

**INSTALLATION RESTORATION PROGRAM  
TWIN CITIES ARMY AMMUNITION PLANT**

1988

**ANNUAL MONITORING REPORT - VOLUME IV**

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**Commander  
Twin Cities Army Ammunition Plant  
New Brighton, Minnesota  
55112-5000**

**Prepared for:**

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**Commander  
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Aberdeen Proving Ground, Maryland 21010-5401**

**SEPTEMBER 1989**

# VOLUME I

## A. MONITOR WELL LOCATION MAPS

- A-1 Unit 1
- A-2 Unit 1 (Site A)
- A-3 Unit 1 (Honeywell bldg 103 Area)
- A-4 Unit 3
- A-5 Unit 3 (BGRS Area)
- A-6 Unit 4

## B. GROUNDWATER QUALITY

- B-1 Unit 1 Organics
- B-2 Unit 1 Inorganics
- B-3 Unit 3 Organics
- B-4 Unit 3 Inorganics
- B-5 Unit 4 Organics
- B-6 Unit 4 Inorganics

## C. GROUNDWATER LEVEL

- C-1 Unit 1 Water Level
- C-2 Unit 3 Water Level
- C-3 Unit 4 Water Level

## D. CONTAMINANT "ACTION EXCEEDANCE"

- D-1 Groundwater "Action Exceedance"
- D-2 Surface Water "Action Exceedance"

## VOLUME II

### E. UNIT 1 GROUNDWATER LEVEL MAPS

- E-1 Unit 1 Quarter 16 Water Level Map
- E-2 Unit 1 Quarter 16 (Site A Area) Water Level Map
- E-3 Unit 1 Quarter 16 (Honeywell Building 103 Area) Water Level Map
- E-4 Unit 1 Quarter 17 Water Level Map
- E-5 Unit 1 Quarter 17 (Site A Area) Water Level Map
- E-6 Unit 1 Quarter 17 (Honeywell Building 103 Area) Water Level Map
- E-7 Unit 1 Quarter 18 Water Level Map
- E-8 Unit 1 Quarter 18 (Site A Area) Water Level Map
- E-9 Unit 1 Quarter 18 (Honeywell Building 103 Area) Water Level Map
- E-10 Unit 1 Quarter 19 Water Level Map
- E-11 Unit 1 Quarter 19 (Site A Area) Water Level Map
- E-12 Unit 1 Quarter 19 (Honeywell Building 103 Area) Water Level Map
- E-13 Unit 1 Quarter 20 Water Level Map
- E-14 Unit 1 Quarter 20 (Site A Area) Water Level Map
- E-15 Unit 1 Quarter 20 (Honeywell Building 103 Area) Water Level Map

### F. UNIT 3 GROUNDWATER LEVEL MAPS

- F-1 Unit 3 Quarter 16 Water Level Map
- F-2 Unit 3 Quarter 16 (BGRS Area) Water Level Map
- F-3 Unit 3 Quarter 17 Water Level Map
- F-4 Unit 3 Quarter 17 (BGRS Area) Water Level Map
- F-5 Unit 3 Quarter 18 Water Level Map
- F-6 Unit 3 Quarter 18 (BGRS Area) Water Level Map
- F-7 Unit 3 Quarter 19 Water Level Map
- F-8 Unit 3 Quarter 19 (BGRS Area) Water Level Map
- F-9 Unit 3 Quarter 20 Water Level Map
- F-10 Unit 3 Quarter 20 (BGRS Area) Water Level Map

### G. UNIT 4 GROUNDWATER LEVEL MAPS

- G-1 Unit 4 Quarter 16 Water Level Map
- G-2 Unit 4 Quarter 17 Water Level Map
- G-3 Unit 4 Quarter 18 Water Level Map
- G-4 Unit 4 Quarter 19 Water Level Map
- G-5 Unit 4 Quarter 20 Water Level Map

## VOLUME II (continued)

### H. UNIT 1 GROUNDWATER HYDROGRAPHS

H-1 01U628A 01U617 01U627A 01U626A 01U625A  
H-2 01L811 01U806 01U805 01U808 01U803  
H-3 01L813  
H-4 01L816 01L821 01L822 01L823 01U072  
H-5 01U011 01U035 01U034 01U122 01U101 01U100  
H-6 01U052 01U605 01U065 01U128 01U047 01U048  
H-7 01U098 01U060  
H-8 01U130 01U050 01U051 01U524 01U527 01U062  
H-9 01U526 01U525 01U003 01U054 01U634  
H-10 01U603 01U604 01U612 01U615 01U624B 01U616  
H-11 01U607 01U611 01U601 01U609 01U613 01U033  
H-12 01U621 01U620 01U618 01U623 01U619  
H-13 01U652 01U631 01U632 01U642 01U064

### I. UNIT 3 GROUNDWATER HYDROGRAPHS

I-1 03L002 03U021 03F305 03U700 03F304 03U671  
I-2 03L010 03U011 03U082 03U022 03U023  
I-3 03L012 03U025 03U083 03U088 03U089  
I-4 03L014 03L081 03L086 03U099 03U006 03L005  
I-5 03L028 03U647 03U659 03U658 03U004 03L832  
I-6 03L029 03U301 03U674 03L003 03U672  
I-7 03L078 03F303 03U703 03F302 03L079 03U710  
I-8 03L806 03U711 03U804 03U801 03L802  
I-9 03L811 03L809 03U803 03L673 03L841 03L848  
I-10 03L813 03U856 03M843 03L859 03L854 03L860  
I-11 03L853 03U821 03L822 03U824 03U831 03L861  
I-12 03L858  
I-13 03U009 03U008 03U129 03U707 03U111 03U097  
I-14 03U015 03L091 03U090 03U112 03U121 03U019  
I-15 03U024 03U706 03U704 03U705 03U016 03L007  
I-16 03U031 03L017 03L020 03L027 03L080 03U030  
I-17 03U087 03U521 03U032 03U124 03L113  
I-18 03U096 03U093 03L018 03U026 03U092 03U094  
I-19 03U702 03U701 03F307 03L077 03F306 03L832

## VOLUME II (continued)

### J. UNIT 4 GROUNDWATER HYDROGRAPHS

J-1 04U001 04U701 04U702 04U077 04U806 04U709  
J-2 04U002 04U711 04U802 04U003 04U673  
J-3 04U843 04U821 409595 04U861  
J-4 04U847 04U841 04U848  
J-5 04U850 04U877 04U851 04U852  
J-6 04U859 04U845 04U854 04U860  
J-7 04U875 04U880 04U881 04U882  
J-8 04U879 04U871 04U872 04U883  
J-9 409595 409598 117NB 409596 04U844 04U832  
J-10 PJ#74 PJ#508 04U020 04U027  
J-11 PJ#501 PJ#502 PJ#503 PJ#506 PJ#507

### K. MONITOR WELL NEST GROUNDWATER HYDROGRAPHS

K-1 01L821 03U821 04U821  
K-2 01L822 03L822 03U822  
K-3 01U011 03U011  
K-4 01U012 03L012 03M012 03U012 04U012  
K-5 01U624B 01U624D 01U624C  
K-6 01U625A 01U625B 01U625C 01U625D  
K-7 01U626A 01U626B 01U626C 01U626D  
K-8 01U627A 01U627B 01U627C 01U627D  
K-9 01U628A 01U628B 01U628C 01U628D  
K-10 01U803 03U803  
K-11 03L001 03M001 03U001 04U001  
K-12 03L002 03M002 03U002 04U002  
K-13 03L003 03M003 03U003 04U003 PJ#003  
K-14 03L004 03M004 03U004  
K-15 03L005 03M005 03U005  
K-16 03L007 03M007 03U007 04U007  
K-17 03L010 03M010 03U010  
K-18 03L013 03M013 03U013  
K-19 03L014 03U014  
K-20 03L017 03M017 03U017  
K-21 03L018 03U018  
K-22 03L020 03M020 03U020 04U020  
K-23 03L021 03U021

