

Department of Energy  
Albuquerque Operations  
Los Alamos Area Office  
Los Alamos, New Mexico 87544

RECEIVED  
DEC 10 1986  
EID DIRECTOR'S OFFICE

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

DEC 5 1986

Ms. Denise Fort, Director  
N. M. Environmental Improvement Division  
P. O. Box 968  
Santa Fe, New Mexico 87504-0968

Dear Ms. Fort:

This submittal satisfies the first of two requirements in the letter from Mr. Ernest Rebeck to the Department of Energy, Los Alamos Area Office, dated September 18, 1986. This letter had two requirements: (1) submittal of raw data within 90 days from the completion date of the incinerator trial burn (October 8, 1986), and (2) submittal of a final trial burn report by March 8, 1987.

The enclosure represents raw data collected from the trial burn pursuant to HWMR-3 Section 302.E.2.b (7) in accordance with your letter. Only the raw data are included as was requested. Assessment of the raw data will be submitted in the March final report.

I trust this satisfies the first part of the request. We will submit the final report, as required, by March 8, 1987. If you have any questions regarding this matter, please call Mr. James Phoenix at 667-5288.

Sincerely,

*Harold E. Valencia*  
Harold E. Valencia  
Area Manager

1 Enclosure

cc:  
Allen J. Tiedman, ADS, Laboratory, MS A120

RECEIVED

DEC 1 1986

HAZARDOUS WASTE SECTION

RECEIVED

DEC 1 1986

GROUND WATER/HAZARDOUS WASTE  
BUREAU



8349

Red LANK TA 50/8486

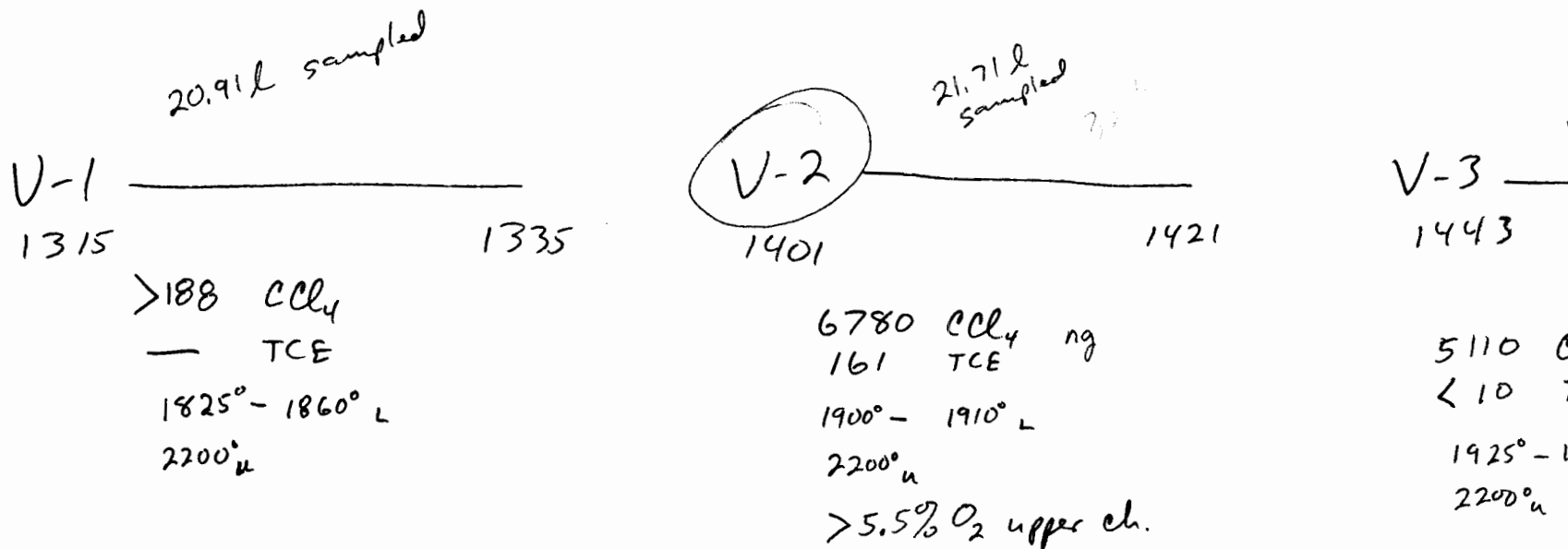
TL

**LOS ALAMOS CONTROLLED AIR INCINERATOR  
RCRA TRIAL BURN  
RAW DATA**

December 5, 1986

**Submitted to: NMEID**

LANL TRIAL BURR



M-1  
1310 1445

8.6% CO<sub>2</sub> 17.8/9.1% O<sub>2</sub> < 1.0 mg/l Cl

596 dscfm

5 ppm CO

300 hours  
Process <sup>sump</sup> outlet  
pH 2.0

1250 hours  
Upper Chamber  
O<sub>2</sub> 3.3%

~~DRE for CCl<sub>4</sub> using total for 20 min~~

$$\frac{(6.780E-6 \text{ g}) \left( \frac{1 \text{ lb}}{453.59 \text{ g}} \right)}{\left( 2.3 \frac{\text{lb}}{\text{min}} \right) (20 \text{ min}) (0.4484 \text{ ccl}_4)} = 7.2467$$

~~pass through fraction~~

~~DRE = 1 - pass thru fraction~~

$$1 - \frac{7.2467}{1.00} = 0.9999999927533$$

~~invalid~~

~~= 99.9999 +~~

2.3 lb/minute

1240 44.84% CCl<sub>4</sub> 19.99% TCE

38% 19%

2.3 = 28.316 L

1503

V-4 20.82 L  
1525 1545

V-5 21.48 L  
1824

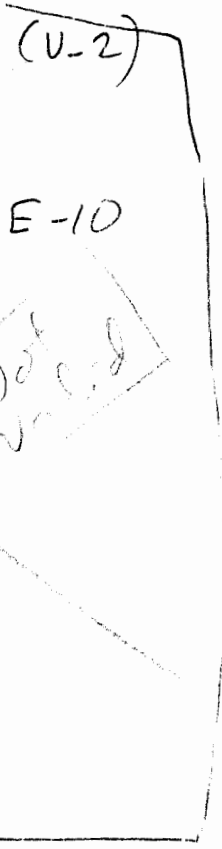
> 5760 CCl<sub>4</sub>  
— TCE  
1950° - 1960° L  
2200° u

