150

0000000049 9.8254

0000000047 9.8203

0000000044 9.8279

0000000043 9.8179

0000000042 9.8261

0000000041 9.8211

0000000040 9.8169

NEW CAL: -1. 9.5995

14:32 11/23/98

ID CODE: WET/HT CARBON: SULFUR:

0000000049 1.0010 9.9169 .000001

0000000049 1.0040 9.9263 .000006

0000000047 1.0040 9.9211 .000007

0000000044 0.9929 9.9279 .000006

0000000043 0.9929 9.9197 .000007

0000000042 0.9909 9.9279 .000005

0000000041 1.0070 9.9219 .000005

0000000040 1.0070 9.9169 .000006

0000000049 0.9920 11.97 .000009

0000000045 0.9720 9.998 .00161

200 FWD CALIBRATION ***

14:33 11/23/98

ID CODE: 0000000045 WTD: 19000 OPL#1

CARBON: 11.977% SULFUR: .00007%

OXYGEN FLOW: 3.310

-C- -S-

BLANK: +.00000 +.00000

TIME: 40. 30.

PEAK: 14532. 0.

CALIB: 0.5905 0.8981

K FRC: 1.0270 1.0286

14:34 11/23/98

ID CODE: 0000000046 WTD: 05000 OPL#1

CARBON: 9.6042% SULFUR: .00007%

OXYGEN FLOW: 3.309

-C- -S-

BLANK: +.00000 +.00000

TIME: 40. 30.

PEAK: 24449. 0.

WSTL

14:16 11/23/98

ID CODE: 0000000051 WTD: 05000 OPL#1

CARBON: 9.918% SULFUR: .00102%

OXYGEN FLOW: 3.316

-C- -S-

BLANK: +.00000 +.00000

TIME: 40. 30.

PEAK: 2161. 0.

CALIB: 0.5905 0.8981

K FRC: 1.0288 1.0296

14:29 11/23/98

ID CODE: 0000000050 WTD: 05000 OPL#1

CARBON: 9.993% SULFUR: .00054%

OXYGEN FLOW: 3.323

-C- -S-

BLANK: +.00000 +.00000

TIME: 40. 30.

PEAK: 0. 0.

CALIB: 0.5905 0.8981

K FRC: 1.0292 1.0309

14:21 11/23/98

ID CODE: 0000000052 WTD: 10000 OPL#1

CARBON: 7.124% SULFUR: .00009%

OXYGEN FLOW: 3.312

-C- -S-

BLANK: +.00000 +.00000

TIME: 40. 30.

PEAK: 8365. 0.

CALIB: 0.5905 0.8981

K FRC: 1.0273 1.0289

14:23 11/23/98

ID CODE: 0000000053 WTD: 10000 OPL#1

CARBON: 9.993% SULFUR: .00077%

OXYGEN FLOW: 3.311

-C- -S-

BLANK: +.00000 +.00000

TIME: 40. 30.

PEAK: 4932. 0.

CALIB: 0.5905 0.8981

K FRC: 1.0272 1.0287

14:25 11/23/98

ID CODE: 0000000054 WTD: 10000 OPL#1

CARBON: 9.916% SULFUR: .00073%

OXYGEN FLOW: 3.311

-C- -S-

BLANK: +.00000 +.00000

TIME: 40. 30.

PEAK: 6999. 0.

CALIB: 0.5905 0.8981

K FRC: 1.0272 1.0287

14:26 11/23/98

ID CODE: 0000000055 WTD: 10000 OPL#1

CARBON: 9.660% SULFUR: .00101%

OXYGEN FLOW: 3.311

-C- -S-

BLANK: +.00000 +.00000

TIME: 40. 30.

PEAK: 9518. 0.

CALIB: 0.5905 0.8981

K FRC: 1.0272 1.0287

14:27 11/23/98

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23.11.98

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C 800.

14:37 11/23/98

ID CODE C000000054 WTB.1000 CAL#1
 CARBON 9.810% SULFUR .00062%
 OXYGEN FLOW 3.391
 -C- -S-
 BLANK +.000000 +.000000

1013 TIME 40. 30.
 PEAK 18405. 0.
 CALIB. 9.5905 0.8981
 X FRC. 1.0236 1.0252
 14:39 11/23/98

ID CODE C000000057 WTB.1000 CAL#1
 CARBON 10.03% SULFUR .00073%
 OXYGEN FLOW 3.311
 -C- -S-
 BLANK +.000000 +.000000

1018 TIME 40. 30.
 PEAK 18452. 0.
 CALIB. 9.5905 0.8981
 X FRC. 1.0272 1.0287
 14:40 11/23/98

ID CODE C000000058 WTB.1000 CAL#1
 CARBON 10.11% SULFUR .00091%
 OXYGEN FLOW 3.304
 -C- -S-
 BLANK +.000000 +.000000

1023 TIME 40. 30.
 PEAK 18950. 0.
 CALIB. 9.5905 0.8981
 X FRC. 1.0259 1.0275
 *** CLEANING TIME ***
 14:41 11/23/98

ID CODE C000000059 WTB.1000 CAL#1
 CARBON 10.05% SULFUR .00078%
 OXYGEN FLOW 3.311
 -C- -S-
 BLANK +.000000 +.000000

1028 TIME 40. 30.
 PEAK 12546. 0.
 CALIB. 9.5905 0.8981
 X FRC. 1.0222 1.0287
 14:43 11/23/98

ID CODE C000000060 WTB.1000 CAL#1
 CARBON 9.648% SULFUR .00018%
 OXYGEN FLOW 3.305
 -C- -S-
 BLANK +.000000 +.000000

1033 TIME 40. 30.
 PEAK 8793. 0.
 CALIB. 9.5905 0.8981
 X FRC. 1.0261 1.0277
 14:44 11/23/98

ID CODE C000000061 WTB.1000 CAL#1
 CARBON 10.02% SULFUR .00059%
 OXYGEN FLOW 3.310
 -C- -S-
 BLANK +.000000 +.000000

1038 TIME 40. 30. ✓
 PEAK 9579. 0.
 CALIB. 9.5905 0.8981
 X FRC. 1.0276 1.0286

14:37 11/23/98

ID CODE C000000062 WTB.9949 CAL#1
 CARBON 9.815% SULFUR .00062%
 OXYGEN FLOW 3.300
 -C- -S-
 Std. BLANK +.000000 +.000000

0.822 TIME 40. 30.
 PEAK 8171. 0.
 CALIB. 9.5905 0.8981
 X FRC. 1.0255 1.0268
 14:38 11/23/98

ID CODE C000000063 WTB.9990 CAL#1
 CARBON 10.36% SULFUR .00079%
 OXYGEN FLOW 3.312
 -C- -S-
 Caco₃ BLANK +.000000 +.000000

TIME 40. 30.
 PEAK 15839. 0.
 CALIB. 9.5905 0.8981
 X FRC. 1.0276 1.0289
 14:40 11/23/98

ID CODE C000000064 WTB.0519 CAL#1
 CARBON 9.612% SULFUR .00099%
 OXYGEN FLOW 3.306
 -C- -S-
 WS12 BLANK +.000000 +.000000

TIME 40. 30.
 PEAK 2292. 0.
 CALIB. 9.5905 0.8981
 X FRC. 1.0263 1.0279
 *** OUT-SED REGUM ***
 14:42 11/23/98

ID CODE C000000065 WTB.9949 CAL#1
 CARBON 9.9271% SULFUR .00067%
 OXYGEN FLOW 3.297
 -C- -S-
 Std. BLANK +.000000 +.000000

0.822 TIME 40. 30.
 PEAK 18647. 0.
 CALIB. 9.5905 0.8981
 X FRC. 1.0258 1.0262
 *** OUT-SED REGUM ***
 14:44 11/23/98

ID CODE C000000066 WTB.0619 CAL#1
 CARBON 9.773% SULFUR .00101%
 OXYGEN FLOW 3.312
 -C- -S-
 WS12 BLANK +.000000 +.000000

TIME 40. 30.
 PEAK 2897. 0.
 CALIB. 9.5905 0.8981
 X FRC. 1.0276 1.0289
 14:47 11/23/98

ID CODE C000000067 WTB.0010 CAL#1
 CARBON 9.8238% SULFUR .00024%
 OXYGEN FLOW 3.302
 -C- -S-
 Std. BLANK +.000000 +.000000

0.822 TIME 40. 30.
 PEAK 9197. 0.
 CALIB. 9.5905 0.8981
 X FRC. 1.0275 1.0272
 14:48 11/23/98

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10 CODE 0000000000 MTI 00000 CAL#1
0000000000 0 0000000000 FUD 0000000000
0000000000 DIVISION FLOW 0.000

Std. -C- -S-
 BLANK + .00000 + .00000
 TIME 40. 30.
 PEAK 10610. 0.
 CALIB. 0.5905 0.9981
 X FOC. 1.0261 1.0273
 14:50 11/22/99
 CUBE 0000000069 MTG. 9919 CAL#1
 44554 0.9365% SULFUR .00006%
 OXYGEN FLOW 3.385

אֶלְעָזָר סַנְקִין אַבְרָהָם סַנְקִין

IN CODE	WEIGHT	CARBON%	SULFUR%
03000000059	9.9410	8.3855	.00006
03000000063	1.9820	11.3223	.00004
03000000067	1.3011	11.3228	.00004
03000000065	0.1673	8.2624	.00111
03000000065	0.5940	8.3827	.00007
03000000064	0.3773	8.6113	.00008
03000000063	0.4970	12.136	.00019
03000000062	0.9948	8.8754	.00005
03000000061	1.7659	11.147	.00005
03000000060	0.7188	9.463	.00016

PERIOD	MEAN	STANDARD DEVIATION	N.D.	PERCENT
1965-1966	0.9773	0.0093	0.000006	
1966-1967	0.9670	0.0078	0.000012	
1967-1968	0.9674	0.0114	0.000004	
1968-1969	0.9678	0.0093	0.000011	
1969-1970	0.9679	0.0093	0.000011	
1970-1971	0.9679	0.0093	0.000011	
1971-1972	0.9679	0.0093	0.000011	
1972-1973	0.9679	0.0093	0.000011	
1973-1974	0.9679	0.0093	0.000011	
1974-1975	0.9679	0.0093	0.000011	
1975-1976	0.9679	0.0093	0.000011	
1976-1977	0.9679	0.0093	0.000011	
1977-1978	0.9679	0.0093	0.000011	
1978-1979	0.9679	0.0093	0.000011	
1979-1980	0.9679	0.0093	0.000011	

THE CHINESE EXPEDITION 八国联军

Sfd. -S-
 BLANK + .000000 + .000000
 TIME 49. 30
 PERIOD 7.952. 0
 OPLIR 0.5962 0.8981
 K.FAR. 1.0241 1.0257
 14:58 11/23/98
 ID CODE C0000000071 UT1.0240 OPL#1
 CARBON 0.8184% SULFUR .000002%
 OXYGEN FLOW 3.295
 -C- -S-
 BLANK + .000000 + .000000
 TIME 41. 30
 PERIOD 7.955. 0.
 OPLIR 0.5872 0.8981
 K.FAR. 1.0243 1.0259

אנו שרים לך גבוריון קב"ה

CARBON STR %	00.82298
OLD C-10L -1-	0.5872
INCLUDE	CARBON
0000000071	0.8184
0000000072	0.8144
0000000069	0.8318
0000000068	0.8277
0000000067	0.8192
0000000065	0.8324
0000000062	0.8114
0000000061	0.8884

C ges.