## VOLUME II (continued)

K-24 03L027 03U027 04U027 PJ#027  
K-25 03L028 03U028  
K-26 03L077 03U077 04U077  
K-27 03L078 03U078  
K-28 03L802 03M802 04U802 PJ#802  
K-29 03L806 03M806 03U806 04U806 PJ#806  
K-30 03L832 03U832 04U832  
K-31 03L841 04U841  
K-32 03L848 03M848 04U848  
K-33 03L859 04U859  
K-34 03L860 04U860  
K-35 03L861 04U861

### L. UNIT 1 GROUNDWATER QUALITY ISOCONCENTRATION MAPS - ORGANICS

L-1 Unit 1 Total VOCs Isoconcentrations (Q16)  
L-2 Unit 1 (Site A Area) Total VOC Isoconcentrations (Q16)  
L-3 Unit 1 (Honeywell Bldg 103 Area) Total VOCs Isoconcentrations (Q16)  
L-4 Unit 1 (Trichloroethylene Isoconcentrations (Q16)  
L-5 Unit 1 (Site A) Trichloroethylene Isoconcentrations (Q16)  
L-6 Unit 1 (Honeywell Bldg 103 Area) Trichloroethylene Isoconcentrations (Q16)

### M. UNIT 3 GROUNDWATER QUALITY ISOCONCENTRATION MAPS - ORGANICS

M-1 Unit 3 Total VOC Isoconcentrations (Q16)  
M-2 Unit 3 Trichloroethylene Isoconcentrations (Q16)  
M-3 Upper Unit 3 Trichloroethylene Isoconcentrations (Q16)  
M-4 Middle Unit 3 Trichloroethylene Isoconcentrations (Q16)  
M-5 Lower Unit 3 Trichloroethylene Isoconcentrations (Q16)

### N. UNIT 4 GROUNDWATER QUALITY ISOCONCENTRATION MAPS - ORGANICS

N-1 Unit 4 Total VOC Isoconcentrations (Q16)  
N-2 Unit 4 Trichloroethylene Isoconcentrations (Q16)

### O. UNIT 1 GROUNDWATER QUALITY MAPS - INORGANICS

O-1 Quarter 16 Copper Concentrations  
O-2 Quarter 16 Cyanide Concentrations  
O-3 Quarter 16 Nickel Concentrations  
O-4 Quarter 16 Lead Concentrations

## **VOLUME II (continued)**

### **O. UNIT 1 GROUNDWATER QUALITY MAPS - INORGANICS (continued)**

- O-5 Quarter 16 Alpha Radionuclides Concentrations
- O-6 Quarter 16 Beta Radionuclides Concentrations
- O-7 Quarter 18 Nickel Concentrations
- O-8 Quarter 18 Lead Concentrations
- O-9 Quarter 19 Cyanide Concentrations
- O-10 Quarter 19 Nickel Concentrations
- O-11 Quarter 19 Lead Concentrations
- O-12 Quarter 20 Cyanide Concentrations
- O-13 Quarter 20 Nickel Concentrations
- O-14 Quarter 20 Lead Concentrations

### **P. UNIT 3 GROUNDWATER QUALITY MAPS - INORGANICS**

- P-1 Quarter 16 Copper Concentrations
- P-2 Quarter 16 Cyanide Concentrations
- P-3 Quarter 16 Nickel Concentrations
- P-4 Quarter 16 Lead Concentrations
- P-5 Quarter 16 Alpha Radionuclides Concentrations
- P-6 Quarter 16 Beta Radionuclides Concentrations
- P-7 Quarter 18 Cyanide Concentrations
- P-8 Quarter 18 Nickel Concentrations
- P-9 Quarter 18 Lead Concentrations
- P-10 Quarter 19 Cyanide Concentrations
- P-11 Quarter 19 Nickel Concentrations
- P-12 Quarter 19 Lead Concentrations
- P-13 Quarter 20 Nickel Concentrations
- P-14 Quarter 20 Lead Concentrations

### **Q. UNIT 4 GROUNDWATER QUALITY MAPS - INORGANICS**

- Q-1 Quarter 16 Copper Concentrations
- Q-2 Quarter 16 Nickel Concentrations
- Q-3 Quarter 16 Lead Concentrations
- Q-4 Quarter 16 Alpha Radionuclides Concentrations
- Q-5 Quarter 16 Beta Radionuclides Concentrations
- Q-6 Quarter 18 Cyanide Concentrations
- Q-7 Quarter 19 Nickel Concentrations
- Q-8 Quarter 19 Lead Concentrations

## **VOLUME II (continued)**

### **R. SURFACE WATER SAMPLING LOCATIONS**

- R-1 Surface Water Sampling Locations - Site A

- R-2 Surface Water Sampling Locations - Site B
- R-3 Surface Water Sampling Locations - Downstream of Site B
- R-4 Surface Water Sampling Locations - Site C
- R-5 Surface Water Sampling Locations - Sites G and 129-15
- R-6 Surface Water Sampling Locations - Sites H and Marsden Lake
- R-7 Surface Water Sampling Locations - Marsden Lake
- R-8 Surface Water Sampling Locations - Site I
- R-9 Surface Water Sampling Locations - Near Site J
- R-10 Surface Water Sampling Locations - Site K
- R-11 Surface Water Sampling Locations - Rice Creek
- R-12 Surface Water Sampling Locations - North & Western Boundaries
- R-13 Surface Water Sampling Locations - South & Western Boundaries
- R-14 Surface Water Sampling Locations - Rice Creek near Site J



## **VOLUME III**

### **APPENDICES**

- A 1987 GROUNDWATER MONITORING PLAN, SCOPE OF WORK
- B 1988 GROUNDWATER MONITORING PLAN, SCOPE OF WORK
- C 1989 QUARTER 22 MONITORING PLAN, SCOPE OF WORK
- D 1989 QUARTERS 23 AND 24 MONITORING PLAN, SCOPE OF WORK
- E TCAAP ON SITE MONITORING WELL LOCATIONS MAPS
- F MONITOR WELL DESIGNATION CROSS REFERENCE
- G NPDES SAMPLE POINT LOCATIONS
- H QUARTERLY SURFACE WATER AND NPDES ANALYSIS

## **VOLUME IV**

- I GROUNDWATER QUALITY TRENDS
- J NPDES SURFACE WATER SAMPLING NUMBER/LETTER CROSS REFERENCE LIST

**APPENDIX I**

**GROUNDWATER QUALITY TRENDS**

APPENDIX I

Unit 1

Well 01U034  
Barium  
Cadmium  
Nickel  
Total Xylenes

Well 01U036  
Barium

Well 01U050  
Arsenic  
Barium  
Cadmium

Well 01U051  
Barium  
Cadmium  
Chromium  
Lead  
Trichloroethene

Well 01U053  
1,1-Dichloroethene

Well 01U054  
1,1,1-Trichloroethane  
Trichloroethene

Well 01U060  
Arsenic  
Barium  
Cadmium  
Toluene/Methyl Benzene  
Nickel

Well 01U062  
Barium  
Cadmium  
Chromium

Unit 1 (cont'd)

Well 01U085

Arsenic  
Barium  
Cadmium  
Chromium  
Toluene/Methyl Benzene  
Total Xylenes

Well 01U098

Barium  
Cadmium  
Chromium  
Lead

Well 01U107

1,2-Dichloroethene  
Tetrachloroethene

Well 01U108

1,2-Dichloroethene  
Barium  
Benzene  
Tetrachloroethene  
Trichloroethene

Well 01U115

1,2-Dichloroethene  
Barium  
Lead  
Tetrachloroethene  
Trichloroethene

Well 01U116

1,2-Dichloroethene  
Arsenic  
Barium  
Lead  
Trichloroethene

Unit 1 (cont'd)