> 5410 C  
— TCE  
1850° - 1875° L  
2200° u

M-2  
185

1530 hours  
1950° L 6.8% O<sub>2</sub>  
2200° u 6.2% O<sub>2</sub>

1541 hours  
7.1 gpm absorber flow  
1.5 gpm venturi liquid flow  
15.8 gpm quench liquid flow  
45 in.w.g. venturi pressure drop



Test Liquid feed

||  
1557

||  
1817



---

2245

% O<sub>2</sub>  
% O<sub>2</sub>

---

2256

END 0820 XASCT011 1 001 001 00024 DIALOG GEN ANNE- PHA 0000 0-12 5-07-25 PM 00 SEP 05 R14 PV1 0001 END A\*  
END 0820 XASCT011 1 001 001 00024 DIALOG GEN ANNE- HED 1000 0-12 5-08-25 PM 00 SEP 05 R16 011 1102 END A\*  
END 0820 XASCT011 1 001 001 00024 DIALOG GEN ANNE- HED 0000 0-12 5-05-25 PM 00 SEP 05 R14 001 1103 END A\*  
END 0820 XASCT011 1 001 001 00024 DIALOG GEN ANNE- HED 0000 0-12 5-03-25 PM 00 SEP 05 R16 011 1104 END A\*  
END 0820 XASCT011 1 001 001 00024 DIALOG GEN ANNE- HED 0000 0-12 5-02-25 PM 00 SEP 05 R14 001 1105 END A\*  
END 0820 XASCT011 1 001 001 00024 DIALOG GEN ANNE- HED 0000 0-12 5-03-25 PM 00 SEP 05 R14 001 1106 END A\*

## -- BATCH GENERATOR INPUT STATEMENT LISTING --

SIGNON USER=XASE DBNAME=DICTHF.

GENERATE FROM LOAD DIALOG (XASD0\*\*\* XASD9\*\*\*).

DIALOG: XASD0010	VERSION:	1 HAS BEEN REGENERATED
DIALOG: XASD0020	VERSION:	1 HAS BEEN REGENERATED
DIALOG: XASD0060	VERSION:	1 HAS BEEN REGENERATED
DIALOG: XASD0100	VERSION:	1 HAS BEEN REGENERATED
DIALOG: XASD0110	VERSION:	1 HAS BEEN REGENERATED
DIALOG: XASD0120	VERSION:	1 HAS BEEN REGENERATED
DIALOG: XASD0121	VERSION:	1 HAS BEEN REGENERATED
DIALOG: XASD0122	VERSION:	1 HAS BEEN REGENERATED
DIALOG: XASD0123	VERSION:	1 HAS BEEN REGENERATED
DIALOG: XASD0124	VERSION:	1 HAS BEEN REGENERATED
DIALOG: XASD0125	VERSION:	1 HAS BEEN REGENERATED
DIALOG: XASD0200	VERSION:	1 HAS BEEN REGENERATED
DIALOG: XASD0210	VERSION:	1 HAS BEEN REGENERATED
DIALOG: XASD0215	VERSION:	1 HAS BEEN REGENERATED
DIALOG: XASD0220	VERSION:	1 HAS BEEN REGENERATED
DIALOG: XASD0221	VERSION:	1 HAS BEEN REGENERATED
DIALOG: XASD0222	VERSION:	1 HAS BEEN REGENERATED
DIALOG: XASD0223	VERSION:	1 HAS BEEN REGENERATED
DIALOG: XASD0224	VERSION:	1 HAS BEEN REGENERATED
DIALOG: XASD0225	VERSION:	1 HAS BEEN REGENERATED
DIALOG: XASD0300	VERSION:	1 HAS BEEN REGENERATED
DIALOG: XASD0310	VERSION:	1 HAS BEEN REGENERATED

\*\*\*

ADSD0001 GWA/PAA GETSTG FAILED





```
1 //XASCT01T JOB 91175,'DIALOG GEN ANNE-RED', J05 5932
// CLASS=W,TIME=1
***LOGONID ADDR006 SACF1770 LOGONID SUCCESSFULLY SCANNED
***PASSWORD SACF1770 PASSWORD(S) SUCCESSFULLY SCANNED
***JOBPARM R=R-82
***ROUTE PRINT ADDPNJE.RMT24
***
*** VM- ADDGEN JCL
***
*** USE THIS UTILITY TO DO BATCH GENERATION
*** OF DIALOGS ON YOUR DICTIONARY :
***
2 //STEP001 EXEC PGM=ADSDGEN,
// REGION=500K
3 //STEPLIB DD DSN=TP4.IDMS.LOADLIB,DISP=SNP
***
4 //COMSLIB DD DSN=TP4.IDMS.LOADLIB,DISP=SNP
5 //SYSCTL DD DSN=TP4.IDMS.SYSCTL,DISP=SNP
6 //SYSUDUMP DD SYSOUT=A
7 //SYSLST DD SYSOUT=A
***
*** INSERT YOUR USER, PASSWORD AND DICTIONARY
*** YOU MAY ALSO GENERATE A RANGE OF DIALOGS BY USING:
*** "DIALOG ( ABCDA*** ABCDX*** )"
***
*** FURTHER INFORMATION MAY BE FOUND
*** IN THE ADS/C REFERENCE GUIDE.
***
8 //SYSIPT DD *
//
```

LANL

RUN 2

SEPT 5, 1986

V-1 <sup>20.67 L</sup>  
<sup>20°C</sup>  


---

 09:58 hrs 1018  
 63E-9g CCl<sub>4</sub>  
 < 10E-9g TCE  
 7% O<sub>2</sub> u  
 1880° L  
 2000° u