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15:23 11/23/98

12.14% SULFUR 000871%

OXYGEN FLOW 3.313

-C- -S-

CALCOS MFLW + 000000 + 000000

TIME 40 30

PFLW 17039 0

PFLR 9.5984 0.8981

X FLW 1.0278 1.0291

15:25 11/23/98

12.14% SULFUR 000872% UTO 05000 CAL#1

3.816% SULFUR 000107%

OXYGEN FLOW 3.317

-C- -S-

MFLW + 000000 + 000000

TIME 40 30

PFLW 2292 0

PFLR 9.5984 0.8981

X FLW 1.0262 1.0284

15:26 11/23/98

12.14% SULFUR 000873% UTO 05000 CAL#1

0.8166% SULFUR 000000%

OXYGEN FLOW 3.313

-C- -S-

MFLW + 000000 + 000000

TIME 40 30

PFLW 6171 0

PFLR 9.5984 0.8981

X FLW 1.0262 1.0284

15:27 11/23/98

12.14% SULFUR 000874% UTO 05000 CAL#1

6.672% SULFUR 000865%

OXYGEN FLOW 3.313

-C- -S-

MFLW + 000000 + 000000

TIME 40 30

PFLW 1473 0

PFLR 9.5984 0.8981

X FLW 1.0262 1.0284

15:28 11/23/98

12.14% SULFUR 000875% UTO 05000 CAL#1

2.949% SULFUR 000825%

OXYGEN FLOW 3.311

-C- -S-

MFLW + 000000 + 000000

TIME 40 30

PFLW 3672 0

PFLR 9.5984 0.8981

X FLW 1.0262 1.0284

15:29 11/23/98

12.14% SULFUR 000876% UTO 05000 CAL#1

2.222% SULFUR 000842%

OXYGEN FLOW 3.314

-C- -S-

MFLW + 000000 + 000000

TIME 40 30 ✓

PFLW 2183 0

PFLR 9.5984 0.8981

X FLW 1.0262 1.0284

12.14% SULFUR 000877% UTO 05000 CAL#1

2.849% SULFUR 000842%

OXYGEN FLOW 3.311

-C- -S-

MFLW + 000000 + 000000

TIME 40 30

PFLW 3672 0

PFLR 9.5984 0.8981

X FLW 1.0262 1.0284

15:30 11/23/98

3.768% SULFUR 000991%

OXYGEN FLOW 3.311

-C- -S-

MFLW + 000000 + 000000

TIME 40 30

PFLW 3672 0

PFLR 9.5984 0.8981

X FLW 1.0262 1.0284

15:31 11/23/98

9.100% SULFUR 000922%

OXYGEN FLOW 3.314

-C- -S-

MFLW + 000000 + 000000

TIME 40 30

PFLW 1877 0

PFLR 9.5984 0.8981

X FLW 1.0262 1.0284

15:32 11/23/98

8.949% SULFUR 000844%

OXYGEN FLOW 3.311

-C- -S-

MFLW + 000000 + 000000

TIME 40 30

PFLW 3672 0

PFLR 9.5984 0.8981

X FLW 1.0262 1.0284

15:33 11/23/98

8.285% SULFUR 000868%

OXYGEN FLOW 3.315

-C- -S-

MFLW + 000000 + 000000

TIME 40 30

PFLW 3672 0

PFLR 9.5984 0.8981

X FLW 1.0262 1.0284

15:34 11/23/98

6.316% SULFUR 000848%

OXYGEN FLOW 3.311

-C- -S-

MFLW + 000000 + 000000

TIME 40 30

PFLW 3672 0

PFLR 9.5984 0.8981

X FLW 1.0262 1.0284

15:35 11/23/98

2.222% SULFUR 000842%

OXYGEN FLOW 3.314

-C- -S-

MFLW + 000000 + 000000

TIME 40 30

PFLW 3672 0

PFLR 9.5984 0.8981

X FLW 1.0262 1.0284

15:36 11/23/98

CALCOS MFLW + 000000 + 000000

TIME 40 30

PFLW 17039 0

PFLR 9.5984 0.8981

X FLW 1.0278 1.0291

15:25 11/23/98

12.14% SULFUR 000872%

3.816% SULFUR 000107%

OXYGEN FLOW 3.317

-C- -S-

MFLW + 000000 + 000000

TIME 40 30

PFLW 2292 0

PFLR 9.5984 0.8981

X FLW 1.0262 1.0284

15:26 11/23/98

12.14% SULFUR 000873%

0.8166% SULFUR 000000%

OXYGEN FLOW 3.313

-C- -S-

MFLW + 000000 + 000000

TIME 40 30

PFLW 6171 0

PFLR 9.5984 0.8981

X FLW 1.0262 1.0284

15:27 11/23/98

12.14% SULFUR 000874%

6.672% SULFUR 000865%

OXYGEN FLOW 3.313

-C- -S-

MFLW + 000000 + 000000

TIME 40 30

PFLW 1473 0

PFLR 9.5984 0.8981

X FLW 1.0262 1.0284

15:28 11/23/98

12.14% SULFUR 000875%

2.949% SULFUR 000825%

OXYGEN FLOW 3.311

-C- -S-

MFLW + 000000 + 000000

TIME 40 30

PFLW 3672 0

PFLR 9.5984 0.8981

X FLW 1.0262 1.0284

15:29 11/23/98

12.14% SULFUR 000876%

2.222% SULFUR 000842%

OXYGEN FLOW 3.314

-C- -S-

MFLW + 000000 + 000000

TIME 40 30

PFLW 2183 0

PFLR 9.5984 0.8981

X FLW 1.0262 1.0284

15:30 11/23/98

CALCOS MFLW + 000000 + 000000

TIME 40 30

PFLW 3672 0

PFLR 9.5984 0.8981

X FLW 1.0262 1.0284

15:31 11/23/98

CALCOS MFLW + 000000 + 000000

TIME 40 30

PFLW 3672 0

PFLR 9.5984 0.8981

X FLW 1.0262 1.0284

15:32 11/23/98

CALCOS MFLW + 000000 + 000000

TIME 40 30

PFLW 3672 0

PFLR 9.5984 0.8981

X FLW 1.0262 1.0284

15:33 11/23/98

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C ong geo

15:20:02 11/23/98
6.66% CIL FLOW 000053%
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0.8165 CIL FLOW 000053%
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0.8198 CIL FLOW 000053%
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12.32% CIL FLOW 000073%
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3.758% CIL FLOW 00157%

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15:56 11/23/98
 0000000 0000000 CIL#1
3.880% CIL FLOW 00143%
 CIL FLOW 00143%
0.8276 CIL FLOW 00289%
 CIL FLOW 00289%
 CIL FLOW 00289%

WSTZ

PACENT MONITOR

10:59 11/24/98

CO FLOW	LIMIT	0.322
C CELL	TWD	0 50.4
C CELL	TWD	0 49.3
OXYEN	TWD	0 49.5
CET LTO TWD	0	334.9
C DENE		5.00
C WOL T	+	5.00
CW WOL T	+	33.00
CW WOL T	+	30.00
CW WOL T	+	14.00
C EMTE		5.50
C EMTE		5.50
C TP CELL		9.580
C TP CELL		9.511

11:06 11/24/98

CO2	CO2	0.302
BLANK	0.0000	0.00000
TIME	40	30
PPM	134.34	0
CETL	0 59.94	0.9981
V TWD	1.0292	1.0299

11:07 11/24/98

CACO2	CO2	0.302
BLANK	0.0000	0.00000
TIME	40	30
PPM	134.34	0
CETL	0 59.94	0.9981
V TWD	1.0292	1.0299

11:08 11/24/98

CACO2	CO2	0.302
BLANK	0.0000	0.00000
TIME	40	30
PPM	134.34	0
CETL	0 59.94	0.9981
V TWD	1.0292	1.0299

11:09 11/24/98

CACO2	CO2	0.302
BLANK	0.0000	0.00000
TIME	40	30
PPM	134.34	0
CETL	0 59.94	0.9981
V TWD	1.0292	1.0299

11:10 11/24/98

CACO2	CO2	0.302
BLANK	0.0000	0.00000
TIME	40	30
PPM	134.34	0
CETL	0 59.94	0.9981
V TWD	1.0292	1.0299

11:11 11/24/98

CACO2	CO2	0.302
BLANK	0.0000	0.00000
TIME	40	30
PPM	134.34	0
CETL	0 59.94	0.9981
V TWD	1.0292	1.0299

11:12 11/24/98

CACO2	CO2	0.302
BLANK	0.0000	0.00000
TIME	40	30
PPM	134.34	0
CETL	0 59.94	0.9981
V TWD	1.0292	1.0299

11:13 11/24/98

CACO2	CO2	0.302
BLANK	0.0000	0.00000
TIME	40	30
PPM	134.34	0
CETL	0 59.94	0.9981
V TWD	1.0292	1.0299

11:14 11/24/98

CO2	CO2	0.302
BLANK	0.0000	0.00000
TIME	40	30
PPM	134.34	0
CETL	0 59.94	0.9981
V TWD	1.0292	1.0299

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CO

24.11.98

1101-5

C gas.

1101-5 MTB 1000 CAL#1
11.88 711 FIP 000582
 DIVERSEI FL.04 3.327

CaCO₃

711 FIP + 000582 + 000000
 711 FIP 40. 30.
 711 FIP 15000 0
 711 FIP 0 5912 0.9991
 711 FIP 1 0000 1 0000
 11126 11/24/98

1101-5 MTB 0500 CAL#1

711 FIP 000724
 DIVERSEI FL.04 3.326

-C- -S-

W872

711 FIP + 000582 + 000000
 711 FIP 40. 30.
 711 FIP 1000 0
 711 FIP 0 5912 0.9991
 711 FIP 1 0000 1 0000
 11126 11/24/98

1101-5 MTB 0500 CAL#1

3.846% 711 FIP 001842
 DIVERSEI FL.04 3.324

-C- -S-

W872

711 FIP + 000582 + 000000
 711 FIP 40. 30.
 711 FIP 2114 0
 711 FIP 0 5912 0.9991
 711 FIP 1 0000 1 0000
 11126 11/24/98

1101-5 MTB 1000 CAL#1

6.029% 711 FIP 000422

DIVERSEI FL.04 3.322

-C- -S-

1101-5

711 FIP + 000582 + 000000
 711 FIP 40. 30.
 711 FIP 4191 0
 711 FIP 0 5912 0.9991
 711 FIP 1 0000 1 0000
 11126 11/24/98

1101-5 MTB 1000 CAL#1

3.711% 711 FIP 000472

DIVERSEI FL.04 3.323

-C- -S-

1148

711 FIP + 000582 + 000000
 711 FIP 40. 30.
 711 FIP 4823 0
 711 FIP 0 5912 0.9991
 711 FIP 1 0000 1 0000
 11126 11/24/98

1101-5 MTB 1000 CAL#1

5.929% 711 FIP 000192

DIVERSEI FL.04 3.317

-C- -S-

1153

711 FIP + 000582 + 000000
 711 FIP 40. 30.
 711 FIP 4905 0
 711 FIP 0 5912 0.9991
 711 FIP 1 0000 1 0000
 11127 11/24/98

1101-5 MTB 1000 CAL#1
6.550 711 FIP 000792
 DIVERSEI FL.04 3.319

-C- -S-

711 FIP + 000582 + 000000
 711 FIP 40. 30.

711 FIP 7946 0

711 FIP 0 5912 0.9991

711 FIP 1 0000 1 0000

11129 11/24/98

1101-5 MTB 1000 CAL#1

6.557 711 FIP 000672

DIVERSEI FL.04 3.320

-C- -S-

711 FIP + 000582 + 000000
 711 FIP 40. 30.

711 FIP 7946 0

711 FIP 0 5912 0.9991

711 FIP 1 0000 1 0000

11129 11/24/98

1101-5 MTB 1000 CAL#1

6.267 711 FIP 001052

DIVERSEI FL.04 3.322

-C- -S-

711 FIP + 000582 + 000000
 711 FIP 40. 30.

711 FIP 7970 0

711 FIP 0 5912 0.9991

711 FIP 1 0000 1 0000

11131 11/24/98

1101-5 MTB 1000 CAL#1

5.933 711 FIP 000852

DIVERSEI FL.04 3.320

-C- -S-

711 FIP + 000582 + 000000
 711 FIP 40. 30.

711 FIP 7944 0

711 FIP 0 5912 0.9991

711 FIP 1 0000 1 0000

11132 11/24/98

1101-5 MTB 1000 CAL#1

7.314 711 FIP 000422

DIVERSEI FL.04 3.315

-C- -S-

711 FIP + 000582 + 000000
 711 FIP 40. 30.

711 FIP 9367 0

711 FIP 0 5912 0.9991

711 FIP 1 0000 1 0000

11134 11/24/98

1101-5 MTB 1000 CAL#1

6.297 711 FIP 000872

DIVERSEI FL.04 3.319

-C- -S-

711 FIP + 000582 + 000000
 711 FIP 40. 30.

711 FIP 9350 0

711 FIP 0 5912 0.9991

711 FIP 1 0000 1 0000

11135 11/24/98

1101-5 MTB 1000 CAL#1

1101-5 MTB 1000 CAL#1
11.88 711 FIP 000582
 DIVERSEI FL.04 3.327

-C- -S-

L ges.