Well 01U117

1,2-Dichloroethene  
Barium  
Cadmium  
Chromium  
Tetrachloroethene  
Trichloroethene

Well 01U118

Barium  
Cadmium  
Trichloroethene

Well 01U119

Barium  
Cadmium  
Chromium  
Lead  
Trichloroethene

Well 01U120

Barium  
Cadmium  
Trichloroethene

Well 01U122

Barium  
Cadmium  
Trichloroethene

Well 01U125

Barium  
Cadmium  
Chromium

Well 01U126

Barium  
Cadmium  
Tetrachloroethene  
Trichloroethene

Unit 1 (cont'd)

Well 01U127  
Arsenic  
Barium  
Cadmium  
Chromium

Well 01U128  
1,2-Dichloroethene  
Arsenic  
Barium  
Chromium  
Cadmium  
Toluene/Methyl Benzene  
Lead  
Total Xylenes  
Zinc

Well 01U133  
1,2-Dichloroethene  
Arsenic  
Barium  
Cadmium  
Nickel

Well 01U130  
Arsenic  
Barium  
Cadmium  
Chromium  
Nickel

Well 01U524  
Barium  
Cadmium  
Chromium  
Lead

Well 01U525  
Barium  
Cadmium  
Chromium

Unit 1 (cont'd)

Well 01U526

Barium

Chromium

Nickel

Trichloroethene

Well 01U527

Barium

Cadmium

Chromium

Unit 3

Well 03L003

1,1,1-Trichloroethane  
Barium

Well 03L004

Well 03L005

Barium

Well 03L014

1,1,1-Trichloroethane  
Barium  
Trichloroethane

Well 03L018

1,1,1-Trichloroethane  
Barium  
Toluene/Methyl Benzene  
Trichloroethene

Well 03L020

1,1,1-Trichloroethane  
1,1-Dichloroethene  
1,2-Dichloroethene

Well 03L020

Arsenic  
Barium  
Toluene/Methyl Benzene  
Trichloroethene



Unit 1 (cont'd)

Well 03L078

Barium  
Trichloroethene

Well 03L079

Barium  
Benzene

Well 03L091

1,1,1-Trichloroethane  
Barium

Well 03U113

Barium  
Toluene/Methyl Benzene  
Trichloroethene

Well 03M003

Barium

Well 03M004

Barium  
Tetrachloroethene

Well 03M005

Barium  
Chromium  
Trichloroethene

Well 030003

1,1,1-Trichloroethane  
1,1-Dichloroethene  
1,2-Dichloroethene  
1,2-Dichloroethane  
Barium  
Chloroform  
Chromium  
Trichloroethene

Unit 3 (cont'd)

Well 03U004

1,1,1-Trichloroethane

1,2-Dichloroethene

Barium

Chromium

Well 03U005

1,2-Dichloroethene

Arsenic

Barium

Cadmium

Trichloroethene

Well 03U014

1,1,1-Trichloroethane

1,2-Dichloroethene

Barium

Cadmium

Chromium

Trichloroethene

Well 03U015

1,2-Dichloroethene

Barium

Chromium

Tetrachloroethene

Trichloroethene

Well 03U018

1,1,1-Trichloroethane

1,1,2-Trichloroethane

1,1-Dichloroethene

1,2-Dichloroethene

Barium

Cadmium

Chloroform

Chromium

Nickel

Trichloroethene

Unit 3 (cont'd)

Well 03U019

1,1,1-Trichloroethane  
Barium  
Cadmium  
Chromium  
Zinc

Well 03U020

1,1,1-Trichloroethane  
1,1-Dichloroethene  
1,2-Dichloroethene  
Barium  
Cadmium  
Chromium  
Trichloroethene

Well 03U023

Barium

Well 03U026

1,1,1-Trichloroethane  
1,1-Dichloroethene  
Barium  
Chloroform  
Chromium  
Toluene/Methyl Benzene  
Trichloroethene

Well 03U027

1,1,1-Trichloroethane  
1,1-Dichloroethene  
1,1,2-Trichloroethane  
1,2-Dichloroethene  
Barium  
Cadmium  
Chloroform  
Chromium  
Nickel  
Lead  
Trichloroethene

Unit 3 (cont'd)

Well 03U028

1,1,1-Trichloroethane  
1,1-Dichloroethene  
Barium  
Cadmium  
Chromium  
Trichloroethene

Well 03U029

1,1,1-Trichloroethane  
1,1-Dichloroethene  
Barium  
Trichloroethene

Well 03U030

1,1,1-Trichloroethane  
Barium  
Cadmium  
Chromium  
Toluene/Methyl Benzene  
Trichloroethene

Well 03U032

1,1,1-Trichloroethane  
Barium  
Cadmium  
Chromium  
Toluene/Methyl Benzene  
Trichloroethene

Well 03U075

Barium  
Trichloroethene

Well 03U078

1,1,1-Trichloroethane  
1,1-Dichloroethene  
Barium  
Chloroform  
Chromium  
Toluene/Methyl Benzene  
Nickel  
Trichloroethene

Unit 3 (cont'd)

Tetrachloroethene

Well 03U079

1,1,1-Trichloroethane

1,1-Dichloroethene

1,2-Dichloroethene

Barium

Chloroform

Trichloroethene

Well 03U087

Barium

Chromium

Toluene/Methyl Benzene

Trichloroethene

Total Xylenes

Well 03U088

1,1,1-Trichloroethane

Barium

Cadmium

Chromium

Nickel

Tetrachloroethene

Trichloroethene

Well 03U089

Barium

Cadmium

Chromium

Nickel

Tetrachloroethene

Trichloroethene

Well 03U090

1,1,1-Trichloroethane

1,2-Dichloroethene

Barium

Chloroform

Chromium

Toluene/Methyl Benzene

Trichloroethene

Unit 3 (cont'd)

Well 03U092

1,1,1-Trichloroethane  
1,1-Dichloroethene  
Barium  
Benzene  
Chloroform  
Cyanide  
Toluene/Methyl Benzene  
Trichloroethene  
Total Xylenes

Well 03U093

1,1,1-Trichloroethane  
1,1-Dichloroethene  
1,2-Dichloroethene  
Barium  
Cadmium  
Nickel  
Trichloroethene

Well 03U094

1,1-Dichloroethene  
Barium  
Cadmium  
Chromium  
Trichloroethene

Well 03U096

1,1-Dichloroethene  
Barium  
Cadmium  
Chromium  
Trichloroethene

Well 03U097

Barium  
Nickel  
Trichloroethene

Well 03U099

Barium  
Chromium  
Toluene/Methyl Benzene

Unit 3 (cont'd)

Well 03U111

1,1,1-Trichloroethane  
Arsenic  
Barium  
Cadmium  
Trichloroethene

Well 03U112

1,1,1-Trichloroethane  
1,1-Dichloroethene  
Barium  
Chloroform  
Chromium  
Cyanide  
Toluene/Methyl Benzene  
Nickel  
Trichloroethene

Well 03U113

Barium  
Chromium  
Toluene/Methyl Benzene  
Lead  
Trichloroethene

Well 03U114

1,1,1-Trichloroethane  
1,1-Dichloroethene  
Barium  
Cadmium  
Chromium  
Toluene/Methyl Benzene  
Nickel  
Lead  
Trichloroethene

Well 03U121

Barium  
Toluene/Methyl Benzene  
Trichloroethene

Unit 3 (cont'd)

Well 03U129

Arsenic  
Barium  
Cadmium  
Trichloroethene

Well 03U521

Barium  
Chromium  
Nickel  
Lead  
Trichloroethene

Well 03U671

1,1,1-Trichloroethane  
1,1-Dichloroethene  
1,2-Dichloroethene  
Barium  
Chloroform  
Chromium  
Tetrachloroethene  
Trichloroethene