V-2 <sup>2</sup>  


---

 1044  
 7.3  
 19  
 200

M-1  


---

 0950  
 8% CO<sub>2</sub> 18.4/10.4% O<sub>2</sub> 5% CO  
 < 1 mg/l Cl<sup>-</sup>  
 827 SCFM  
 559 dSCFM

1015 hrs  
 1880° L 6.6% O<sub>2</sub>  
 2000° u 7.8% O<sub>2</sub>

0940 hrs  
 Venturi P  
 40 inches

1005 hrs  
 Process sampl  
 pH 2.6

Waste  
 Feed  
 0939

2.28 lb/min

39% CCl<sub>4</sub>

18% TCE

From Tab A

68 L  
24°C

1104

CCl<sub>4</sub>  
TCE

7 O<sub>2</sub> u

°L  
u

V-3 21.82 L  
38°C

1216

1236

-CCl<sub>4</sub>  
< 10E-9 TCE

7% O<sub>2</sub> u

1950°L  
2000°u

V-4

21.17 L  
37°C

1302

1322

1190E-9 CCl<sub>4</sub>  
x 164E-9 TCE

6% O<sub>2</sub>

1960°L  
2000°u

1120

M-2

1220

134

8% CO<sub>2</sub> 18.4/10.4% O<sub>2</sub> 6% CO

48 mg/L @L<sup>-1</sup>

818 SCFM

557 dSCFM

1320 hrs

1970°L 7.5% O<sub>2</sub>

2000°u 7.8% u

Process sump pH 6.0

1250 hrs  
Venturi P  
45 inches

from worksheets  
Tab N

3.5 lb alumagel  
488.2 lb fuel oil  
638.4 lb CCl<sub>4</sub>  
277.2 lb TCE

~~1403.8~~ lb batch

1407.3 lb

45.48% CCl<sub>4</sub> by weight

19.75% TCE by weight

V-5  
1448  
21.98 L  
40°C  
1508

4580 E-9g  $CCl_4$   
115 E-9g TCE  
6.1%  $O_2$ <sub>u</sub>  
2000° L  
2000° u

V-6  
1527  
19.92 L  
48°C  
1547

x 5660 E-9g  $CCl_4$   
110 E-9g TCE  
6.5%  $O_2$ <sub>u</sub>  
2010° L  
2000° u

M-3  
1440

8.0%  $CO_2$  18.4/10.4%  $O_2$  7% CO

325 mg/l Cl

808 SCFM  
550 dSCFM

1530 hrs

2010° L 8.2%  $O_2$

2000° u 8.2%  $O_2$

Process sump pH 2.2

1541 hrs  
Venturi P  
45 inches

---

1840

APPLICATION : ADSACU11      VERSION    1

DATE CREATED 12-04-85      BY XAS1      UPDATED

GLOBAL RECORD NAME:      AD80-APPLICATION-GLOBAL-RECORD      VERSION    1

MODE DEFAULT:    STEP      DATE FORMAT: MM/DD/YY      PRINTER CLASS:    1      PRINTER DESTINATION:

\*\* NO FUNCTIONS FOR THIS APPLICATION \*\*

RECORDS WRITTEN FOR REPORT CO --

0





## IDMS DATABASE EXTRACT STATISTICS

STRINGS RETURNED FOR PATH 30 -	35
STRINGS RETURNED FOR PATH 31 -	0
STRINGS RETURNED FOR PATH 32 -	85
STRINGS RETURNED FOR PATH 33 -	4
STRINGS RETURNED FOR PATH 34 -	18
STRINGS RETURNED FOR PATH 35 -	507
STRINGS RETURNED FOR PATH 36 -	14
STRINGS RETURNED FOR PATH 37 -	0

RECORD NAME	NUMBER READ
SYS-041	10
SYSCMT-038	35
SYSMOD-154	87
MODULE-067	87
MODCMT-084	85
MODNEST-031	507
MODULE-067	507
CLASS-092	0
ATTRIBUTE-093	0
CLASS-092	0
ATTRIBUTE-093	0
ATTRNEST-132	0
CLASS-092	0
CLASS-092	1
CLASS-092	0
ATTRIBUTE-093	0
ATTRIBUTE-093	36
ATTRIBUTE-093	0
ATTRNEST-132	0

\*\*\*\*\* END OF FILE \*\*\*\*\*

665 INPUT RECORDS READ

## SELECTION SPECIFICATION STATISTICS

BEGINNING REFERENCE NUMBER	TIMES TESTED	TIMES TRUE	TIMES FALSE	NUMERIC ERRORS	SUBSCRIPT ERRORS
1	10	10	0	0	0
2	10	10	0	0	0
3	10	10	0	0	0

INPUT PARAMETER LISTING

12/04/85  
EXTRACT WILL BE PERFORMED  
PROFILE OPTION IN EFFECT: RELEASE = 6

LANL Run 3 Sept 6, 1986

Lower of 1000  
Upper of 2200

V-1  $\frac{20.14\%}{25^\circ\text{C}}$   
 1036 1056  
 2170 cel<sub>v</sub>  
 231 TCE  
 1650° L  
 2200° U

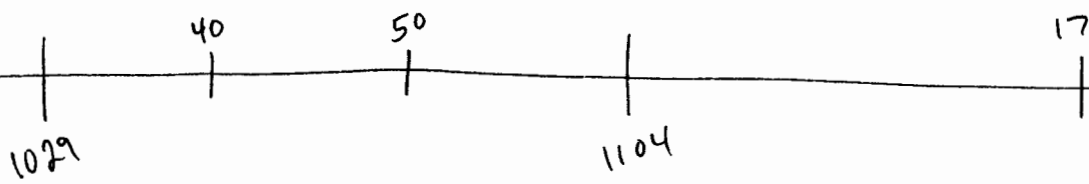
V-2  $\frac{20.87\%}{25^\circ\text{C}}$   
 1117  
 2230 C  
 235  
 1690° L  
 2200° U

M-1  
 1035  
 Lower chamber residence time 1.75 s  
 Upper chamber residence time 1.33 s  
 8% CO<sub>2</sub> 18.1/10.1% O<sub>2</sub> off ch  
 CO  
 937 scfm  
 605 dscfm