1101-5

24.11.9

3.737 711 ETP 000730
711 ETP 3.319
- - -
711 ETP + 000000 + 000000

1188

711 ETP 40 30.
711 ETP 4025 0.
711 ETP 0 0001 0.
711 ETP 1 0000 1 0000
11127 11/24/99
711 ETP 000000 000000 000000
0.8299 711 ETP 000000
711 ETP 3.316
- - -
Std. 711 ETP + 000000 + 000000

0.822

711 ETP 40 30.
711 ETP 000000 0.
711 ETP 0 0001 0.
711 ETP 1 0000 1 0000
11127 11/24/99
711 ETP 000000 000000 000000
12.44 711 ETP 000000
711 ETP 3.324
- - -
CaCO₃

711 ETP + 000000 + 000000
711 ETP 40 30.
711 ETP 000000 0.
711 ETP 0 0001 0 0001
711 ETP 1 0000 1 0000
11127 11/24/99
711 ETP 000000 000000 000000
3.955 711 ETP 000000
711 ETP 3.319
- - -
Std. 711 ETP + 000000 + 000000

W852

711 ETP 40 30.
711 ETP 000000 0.
711 ETP 0 0001 0.
711 ETP 1 0000 1 0000
11127 11/24/99
711 ETP 000000 000000 000000
0.8361 711 ETP 000000
711 ETP 3.314
- - -
Std. 711 ETP + 000000 + 000000

0.822

711 ETP 40 30.
711 ETP 000000 0.
711 ETP 0 0001 0 0001
711 ETP 1 0000 1 0000
11127 11/24/99
711 ETP 000000 000000 000000
0.8229 711 ETP 000000
711 ETP 3.316
- - -

Std.
0.822

711 ETP + 000000 + 000000
711 ETP 40 30.
711 ETP 000000 0.
711 ETP 0 0001 0 0001
711 ETP 1 0000 1 0000

1101-5 11/24/99

711 ETP 000000 000000
1.9267 711 ETP 000000
711 ETP 3.321
- - -
711 ETP + 000000 + 000000

1193

711 ETP 40 30.
711 ETP 000000 0.
711 ETP 0 0001 0 0001
711 ETP 1 0000 1 0000
11127 11/24/99
711 ETP 000000 000000 000000
3.6361 711 ETP 000000
711 ETP 3.322
- - -
711 ETP + 000000 + 000000
711 ETP 40 30.
711 ETP 000000 0.
711 ETP 0 0001 0 0001
711 ETP 1 0000 1 0000
11127 11/24/99
711 ETP 000000 000000 000000

1198

3.157 711 ETP 000000
711 ETP 3.321
- - -
711 ETP + 000000 + 000000
711 ETP 40 30.
711 ETP 000000 0.
711 ETP 0 0001 0 0001
711 ETP 1 0000 1 0000
11127 11/24/99
711 ETP 000000 000000 000000

1203

6.503 711 ETP 000000
711 ETP 3.317
- - -
711 ETP + 000000 + 000000
711 ETP 40 30.
711 ETP 000000 0.
711 ETP 0 0001 0 0001
711 ETP 1 0000 1 0000
11127 11/24/99
711 ETP 000000 000000 000000

1208

2.975 711 ETP 000000
711 ETP 3.323
- - -
711 ETP + 000000 + 000000
711 ETP 40 30.
711 ETP 000000 0.
711 ETP 0 0001 0 0001
711 ETP 1 0000 1 0000
11127 11/24/99
711 ETP 000000 000000 000000

1213

0.8154 711 ETP 000000
711 ETP 3.318
- - -
711 ETP + 000000 + 000000
711 ETP 40 30.
711 ETP 000000 0.
711 ETP 0 0001 0 0001
711 ETP 1 0000 1 0000
11127 11/24/99
711 ETP 000000 000000 000000

Std.

0.822 711 ETP 000000
711 ETP 40 30.
711 ETP 000000 0.
711 ETP 0 0001 0 0001
711 ETP 1 0000 1 0000

24.11.98

1101-5

C ges.

Std.

0.8204 14:18 11/24/98
 10000000 UTO 10000 CAL#1
 DIVISION FLOW 3.333
 -S-
 0.822 14:20 11/24/98
 10000000 UTO 10000 CAL#1
 DIVISION FLOW 3.333
 -S-
 8.056 14:21 11/24/98
 10000000 UTO 10000 CAL#1
 DIVISION FLOW 3.333
 -S-

1218

-S-
 0.822 14:22 11/24/98
 10000000 UTO 10000 CAL#1
 DIVISION FLOW 3.333
 -S-
 12.81% 14:23 11/24/98
 10000000 UTO 10000 CAL#1
 DIVISION FLOW 3.333
 -S-

14:23 11/24/98

~~1205~~
 NEW FLOW 4
 DIVISION FLOW 2

1223

14:36 11/24/98
 10000000 UTO 10000 CAL#1
 6.804 11:15:00 .000655
 DIVISION FLOW 3.333
 -S-
 0.822 14:37 11/24/98
 10000000 UTO 10000 CAL#1
 3.250 11:15:00 .000655
 DIVISION FLOW 3.333
 -S-

1228

14:39 11/24/98
 10000000 UTO 10000 CAL#1
 1.892 11:15:00 .000655
 DIVISION FLOW 3.333
 -S-

1233

14:40 11/24/98
 10000000 UTO 10000 CAL#1
 0.822 14:41 11/24/98
 10000000 UTO 10000 CAL#1
 DIVISION FLOW 3.333
 -S-

1238

14:43 11/24/98
 10000000 UTO 10000 CAL#1
2.183 11:15:00 .000655
 DIVISION FLOW 3.333
 -S-
 0.822 14:44 11/24/98
 10000000 UTO 10000 CAL#1
 DIVISION FLOW 3.333
 -S-

0.8243 14:45 11/24/98
 10000000 UTO 10000 CAL#1
 DIVISION FLOW 3.333
 -S-
 Std.

0.822

14:46 11/24/98
 10000000 UTO 10000 CAL#1
12.81% 11:15:00 .000655
 DIVISION FLOW 3.333
 -S-

Caco3

14:46 11/24/98
 10000000 UTO 10000 CAL#1
3.94% 11:15:00 .000655
 DIVISION FLOW 3.333
 -S-

1242

14:47 11/24/98
 10000000 UTO 10000 CAL#1
5.500 11:15:00 .000655
 DIVISION FLOW 3.333
 -S-

1243

14:48 11/24/98
 10000000 UTO 10000 CAL#1
8.410% 11:15:00 .000655
 DIVISION FLOW 3.333
 -S-

1248

14:49 11/24/98
 10000000 UTO 10000 CAL#1
12.81% 11:15:00 .000655
 DIVISION FLOW 3.333
 -S-
 ✓

C yes.

1101-5

24.11.98

8.449% 11.712 200.74%

1253 100000 + .000000
 100000 40. 30.
 100000 19192. 0.
 100000 0.5012 0.0001
 100000 1.8397 1.0312
 100000 18174 11.24198
 100000 0.73 0.0000 0.00 #1
8.550 100000 0.0000
 100000 0.00 0.00

1258 48. 38.
 10771. 8.
 3.5012 0.9981
 1.0217 1.0217
 14155 11/24/99
 6.1411 0.9981
 DIVISION FLOW 3.324
 "C" - "F"

1263 1263 48. 38.
 6849. 6849. 0.
 8. 5912 8. 8981
 1. 9294 1. 9311
 14.57 11.24.99
 11.24.99 MTB 9999 CPL#1
 7.502 7.502 0.000671
 31.00 31.00 3.324

1328 01 0000 + .000000 + .000000
TIME 40. 30.
DATE 11687. 8.
LSDT 0.5912 0.8991
WZDT 1.9292 1.0305
15:01 11/24/98
115230049 WTD 1918 CPL #1
9.8581 018 FWD 000467
00000000000000000000000000000000

1323 20.0000 + .000000 + .000000
T.T.A.M. 48. 30.
D.E.C.V. 1.2985. 0.
A.M.T.D. 0.5912 0.0981
M. E.C.P. 1.8284 1.0311
15:02 11/24/98

9.272 000152
DUSTON FLOW 3.324
-S- -S-

1318	1000000	+ .000000
10000	40.	.30.
10000	10487.	0.
10000	9.5912	9.8981
10000	1.0200	1.0311
10000	15.04	11/24/99
1000000000	WTG. 1000000000	+1
6509	SULFUR	.00042%
1000000000	FLOW	3.322

1313 7745 48. 38.
 8204 7373. 8.
 12112 0.5912 0.8981
 11251 1.0291 1.0307
 15:06 11/24/98
 13033052 671.0849 CAL#1
0.8236 SULFUR 0000067
 14000000 FLOW 3.313

Sfd.
 0.822
 24 2000 + .000000 + .000000
 25 2000 42. 38.
 26 2000 6.236. 0.
 27 2000 0.5912 0.9981
 28 2000 1.8275 1.0291
 29 2000 15:07 11/24/98
 30 2000 1010 1010 CAL#1
 12:10 2000 0.000000
 14:00 2000 3.325

CaCO_3

$\alpha(\text{CO}_3)$	1.00000	1.00000
TIME	48.	30.
PERIOD	15942.	0.
PERIOD	8.9912	8.9981
PERIOD	1.0300	1.0312
	151.00	11.24/98

	-C-	-S-
W.D.W.	4.08000	4.00000
TIME	48.	30.
DATA	2337.	0.
TEL. NO.	0.5912	0.0981
Y. END	1.0202	1.0305

6.353 SULFUR 20000%
ANNEALED 3.822

24.11.98

1101-5

C 260.

7.68% SULFUR .000514
OXYGEN FLOW 3.322
-C- -S-
1303

SI FAK + .000000 + .000000
TIME 49. 30.
PARK 9877. 0.
CALIBR 0.5912 0.8981
K FRC 1.9294 1.0387
15:14 11/24/98

7.23% SULFUR .000562
OXYGEN FLOW 3.323
-C- -S-

1298

SI FAK + .000000 + .000000
TIME 40. 30.
PARK 9831. 0.
CALIBR 0.5912 0.8981
K FRC 1.9295 1.0389
15:17 11/24/98

8.71% SULFUR .000652
OXYGEN FLOW 3.324
-C- -S-

1293

SI FAK + .000000 + .000000
TIME 49. 30.
PARK 9159. 0.
CALIBR 0.5912 0.8981
K FRC 1.9294 1.0311
15:18 11/24/98

9.62% SULFUR .000752
OXYGEN FLOW 3.325
-C- -S-

1288

SI FAK + .000000 + .000000
TIME 49. 30.
PARK 12736. 0.
CALIBR 0.5912 0.8981
K FRC 1.9300 1.0313
15:19 11/24/98

9.17% SULFUR .000812
OXYGEN FLOW 3.321
-C- -S-

1283

SI FAK + .000000 + .000000
TIME 49. 30.
PARK 11218. 0.
CALIBR 0.5912 0.8981
K FRC 1.9292 1.0385
15:21 11/24/98

6.88% SULFUR .000472
OXYGEN FLOW 3.316
-C- -S-

1278

SI FAK + .000000 + .000000
TIME 49. 30.
PARK 6793. 0.
CALIBR 0.5912 0.8981
K FRC 1.9290 1.0296
15:22 11/24/98

7.338% SULFUR .000702
OXYGEN FLOW 3.322
-C- -S-
1273

Probe
sole
fallen
?

SI FAK + .000000 + .000000
TIME 49. 30.
PARK 9754. 0.
CALIBR 0.5912 0.8981
K FRC 1.9294 1.0387
15:23 11/24/98

10.33% SULFUR .000752
OXYGEN FLOW 3.322
-C- -S-

1333

SI FAK + .000000 + .000000
TIME 49. 30.
PARK 9637. 0.
CALIBR 0.5912 0.8981
K FRC 1.9294 1.0387
15:25 11/24/98

9.629% SULFUR .000842
OXYGEN FLOW 3.324
-C- -S-

1338

SI FAK + .000000 + .000000
TIME 49. 30.
PARK 10915. 0.
CALIBR 0.5912 0.8981
K FRC 1.9298 1.0311
15:26 11/24/98

0.8198% SULFUR .000047
OXYGEN FLOW 3.317
Std.

0.822

SI FAK + .000000 + .000000
TIME 49. 30.
PARK 9956. 0.
CALIBR 0.5912 0.8981
K FRC 1.9295 1.0298
15:28 11/24/98

12.73% SULFUR .000612
OXYGEN FLOW 3.323
-C- -S-

Caco₃

SI FAK + .000000 + .000000
TIME 49. 30.
PARK 15943. 0.
CALIBR 0.5912 0.8981
K FRC 1.9295 1.0309
15:29 11/24/98

3.872% SULFUR .000372
OXYGEN FLOW 3.321
-C- -S-

W&Z

SI FAK + .000000 + .000000
TIME 49. 30.
PARK 2117. 0.
CALIBR 0.5912 0.8981
K FRC 1.9292 1.0395

24.11.98

1101-5

C geo.

24.11.98

15:37 11/24/98

100% 0.999999999 WTD. 1000 CAL#1

9.668% 0.99792 0.999999%

DIVISION FLOW 3.322

-C- -S-

1343 8.844% +.000000 +.000000

TIME 49. 30.

STDEV 1.0939. 0.

CAL 10. 0.5912 0.8981

W.FWD. 1.0291 1.0397

15:38 11/24/98

100% 0.999999999 WTD. 1000 CAL#1

8.883% 0.99792 0.999999%

DIVISION FLOW 3.321

-C- -S-

1348 8.844% +.000000 +.000000

TIME 49. 30.