Well 03U704

Barium  
Cadmium  
Trichloroethene



Unit 4

Well 04U020

1,1,1-Trichloroethane

1,1-Dichloroethene

1,2-Dichloroethene

Arsenic

Barium

Lead

Trichloroethene

Well 04U802

Trichloroethene

Well PJ#074

1,1,1-Trichloroethane

Barium

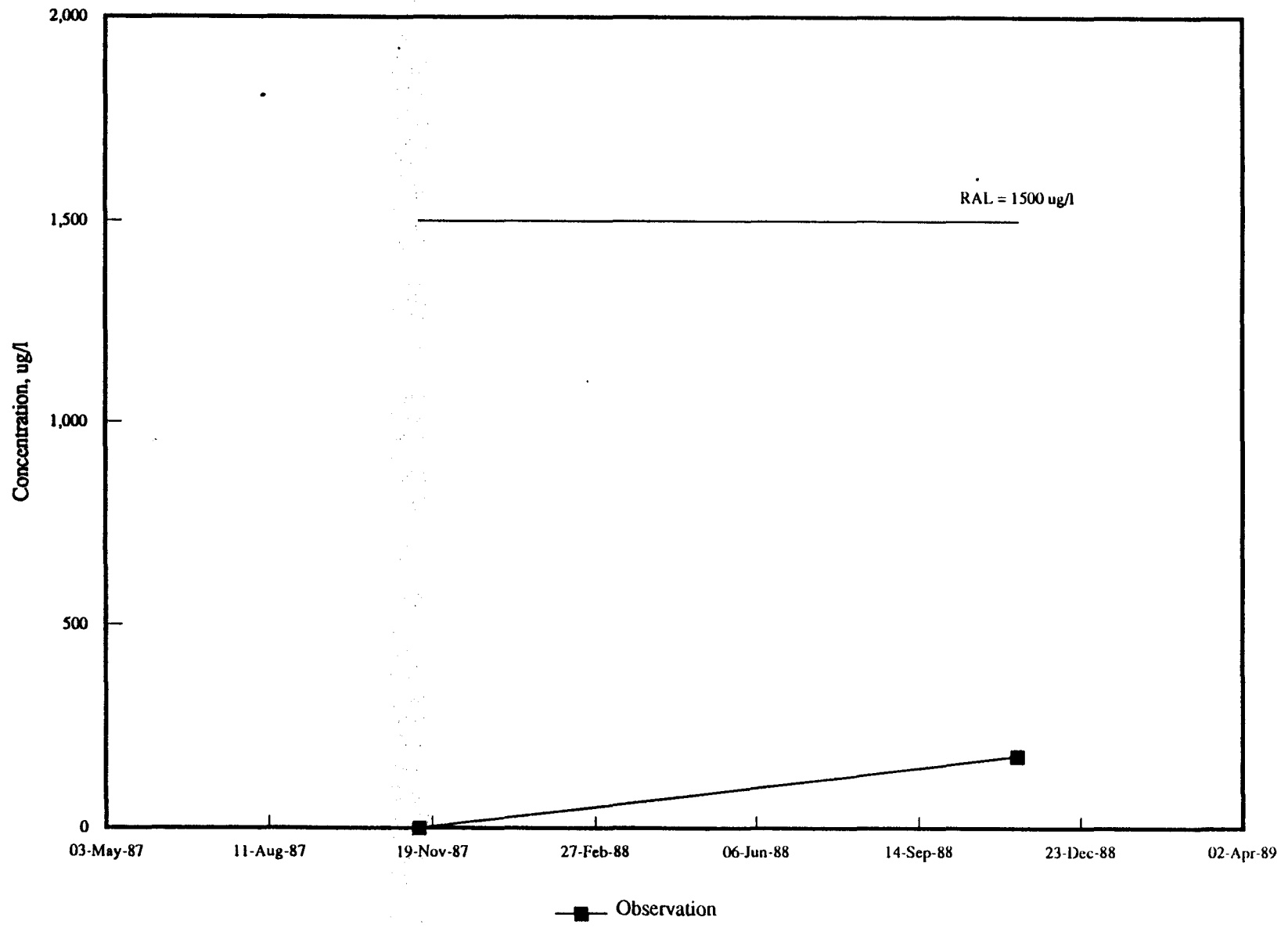
Cadmium

Trichloroethene

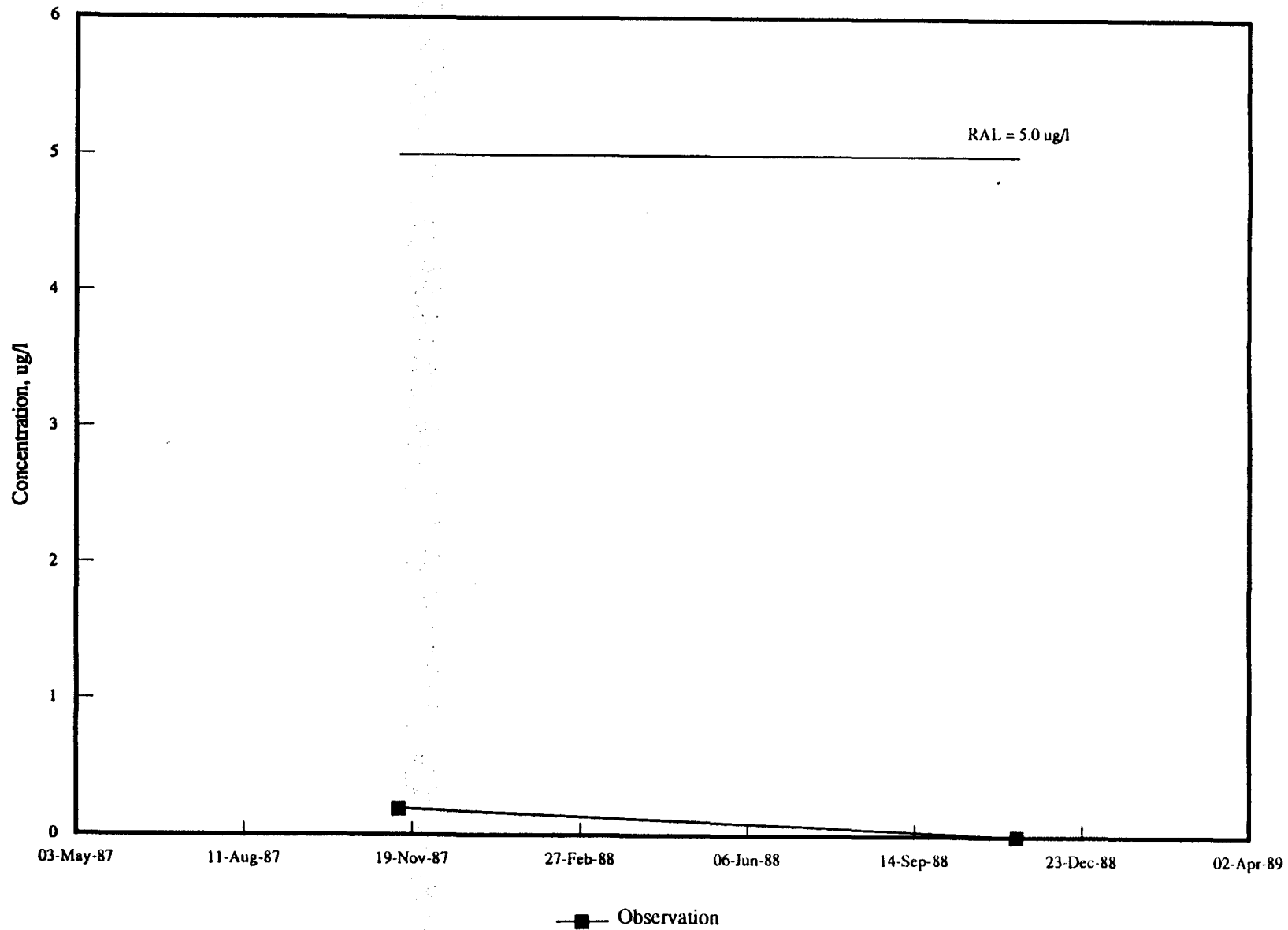