0900 hrs  
 1700° C L 14% O<sub>2</sub>  
 2200° C U 9% O<sub>2</sub>

0857 hrs  
 Process Sump Outlet  
 pH = 2.1

Waste  
 Feed 0815



20

1137

24  
E

C

1155

f

1230 HEPA #1 Change

1310 Caustic Pump Out 1430

30

50

1215

31

170

0 0 0 0

0 0 0 0 0 0 0 0 0 0

V-3  
1709  
20.71%  
33°C  
1729

V-4  
1756  
20.37%  
33°C  
1816

5660 CCl<sub>4</sub>  
1240 TCE

1600°<sub>L</sub>  
2190°<sub>U</sub>

4440 CCl<sub>4</sub>  
543 TCE

1650°<sub>L</sub>  
2200°<sub>U</sub>

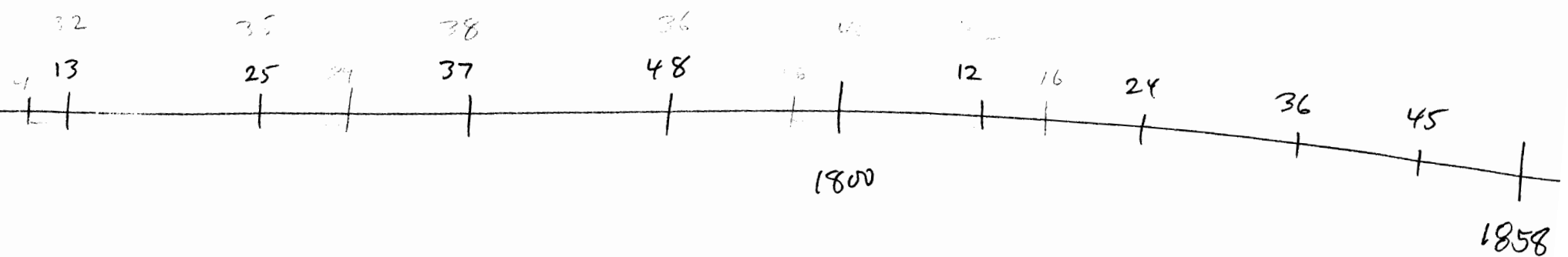
Lower chamber residence time 1.67 sec

Upper chamber residence time 1.27 sec

M-2  
1707  
7.6% CO<sub>2</sub>      17.6/10.6% O<sub>2</sub>      5ppmv CO  
with peaks  
@ 70 + 63 ppm  
1832  
1013 scfm  
613 dscfm

1740 hours

Comp #	CO <sub>2</sub>	TCE	lbs	Proan Sump Outlet pH 3.3	CO <sub>2</sub>	TCE
30	4.16	5.64	165	36	5.64	16
32	11.24	5.60		40	5.56	
35	11.26	5.54		42	5.58	



V-5  $\frac{21.99 \text{ L}}{25^\circ \text{C}}$   
1924 1944

258  $\text{CCl}_4$   
6 TCE

1650° L

2190° U

V-6  $\frac{21.04 \text{ L}}{25^\circ}$   
1957 2017

2993  $\text{CCl}_4$   
8 TCE

1640° L

2190° U

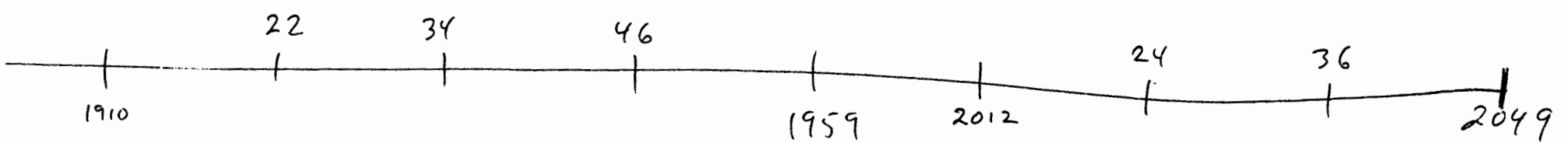
M-3  
1927

7.6%  $\text{CO}_2$

17.8/10.2%  $\text{O}_2$

7 ppmv  $\text{CO}^{2050}$

967 scfm  
702 dscfm



NONVSAM	-----	XJ1-UUMALNST-60013V00	013786	85.067	00.000
NONVSAM	-----	XJ1-UUMALNST-60014V00	014800	85.069	00.000
NONVSAM	-----	XJ1-UUMALNST-60015V00	11711	85.068	00.000
NONVSAM	-----	XJ1-UUMALNST-60016V00	015627	85.058	00.000
NONVSAM	-----	XJ1-UUMALNST-60017V00	010288	85.069	00.000