STDEV 0.9929. 0.

CAL 10. 0.5912 0.8981

W.FWD. 1.0292 1.0375

15:40 11/24/98

100% 0.999999999 WTD. 1000 CAL#1

8.595% 0.99792 0.99954%

DIVISION FLOW 3.326

-C- -S-

1353 8.751% +.000000 +.000000

TIME 49. 30.

STDEV 1.0319. 0.

CAL 10. 0.5912 0.8981

W.FWD. 1.0292 1.0314

15:41 11/24/98

100% 0.999999999 WTD. 1000 CAL#1

8.751% 0.99792 0.99997%

DIVISION FLOW 3.325

-C- -S-

1358 8.820% +.000000 +.000000

TIME 49. 30.

STDEV 1.0479. 0.

CAL 10. 0.5912 0.8981

W.FWD. 1.0293 1.0313

15:42 11/24/98

100% 0.999999999 WTD. 1000 CAL#1

0.8207 0.99792 0.99995%

DIVISION FLOW 3.314

-C- -S-

Sfd. 8.822% +.000000 +.000000

TIME 49. 30.

STDEV 0.9122. 0.

CAL 10. 0.5912 0.8981

W.FWD. 1.0293 1.0292

V

Sfd.

0.822

03.12.98

1101 - 5

Corg.

AMBIENT MONITOR

11:56 12/03/98

O2 FLOW L/MIN 3.342
 C. CELL TMP. °C 50.5
 S. CELL TMP. °C 48.3
 OVEN TMP. °C 48.5
 OLT. HTR. TMP. °C 326.5
 5 REFF. 5.00
 5 VOLT + 5.00
 24 VOLT + 23.96
 38 VOLT + 29.99
 15 VOLT +/- 14.99
 C. EMITR. 5.50
 S. EMITR. 5.50
 C. IR CELL 8.576
 S. IR CELL 8.512

12:02 12/03/98

CODE 000000073 WTD. 1000 CAL#1

C. SULFUR .000077%

OXYGEN FLOW 3.336

-C- -S-

BLANK + .000000 + .000000

TIME 40. 30.

PEAK 13922. 0.

CALIB. 0.5912 0.8981

K FRC. 1.0319 1.0321

12:03 12/03/98

CODE 000000073 WTD. 0.0042 CAL#1

C. SULFUR .000052

OXYGEN FLOW 3.331

-C- -S-

BLANK + .000000 + .000000

TIME 40. 30.

PEAK 13926. 0.

CALIB. 0.5912 0.8981

K FRC. 1.0319 1.0323

12:04 12/03/98

CODE 000000073 WTD. 0.0072 CAL#1

C. SULFUR .000062

OXYGEN FLOW 3.331

-C- -S-

BLANK + .000000 + .000000

TIME 40. 30.

PEAK 9174. 0.

CALIB. 0.5912 0.8981

K FRC. 1.0319 1.0323

12:06 12/03/98

CODE 000000073 WTD. 0.9938 CAL#1

C. SULFUR .000083%

OXYGEN FLOW 3.332

-C- -S-

BLANK + .000000 + .000000

TIME 40. 30.

PEAK 7960. 0.

CALIB. 0.5912 0.8981

K FRC. 1.0319 1.0325

CODE 000000073 WTD. 0.9938 CAL#1

C. SULFUR .000095%

TIME 41. 30.

PEAK 6798. 0.

CALIB. 0.5912 0.8981

K FRC. 1.0307 1.0323

*** STACK CALIBRATION ***

12:08 12/03/98
 CODE HEIGHT CARBON% SULFUR%
 000000077 1.0010 0.8211 .00005
 000000076 0.9930 0.8296 .00003
 000000075 1.0070 0.8325 .00006
 000000074 1.0040 0.8350 .00005
 000000073 0.1000 11.99 .00077
 000000072 1.0001 0.8207 .00005
 000000071 0.1000 0.751 .00007
 000000070 0.1000 0.595 .00054
 000000069 0.1000 0.883 .00008
 000000068 0.1000 0.668 .00008
 CARBON STD.% 00.8220
 OLD C-CAL -1- 0.5912
 INCLUDE CARBON
 000000077 0.8211
 000000076 0.8296
 000000075 0.8325
 000000074 0.8350
 NEW C-CAL 1- 0.5858

12:09 12/03/98
 CODE HEIGHT CARBON% SULFUR%
 000000077 1.0010 0.8136 .00005
 000000076 0.9930 0.8220 .00003
 000000075 1.0070 0.8250 .00006
 000000074 1.0040 0.8274 .00005
 000000073 0.1000 11.88 .00077
 000000072 1.0001 0.8132 .00005
 000000071 0.1000 0.672 .00007
 000000070 0.1000 0.517 .00054
 000000069 0.1000 0.882 .00008
 000000068 0.1000 0.580 .00008
 *** END CALIBRATION ***

12:10 12/03/98
 CODE 000000078 WTD. 0.9960 CAL#1
 CARBON 0.8202% SULFUR .000071
 OXYGEN FLOW 3.330

-C- -S-
 Blnd. BLANK + .000000 + .000000
 TIME 40. 30.
 PEAK 9456. 0.
 0.822 CALIB. 0.5858 -0.8981
 K FRC. 1.0308 1.0321
 *** CLEANING TIME ***

12:14 12/03/98
 CODE 000000079 WTD. 1000 CAL#1
 C. SULFUR .000082%
 OXYGEN FLOW 3.342

-C- -S-
 Blnd. BLANK + .000000 + .000000
 TIME 40. 30.
 PEAK 15646. 0.
 CALIB. 0.5858 0.8981
 K FRC. 1.0329 1.0342
 *** OUT-OF-SEQ REGIM ***

12:16 12/03/98
 CODE 000000081 WTD. 0.9980 CAL#1

Corg. 1101-5 03.12.98

Std. 0.822

BLANK SULFUR .000000
OXYGEN FLOW 3.334
-C- -S-
PEAK + .000000 + .000000
TIME 40. 30.
PEAK 10189. 0.
CALIB. 0.5867 0.8981
X FRC. 1.0315 1.0328
*** OUT-SED BEGUN ***
12:18 12/03/98
ID CODE 0000000002 Wt1. 0000 CAL#1
BLANK SULFUR .000000
OXYGEN FLOW 3.334
-C- -S-
PEAK + .000000 + .000000
TIME 40. 30.
PEAK 7666. 0.
CALIB. 0.5858 0.8981
X FRC. 1.0308 1.0321
*** OUT-SED BEGUN ***
12:20 12/03/98
ID CODE 0000000002 Wt0. 0970 CAL#1
BLANK SULFUR .000000
OXYGEN FLOW 3.334
-C- -S-
PEAK + .000000 + .000000
TIME 40. 30.
PEAK 7445. 0.
CALIB. 0.5858 0.8981
X FRC. 1.0315 1.0328
*** OUT-SED BEGUN ***
12:26 12/03/98
ID CODE 0000000004 Wt1. 0030 CAL#1
BLANK SULFUR .000000
OXYGEN FLOW 3.334
-C- -S-
PEAK + .000000 + .000000
TIME 40. 30.
PEAK 9487. 0.
CALIB. 0.5867 0.8981
X FRC. 1.0315 1.0328
*** STACK CALIBRATION ***
12:27 12/03/98
ID CODE 0000000004 Wt1. 0030 SULFUR%
CARBON .8220% SULFUR .00005%
OXYGEN FLOW 3.336

Std. 0.82228
BLANK STD.% 0.82228
OLD C-CAL. -1- 0.5867
INCLUDE CARBON
0000000034 0.8202
0000000083 0.8180
0000000082 0.8272
0000000081 0.8161
0000000078 0.8215
0000000077 0.8149
0000000076 0.8233
0000000075 0.8263
0000000074 0.8287
NEW C-CAL. -1- 0.5869

12:28 12/03/98
ID CODE WEIGHT CARBON% SULFUR%
0000000034 1.0030 0.8205 .000057
0000000033 0.9970 0.8183 .00006
0000000032 1.0030 0.8274 .00004
0000000031 0.9930 0.8163 .00003
0000000030 0.1000 11.97 .00008
0000000029 0.9960 0.8217 .00007
0000000028 1.0010 0.8152 .00005
0000000026 0.9930 0.8236 .00003
0000000025 1.0070 0.8265 .00006
0000000024 1.0040 0.8289 .00005
*** OUT-SED BEGUN ***

12:30 12/03/98
ID CODE 0000000085 Wt0. 0970 CAL#1
CARBON 0.8220% SULFUR .00005%
OXYGEN FLOW 3.336

Std. 0.822

-C- -S-
BLANK + .000000 + .000000
TIME 40. 30.
PEAK 9304. 0.
CALIB. 0.5859 0.8981
X FRC. 1.0319 1.0331

12:31 12/03/98
ID CODE 0000000080 Wt0. 0510 CAL#1
CARBON 0.8032% SULFUR .000075%
OXYGEN FLOW 3.338

-C- -S-
Wt02 BLANK + .000000 + .000000
TIME 40. 30.
PEAK 1896. 0.
CALIB. 0.5869 0.8981
X FRC. 1.0322 1.0336

12:33 12/03/98
ID CODE 0000000086 Wt0. 1000 CAL#1
CARBON 11.86% SULFUR .00014%
OXYGEN FLOW 3.336

-C- -S-
CaCO3 BLANK + .000000 + .000000
TIME 40. 30.
PEAK 12266. 0.
CALIB. 0.5869 0.8981
X FRC. 1.0319 1.0331

12:34 12/03/98
ID CODE 0000000087 Wt0. 1000 CAL#1

03.12.98

Coag 1101-5

Coag

CARBON 0.2970% SULFUR .00056%
 OXYGEN FLOW 3.336
 -C- -S-

1101-5 BLANK +.00000 +.00000

TIME 40. 30.

PEAK 312. 0.

793au CALIB. 0.5869 0.8981
 K FRC 1.0319 1.0331
 12:36 12/03/98

ID CODE C00000088 WTB.1000 CAL#1

CARBON 0.3786% SULFUR .00015%

OXYGEN FLOW 3.336

-C- -S-

BLANK +.00000 +.00000

TIME 40. 30.

PEAK 408. 0.

CALIB. 0.5869 0.8981

K FRC 1.0319 1.0331

12:37 12/03/98

ID CODE C00000089 WTB.1000 CAL#1

CARBON 0.1620% SULFUR .00007%

OXYGEN FLOW 3.333

-C- -S-

BLANK +.00000 +.00000

TIME 42. 30.

PEAK 169. 0.

CALIB. 0.5869 0.8981

K FRC 1.0311 1.0327

12:38 12/03/98

ID CODE C00000090 WTB.1000 CAL#1

CARBON 0.1842% SULFUR .00016%

OXYGEN FLOW 3.334

-C- -S-

BLANK +.00000 +.00000

TIME 40. 30.

PEAK 220. 0.

CALIB. 0.5869 0.8981

K FRC 1.0315 1.0328

12:40 12/03/98

ID CODE C00000091 WTB.1000 CAL#1

CARBON 0.1723% SULFUR .00014%

OXYGEN FLOW 3.335

-C- -S-

BLANK +.00000 +.00000

TIME 40. 30.

PEAK 192. 0.

CALIB. 0.5869 0.8981

K FRC. 1.0317 1.0330

12:41 12/03/98

ID CODE C00000092 WTB.1000 CAL#1

CARBON 0.1396% SULFUR .00004%

OXYGEN FLOW 3.334

-C- -S-

BLANK +.00000 +.00000

TIME 40. 30.

PEAK 137. 0.

CALIB. 0.5869 0.8981

K FRC. 1.0315 1.0328

12:42 12/03/98

818 BLANK +.00000 +.00000

TIME 40. 30.

PEAK 137. 0.

CALIB. 0.5869 0.8981

K FRC. 1.0315 1.0328

12:42 12/03/98

823 BLANK +.00000 +.00000

TIME 40. 30.

PEAK 232. 0.

CALIB. 0.5869 0.8981

K FRC. 1.0312 1.0325

12:44 12/03/98

828 BLANK +.00000 +.00000

TIME 40. 30.

PEAK 256. 0.

CALIB. 0.5869 0.8981

K FRC. 1.0312 1.0325

12:45 12/03/98

833 BLANK +.00000 +.00000

TIME 40. 30.

PEAK 212. 0.

CALIB. 0.5869 0.8981

K FRC. 1.0319 1.0323

12:47 12/03/98

838 BLANK +.00000 +.00000

TIME 40. 30.

PEAK 168. 0.

CALIB. 0.5869 0.8981

K FRC. 1.0309 1.0311

12:49 12/03/98

Std. BLANK +.00000 +.00000

TIME 40. 30.

PEAK 7962. 0.