**APPENDIX I**

**UNIT 1**

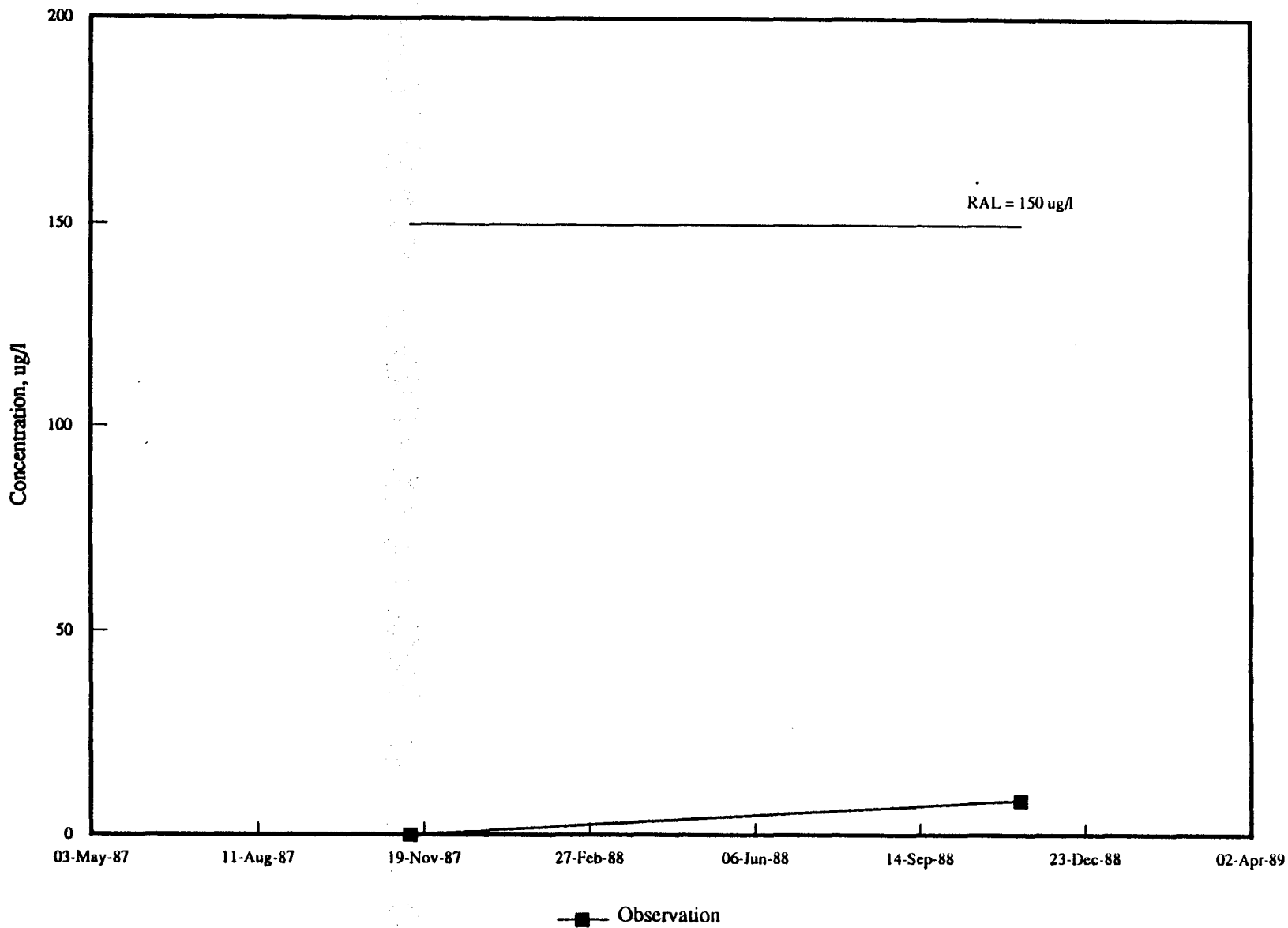
BARIUM - WELL 01U034



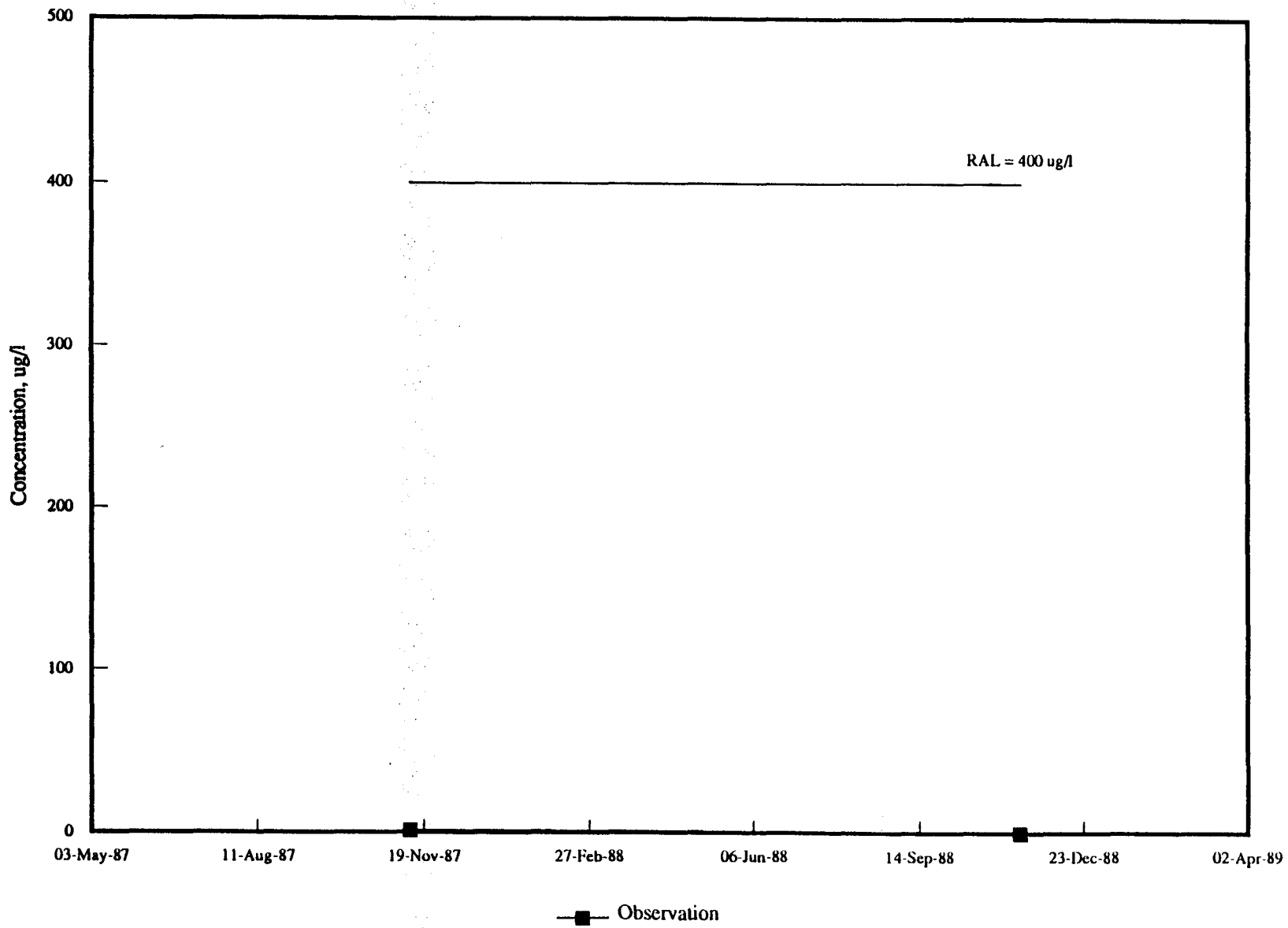
CADMIUM - WELL 01U034



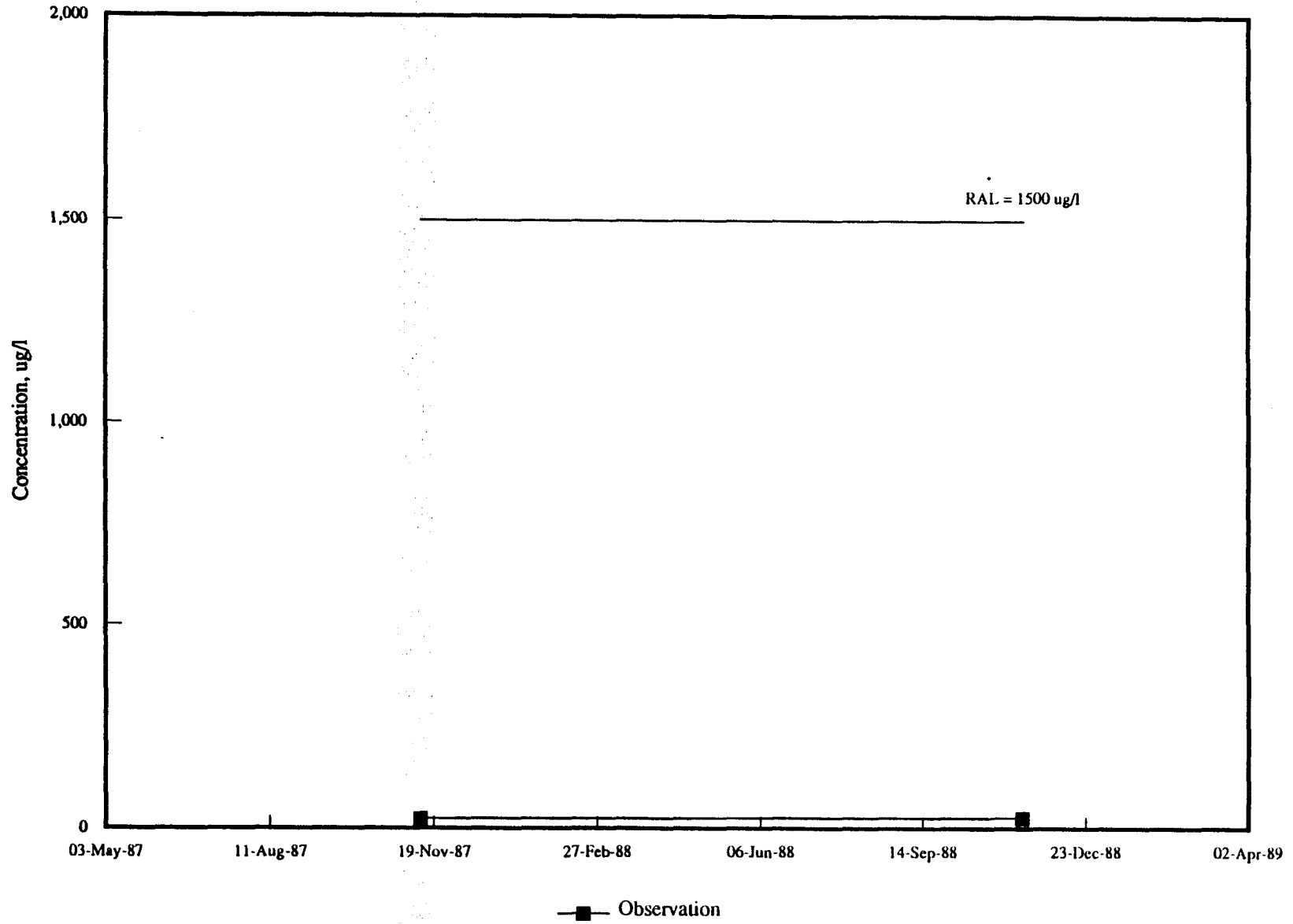
