POOR LEGIBILITY

ONE OR MORE PAGES IN THIS DOCUMENT ARE DIFFICULT TO READ
DUE TO THE QUALITY OF THE ORIGINAL

DRAFT

SFUND RECORDS CTR
88072481

AR0006

February 2, 1988
File: G-697

SFUND RECORDS CTR
1110-00007

Michael P. Ashby, Esq.
Thomson & Nelson
1511 East Whittier Boulevard, Suite 400
Whittier, California 90603

Dear Mike;

Re: Report on Soil Vapor Survey of Fred R. Rippy Trust Real Property Located at 12504 East Whittier Boulevard, Whittier, California.

In accordance with your request, ERT has completed a soil vapor survey at the above referenced site. The following paragraphs outline the field work conducted, our findings, initial conclusions, and recommendations for further investigations.

INTRODUCTION

The subject site is presently a solvent recovery plant that processes chemical waste material, including wastes classified as hazardous. Storage of waste solvents and recovered solvents is done in either 55 gallons drums (stacked throughout the site) or in above ground tanks in the western corner of the site.

SUMMARY OF FIELD ACTIVITIES

On January 21, 1988, ERT personnel were on-site to conduct a soil vapor survey. A total of eighteen (18) sample points were analyzed for soil vapor content on a portable gas chromatograph (GC). The locations of these sample points are shown on the Site Plan, Figure 1 . Details of the soil vapor survey are presented in Attachment I. An additional four sample points were not analyzed due to interruptions in the sampling program caused by nearby plant operations.

DRAFT

FINDINGS

Significant levels of hydrocarbon vapors were detected in most of the samples analyzed. The following table (Table 1) summarizes these results. Copies of the actual chromatograms are enclosed in Attachment II.

TABLE 1
Summary of Soil Vapor Survey Results
January 21, 1988
Chromatographic Readings (Vs)

Location	Total Readings	Equipment Air Blank	Net Reading	Relative * Level
S1	4.19	0.00	4.19	Minor
S2	5.48	0.17	5.31	Minor
S3	5.01	0.11	4.90	Minor
S4	66.58	1.19	65.39	Moderate
S5	83.19	1.80	81.39	Moderate
S6	98.87	0.62	196.49	Substantial
S7	359.05	3.34	711.42	Substantial
S8	27.60	4.13	46.93	Moderate
S9	12.75	3.59	18.32	Moderate
S10	469.60	5.32	928.56	Substantial
S11	80.70	12.52	136.36	Substantial
S12	106.90	10.45	192.90	Substantial
S13	16.50	5.41	22.18	Moderate
S14	148.75	10.51	276.48	Substantial
S15	1600.00	21.96	3156.08	Very Substantial
S16	707.32	10.66	3483.29	Very Substantial
S17	Unable to Sample			
S18	Unable to Sample			
S19	Unable to Sample			
S20	Unable to Sample			
S21	35.79	24.46	56.65	Moderate
S22	13.29	12.91	1.90	Minor

* Based on interpretations of chromatograms. The following levels are a general guideline:

0.0 < 1.0	Background or Trace Levels
1.0 - 10.0	Minor Levels
10.0 - 100.0	Moderate Levels
100.0 - 1000.0	Substantial Levels
>1000.0	Very Substantial Levels

DRAFT

CONCLUSIONS

Based on the findings presented above, it appears that significant levels of hydrocarbon vapors exist in the soils beneath this site. This condition appears to exist under most of the site, with the exception of the northeastern side, along Whittier Boulevard. Because of the prevalence of significant levels of hydrocarbon vapors, the data is inconclusive as to the source of the hydrocarbons. However, it does appear to be from on-site operations, as opposed to off site.

RECOMMENDATIONS

ERT recommends additional field investigations be conducted on this site to better define subsurface conditions. These investigations should include collection of soil samples for analysis to quantitatively identify hydrocarbons present and define their vertical and lateral extents. If it is determined that significant levels of hydrocarbons extend to ground water, monitoring wells should be installed and ground water samples collected and analyzed.

ERT appreciates the opportunity to provide technical services to Thomson & Nelson. Please call us if you have any questions regarding this project.