CALIB. 0.5869 0.8981

K FRC. 1.0386 1.0319

12:50 12/03/98

0.3221 BLANK +.00000 +.00000

TIME 40. 30.

PEAK 7962. 0.

CALIB. 0.5869 0.8981

K FRC. 1.0386 1.0319

12:50 12/03/98

CaOg BLANK +.00000 +.00000

TIME 40. 30.

PEAK 14512. 0.

CALIB. 0.5869 0.8981

K FRC. 1.0309 1.0325

12:51 12/03/98

CaOg BLANK +.00000 +.00000

TIME 40. 30.

PEAK 14512. 0.

CALIB. 0.5869 0.8981

K FRC. 1.0309 1.0325

12:51 12/03/98

Comp. 1108-5 03.12.98

12:52 12/03/98
 ID CODE C000000099 WTB. 0510 CAL#1
 CARBON 0.742% SULFUR .000109%
 OXYGEN FLOW 3.330
 -C- -S-

W852 BLANK +.000000 +.000000
 TIME 40. 30.
 PEAK 1675. 0.
 CALIB. 0.5869 0.8981
 K FRC. 1.0328 1.0321
 13:40 12/03/98

ID CODE C000000080 WTB. 9980 CAL#1
 CARBON 0.6187% SULFUR .00002%
 OXYGEN FLOW 3.340
 -C- -S-

Std. BLANK +.000000 +.000000
 TIME 40. 30.
 0.822% PEAK 8080. 0.
 CALIB. 0.5869 0.8981
 K FRC. 1.0331 1.0339
 13:42 12/03/98

W852 C000000001 WTB. 9980 CAL#1
 0.8274% SULFUR .00005%
 OXYGEN FLOW 3.338
 -C- -S-

BLANK +.000000 +.000000
 TIME 49. 30.
 PEAK 9387. 0.
 CALIB. 0.5869 0.8981
 K FRC. 1.0329 1.0336
 13:44 12/03/98

ID CODE C000000002 WTB. 1000 CAL#1
 CARBON 0.1327% SULFUR .00022%
 OXYGEN FLOW 3.342
 -C- -S-

843 BLANK +.000000 +.000000
 TIME 40. 30.
 PEAK 136. 0.
 CALIB. 0.5869 0.8981
 K FRC. 1.0325 1.0342
 13:46 12/03/98

ID CODE C000000003 WTB. 1000 CAL#1
 CARBON 0.1273% SULFUR .00032%
 OXYGEN FLOW 3.341
 -C- -S-

848 BLANK +.000000 +.000000
 TIME 40. 30.
 PEAK 120. 0.
 CALIB. 0.5869 0.8981
 K FRC. 1.0333 1.0341
 13:47 12/03/98

ID CODE C000000004 WTB. 1000 CAL#1
 CARBON 0.1312% SULFUR .00038%
 OXYGEN FLOW 3.341
 -C- -S-

853 BLANK +.000000 +.000000
 TIME 41. 30.
 PEAK 129. 0.
 CALIB. 0.5869 0.8981
 K FRC. 1.0333 1.0341
 13:48 12/03/98

ID CODE C000000005 WTB. 1000 CAL#1
 CARBON 0.1688% SULFUR .00048%
 OXYGEN FLOW 3.339
 -C- -S-

858 BLANK +.000000 +.000000
 TIME 40. 30.
 PEAK 189. 0.
 CALIB. 0.5869 0.8981
 K FRC. 1.0327 1.0339
 13:50 12/03/98

ID CODE C000000006 WTB. 1000 CAL#1
 CARBON 0.1857% SULFUR .00038%
 OXYGEN FLOW 3.338
 -C- -S-

863 BLANK +.000000 +.000000
 TIME 40. 30.
 PEAK 192. 0.
 CALIB. 0.5869 0.8981
 K FRC. 1.0325 1.0336
 13:51 12/03/98

ID CODE C000000007 WTB. 1000 CAL#1
 CARBON 0.2289% SULFUR .00023%
 OXYGEN FLOW 3.336
 -C- -S-

868 BLANK +.000000 +.000000
 TIME 40. 30.
 PEAK 259. 0.
 CALIB. 0.5869 0.8981
 K FRC. 1.0324 1.0331
 13:53 12/03/98

ID CODE C000000008 WTB. 1000 CAL#1
 CARBON 0.8289% SULFUR .00044%
 OXYGEN FLOW 3.336
 -C- -S-

873 BLANK +.000000 +.000000
 TIME 40. 30.
 PEAK 908. 0.
 CALIB. 0.5869 0.8981
 K FRC. 1.0322 1.0331
 13:55 12/03/98

ID CODE C000000009 WTB. 1000 CAL#1
 CARBON 0.7764% SULFUR .00016%
 OXYGEN FLOW 3.334
 -C- -S-

878 BLANK +.000000 +.000000
 TIME 40. 30.
 PEAK 824. 0.
 CALIB. 0.5869 0.8981
 K FRC. 1.0318 1.0328
 13:56 12/03/98

ID CODE C000000010 WTB. 1000 CAL#1
 CARBON 0.7027% SULFUR .00065%
 OXYGEN FLOW 3.333
 -C- -S-

883 BLANK +.000000 +.000000
 TIME 41. 30.
 PEAK 580. 0.
 CALIB. 0.5869 0.8981
 K FRC. 1.0317 1.0327
 13:57 12/03/98

C-8.

1101-5

03.12.98

0.5351% SULFUR .00032%
OXYGEN FLOW 3.345
-C- -S-

933 BLANK + .00000 + .00000
TIME 40. 30.
PEAK 612. 0.

0.5937

0.5937 .00032%
-C- -S-

BLANK + .00000 + .00000
TIME 40. 30.
PEAK 604. 0.

0.8452

14:26 12/03/98

0.8223% SULFUR .00036%
OXYGEN FLOW 3.339
-C- -S-

Std.

0.822% BLANK + .00000 + .00000
TIME 40. 30.

0.822% .00036%
-C- -S-

BLANK + .00000 + .00000
TIME 40. 30.
PEAK 612. 0.

0.822% 12/03/98
0.822% .00036%
OXYGEN FLOW 3.345
-C- -S-

BLANK + .00000 + .00000
TIME 40. 30.
PEAK 1908. 0.

CALIB. 0.5869 0.8981
K FRC. 1.0338 1.0348
14:31 12/03/98

0.09282 SULFUR .00045%
OXYGEN FLOW 3.350-
-C- -S-

BLANK + .00000 + .00000
TIME 40. 30.
PEAK 15548. 0.

0.09282 SULFUR .00045%
OXYGEN FLOW 3.350-
-C- -S-

CaCO₃

14:37 12/03/98

0.9294% SULFUR .00038%
OXYGEN FLOW 3.344
-C- -S-

948 BLANK + .00000 + .00000
TIME 40. 30.
PEAK 980. 0.

CALIB. 0.5869 0.8981
K FRC. 1.0346 1.0346
14:38 12/03/98

0.4615% SULFUR .00038%
OXYGEN FLOW 3.344
-C- -S-

938 BLANK + .00000 + .00000
TIME 42. 30.
PEAK 472. 0.

0.5869 0.8981
K FRC. 1.0346 1.0346
14:39 12/03/98

0.4560% SULFUR .00035%
OXYGEN FLOW 3.344
-C- -S-

953 BLANK + .00000 + .00000
TIME 42. 30.
PEAK 432. 0.

0.5869 0.8981
K FRC. 1.0346 1.0346
14:41 12/03/98

0.4462% SULFUR .00032%
OXYGEN FLOW 3.343
-C- -S-

958 BLANK + .00000 + .00000
TIME 42. 30.
PEAK 432. 0.

0.5869 0.8981
K FRC. 1.0346 1.0346
14:42 12/03/98

0.1601% SULEUR .00003%
OXYGEN FLOW 3.348
-C- -S-

963 BLANK + .00000 + .00000
TIME 65. 30.
PEAK 76. 0.

CALIB. 0.5869 0.8981
K FRC. 1.0345 1.0353
14:50 12/03/98

0.09282 SULFUR .00045%
OXYGEN FLOW 3.345
-C- -S-

968 BLANK + .00000 + .00000
TIME 52. 30.
PEAK 74. 0.

0.5869 0.8981
K FRC. 1.0346 1.0346

03.12.98

1101 - 5

Corg.

14:52 12/03/98
 000000045 WTB. 1000 CAL#1
0.1061% SULFUR .000342
 OXYGEN FLOW 3.345
 -C- -S-

BLANK + .000000 + .000000
 TIME 51. 30.

PEAK 9981 0.

CALIB. 0.5869 0.8981

K FRC. 1.0339 1.0346

14:53 12/03/98

000000045 WTB. 1000 CAL#1

OXYGEN FLOW .000342

OXYGEN FLOW 3.345

-C- -S-

0.1033 + .000000 + .000000

TIME 42. 30.

PEAK 108. 0.

CALIB. 0.5869 0.8981

K FRC. 1.0341 1.0348

14:54 12/03/98

000000045 WTB. 1000 CAL#1

0.1310% SULFUR .000442

OXYGEN FLOW 3.346

-C- -S-

983 BLANK + .000000 + .000000

TIME 49. 30.

PEAK 108. 0.

CALIB. 0.5869 0.8981

K FRC. 1.0342 1.0350

14:55 12/03/98

000000045 WTB. 1000 CAL#1

OXYGEN FLOW .000442

OXYGEN FLOW 3.346

-C- -S-

988 BLANK + .000000 + .000000

TIME 43. 30.

PEAK 120. 0.

CALIB. 0.5869 0.8981

K FRC. 1.0337 1.0344

14:59 12/03/98

000000041 WTB. 9970 CAL#1

0.8329% SULFUR .000066

OXYGEN FLOW 3.341

-C- -S-

Std. BLANK + .000000 + .000000

TIME 40. 30.

PEAK 8381. 0.

CALIB. 0.5869 0.8981

1.0333 1.0341

14: OUT-SEN BEGUN ***

15:01 12/03/98

000000044 WTB. 9990 CAL#1

0.8396% SULFUR .000087%

OXYGEN FLOW 3.342

-C- -S-

11 BLANK + .000000 + .000000

TIME 40. 30.

PEAK 8223. 0.

CALIB. 0.5869 0.8981

1.0335 1.0342

14: OUT-SEN BEGUN ***

15:03 12/03/98
 000000045 WTB. 1000 CAL#1
0.8397% SULFUR .000085%
 OXYGEN FLOW 3.344

-C- -S-

Std. BLANK + .000000 + .000000

TIME 40. 30.

PEAK 8174. 0.

CALIB. 0.5869 0.8981

K FRC. 1.0339 1.0346

14: STACK CALIBRATION ***

15:03 12/03/98
 WEIGHT CARBON% SULFUR%
 000000045 1.0030 0.8335 .00005
 000000045 0.9999 0.8396 .00007
 000000045 0.9970 0.8329 .00006
 000000045 0.1000 0.1302 .00069
 000000045 0.1000 0.1310 .00044
 000000045 0.1000 0.1833 .00034
 000000045 0.1000 0.1861 .00034
 000000045 0.1000 0.09282 .00045
 000000045 0.1000 0.1601 .00003
 000000045 0.1000 0.4462 .00032

CARBON STD.% 80.8228
 OLD C-CAL -1- 0.5869
 INCLUDE CARBON
 000000045 0.8335
 000000044 0.8396
 000000041 0.8329
 NEW C-CAL -1- 0.5775

15:04 12/03/98
 WEIGHT CARBON% SULFUR%
 000000045 1.0030 0.8202 .00005
 000000045 0.9999 0.8261 .00007
 000000045 0.9970 0.8196 .00006
 000000045 0.1000 0.1281 .00069
 000000045 0.1000 0.1289 .00044
 000000045 0.1000 0.1816 .00034
 000000045 0.1000 0.1844 .00034
 000000045 0.1000 0.09133 .00045
 000000045 0.1000 0.1575 .00003
 000000045 0.1000 0.4391 .00032

14: END CALIBRATION ***

15:05 12/03/98

000000045 WTB. 1000 CAL#1

11.69% SULFUR .000055%

11.70% SULFUR 3.347

CaCO₃

BLANK + .000000 + .000000
 TIME 40. 30.
 PEAK 13057. 0.
 CALIB. 0.5775 0.8981

1.0344 1.0352

15:07 12/03/98

000000043 WTB. 0500 CAL#1

3.963% SULFUR .00092%

OXYGEN FLOW 3.341

-C- -S-

BLANK + .000000 + .000000

TIME 40. 30.

PEAK 2253. 0.

CALIB. 0.5775 0.8981

K FRC. 1.0333 1.0341

C 08.