NICKEL - WELL 01U034



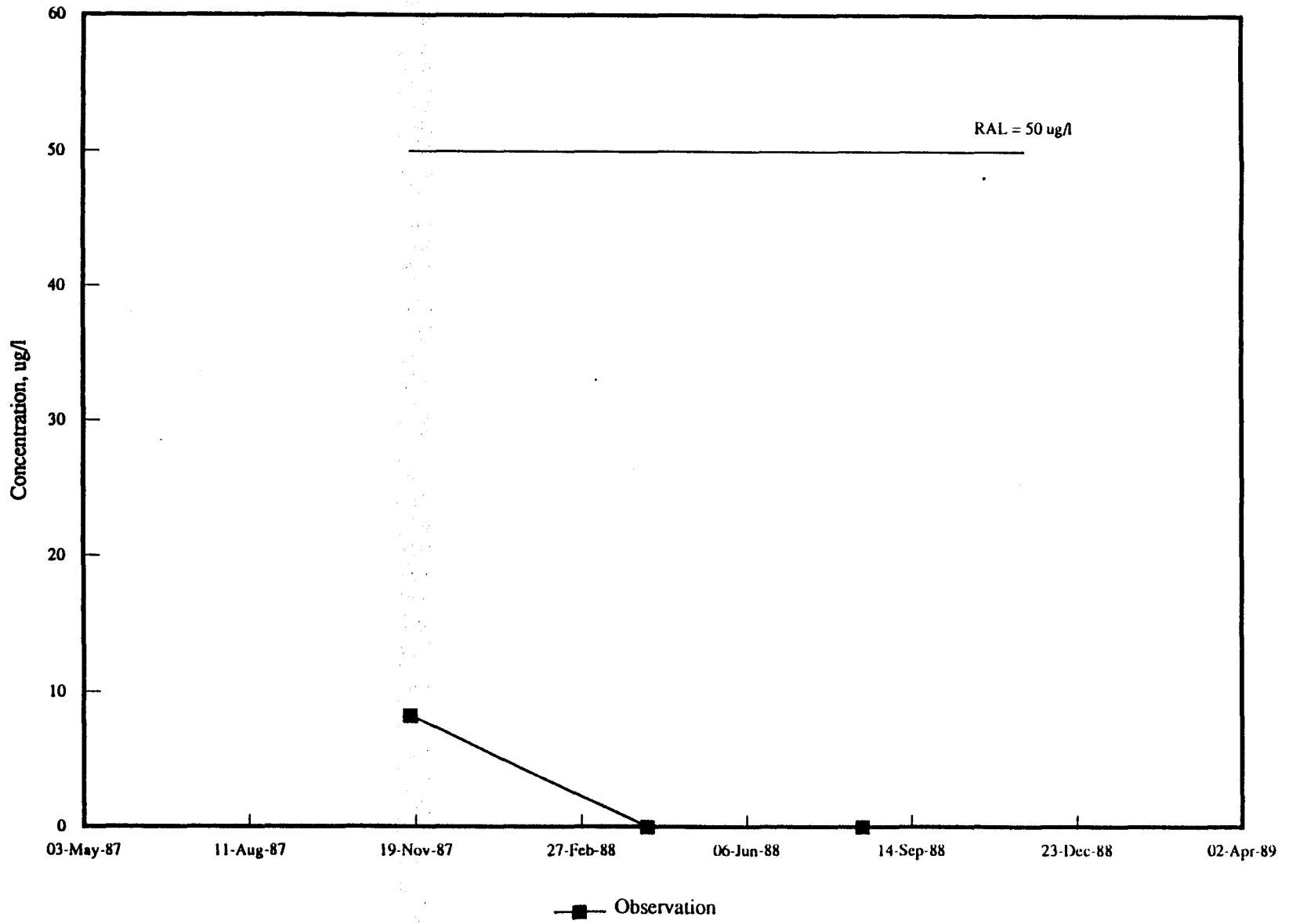
TOTAL XYLENES - WELL 01U034



BARIUM - WELL 01U036

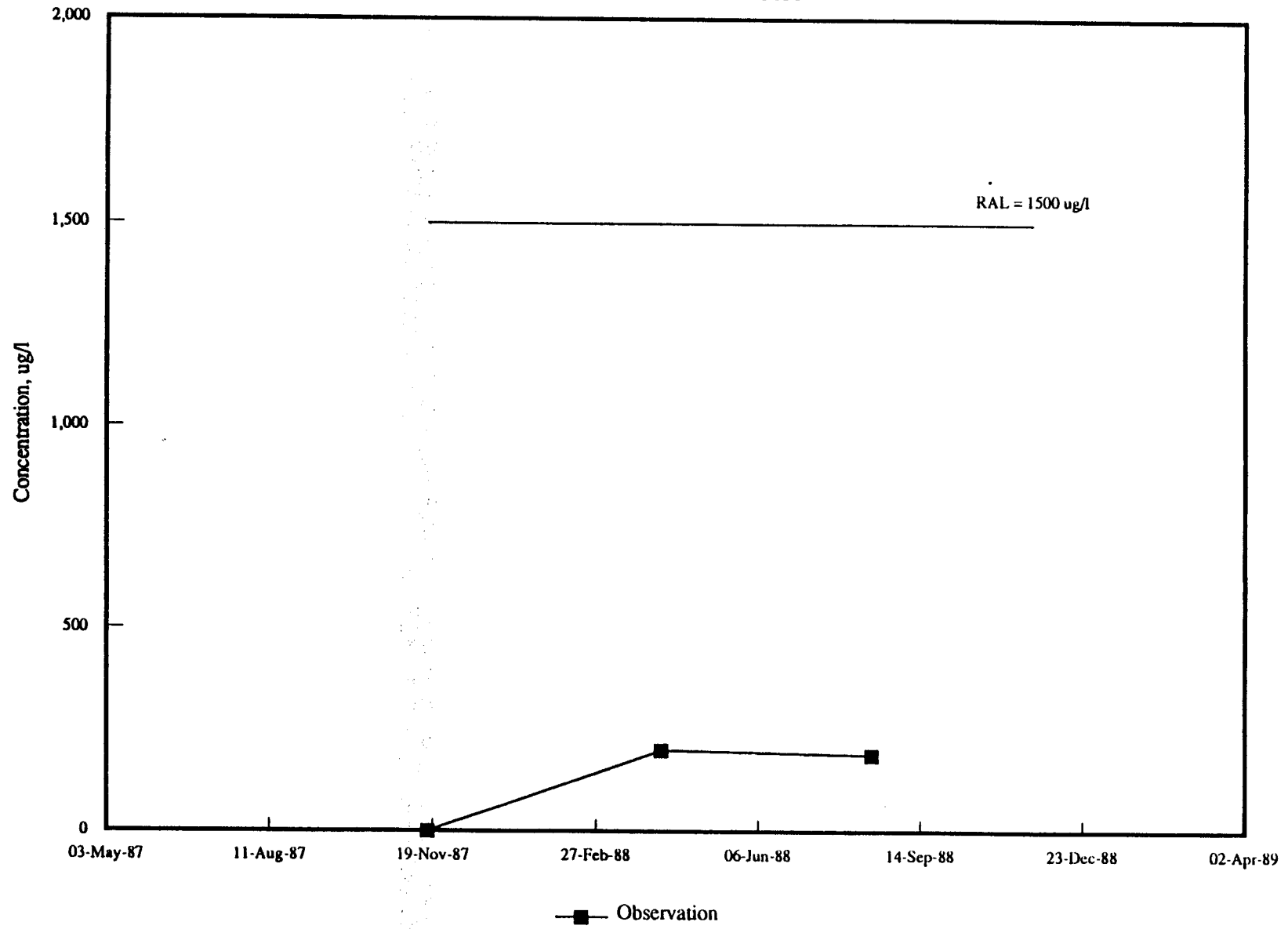


ARSENIC - WELL 01U050