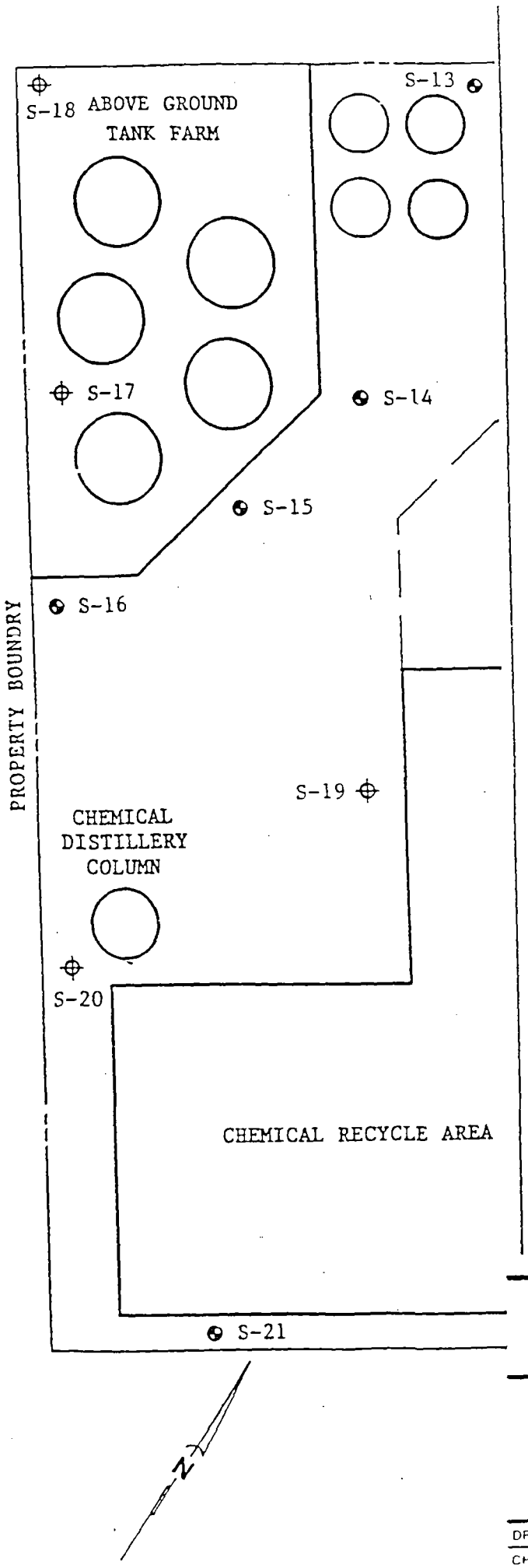
Sincerely,

ERT, Inc.

Charles Keller
Project Hydrogeologist

cc: Mr. Paul Hendricks, Fred R. Rippy Trust
Mr. Wayne Harvey, Fred R. Rippy Trust

Attachments



EXPLANATION

LOCATION OF SAMPLING POINT

LOCATION OF SAMPLING POINT NOT ANALYZED

SCALE (APPROX.)

0 5 10 FEET

ERT

A RESOURCE ENGINEERING COMPANY

SITE PLAN

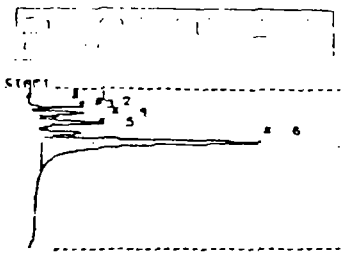
SOIL VAPOR SAMPLING POINTS

FIGURE 1

DRAWN BY:	DATE:	PROJECT NO.:
CHK'D BY:	REVISED:	DWG.NO.:

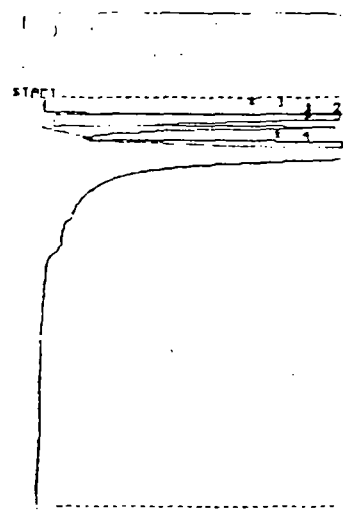
ATTACHMENT I

ATTACHMENT II



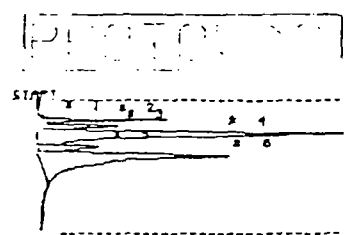
STOP # 191.1
SAMPLE RUN JAN 21 1988 18: 3
ANALYSIS # 43 ONEGA
TEMPERATURE 26 S13
GAIN 10 PROBEP

COMPOUND NAME	PEAK	R.T.	AREA/FFI
UNKNOWN	1	15.4	189.4 pVS
UNKNOWN	2	20.0	325.3 pVS
UNKNOWN	3	23.2	82.5 pVS
UNKNOWN	4	32.4	385.2 pVS
UNKNOWN	5	35.5	362.3 pVS
UNKNOWN	6	41.3	1.8 VS



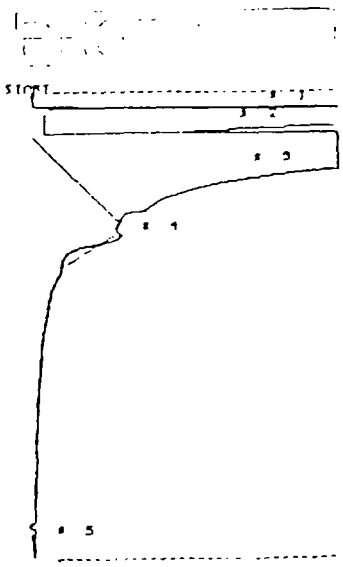
STOP # 385.0
SAMPLE RUN JAN 21 1988 16:15
ANALYSIS # 50 ONEGA
TEMPERATURE 24 S13
GAIN 10 SAMPLE

COMPOUND NAME	PEAK	R.T.	AREA/FFI
UNKNOWN	1	12.3	1.3 VS
UNKNOWN	2	16.7	6.8 VS
UNKNOWN	3	22.6	2.0 VS
UNKNOWN	4	35.6	5.6 VS



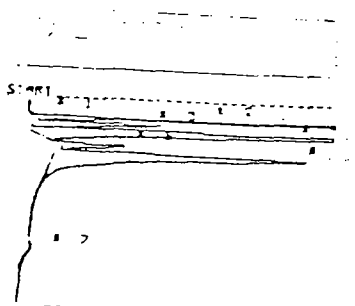
STOP # 37.2
SAMPLE RUN JAN 21 1988 16:02
ANALYSIS # 52 ONEGA
TEMPERATURE 26 S14
GAIN 10 PROBE