1101-5

08.12.98

AMBIENT MONITOR

11:21 12/08/98

O2 FLOW L/MIN 3.353
 C. CELL TMP. °C 50.4
 S. CELL TMP. °C 48.3
 OVEN TMP. °C 48.5
 CAT. HTR. TMP. °C 341.9
 5 REFF. 5.00
 5 VOLT + 5.00
 24 VOLT + 23.99
 30 VOLT + 29.99
 15 VOLT +/- 14.99
 C. EMITR. 5.50
 S. EMITR. 5.50
 C. IR CELL 8.497
 S. IR CELL 8.511

11:24 12/08/98

11 CODE C000000046 WT0.1050 CAL#1
 CARBON 11.51% SULFUR .00048%
 OXYGEN FLOW 3.324

-C- -S-

CaCO₃ BLANK + .00000 + .00000
 TIME 41. 30.
 PEAK 9177. 0.
 CALIB. 0.5775 0.8981
 K FRC. 1.0294 1.0311

11:28 12/08/98

11 CODE C000000047 WT0.9980 CAL#1
 CARBON 0.9195% SULFUR .00003%
 OXYGEN FLOW 3.395

-C- -S-

Std. BLANK + .00000 + .00000
 TIME 42. 30.
 PEAK 9177. 0.
 CALIB. 0.5775 0.8981
 K FRC. 1.0421 1.0436

11:30 12/08/98

11 CODE C000000048 WT0.9990 CAL#1
 CARBON 0.9270% SULFUR .00008%
 OXYGEN FLOW 3.403

-C- -S-

BLANK + .00000 + .00000
 TIME 41. 30.
 PEAK 9613. 0.
 CALIB. 0.5775 0.8981
 K FRC. 1.0434 1.0450

11:32 12/08/98

11 CODE C000000049 WT1.0010 CAL#1
 CARBON 0.9128% SULFUR .00009%
 OXYGEN FLOW 3.390

-C- -S-

BLANK + .00000 + .00000
 TIME 42. 30.
 PEAK 9496. 0.
 CALIB. 0.5775 0.8981
 K FRC. 1.0411 1.0427

11:34 12/08/98

11 CODE C000000050 WT1.0000 CAL#1
 CARBON 0.9231% SULFUR .00007%
 OXYGEN FLOW 3.399
 Std. -C- -S-
 BLANK + .00000 + .00000
 TIME 42. 30.
 PEAK 9343. 0.
 CALIB. 0.5775 0.8981
 K FRC. 1.0427 1.0444

*** STACK CALIBRATION ***

11:34 12/08/98
 11 CODE WEIGHT CARBON% SULFUR%
 11111111110 1.0000 0.9231 .00007
 11111111119 1.0010 0.9128 .00009
 11111111118 0.9990 0.9270 .00008
 11111111117 0.9980 0.9195 .00003
 11111111116 0.1050 11.51 .00048
 11111111115 0.0500 3.968 .00092
 11111111114 0.1000 11.69 .00055
 11111111113 1.0030 0.8202 .00005
 11111111112 0.9990 0.8261 .00007
 11111111111 0.9970 0.8196 .00006

CARBON STD.% 00.9220
 OLD C-CAL -1- 0.5775
 INCLUDE CARBON
 C000000050 0.9231
 C000000049 0.9128
 C000000048 0.9270
 C000000047 0.9195
 NEW C-CAL -1- 0.5157

11:35 12/08/98
 11 CODE WEIGHT CARBON% SULFUR%
 11111111110 1.0000 0.8243 .00007
 11111111119 1.0010 0.8151 .00009
 11111111118 0.9990 0.8277 .00008
 11111111117 0.9980 0.8211 .00003
 11111111116 0.1050 10.28 .00048
 11111111115 0.0500 3.543 .00092
 11111111114 0.1000 10.44 .00055
 11111111113 1.0030 0.7323 .00005
 11111111112 0.9990 0.7377 .00007
 11111111111 0.9970 0.7318 .00006
 *** END CALIBRATION ***

11:39 12/08/98
 11 CODE C000000051 WT0.9950 CAL#1
 CARBON 0.9183% SULFUR .00006%
 OXYGEN FLOW 3.402

Std. -C- -S-
 BLANK + .00000 + .00000
 TIME 41. 30.
 PEAK 10217. 0.
 CALIB. 0.5157 0.8981
 K FRC. 1.0433 1.0449

08.12.98

1101 - 5

Corg.

11:40 12/08/98

11:53 12/08/98

11 CODE C00000052 WTB.1010 CAL#1
 11 0.2% SULFUR .00050%
 OXYGEN FLOW 3.399

11 CODE C00000058 WTB.1000 CAL#1
 11 0.5052% SULFUR .00032%
 OXYGEN FLOW 3.468

CaCO₃ -C- -S-
 BLANK +.000000 +.000000
 TIME 40. 30.
 PEAK 15487. 0.
 CALIB. 0.5157 0.8981
 K FRC. 1.0427 1.0444

-C- -S-
 1013 BLANK +.000000 +.000000
 TIME 54. 30.
 PEAK 481. 0.
 CALIB. 0.5157 0.8981
 K FRC. 1.0549 1.0566
 *** CLEANING TIME ***
 11:54 12/08/98

11 CODE C00000053 WTB.0490 CAL#1
 11 0.754% SULFUR .00101%
 OXYGEN FLOW 3.381

11 CODE C00000059 WTB.1000 CAL#1
 11 0.3428% SULFUR .00028%
 OXYGEN FLOW 3.461

WSTL -C- -S-
 BLANK +.000000 +.000000
 TIME 40. 30.
 PEAK 2143. 0.
 CALIB. 0.5157 0.8981
 K FRC. 1.0396 1.0412

-C- -S-
 1018 BLANK +.000000 +.000000
 TIME 50. 30.
 PEAK 332. 0.
 CALIB. 0.5157 0.8981
 K FRC. 1.0537 1.0554

11:45 12/08/98
 11 CODE C00000054 WTB.1000 CAL#1
 11 0.1813% SULFUR .00026%
 OXYGEN FLOW 3.399

11:56 12/08/98
 11 CODE C00000060 WTB.1000 CAL#1
 11 0.1882% SULFUR .00043%
 OXYGEN FLOW 3.459

1101-5 -C- -S-
 BLANK +.000000 +.000000
 TIME 45. 30.
 PEAK 180. 0.
 993 CALIB. 0.5157 0.8981
 K FRC. 1.0427 1.0444

-C- -S-
 1023 BLANK +.000000 +.000000
 TIME 76. 30.
 PEAK 135. 0.
 CALIB. 0.5157 0.8981
 K FRC. 1.0536 1.0550

11:48 12/08/98
 11 CODE C00000055 WTB.1000 CAL#1
 11 0.2822% SULFUR .00037%
 OXYGEN FLOW 3.391

11:58 12/08/98
 11 CODE C00000061 WTB.1000 CAL#1
 11 0.1679% SULFUR .00039%
 OXYGEN FLOW 3.455

998 -C- -S-
 BLANK +.000000 +.000000
 TIME 41. 30.
 PEAK 336. 0.
 CALIB. 0.5157 0.8981
 K FRC. 1.0416 1.0429

-C- -S-
 1028 BLANK +.000000 +.000000
 TIME 67. 30.
 PEAK 128. 0.
 CALIB. 0.5157 0.8981
 K FRC. 1.0538 1.0543

11:50 12/08/98
 11 CODE C00000056 WTB.1000 CAL#1
 11 0.3383% SULFUR .00038%
 OXYGEN FLOW 3.390

12:00 12/08/98
 11 CODE C00000062 WTB.1000 CAL#1
 11 0.1862% SULFUR .00023%
 OXYGEN FLOW 3.454

1003 -C- -S-
 BLANK +.000000 +.000000
 TIME 46. 30.
 PEAK 360. 0.
 CALIB. 0.5157 0.8981
 K FRC. 1.0411 1.0427

-C- -S-
 1033 BLANK +.000000 +.000000
 TIME 79. 30.
 PEAK 104. 0.
 CALIB. 0.5157 0.8981
 K FRC. 1.0525 1.0541

11:51 12/08/98
 11 CODE C00000057 WTB.1000 CAL#1
 11 0.6899% SULFUR .00073%
 OXYGEN FLOW 3.392

12:02 12/08/98
 11 CODE C00000063 WTB.1000 CAL#1
 11 0.1511% SULFUR .00021%
 OXYGEN FLOW 3.451

1008 -C- -S-
 BLANK +.000000 +.000000
 TIME 51. 30.
 PEAK 668. 0.
 CALIB. 0.5157 0.8981
 K FRC. 1.0415 1.0431

-C- -S-
 1038 BLANK +.000000 +.000000
 TIME 83. 30.
 PEAK 92. 0.
 CALIB. 0.5157 0.8981
 K FRC. 1.0519 1.0535

Cao. 1101-5 08.12.98

TDE 080000064 WT1.0040 CAL#1

1.012% SULFUR .00002%
OXYGEN FLOW 3.443

-C- -S-

Std. BLANK +.000000 +.000000
TIME 47. 30.
PEAK 10891. 0.
CALIB. 0.5157 0.8981
K FRC. 1.0508 1.0522
*** OUT-SEQ BEGUN ***
12:05 12/08/98TDE 080000067 WT1.0040 CAL#1
1.029% SULFUR .00001%

OXYGEN FLOW 3.447

-C- -S-

BLANK +.000000 +.000000
TIME 48. 30.
PEAK 8360. 0.
CALIB. 0.5157 0.8981
K FRC. 1.0515 1.0529
*** OUT-SEQ BEGUN ***

12:07 12/08/98

TDE 080000068 WT1.0030 CAL#1
1.024% SULFUR .00001%

OXYGEN FLOW 3.442

-C- -S-

BLANK +.000000 +.000000
TIME 48. 30.
PEAK 10945. 0.
CALIB. 0.5157 0.8981
K FRC. 1.0504 1.0520

*** STACK CALIBRATION ***

12:08 12/08/98

TDE WEIGHT CARBON% SULFUR%
08000068 1.0030 1.024 .00001
08000067 1.0040 1.036 .00001
08000064 1.0040 1.012 .00002
08000063 0.1000 0.1511 .00021
08000062 0.1000 0.1862 .00023
08000061 0.1000 0.1679 .00039
08000060 0.1000 0.1882 .00043
08000059 0.1000 0.3428 .00028
08000058 0.1000 0.5052 .00032
08000057 0.1000 0.6899 .00073

CARBON STD.% 00.8220

OLD C-CAL -1- 0.5157

INCLUDE CARBON

080000068 1.024

080000067 1.036

080000064 1.012

OLD C-CAL -1- 0.5157

12:08 12/08/98

TDE WEIGHT CARBON% SULFUR%
08000068 1.0030 1.024 .00001
08000067 1.0040 1.036 .00001
08000064 1.0040 1.012 .00002
08000063 0.1000 0.1511 .00021
08000062 0.1000 0.1862 .00023
08000061 0.1000 0.1679 .00039
08000060 0.1000 0.1882 .00043
08000059 0.1000 0.3428 .00028
08000058 0.1000 0.5052 .00032
08000057 0.1000 0.6899 .00073

ALARM IDENT.

#

C-CAL RANGE

1

*** OUT-SEQ BEGUN ***

12:10 12/08/98

TDE 080000069 WT1.0030 CAL#1
1.029% SULFUR .00005%
OXYGEN FLOW 3.442

-C- -S-

BLANK +.000000 +.000000
TIME 48. 30.
PEAK 10075. 0.
CALIB. 0.5157 0.8981
K FRC. 1.0507 1.0520

*** STACK CALIBRATION ***

12:11 12/08/98

TDE WEIGHT CARBON% SULFUR%
08000069 1.0030 1.029 .00005
08000068 1.0030 1.024 .00001
08000067 1.0040 1.036 .00001
08000064 1.0040 1.012 .00002
08000063 0.1000 0.1511 .00021
08000062 0.1000 0.1862 .00023
08000061 0.1000 0.1679 .00039
08000060 0.1000 0.1882 .00043
08000059 0.1000 0.3428 .00028
08000058 0.1000 0.5052 .00032

CARBON STD.% 00.8220

OLD C-CAL -1- 0.5157

INCLUDE CARBON

080000069 1.029

080000068 1.024

080000067 1.036

080000064 1.012

OLD C-CAL -1- 0.5157

12:11 12/08/98

TDE WEIGHT CARBON% SULFUR%
08000069 1.0030 1.029 .00005
08000068 1.0030 1.024 .00001
08000067 1.0040 1.036 .00001
08000064 1.0040 1.012 .00002
08000063 0.1000 0.1511 .00021
08000062 0.1000 0.1862 .00023
08000061 0.1000 0.1679 .00039
08000060 0.1000 0.1882 .00043
08000059 0.1000 0.3428 .00028
08000058 0.1000 0.5052 .00032

*** END CALIBRATION ***

*** OUT-SEQ BEGUN ***

12:13 12/08/98

TDE 080000070 WT1.0020 CAL#1
1.029% SULFUR .00004%
OXYGEN FLOW 3.447

-C- -S-

BLANK +.000000 +.000000

-46. 30.