NONVSAM	-----	XJ1.UP.SRVERP.G0002V00	003035	85.322	00.000
NONVSAM	-----	XJ1.UP.SRVERP.G0004V00	006460	85.325	00.000
NONVSAM	-----	XJ1.UP.SRVERP.G0006V00	008553	85.351	00.000
GDG BASE	-----	XJ1.UP.SRVRHST	-----5	85.277	00.000
NONVSAM	-----	XJ1.UP.SRVRHST.G0001V00	013357	85.277	00.000
NONVSAM	-----	XJ1.UP.SRVRHST.G0002V00	000364	85.277	00.000
NONVSAM	-----	XJ1.UP.SRVRHST.G0003V00	013084	85.322	00.000
NONVSAM	-----	XJ1.UP.SRVRHST.G0004V00	006837	85.325	00.000
NONVSAM	-----	XJ1.UP.SRVRHST.G0005V00	008599	85.351	00.000
GDG BASE	-----	XJ1.UP.SRVLTD	-----3	85.281	00.000
NONVSAM	-----	XJ1.UP.SRVLTD.G0004V00	019363	85.323	00.000
NONVSAM	-----	XJ1.UP.SRVLTD.G0005V00	007970	85.325	00.000
NONVSAM	-----	XJ1.UP.SRVLTD.G0006V00	003642	85.357	00.000
GDG BASE	-----	XJ1.UPASCAN	-----3	85.300	00.000
NONVSAM	-----	XJ1.UPASCAN.G0006V00	010501	85.347	00.000
NONVSAM	-----	XJ1.UPASCAN.G0007V00	018384	85.347	00.000
NONVSAM	-----	XJ1.UPASCAN.G0008V00	014670	85.357	00.000
GDG BASE	-----	XJ1.UPAUXTP	-----18	85.346	00.000
NONVSAM	-----	XJ1.UPAUXTP.G0001V00	010116	85.347	00.000
GDG BASE	-----	XJ1.UPBSCAN	-----3	85.308	00.000
NONVSAM	-----	XJ1.UPBSCAN.G0004V00	010990	85.336	00.000
NONVSAM	-----	XJ1.UPBSCAN.G0005V00	011488	85.346	00.000
NONVSAM	-----	XJ1.UPBSCAN.G0006V00	003591	85.357	00.000
GDG BASE	-----	XJ1.UPCSCAN	-----3	85.308	00.000
NONVSAM	-----	XJ1.UPCSCAN.G0004V00	000201	85.336	00.000
NONVSAM	-----	XJ1.UPCSCAN.G0005V00	011494	85.346	00.000
NONVSAM	-----	XJ1.UPCSCAN.G0006V00	003535	85.357	00.000
GDG BASE	-----	XJ1.UPDSCAN	-----3	85.308	00.000
NONVSAM	-----	XJ1.UPDSCAN.G0003V00	001283	85.336	00.000
NONVSAM	-----	XJ1.UPDSCAN.G0004V00	014870	85.346	00.000
NONVSAM	-----	XJ1.UPDSCAN.G0005V00	003165	85.357	00.000
GDG BASE	-----	XJ1.UPESCAN	-----3	85.308	00.000
NONVSAM	-----	XJ1.UPESCAN.G0002V00	016490	85.319	00.000
NONVSAM	-----	XJ1.UPESCAN.G0003V00	001436	85.336	00.000
NONVSAM	-----	XJ1.UPESCAN.G0004V00	002755	85.357	00.000
NONVSAM	-----	XJ1.UPEXPRO	000047	85.357	00.000
GDG BASE	-----	XJ1.UPESCAN	-----3	85.308	00.000
NONVSAM	-----	XJ1.UPESCAN.G0002V00	016910	85.319	00.000
NONVSAM	-----	XJ1.UPESCAN.G0003V00	001324	85.336	00.000
NONVSAM	-----	XJ1.UPESCAN.G0004V00	002524	85.357	00.000
NONVSAM	-----	XJ1.UPLTD.NOV	013983	85.354	00.000
GDG BASE	-----	XJ1.UPMSCAN	-----3	85.308	00.000
NONVSAM	-----	XJ1.UPMSCAN.G0005V00	002308	85.336	00.000
NONVSAM	-----	XJ1.UPMSCAN.G0006V00	008296	85.346	00.000
NONVSAM	-----	XJ1.UPMSCAN.G0007V00	016645	85.357	00.000
GDG BASE	-----	XJ1.UPRSCAN	-----3	85.308	00.000
NONVSAM	-----	XJ1.UPRSCAN.G0007V00	002034	85.336	00.000
NONVSAM	-----	XJ1.UPRSCAN.G0008V00	005047	85.346	00.000
NONVSAM	-----	XJ1.UPRSCAN.G0009V00	015541	85.357	00.000
GDG BASE	-----	XJ1.UPSSCAN	-----3	85.308	00.000
NONVSAM	-----	XJ1.UPSSCAN.G0003V00	010773	85.347	00.000
NONVSAM	-----	XJ1.UPSSCAN.G0004V00	012206	85.347	00.000
NONVSAM	-----	XJ1.UPSSCAN.G0005V00	015549	85.357	00.000
GDG BASE	-----	XJ1.UUMALMST	-----6	85.069	00.000
NONVSAM	-----	XJ1.UUMALMST.G0002V00	011049	85.069	00.000