COMPOUND NAME	PEAK	R.T.	AREA/FFI
UNKNOWN	1	13.1	13.7 pVS
UNKNOWN	2	14.	[illegible]
			33.3 pVS
UNKNOWN	3	20.0	631.6 pVS
UNKNOWN	4	25.0	1.0 VS
UNKNOWN	5	35.0	221.6 pVS
UNKNOWN	6	42.4	1.7 VS



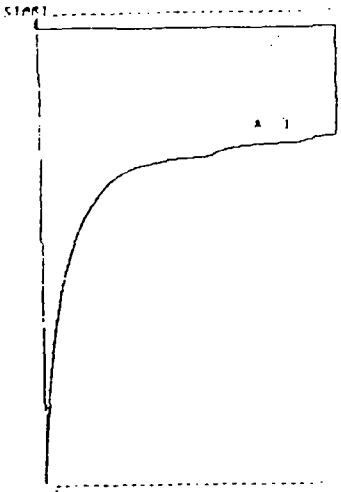
STOP # 257.0
SAMPLE RUN JAN 21 1988 16:21
ANALYSIS # 53 ONEGA
TEMPERATURE 24 S14
GAIN 10 SAMPLE

COMPOUND NAME	PEAK	R.T.	AREA/FFI
UNKNOWN	1	17.0	1.2 VS
UNKNOWN	2	20.5	17.4 VS
UNKNOWN	3	42.6	120.0 VS
UNKNOWN	5	348.5	51.2 pVS



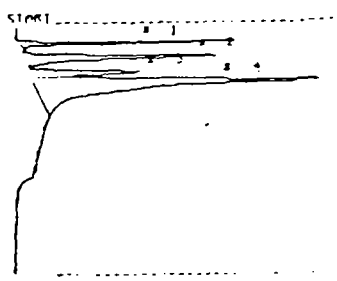
STOP # 134.3
SAMPLE RUN JAN 21 1988 16:31
ANALYSIS # 55 ONEGA
TEMPERATURE 26 S13
GAIN 10 PROBE

COMPOUND NAME	PEAK	R.T.	AREA/FFI
UNKNOWN	1	13.2	8.1 pVS
UNKNOWN	2	15.2	1.0 VS
UNKNOWN	3	20.1	1.2 VS
UNKNOWN	4	25.4	5.3 VS
UNKNOWN	5	36.4	632.2 pVS
UNKNOWN	6	43.1	1.2 VS
UNKNOWN	7	115.2	71.5 pVS



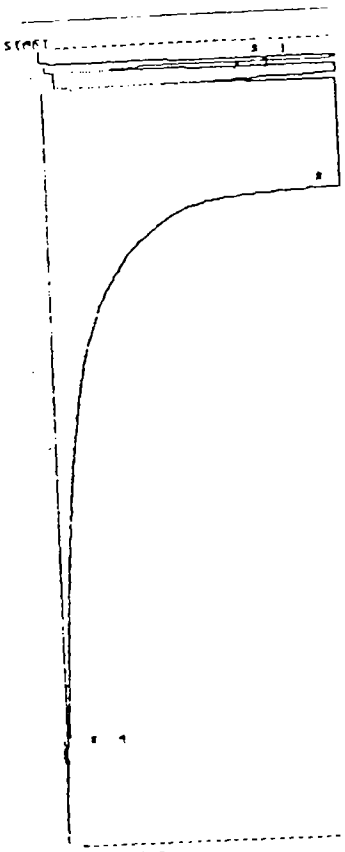
STOP # 352.5
SAMPLE RUN JAN 21 1988 16:4
ANALYSIS # 56 ONEGA
TEMPERATURE 24 S15
GAIN 10 SAMPLE

COMPOUND NAME	PEAK	R.T.	AREA/FFI
UNKNOWN	1	53.0	1.6 [illegible]



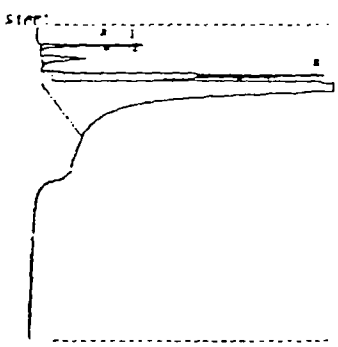
STOP # 165.0
SAMPLE RUN JAN 21 1988 17:
ANALYSIS # 62 ONEGA
TEMPERATURE 24 S16
GAIN 10 PROBE

COMPOUND NAME	PEAK	R.T.	AREA/FFI
UNKNOWN	1	15.4	368.7 pVS
UNKNOWN	2	25.6	1.7 VS
UNKNOWN	3	32.0	1.1 VS
UNKNOWN	4	43.7	8.7 VS



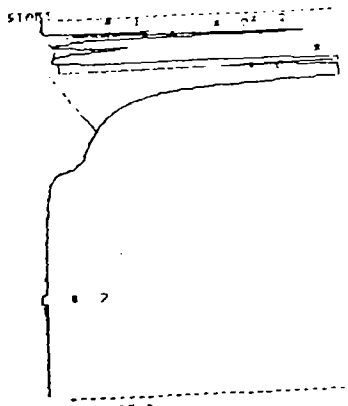
STOP # 602.0
SAMPLE RUN JAN 21 1988 12:11
ANALYSIS # 63 OMEGA
TEMPERATURE 22 516
GAIN 10 SAMPLE

COMPOUND NAME	PEAK	R.T.	AREA/FT	
UNKNOWN	1	36.2	6.1	US
UNKNOWN	2	76.0	15.4	US
UNKNOWN	3	76.2	605.5	US
UNKNOWN	4	531.7	318.3	mVS