C-Falle gestartet
div. Schraubverdrehungen überprüft

CALIB. 0.5157 0.8981

0515 1.0529

O2-Flow neu eingestellt

09.12.98

1101-5

C 048.

AMBIENT MONITOR

10:40 12/09/98

O2 FLOW	L/MIN	3.387
C. CELL	TMP. C	49.2
S. CELL	TMP. C	48.3
OVEN	TMP. C	45.1
CAT. HTR. TMP.	C	340.8
5. REFF.		5.01
5. VOLT	+	5.00
24. VOLT	+	23.98
20. VOLT	+	29.97
15. VOLT	+/-	14.99
C. EMITR.		5.50
S. EMITR.		5.51
C. IR CELL		8.510
S. IR CELL		8.510

10:41 12/09/98

- TIME	000000065	WT0.1000 CAL#1
- 55311	9.874%	SULFUR .00000%
	OXYGEN FLOW	3.288

-C- -S-

BLANK	+.000000	+.000000
TIME	40.	30.
PEAK	14745.	0.
CALIB.	0.5157	0.8981
K FAC.	1.0194	1.0247

10:42 12/09/98

- TIME	000000066	WT0.0510 CAL#1
- 55311	3.224%	SULFUR .00000%
	OXYGEN FLOW	3.318

-C- -S-

W812	BLANK	+.000000	+.000000
	TIME	40.	30.
	PEAK	1959.	0.
	CALIB.	0.5157	0.8981
	K FAC.	1.0251	1.0300

10:45 12/09/98

- TIME	000000071	WT0.9990 CAL#1
- 55311	8.7575%	SULFUR .00002%
	OXYGEN FLOW	3.327

-C- -S-

Std.	BLANK	+.000000	+.000000
	TIME	40.	30.
	PEAK	9412.	0.
	CALIB.	0.5157	0.8981
	K FAC.	1.0272	1.0316

10:46 12/09/98

- TIME	000000072	WT1.0010 CAL#1
- 55311	0.7781%	SULFUR .00007%
	OXYGEN FLOW	3.354

-C- -S-

W	BLANK	+.000000	+.000000
	TIME	40.	30.
	PEAK	11407.	0.
	CALIB.	0.5157	0.8981
	K FAC.	1.0328	1.0364

10:48 12/09/98

- TIME	000000073	WT0.9980 CAL#1
- 55311	0.8172%	SULFUR .00004%
	OXYGEN FLOW	3.384

Std. -C- -S-

0.822	BLANK	+.000000	+.000000
	TIME	40.	30.
	PEAK	11482.	0.
	CALIB.	0.5157	0.8981
	K FAC.	1.0372	1.0417

10:49 12/09/98

- TIME	000000074	WT1.0040 CAL#1
- 55311	0.9178%	SULFUR .00002%
	OXYGEN FLOW	3.421

-C- -S-

4	BLANK	+.000000	+.000000
	TIME	44.	30.
	PEAK	10738.	0.
	CALIB.	0.5157	0.8981
	K FAC.	1.0438	1.0488

10:51 12/09/98

- TIME	000000075	WT0.9980 CAL#1
- 55311	0.9899%	SULFUR .00001%
	OXYGEN FLOW	3.422

-C- -S-

4	BLANK	+.000000	+.000000
	TIME	46.	30.
	PEAK	10876.	0.
	CALIB.	0.5157	0.8981
	K FAC.	1.0437	1.0485

O₂-Flow wieder abgesackt!

- Halogenfalle ausgewechselt
- Schläuche mit Druckluft "gespielt"
- Dichtung an Halogenfalle ausgewechselt
- O₂-Flow jetzt jetzt

→ div. Probemessungen:

Wieder O₂-Flow abgesackt
und Fehlermeldung
C-CAL RANGE

Durchflussregler ausgebaut
und gereinigt

→ erneute Probemess. + erneut
Fehlermeldung + Druckabfall

Corg. 1101-5 15.12.98

1101-5 080000031 Wt1.0000 CAL#1
CARBON 0.8207% SULFUR .00004%

OXYGEN FLOW 3.201
Std. -C- -S-

BLANK +.00000 +.00000

TIME 40. 30.

0.822% PEAK 10551. 0.

CALIB. 0.7478 0.8981

K FRC. 0.9981 1.0092

14:21 12/15/98

1101-5 090000032 Wt1.0020 CAL#1
CARBON 0.8274% SULFUR .00006%

OXYGEN FLOW 3.215
-C- -S-

BLANK +.00000 +.00000

TIME 40. 30.

PEAK 9491. 0.

CALIB. 0.7478 0.8981

K FRC. 1.0005 1.0117

14:25 12/15/98

1101-5 090000033 Wt0.1000 CAL#1
CARBON 0.2349% SULFUR .00028%

OXYGEN FLOW 3.214
-C- -S-

BLANK +.00000 +.00000

TIME 41. 30.

PEAK 148. 0.

CALIB. 0.7478 0.8981

K FRC. 1.0007 1.0115

14:26 12/15/98

1101-5 090000034 Wt0.1000 CAL#1
CARBON 0.3376% SULFUR .00045%

OXYGEN FLOW 3.225
-C- -S-

BLANK +.00000 +.00000

TIME 40. 30.

PEAK 340. 0.

CALIB. 0.7478 0.8981

K FRC. 1.0026 1.0135

14:27 12/15/98

1101-5 090000035 Wt0.1000 CAL#1
CARBON 0.3670% SULFUR .00008%

OXYGEN FLOW 3.223
-C- -S-

BLANK +.00000 +.00000

TIME 40. 30.

PEAK 315. 0.

CALIB. 0.7478 0.8981

K FRC. 1.0023 1.0132

14:29 12/15/98

1101-5 090000036 Wt0.1000 CAL#1
CARBON 0.7301% SULFUR .00024%

OXYGEN FLOW 3.226
-C- -S-

BLANK +.00000 +.00000

TIME 40. 30.

PEAK 597. 0.

CALIB. 0.7478 0.8981

K FRC. 1.0025 1.0137

1101-5 090000037 Wt0.1000 CAL#1
CARBON 0.4694% SULFUR .00032%

OXYGEN FLOW 3.230
-C- -S-

BLANK +.00000 +.00000

TIME 40. 30.

PEAK 416. 0.

CALIB. 0.7478 0.8981

K FRC. 1.0032 1.0144

14:30 12/15/98

1101-5 090000038 Wt0.1000 CAL#1
CARBON 0.3347% SULFUR .00045%

OXYGEN FLOW 3.233
-C- -S-

BLANK +.00000 +.00000

TIME 40. 30.

PEAK 308. 0.

CALIB. 0.7478 0.8981

K FRC. 1.0037 1.0149

14:32 12/15/98

1101-5 090000039 Wt0.1000 CAL#1
CARBON 0.1761% SULFUR .00044%

OXYGEN FLOW 3.227
-C- -S-

BLANK +.00000 +.00000

TIME 40. 30.

PEAK 165. 0.

CALIB. 0.7478 0.8981

K FRC. 1.0038 1.0139

14:33 12/15/98

1101-5 090000040 Wt0.1000 CAL#1
CARBON 0.1033% SULFUR .00039%

OXYGEN FLOW 3.224
-C- -S-

BLANK +.00000 +.00000

TIME 55. 30.

PEAK 128. 0.

CALIB. 0.7478 0.8981

K FRC. 1.0024 1.0134

14:35 12/15/98

1101-5 090000041 Wt0.1000 CAL#1
CARBON 0.1814% SULFUR .00025%

OXYGEN FLOW 3.228
-C- -S-

BLANK +.00000 +.00000

TIME 59. 30.

PEAK 104. 0.

CALIB. 0.7478 0.8981

K FRC. 1.0035 1.0148

14:36 12/15/98

1101-5 090000042 Wt0.1000 CAL#1
CARBON 0.1339% SULFUR .00038%

OXYGEN FLOW 3.222
-C- -S-

BLANK +.00000 +.00000

TIME 49. 30.

PEAK 108. 0.

CALIB. 0.7478 0.8981

K FRC. 1.0024 1.0130

14:38 12/15/98

1101-5 090000043 Wt0.1000 CAL#1
CARBON 0.1339% SULFUR .00038%

OXYGEN FLOW 3.222
-C- -S-

BLANK +.00000 +.00000

TIME 49. 30.

PEAK 108. 0.

CALIB. 0.7478 0.8981

K FRC. 1.0024 1.0130

14:40 12/15/98

15.12.98

101-S

C 048

17 CODE C000000043 WTB.0000 CAL#1
 TYPSON 0.8160% SULFUR .00006%
 OXYGEN FLOW 3.213
 Std. -C- -S-
 BLANK +.00000 +.00000
 TIME 40. 30.
 0.8227 PEAK 9716. 0.
 CALIB. 0.7478 0.8981
 K FRC. 1.0005 1.0114
 14:42 12/15/98

17 CODE C000000044 WTB.1000 CAL#1
 TYPSON 11.52% SULFUR .00077%
 OXYGEN FLOW 3.200
 -C- -S-
 BLANK +.00000 +.00000
 TIME 40. 30.
 PEAK 13750. 0.
 CALIB. 0.7478 0.8981
 K FRC. 0.9982 1.0090
 *** CLEANNING TIME ***
 14:43 12/15/98

17 CODE C000000045 WTB.0520 CAL#1
 TYPSON 3.803% SULFUR .00003%
 OXYGEN FLOW 3.194
 -C- -S-
 BLANK +.00000 +.00000
 TIME 40. 30.
 PEAK 2420. 0.
 CALIB. 0.7478 0.8981
 K FRC. 0.9972 1.0080
 14:44 12/15/98

17 CODE C000000046 WTB.1000 CAL#1
 TYPSON 0.1291% SULFUR .00044%
 OXYGEN FLOW 3.197
 -C- -S-
 1043 BLANK +.00000 +.00000
 TIME 40. 30.
 PEAK 104. 0.
 CALIB. 0.7478 0.8981
 K FRC. 0.9977 1.0085
 14:46 12/15/98

17 CODE C000000047 WTB.1000 CAL#1
 TYPSON 0.1690% SULFUR .00017%
 OXYGEN FLOW 3.179
 -C- -S-
 1048 BLANK +.00000 +.00000
 TIME 41. 30.
 PEAK 116. 0.
 CALIB. 0.7478 0.8981
 K FRC. 0.9949 1.0053
 14:47 12/15/98

17 CODE C000000048 WTB.1000 CAL#1
 TYPSON 0.2181% SULFUR .00026%
 OXYGEN FLOW 3.178
 -C- -S-
 1053 BLANK +.00000 +.00000
 TIME 40. 30.
 PEAK 180. 0.
 CALIB. 0.7478 0.8981
 K FRC. 0.9949 1.0051
 14:49 12/15/98

17 CODE C000000049 WTB.1000 CAL#1
 TYPSON 0.6145% SULFUR .00046%
 OXYGEN FLOW 3.190
 -C- -S-
 1058 BLANK +.00000 +.00000
 TIME 40. 30.
 PEAK 716. 0.
 CALIB. 0.7478 0.8981
 K FRC. 0.9974 1.0073
 14:50 12/15/98

17 CODE C000000050 WTB.1000 CAL#1
 TYPSON 0.7688% SULFUR .00052%
 OXYGEN FLOW 3.193
 -C- -S-
 1063 BLANK +.00000 +.00000
 TIME 40. 30.
 PEAK 732. 0.
 CALIB. 0.7478 0.8981
 K FRC. 0.9976 1.0078
 14:52 12/15/98

17 CODE C000000051 WTB.1000 CAL#1
 TYPSON 0.5312% SULFUR .00055%
 OXYGEN FLOW 3.188
 -C- -S-
 1068 BLANK +.00000 +.00000
 TIME 40. 30.
 PEAK 532. 0.
 CALIB. 0.7478 0.8981
 K FRC. 0.9968 1.0070
 14:53 12/15/98

17 CODE C000000052 WTB.1000 CAL#1
 TYPSON 0.4248% SULFUR .00011%
 OXYGEN FLOW 3.156
 -C- -S-
 1073 BLANK +.00000 +.00000
 TIME 40. 30.
 PEAK 376. 0.
 CALIB. 0.7478 0.8981
 K FRC. 0.9908 1.0012
 14:54 12/15/98

17 CODE C000000053 WTB.1000 CAL#1
 TYPSON 0.2768% SULFUR .00008%
 OXYGEN FLOW 3.166
 -C- -S-
 1078 BLANK +.00000 +.00000
 TIME 40. 30.
 PEAK 268. 0.
 CALIB. 0.7478 0.8981
 K FRC. 0.9922 1.0031
 14:56 12/15/98

17 CODE C000000054 WTB.1000 CAL#1
 TYPSON 0.2378% SULFUR .000055%
 OXYGEN FLOW 3.159
 -C- -S-
 1083 BLANK +.00000 +.00000
 TIME 40. 30.
 PEAK 204. 0.
 CALIB. 0.7478 0.8981
 K FRC. 0.9913 1.0018
 14:57 12/15/98

Ces.