NONVSAM	-----	XJ1.EATRXMRG.G0171V00	003143	85.281	00.000
NONVSAM	-----	XJ1.EATRXMRG.G0172V00	004770	85.284	00.000
NONVSAM	-----	XJ1.EATRXMRG.G0173V00	005497	85.283	00.000
NONVSAM	-----	XJ1.EATRXMRG.G0174V00	014086	85.312	00.000
NONVSAM	-----	XJ1.EATRXMRG.G0175V00	010344	85.322	00.000
NONVSAM	-----	XJ1.EATRXMRG.G0176V00	005000	85.324	00.000
NONVSAM	-----	XJ1.EATRXMRG.G0177V00	004587	85.331	00.000
NONVSAM	-----	XJ1.EATRXMRG.G0178V00	011888	85.338	00.000
NONVSAM	-----	XJ1.EATRXMRG.G0179V00	012775	85.345	00.000
NONVSAM	-----	XJ1.EATRXMRG.G0180V00	005458	85.352	00.000
NONVSAM	-----	XJ1.EATRXMRG.G0181V00	006679	85.360	00.000
NONVSAM	-----	XJ1.EATRXMRG.G0182V00	013658	85.365	00.000
NONVSAM	-----	XJ1.EA02TRL	ADP042	85.365	00.000
NONVSAM	-----	XJ1.EA05TRL	ADP004	85.365	00.000
NONVSAM	-----	XJ1.EA14TRL	ADP032	85.365	00.000
NONVSAM	-----	XJ1.EA30TRL	ADP007	85.365	00.000
NONVSAM	-----	XJ1.EA32TRL	ADP047	85.365	00.000
NONVSAM	-----	XJ1.EA32DFC	000321	85.069	00.000
NONVSAM	-----	XJ1.EA32JUN	000175	85.069	00.000
NONVSAM	-----	XJ1.EA32MAR	000173	85.069	00.000
NONVSAM	-----	XJ1.EA32SEP	001815	85.069	00.000
NONVSAM	-----	XJ1.EA33DEC	011330	85.069	00.000
NONVSAM	-----	XJ1.EA33JUN	008387	85.069	00.000
NONVSAM	-----	XJ1.EA33MAR	008885	85.069	00.000
NONVSAM	-----	XJ1.EA33SEPT	002497	85.069	00.000
NONVSAM	-----	XJ1.EA34DFC	014123	85.069	00.000
NONVSAM	-----	XJ1.EA34JUN	013714	85.069	00.000
NONVSAM	-----	XJ1.EA34MAR	007352	85.069	00.000
NONVSAM	-----	XJ1.EA34SEP	008875	85.069	00.000
NONVSAM	-----	XJ1.KI.UPDATE	017467	85.069	00.000
NONVSAM	-----	XJ1.KIUPDATE	015467	85.176	00.000
NONVSAM	-----	XJ1.PCCOPY	001801	85.002	00.000
GDG BASE	-----	XJ1.PCMASTER	-----4	85.069	00.000
NONVSAM	-----	XJ1.PCMASTER.G0045V00	013667	85.269	00.000
NONVSAM	-----	XJ1.PCMASTER.G0046V00	005916	85.280	00.000
NONVSAM	-----	XJ1.PCMASTER.G0047V00	003117	85.323	00.000
NONVSAM	-----	XJ1.PCMASTER.G0048V00	001556	85.346	00.000
GDG BASE	-----	XJ1.PCREPRT	-----4	85.069	00.000
NONVSAM	-----	XJ1.PCREPRT.G0039V00	014023	85.273	00.000
NONVSAM	-----	XJ1.PCREPRT.G0040V00	007377	85.291	00.000
NONVSAM	-----	XJ1.PCREPRT.G0041V00	000664	85.324	00.000
NONVSAM	-----	XJ1.PCREPRT.G0042V00	012648	85.347	00.000
GDG BASE	-----	XJ1.PCTTRANS	-----4	85.069	00.000
NONVSAM	-----	XJ1.PCTTRANS.G0016V00	ADP042	85.346	00.000
NONVSAM	-----	XJ1.RECAUG	012910	85.069	00.000
NONVSAM	-----	XJ1.RECAUG2	012996	85.069	00.000
NONVSAM	-----	XJ1.UP.ANNE	000734	86.003	00.000
NONVSAM	-----	XJ1.UP.LTD207	ADP047	85.344	00.000
NONVSAM	-----	XJ1.UP.MIKES	000652	86.003	00.000
GDG BASE	-----	XJ1.UP.PROVLT0	-----3	85.281	00.000
NONVSAM	-----	XJ1.UP.PROVLT0.G0003V00	003501	85.324	00.000
NONVSAM	-----	XJ1.UP.PROVLT0.G0004V00	017387	85.345	00.000
NONVSAM	-----	XJ1.UP.PROVLT0.G0005V00	004397	85.346	00.000
GDG BASE	-----	XJ1.UP.SERVERR	-----6	85.277	00.000
NONVSAM	-----	XJ1.UP.SERVERR.G0001V00	005251	85.277	00.000

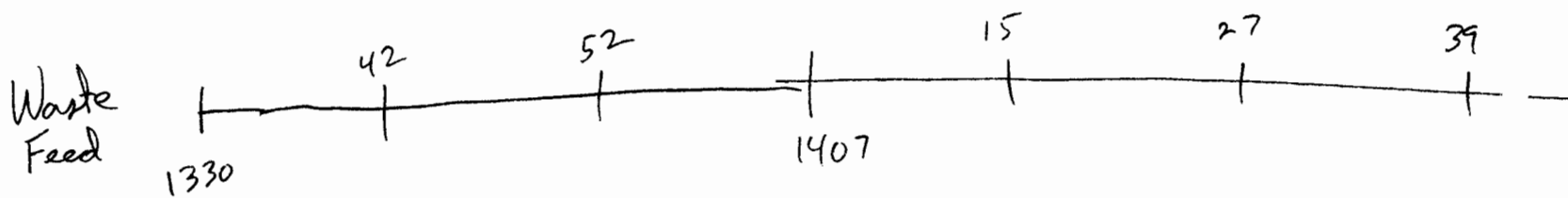
NONVSAM	-----	XJ1.BA.SHISTORY.00005V00	006080	85.069	00.000
NONVSAM	-----	XJ1.BA.SHISTORY.00006V00	000925	85.069	00.000
NONVSAM	-----	XJ1.BA.SHISTORY.00007V00	001114	85.069	00.000
NONVSAM	-----	XJ1.BA.SHISTORY.00008V00	002963	85.081	00.000
NONVSAM	-----	XJ1.BA.SHISTORY.00009V00	004157	85.115	00.000
NONVSAM	-----	XJ1.BA.SHISTORY.00010V00	010137	85.144	00.000
NONVSAM	-----	XJ1.BA.SHISTORY.00011V00	012843	85.175	00.000
NONVSAM	-----	XJ1.BA.SHISTORY.00012V00	011957	85.213	00.000
NONVSAM	-----	XJ1.BA.TMPBCMH	006467	85.212	00.000
NONVSAM	-----	XJ1.BAHOBBS	000023	85.069	00.000
NONVSAM	-----	XJ1.BH30REJ1	002783	85.069	00.000
NONVSAM	-----	XJ1.CDCQST	001168	85.069	00.000
NONVSAM	-----	XJ1.CDCQST	007800	85.069	00.000
NONVSAM	-----	XJ1.CENSUS1	005722	85.178	00.000
NONVSAM	-----	XJ1.CENSUS5	001600	85.177	00.000
GDG BASE	-----	XJ1.EAACCYTD	-----6	85.069	00.000
NONVSAM	-----	XJ1.EAACCYTD.00175V00	005577	85.331	00.000
NONVSAM	-----	XJ1.EAACCYTD.00176V00	014164	85.338	00.000
NONVSAM	-----	XJ1.EAACCYTD.00177V00	002858	85.345	00.000
NONVSAM	-----	XJ1.EAACCYTD.00178V00	005712	85.352	00.000
NONVSAM	-----	XJ1.EAACCYTD.00179V00	010176	85.360	00.000
NONVSAM	-----	XJ1.EAACCYTD.00180V00	007884	85.365	00.000
GDG BASE	-----	XJ1.EAHISYTD	-----6	85.069	00.000
NONVSAM	-----	XJ1.EAHISYTD.00178V00	004361	85.331	00.000
NONVSAM	-----	XJ1.EAHISYTD.00179V00	013086	85.338	00.000
NONVSAM	-----	XJ1.EAHISYTD.00180V00	002643	85.345	00.000
NONVSAM	-----	XJ1.EAHISYTD.00181V00	005750	85.352	00.000
NONVSAM	-----	XJ1.EAHISYTD.00182V00	000031	85.360	00.000
NONVSAM	-----	XJ1.EAHISYTD.00183V00	002175	85.365	00.000
GDG BASE	-----	XJ1.EAMASDDB	-----3	85.069	00.000
NONVSAM	-----	XJ1.EAMASDDB.00044V00	005070	85.331	00.000
NONVSAM	-----	XJ1.EAMASDDB.00045V00	000119	85.360	00.000
NONVSAM	-----	XJ1.EAMASDDB.00046V00	013173	85.365	00.000
GDG BASE	-----	XJ1.EAREJYTD	-----6	85.069	00.000
NONVSAM	-----	XJ1.EAREJYTD.00176V00	004505	85.331	00.000
NONVSAM	-----	XJ1.EAREJYTD.00177V00	013862	85.338	00.000
NONVSAM	-----	XJ1.EAREJYTD.00178V00	002906	85.345	00.000
NONVSAM	-----	XJ1.EAREJYTD.00179V00	005716	85.352	00.000
NONVSAM	-----	XJ1.EAREJYTD.00180V00	009226	85.360	00.000
NONVSAM	-----	XJ1.EAREJYTD.00181V00	011173	85.365	00.000
GDG BASE	-----	XJ1.EAREQHIS	-----3	85.069	00.000
NONVSAM	-----	XJ1.EAREQHIS.00177V00	005752	85.352	00.000
NONVSAM	-----	XJ1.EAREQHIS.00178V00	000349	85.360	00.000
NONVSAM	-----	XJ1.EAREQHIS.00179V00	013517	85.365	00.000
GDG BASE	-----	XJ1.EASRTREP	-----3	85.069	00.000
NONVSAM	-----	XJ1.EASRTREP.00177V00	005755	85.352	00.000
NONVSAM	-----	XJ1.EASRTREP.00178V00	000285	85.360	00.000
NONVSAM	-----	XJ1.EASRTREP.00179V00	013231	85.365	00.000
GDG BASE	-----	XJ1.EATRXMRG	-----18	85.069	00.000
NONVSAM	-----	XJ1.EATRXMRG.00165V00	006062	85.232	00.000
NONVSAM	-----	XJ1.EATRXMRG.00166V00	006904	85.238	00.000
NONVSAM	-----	XJ1.EATRXMRG.00167V00	019725	85.248	00.000
NONVSAM	-----	XJ1.EATRXMRG.00168V00	007013	85.262	00.000
NONVSAM	-----	XJ1.EATRXMRG.00169V00	007951	85.268	00.000
NONVSAM	-----	XJ1.EATRXMRG.00170V00	004389	85.275	00.000