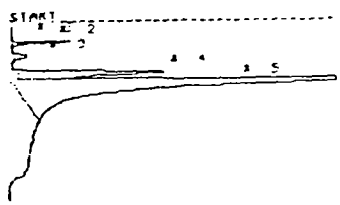
STOP # 234.6
SAMPLE RUN JAN 21 1988 12:2
ANALYSIS # 62 OMEGA
TEMPERATURE 22 521
GAIN 10 PROBE

COMPOUND NAME	PEAK	R.T.	AREA/FT	
UNKNOWN	1	15.0	442.4	mVS
UNKNOWN	2	76.5	320.2	mVS
UNKNOWN	3	30.0	3.2	US
UNKNOWN	4	42.3	70.2	US



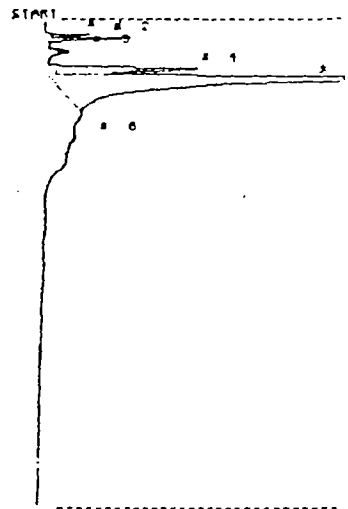
STOP # 286.2
SAMPLE RUN JAN 21 1988 12:31
ANALYSIS # 88 OMEGA
TEMPERATURE 22 521
GAIN 10 SAMPLE

COMPOUND NAME	PEAK	R.T.	AREA/FT	
UNKNOWN	1	13.3	353.5	mVS
UNKNOWN	2	15.2	1.0	US
UNKNOWN	3	17.4	1.3	US
UNKNOWN	4	25.3	256.5	mVS
UNKNOWN	5	33.0	2.0	US
UNKNOWN	6	40.6	25.2	US
UNKNOWN	7	227.2	43.4	mVS



STOP # 199.3
SAMPLE RUN JAN 21 1988 12:3
ANALYSIS # 20 OMEGA
TEMPERATURE 21 522
GAIN 10 PROBE

COMPOUND NAME	PEAK	R.T.	AREA/FT	
UNKNOWN	2	15.0	252.4	mVS
UNKNOWN	3	76.3	151.0	mVS
UNKNOWN	4	30.2	1.2	US
UNKNOWN	5	45.2	10.0	US



STOP # 361.7
SAMPLE RUN JAN 21 1988 12:49
ANALYSIS # 21 OMEGA
TEMPERATURE 22 522
GAIN 10 SAMPLE

COMPOUND NAME	PEAK	R.T.	AREA/FT	
UNKNOWN	1	13.0	171.5	mVS
UNKNOWN	2	15.6	453.6	mVS
UNKNOWN	3	24.3	25.5	mVS
UNKNOWN	4	30.0	1.2	US
UNKNOWN	5	40.2	10.5	US