1101-5

15.12.98

CD CODE C000000055 WT0.1000 CAL#1
 110804 0.1519% SULFUR .00032%
 OXYGEN FLOW 3.172
 -C- -S-

1088 BLANK +.000000 +.000000
 TIME 40. 30.
 PEAK 103. 0.
 CALIB. 0.7478 0.8981
 K FRC. 0.9939 1.0041
 14:58 12/15/98

CD CODE C000000056 WT1.0070 CAL#1
 110804 0.8236% SULFUR .00005%
 OXYGEN FLOW 3.159
 -C- -S-

Std. BLANK +.000000 +.000000
 TIME 40. 30.
 PEAK 10269. 0.
 CALIB. 0.7478 0.8981
 K FRC. 0.9919 1.0018
 15:00 12/15/98

CD CODE C000000057 WT0.1030 CAL#1
 110804 11.94% SULFUR .00047%
 OXYGEN FLOW 3.191
 -C- -S-

Caco₃ BLANK +.000000 +.000000
 TIME 40. 30.
 PEAK 13625. 0.
 CALIB. 0.7478 0.8981
 K FRC. 0.9979 1.0074
 *** OUT-SEQ BEGUN ***
 15:02 12/15/98

CD CODE C000000059 WT1.0040 CAL#1
 110804 0.8211% SULFUR .00008%
 OXYGEN FLOW 3.145
 -C- -S-

Std. 0.822% BLANK +.000000 +.000000
 TIME 40. 30.
 PEAK 8660. 0.
 CALIB. 0.7478 0.8981
 K FRC. 0.9898 0.9993
 15:03 12/15/98

CD CODE C000000058 WT0.0490 CAL#1
 110804 3.945% SULFUR .00086%
 OXYGEN FLOW 3.149
 -C- -S-

WST2 BLANK +.000000 +.000000
 TIME 40. 30.
 PEAK 1888. 0.
 CALIB. 0.7478 0.8981
 K FRC. 0.9902 1.0000
 15:05 12/15/98

CD CODE C000000060 WT0.1000 CAL#1
 110804 0.1575% SULFUR .00018%
 OXYGEN FLOW 3.155
 -C- -S-

1093 BLANK +.000000 +.000000
 TIME 40. 30.
 PEAK 131. 0.
 CALIB. 0.7478 0.8981
 K FRC. 0.9913 1.0011

CD CODE C000000061 WT0.1000 CAL#1
 110804 0.2121% SULFUR .00038%
 OXYGEN FLOW 3.161
 -C- -S-

1097 BLANK +.000000 +.000000
 TIME 40. 30.
 PEAK 225. 0.
 CALIB. 0.7478 0.8981
 K FRC. 0.9917 1.0021
 15:07 12/15/98

CD CODE C000000062 WT0.1000 CAL#1
 110804 0.3241% SULFUR .00077%
 OXYGEN FLOW 3.154
 -C- -S-

1103 BLANK +.000000 +.000000
 TIME 40. 30.
 PEAK 380. 0.
 CALIB. 0.7478 0.8981
 K FRC. 0.9905 1.0009
 15:08 12/15/98

CD CODE C000000063 WT0.1000 CAL#1
 110804 0.3317% SULFUR .00083%
 OXYGEN FLOW 3.147
 -C- -S-

1108 BLANK +.000000 +.000000
 TIME 40. 30.
 PEAK 280. 0.
 CALIB. 0.7478 0.8981
 K FRC. 0.9896 0.9997
 15:10 12/15/98

CD CODE C000000064 WT0.1000 CAL#1
 110804 0.6218% SULFUR .00003%
 OXYGEN FLOW 3.156
 -C- -S-

1113 BLANK +.000000 +.000000
 TIME 40. 30.
 PEAK 572. 0.
 CALIB. 0.7478 0.8981
 K FRC. 0.9917 1.0012
 *** CLEANING TIME ***
 15:11 12/15/98

CD CODE C000000065 WT0.1000 CAL#1
 110804 0.2139% SULFUR .00060%
 OXYGEN FLOW 3.166
 -C- -S-

1118 BLANK +.000000 +.000000
 TIME 40. 30.
 PEAK 199. 0.
 CALIB. 0.7478 0.8981
 K FRC. 0.9935 1.0031
 15:12 12/15/98

CD CODE C000000066 WT0.1000 CAL#1
 110804 0.1402% SULFUR .00034%
 OXYGEN FLOW 3.166
 -C- -S-

1123 BLANK +.000000 +.000000
 TIME 40. 30.
 PEAK 139. 0.
 CALIB. 0.7478 0.8981
 K FRC. 0.9935 1.0031
 15:14 12/15/98

15.12.98

Mol-5

C org.

-- CODE C000000067 WTB. 1000 CAL#1
 115204 0.1649% SULFUR .000272%
 OXYGEN FLOW 3.145
 -C- -S-
 BLANK +.00000 +.00000
 TIME 40. 30.
 PEAK 125. 0.
 CALIB. 0.7478 0.8981
 K FAC. 0.9898 0.9993

1152

-- CODE C000000068 WTB. 1000 CAL#1
 115204 0.1980% SULFUR .000572%
 OXYGEN FLOW 3.147
 -C- -S-
 BLANK +.00000 +.00000
 TIME 40. 30.
 PEAK 171. 0.
 CALIB. 0.7478 0.8981
 K FAC. 0.9902 0.9997

1153

-- CODE C000000069 WTB. 1000 CAL#1
 115204 0.1703% SULFUR .000072%
 OXYGEN FLOW 3.136
 -C- -S-
 BLANK +.00000 +.00000
 TIME 40. 30.
 PEAK 127. 0.
 CALIB. 0.7478 0.8981
 K FAC. 0.9882 0.9977

1158

-- CODE C000000070 WTB. 0050 CAL#1
 115204 0.8127% SULFUR .000002%
 OXYGEN FLOW 3.111
 -C- -S-
 Std. BLANK +.00000 +.00000
 0.822% TIME 40. 30.
 PEAK 9692. 0.
 CALIB. 0.7478 0.8981
 K FAC. 0.9832 0.9933
 *** OUT-SEQ BEGUN ***

-- CODE C000000073 WTB. 0070 CAL#1
 115204 0.8198% SULFUR .000052%
 OXYGEN FLOW 3.110
 -C- -S-

4

BLANK +.00000 +.00000
 TIME 40. 30.
 PEAK 8745. 0.
 CALIB. 0.7478 0.8981
 K FAC. 0.9836 0.9931

-- CODE C000000071 WTB. 1000 CAL#1
 115204 0.30% SULFUR .000702%
 OXYGEN FLOW 3.166
 -C- -S-

CaCO₃

BLANK +.00000 +.00000
 TIME 43. 30.
 PEAK 6412. 0.
 CALIB. 0.7478 0.8981
 K FAC. 0.9935 1.0031

15:15 12/15/98

-- CODE C000000072 WTB. 0500 CAL#1
 115204 0.705% SULFUR .00058%
 OXYGEN FLOW 3.104
 -C- -S-
 W852 BLANK +.00000 +.00000
 TIME 40. 30.
 PEAK 2127. 0.
 CALIB. 0.7478 0.8981
 K FAC. 0.9828 0.9921

15:26 12/15/98

-- CODE C000000074 WTB. 0040 CAL#1
 115204 0.3164% SULFUR .000042%
 OXYGEN FLOW 3.091
 -C- -S-
 Std. BLANK +.00000 +.00000
 0.822% TIME 40. 30.
 PEAK 18442. 0.
 CALIB. 0.7478 0.8981
 K FAC. 0.9806 0.9897

15:28 12/15/98

-- CODE C000000075 WTB. 1000 CAL#1
 115204 0.2303% SULFUR .00048%
 OXYGEN FLOW 3.104
 -C- -S-
 1143 BLANK +.00000 +.00000
 TIME 40. 30.
 PEAK 192. 0.
 CALIB. 0.7478 0.8981
 K FAC. 0.9826 0.9921

15:29 12/15/98

-- CODE C000000076 WTB. 1000 CAL#1
 115204 0.2367% SULFUR .00029%
 OXYGEN FLOW 3.108
 -C- -S-
 BLANK +.00000 +.00000
 TIME 40. 30.
 PEAK 296. 0.
 CALIB. 0.7478 0.8981
 K FAC. 0.9819 0.9913

15:30 12/15/98

-- CODE C000000077 WTB. 1000 CAL#1
 115204 0.1920% SULFUR .000092%
 OXYGEN FLOW 3.113
 -C- -S-

BLANK +.00000 +.00000
 TIME 40. 30.
 PEAK 164. 0.
 CALIB. 0.7478 0.8981
 K FAC. 0.9839 0.9937

15:32 12/15/98

-- CODE C000000078 WTB. 1000 CAL#1
 115204 0.1913% SULFUR .00042%
 OXYGEN FLOW 3.108
 -C- -S-

1158 BLANK +.00000 +.00000
 TIME 40. 30.
 PEAK 168. 0.
 CALIB. 0.7478 0.8981
 K FAC. 0.9816 0.9913

C ORG.

1101-5

15.12.98

15:33 12/15/98
 ID CODE C000000079 WTB. 1000 CAL#1
 CARBON 0.1570% SULFUR .000048%
 OXYGEN FLOW 3.098

-C- -S-

1163 BLANK + .000000 + .000000
 TIME 40. 30.
 PEAK 137. 0.
 CALIB. 0.7478 0.8981
 K FRC. 0.9815 0.9910

15:34 12/15/98

ID CODE C000000080 WTB. 1000 CAL#1
 CARBON 0.1553% SULFUR .000032%
 OXYGEN FLOW 3.097

-C- -S-

1168 BLANK + .000000 + .000000
 TIME 40. 30.
 PEAK 132. 0.
 CALIB. 0.7478 0.8981
 K FRC. 0.9813 0.9908

15:35 12/15/98

ID CODE C000000081 WTB. 1000 CAL#1
 CARBON 0.3478% SULFUR .00063%
 OXYGEN FLOW 3.093

-C- -S-

1173 BLANK + .000000 + .000000
 TIME 40. 30.
 PEAK 359. 0.
 CALIB. 0.7478 0.8981
 K FRC. 0.9810 0.9901

15:37 12/15/98

ID CODE C000000082 WTB. 1000 CAL#1
 CARBON 0.1810% SULFUR .000028%
 OXYGEN FLOW 3.097

-C- -S-

1178 BLANK + .000000 + .000000
 TIME 40. 30.
 PEAK 160. 0.
 CALIB. 0.7478 0.8981
 K FRC. 0.9819 0.9908

15:38 12/15/98

ID CODE C000000083 WTB. 1000 CAL#1
 CARBON 0.1866% SULFUR .000028%
 OXYGEN FLOW 3.098

-C- -S-

1183 BLANK + .000000 + .000000
 TIME 40. 30.
 PEAK 159. 0.
 CALIB. 0.7478 0.8981
 K FRC. 0.9821 0.9910

15:39 12/15/98

ID CODE C000000084 WTB. 1000 CAL#1
 CARBON 0.2199% SULFUR .000031%
 OXYGEN FLOW 3.097

-C- -S-

1188 BLANK + .000000 + .000000
 TIME 40. 30.
 PEAK 232. 0.
 CALIB. 0.7478 0.8981
 K FRC. 0.9816 0.9908

*** CLEANING TIME ***

15:41 12/15/98

ID CODE C000000085 WTB. 9980 CAL#1
 CARBON 0.8167% SULFUR .000041%
 OXYGEN FLOW 3.094

-C- -S-

Std. BLANK + .000000 + .000000
 TIME 40. 30.
 PEAK 11116. 0.
 CALIB. 0.7478 0.8981
 K FRC. 0.9808 0.9902

15:43 12/15/98

ID CODE C000000086 WTB. 1040 CAL#1
 CARBON 11.84% SULFUR .000093%
 OXYGEN FLOW 3.113

-C- -S-

CaCO₃ BLANK + .000000 + .000000
 TIME 40. 30.
 PEAK 13472. 0.
 CALIB. 0.7478 0.8981
 K FRC. 0.9842 0.9937

15:44 12/15/98

ID CODE C000000087 WTB. 0510 CAL#1
 CARBON 5.788% SULFUR .00116%
 OXYGEN FLOW 3.116

-C- -S-

W802 BLANK + .000000 + .000000
 TIME 40. 30.
 PEAK 2269. 0.
 CALIB. 0.7478 0.8981
 K FRC. 0.9847 0.9941