LANL Run 4  
 Sept 7, 1986

V-1  $20.96\% \text{ } ^\circ\text{C}$   
 $25^\circ\text{C}$   
 1349 4%  $\text{O}_2$  1409  
 5600  $\text{CCl}_4$   $2.17 \times 10^{-7} \text{ g/L}$   
 52 TCE  
 1325° L  
 2000° U

V-2  $20.76\%$   
 1430 6%  $\text{O}_2$   
 590 C  
 10 T  
 1320° L  
 2000° U

M-1  
 1350  
 5.9%  $\text{CO}_2$  18.2%  $\text{O}_2$  12.3 5ppmv  
 906 scfm  
 676 dscfm



39°C  
1450

V-3  $\frac{20.15\%}{34^\circ\text{C}}$   
1558  $\frac{5.4\% \text{ O}_2}{1618}$

2600 CCl<sub>4</sub>  
36 TCE

1410° L  
2000° L

V-4  $\frac{17.71\%}{33^\circ\text{C}}$   
1638  $\frac{0.95\% \text{ O}_2}{1638}$

5200 CCl<sub>4</sub>  
210 TCE

1500° L  
2000° L

1512

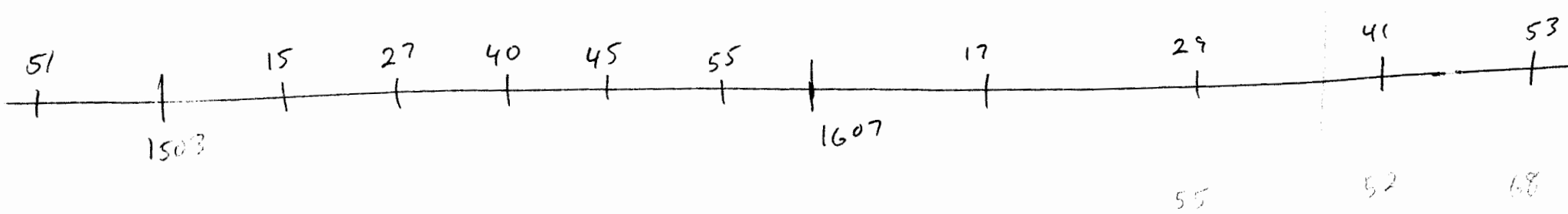
M-2  
1557

7.0% CO<sub>2</sub>

18.1/11.1% O<sub>2</sub>

951 scfm  
708 dscfm

Box #	CCl <sub>4</sub>	TCE
35	11.06	5.38
52	11.26	5.54
68	11.10	5.62
	<u>33.42</u>	<u>16.74</u>