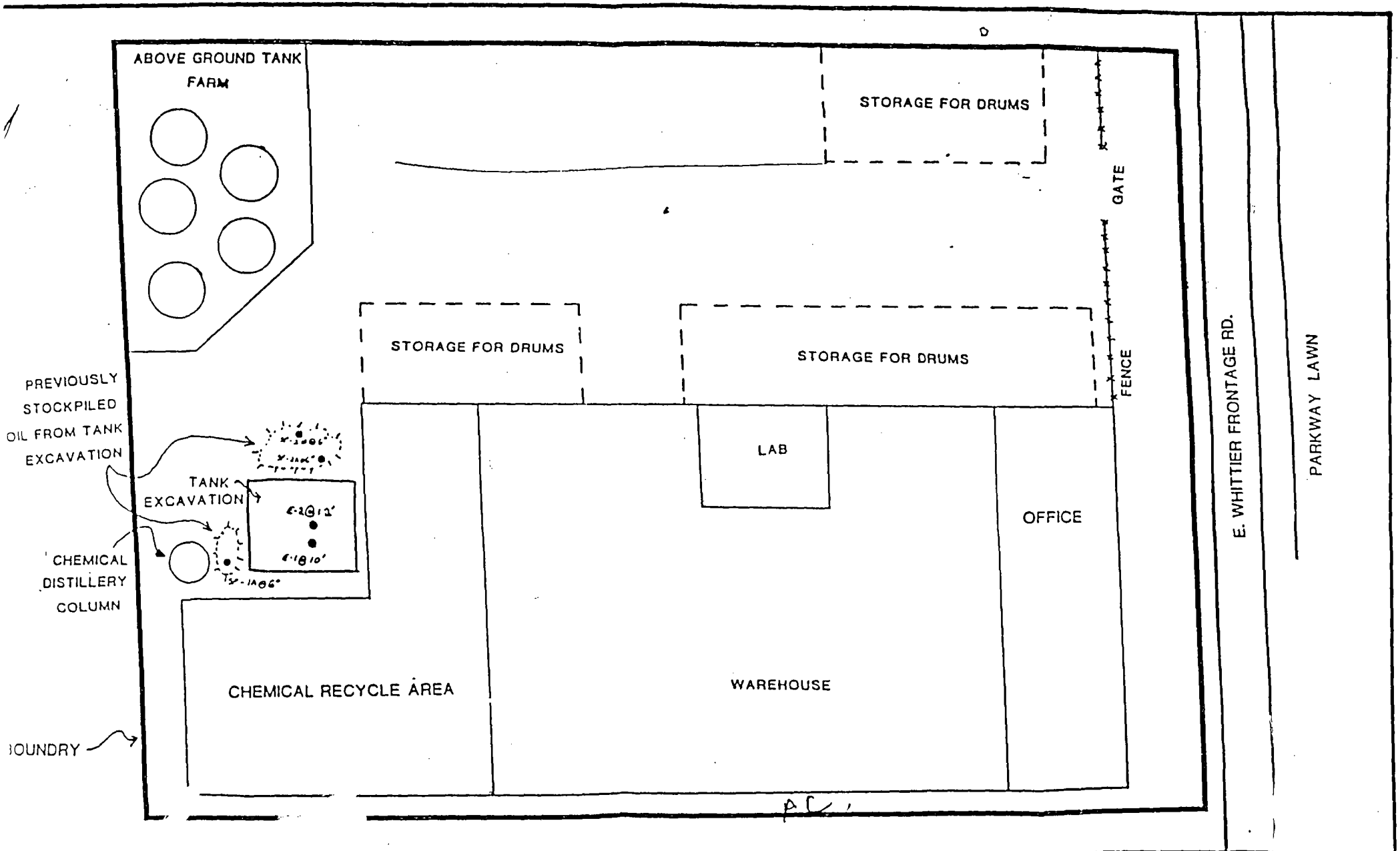
OMEGA CHEMICAL CORPORATION
SOIL GAS SURVEY RESULTS

Chromatographic Readings (Vs)

Location	Total Readings	Equipment Air Blank	Net Reading	Relative * Level
S1	4.19	0.00	4.19	Minor
S2	5.48	0.17	5.31	Minor
S3	5.01	0.11	4.90	Minor
S4	66.58	1.19	65.39	Moderate
S5	83.19	1.80	81.39	Moderate
S6	98.87	0.62	196.49	Substantial
S7	359.05	3.34	711.42	Substantial
S8	27.60	4.13	46.93	Moderate
S9	12.75	3.59	18.32	Moderate
S10	469.60	5.32	928.56	Substantial
S11	80.70	12.52	136.36	Substantial
S12	106.90	10.45	192.90	Substantial
S13	16.50	5.41	22.18	Moderate
S14	148.75	10.51	276.48	Substantial
S15	1600.00	21.96	3156.08	Very Substantial
S16	707.32	10.66	3483.29	Very Substantial
S17	Unable to Sample			
S18	Unable to Sample			
S19	Unable to Sample			
S20	Unable to Sample			
S21	35.79	24.46	56.65	Moderate
S22	13.29	12.91	1.90	Minor

* Based on interpretations of chromatograms. The following levels are a general guideline:

0.0 < 1.0 Background or Trace Levels
1.0 - 10.0 Minor Levels
10.0 - 100.0 Moderate Levels
100.0 - 1000.0 Substantial Levels
>1000.0 Very Substantial Levels

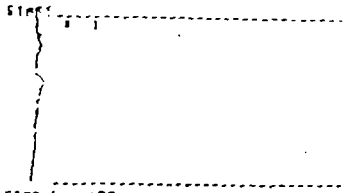


RIPPY TRUST

12504 E. WHITTIER BLVD. WHITTIER, CA

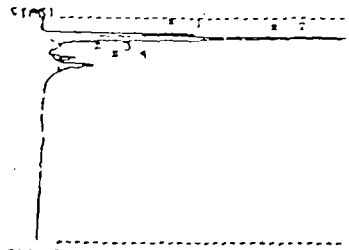
FIGURE 1

CALIFORNIA • COLORADO • ILLINOIS • MASSACHUSETTS • PENNSYLVANIA • TEXAS • WASHINGTON



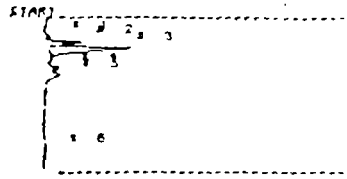
STOP 6 123.1
SAMPLE RUN JAN 21 1988 13:34
ANALYSIS # 1 OMEGA
TEMPERATURE 20 51
GAIN 10 PROBE

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	15.0	3.3 pVS



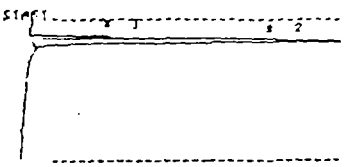
STOP 8 163.2
SAMPLE RUN JAN 21 1988 13:46
ANALYSIS # 6 OMEGA
TEMPERATURE 25 52
GAIN 10 SAMPLE

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	13.5	622.2 pVS
UNKNOWN	2	16.0	[illegible] VS
UNKNOWN	3	22.8	167.3 pVS
UNKNOWN	4	25.4	354.3 pVS



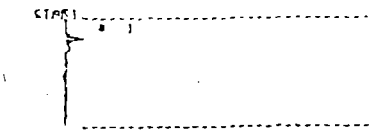
STOP 8 115.2
SAMPLE RUN JAN 21 1988 14:3
ANALYSIS # 12 OMEGA
TEMPERATURE 30 54
GAIN 10 PROBE

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	10.0	10.3 pVS
UNKNOWN	2	13.6	733.5 pVS
UNKNOWN	3	24.1	677.6 pVS
UNKNOWN	4	33.2	20.8 pVS
UNKNOWN	5	44.6	21.0 pVS
UNKNOWN	6	100.4	3.1 pVS



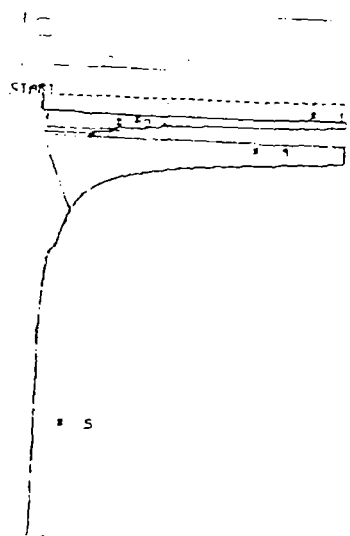
STOP 8 102.5
SAMPLE RUN JAN 21 1988 13:38
ANALYSIS # 3 OMEGA
TEMPERATURE 23 51
GAIN 10 SAMPLE

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	13.6	392.2 pVS
UNKNOWN	2	16.5	3.3 VS



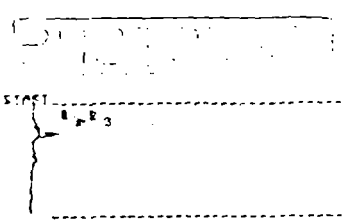
STOP 8 81.5
SAMPLE RUN JAN 21 1988 13:53
ANALYSIS # 8 OMEGA
TEMPERATURE 25 53
GAIN 10 PROBE

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	16.4	102.0 pVS



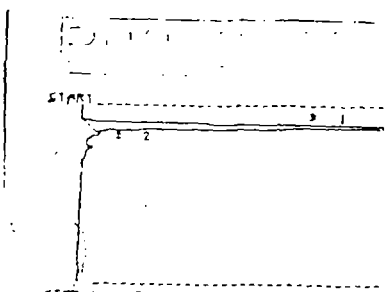
STOP 6 322.8
SAMPLE RUN JAN 21 1988 14:3
ANALYSIS # 13 OMEGA
TEMPERATURE 23 54
GAIN 10 SAMPLE

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	16.5	10.0 VS
UNKNOWN	2	23.3	622.2 pVS
UNKNOWN	3	52.1	201.4 pVS
UNKNOWN	4	98.2	55.6 VS



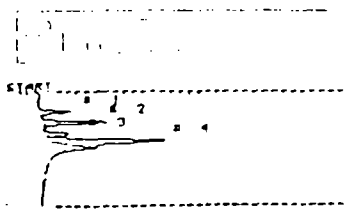
STOP 8 81.3
SAMPLE RUN JAN 21 1988 13:43
ANALYSIS # 5 OMEGA
TEMPERATURE 23 57
GAIN 10 PROBE

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	10.3	5.6 pVS
UNKNOWN	2	13.6	13.2 pVS
UNKNOWN	3	20.2	193.2 pVS



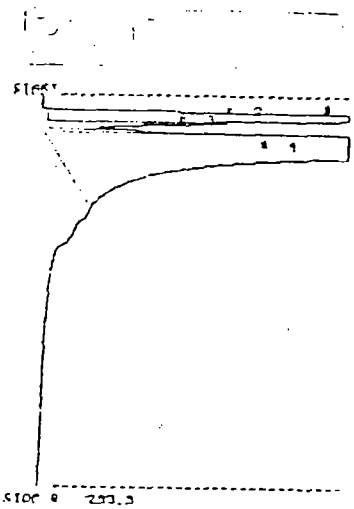
STOP 8 133.8
SAMPLE RUN JAN 21 1988 13:56
ANALYSIS # 3 OMEGA
TEMPERATURE 23 53
GAIN 10 SAMPLE

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	10.0	5.0 VS
UNKNOWN	2	23.4	11.2 pVS



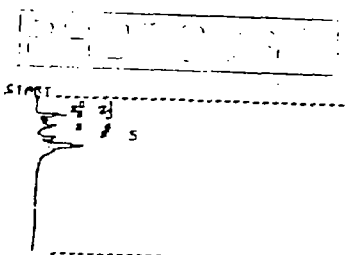
STOP # 69.5
SAMPLE RUN JAN 21 1988 14:17
ANALYSIS # 16 OMEGA
TEMPERATURE 30 55
GAIN 10 PROBE

COMPOUND NAME	PEAK	R.T.	AREA/FFD
UNKNOWN	1	15.3	167.5 pVS
UNKNOWN	2	23.3	151.5 pVS
UNKNOWN	3	31.3	811.0 pVS
UNKNOWN	4	87.5	303.0 pVS



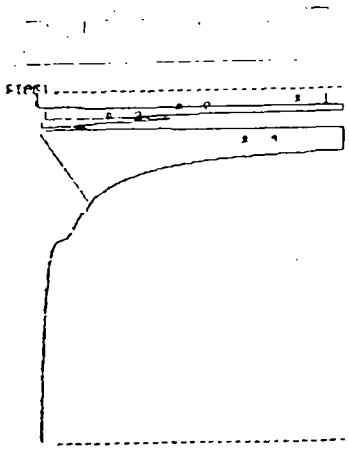
STOP # 233.3
SAMPLE RUN JAN 21 1988 14:22
ANALYSIS # 17 OMEGA
TEMPERATURE 26 55
GAIN 10 ~~PROBE~~ Sample

COMPOUND NAME	PEAK	R.T.	AREA/FFD
UNKNOWN	1	16.4	8.5 US
UNKNOWN	2	21.3	1.3 US
UNKNOWN	3	88.3	302.0 pVS
UNKNOWN	4	98.1	22.2 US



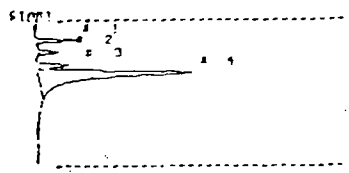
STOP # 119.6
SAMPLE RUN JAN 21 1988 14:31
ANALYSIS # 20 OMEGA
TEMPERATURE 23 56
GAIN 10 PROBE