1658

V-5  $\frac{21.44 \text{ l}}{24^\circ\text{C}}$   
1809 2.5% O<sub>2</sub> 1829

V-6  $\frac{20.36}{3.5}$   
1846

6200 CCl<sub>4</sub> 2.80016 17.4  
162 TCE  
1560°<sub>L</sub>  
2000°<sub>U</sub>

4900  
116  
1550°  
2000°

Upper chamber residence time 1.41 sec  
Lower chamber residence time 1.80 sec

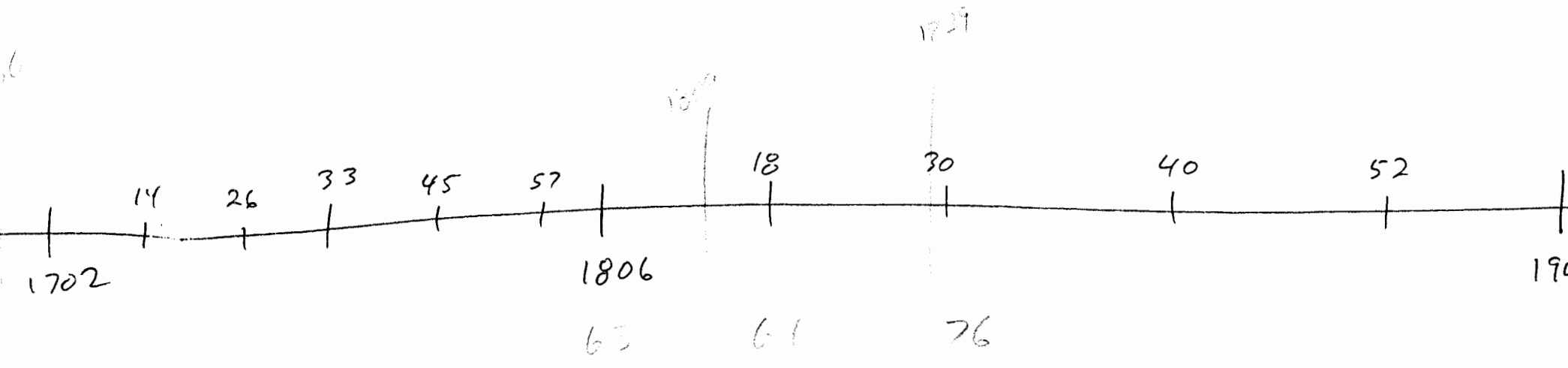
1718

5 ppm CO

(...  
...)

Gross wt  
36.60  
37.42  
36.78

Box	TCE lbs
63	5.56
61	5.58



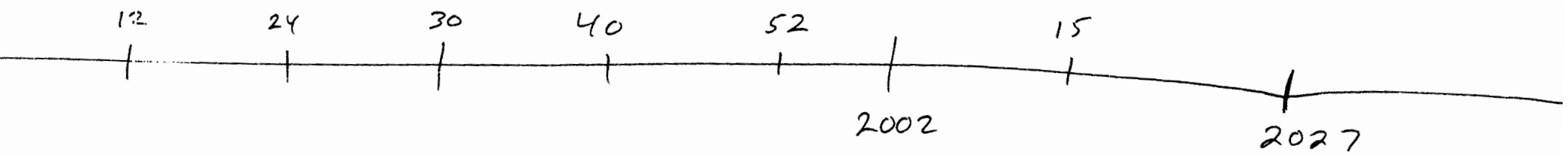
$\frac{p}{25^{\circ}\text{C}}$   
 $\text{O}_2$  1906

$\text{CCl}_4$   
TCE

M-3

1910 8.0%  $\text{CO}_2$  18.2%  $\text{O}_2$  10.2 ppmv CO 2030

962<sup>\*</sup> scfm  
711 dscfm



IEF295I	TP4.IDMS.DMS009	KEPT	*-----0
IEF295I	VOL SER NOS= ADP062.	KEPT	*---4,790
IEF295I	XM1.IDMS.MEDICT	KEPT	*-----0
IEF295I	VOL SER NOS= ADP051.		
IEF295I	ADPUCAT		
IEF295I	VOL SER NOS= ADP041.		
IEF295I	JFS2.JOR06504.SIO101	SYSIN	
IEF373I	STEP /CULPRIT / START	85338.1621	
IEF374I	STEP /CULPRIT / STOP	85338.1625 CPU	QMIN 13.74SEC SRB QMIN 02.17SEC VIRT 1772K SYS 284K
IEF375I	JOB /XASC104T/ START	85338.1621	
IEF376I	JOB /XASC104T/ STOP	85338.1625 CPU	QMIN 13.74SEC SRB QMIN 02.17SEC

PARMLIST :  
SORT FIELDS=(1,40,A),FORMAT=SI  
RECORD TYPE=F,LENGTH=(320,,320)  
WER103I SORTIN : RECFM=F ; LRECL= 320; RLKSIZE= 320  
WER105I INSERT 1282, DELETE 1282  
WER124I TRK OVER-ALLOC FACTOR= PRIM/USED=7.0  
WER145C END SORT PH  
WER244I FILESIZE 410,240 BYTES  
WER054I RCD IN 0, OUT 0  
WER169I TPF LEVEL 3  
WER052I END SYNCSORT OPT= H XASC104T,CULPRIT ,STEP001



PARMLIST :  
SORT FIELDS=(5,192,CH,A),FILSZ=1159  
RECORD TYPE=V,LENGTH=(2044,,,216,320)  
WER10BT SORTIN : RECFM=V ; LRECL= 2044; BLKSIZE= 2048  
WER050I INSERT 1159, DELETE 1159  
WER124T TRK OVER-ALLOC FACTOR= PRIM/USED=032  
WER045C END SORT PH  
WER244I FILESIZE 371,880 BYTES  
WER094I RCD IN 0, OUT 0  
WER169I TPF LEVEL 3  
WER052I END SYNCSORT OPT= M, XASC104T,CULPRIT ,STEP001

02 \*\* SYSTEM \*\*

INSTALLATION SECURITY OPTION IS YES  
CULPRIT/DIRECTORY INTERFACE - LDWS 10.0 CULPRIT 10.0  
DICTIONARY SECURITY OPTION IS OFF  
AUTO-ATTRIBUTES IS OFF

DATABASE DBNAME=DLCTHE  
PROFILE RELEASE=6 EX=W PARMLIB=STANDARD

+ PARAM=NOLIST

REPORT REQUEST PARAMETER -

REPORT=