COMPOUND NAME	PEAK	R.T.	AREA/FFD
UNKNOWN	1	15.0	110.6 pVS
UNKNOWN	2	18.3	23.6 pVS
UNKNOWN	3	23.0	61.3 pVS
UNKNOWN	4	31.3	183.3 pVS
UNKNOWN	5	97.3	311.5 pVS



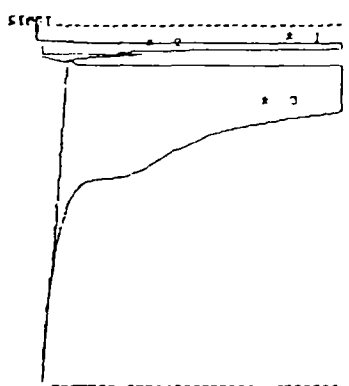
STOP # 265.5
SAMPLE RUN JAN 21 1988 14:36
ANALYSIS # 21 OMEGA
TEMPERATURE 27 56
GAIN 10 SAMPLE

COMPOUND NAME	PEAK	R.T.	AREA/FFD
UNKNOWN	1	15.3	7.5 US
UNKNOWN	2	23.3	1.5 US
UNKNOWN	3	28.5	862.0 pVS
UNKNOWN	4	93.6	53.6 US



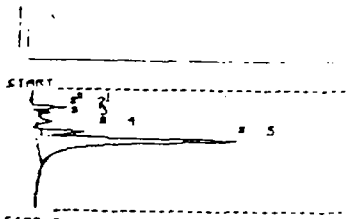
STOP # 186.1
SAMPLE RUN JAN 21 1988 14:43
ANALYSIS # 24 OMEGA
TEMPERATURE 26 55
GAIN 10 PROBE

COMPOUND NAME	PEAK	R.T.	AREA/FFD
UNKNOWN	1	15.1	287.7 pVS
UNKNOWN	2	23.3	152.3 pVS
UNKNOWN	3	33.4	260.2 pVS
UNKNOWN	4	93.7	2.2 US



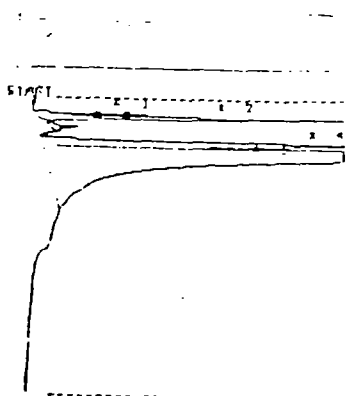
STOP # 265.4
SAMPLE RUN JAN 21 1988 14:46
ANALYSIS # 25 OMEGA
TEMPERATURE 27 57
GAIN 10 SAMPLE

COMPOUND NAME	PEAK	R.T.	AREA/FFD
UNKNOWN	1	14.8	0.8 US
UNKNOWN	2	27.6	339.1 pVS
UNKNOWN	3	35.2	350.1 US



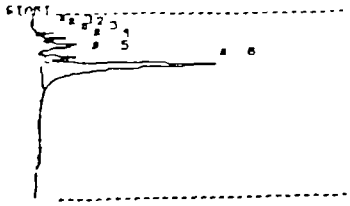
STOP # 30.8
SAMPLE RUN JAN 21 1988 14:52
ANALYSIS # 23 OMEGA
TEMPERATURE 23 56
GAIN 10 PROBE

COMPOUND NAME	PEAK	R.T.	AREA/FFD
UNKNOWN	1	15.1	136.6 pVS
UNKNOWN	2	13.3	66.1 pVS
UNKNOWN	3	26.1	183.3 pVS
UNKNOWN	4	33.4	125.4 pVS
UNKNOWN	5	93.4	3.4 US



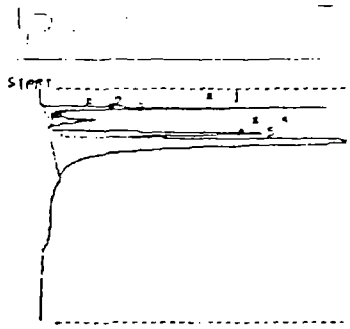
STOP # 210.2
SAMPLE RUN JAN 21 1988 15: 2
ANALYSIS # 30 OMEGA
TEMPERATURE 27 56
GAIN 10 SAMPLE

COMPOUND NAME	PEAK	R.T.	AREA/FFD
UNKNOWN	1	15.1	461.2 pVS
UNKNOWN	2	15.8	1.6 US
UNKNOWN	3	27.3	135.6 pVS
UNKNOWN	4	33.4	3.2 US
UNKNOWN	5	71.8	71.2 US



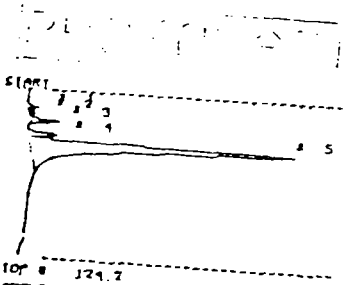
STOP # 130.0
SAMPLE RUN JAN 21 1988 15: 8
ANALYSIS # 32 OMEGA
TEMPERATURE 27 S3
GAIN 10 PROBE

COMPOUND NAME	PEAK	R.T.	AREA/FFD
UNKNOWN	2	15.1	62.4 PVS
UNKNOWN	3	13.5	134.1 PVS
UNKNOWN	4	23.1	61.0 PVS
UNKNOWN	5	33.0	383.3 PVS
UNKNOWN	6	33.0	3.0 VS



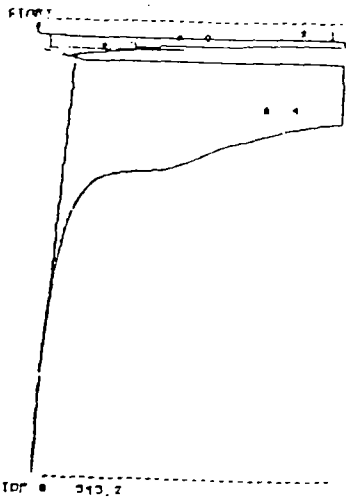
STOP # 163.3
SAMPLE RUN JAN 21 1988 15:11
ANALYSIS # 33 OMEGA
TEMPERATURE 27 S3
GAIN 10 SAMPLE

COMPOUND NAME	PEAK	R.T.	AREA/FFD
UNKNOWN	1	15.0	1.3 VS
UNKNOWN	2	13.4	183.6 PVS
UNKNOWN	3	24.7	171.5 PVS
UNKNOWN	4	34.0	2.0 VS
UNKNOWN	5	40.0	0.3 VS



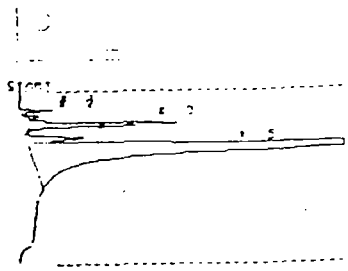
STOP # 124.7
SAMPLE RUN JAN 21 1988 15:13
ANALYSIS # 36 OMEGA
TEMPERATURE 26 S10
GAIN 10 PROBE

COMPOUND NAME	PEAK	R.T.	AREA/FFD
UNKNOWN	1	15.7	36.0 PVS
UNKNOWN	2	13.2	10.5 PVS
UNKNOWN	3	24.4	125.1 PVS
UNKNOWN	4	34.4	723.1 PVS
UNKNOWN	5	40.5	1.0 VS



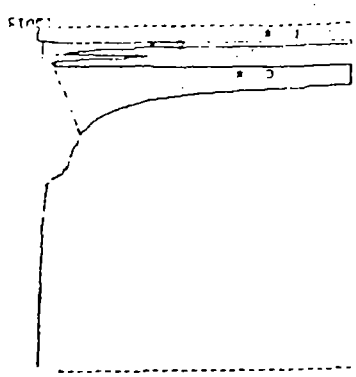
STOP # 313.2
SAMPLE RUN JAN 21 1988 15:26
ANALYSIS # 32 OMEGA
TEMPERATURE 25 S10
GAIN 10 SAMPLE

COMPOUND NAME	PEAK	R.T.	AREA/FFD
UNKNOWN	1	16.0	2.2 VS
UNKNOWN	2	27.5	1.0 VS
UNKNOWN	3	54.2	468.2 VS



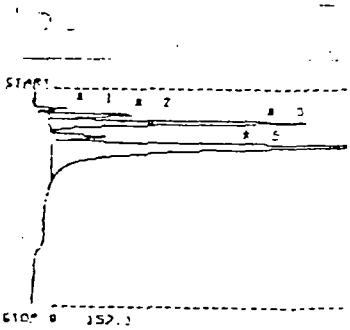
STOP # 126.5
SAMPLE RUN JAN 21 1988 15:37
ANALYSIS # 41 OMEGA
TEMPERATURE 27 S11
GAIN 10 PROBE

COMPOUND NAME	PEAK	R.T.	AREA/FFD
UNKNOWN	1	15.7	171.0 PVS
UNKNOWN	2	13.2	42.2 PVS
UNKNOWN	3	24.6	1.1 VS
UNKNOWN	4	33.0	373.0 PVS
UNKNOWN	5	41.3	13.2 VS



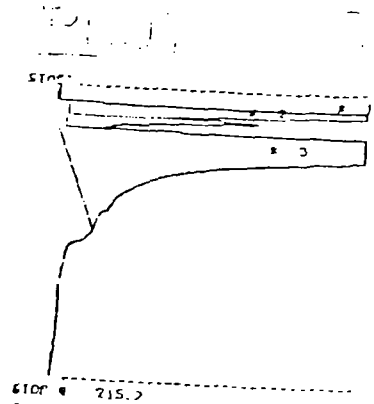
STOP # 250.4
SAMPLE RUN JAN 21 1988 15:42
ANALYSIS # 42 OMEGA
TEMPERATURE 25 S11
GAIN 10 SAMPLE

COMPOUND NAME	PEAK	R.T.	AREA/FFD
UNKNOWN	1	15.4	4.5 VS
UNKNOWN	2	24.6	1.0 VS
UNKNOWN	3	40.3	23.0 VS



STOP # 152.3
SAMPLE RUN JAN 21 1988 15:51
ANALYSIS # 45 OMEGA
TEMPERATURE 26 S17
GAIN 10 PROBE

COMPOUND NAME	PEAK	R.T.	AREA/FFD
UNKNOWN	1	15.7	105.2 PVS
UNKNOWN	2	13.2	651.0 PVS
UNKNOWN	3	24.2	2.4 VS
UNKNOWN	4	35.0	470.5 PVS
UNKNOWN	5	41.0	6.0 VS



STOP # 215.2
SAMPLE RUN JAN 21 1988 15:55
ANALYSIS # 46 OMEGA
TEMPERATURE 26 S17
GAIN 10 SAMPLE

COMPOUND NAME	PEAK	R.T.	AREA/FFD
UNKNOWN	1	16.3	0.4 VS
UNKNOWN	2	24.4	2.2 VS
UNKNOWN	3	47.3	35.0 VS