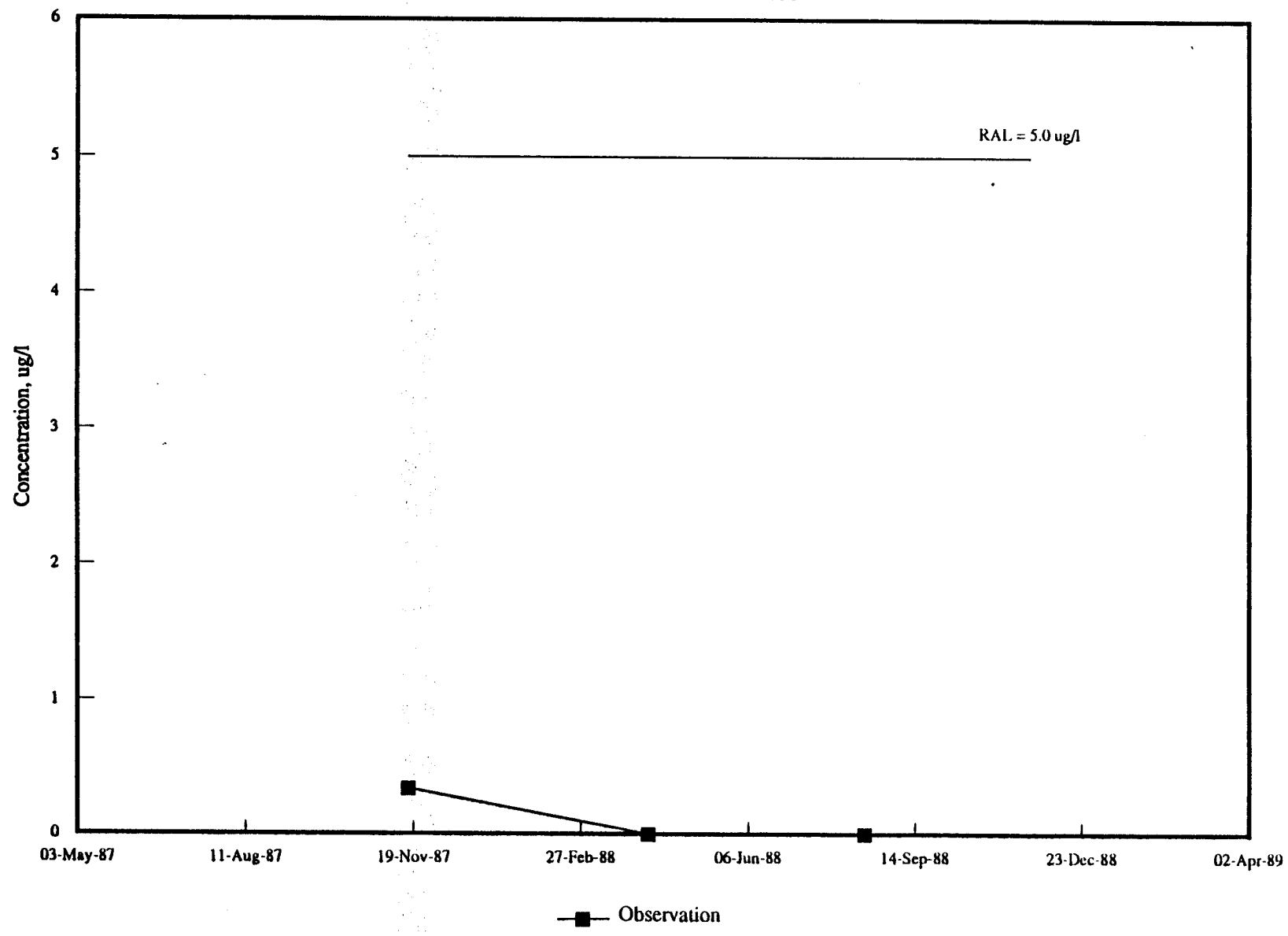




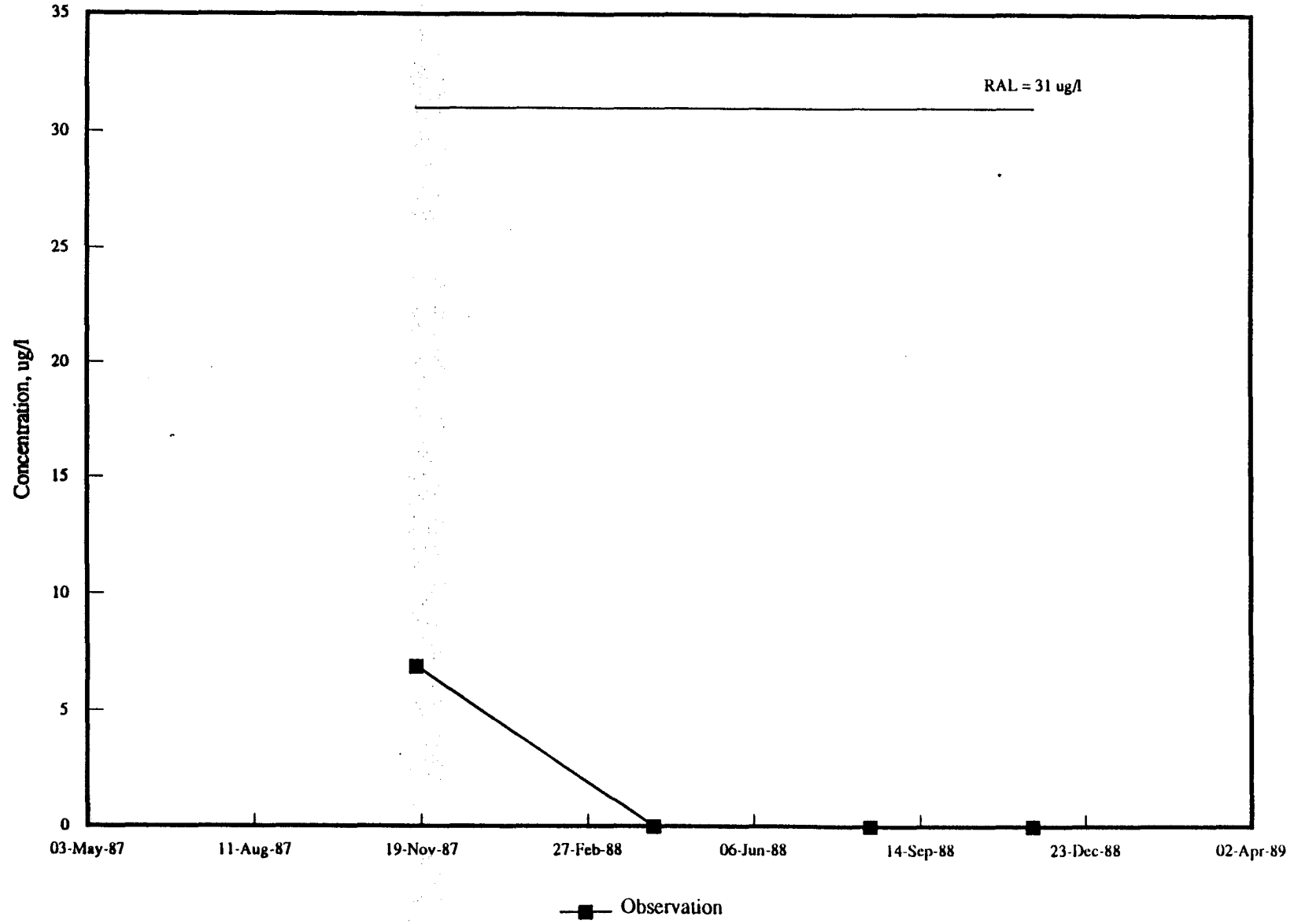
BARIUM - WELL 01U050



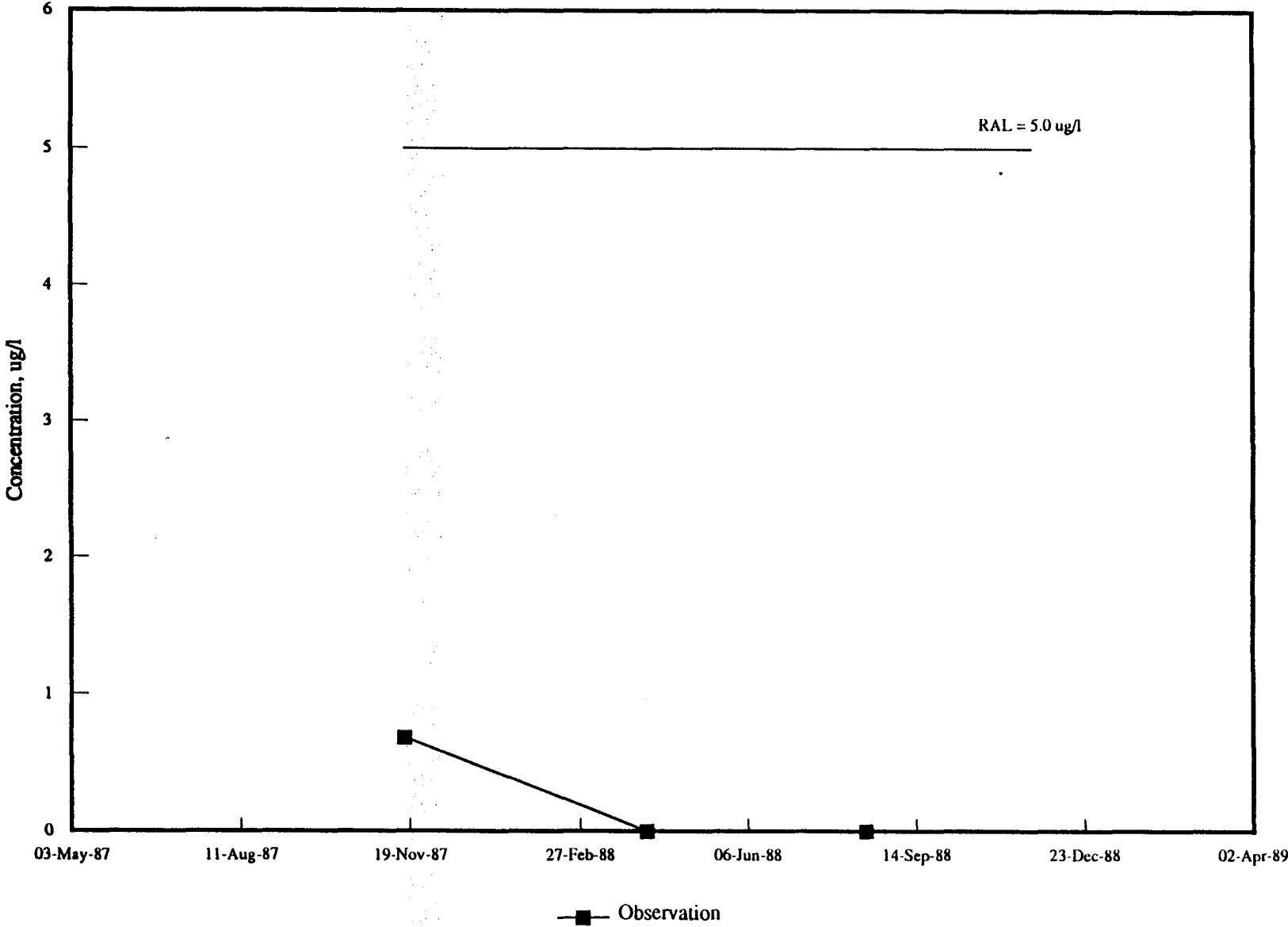
CADMIUM - WELL 01U050



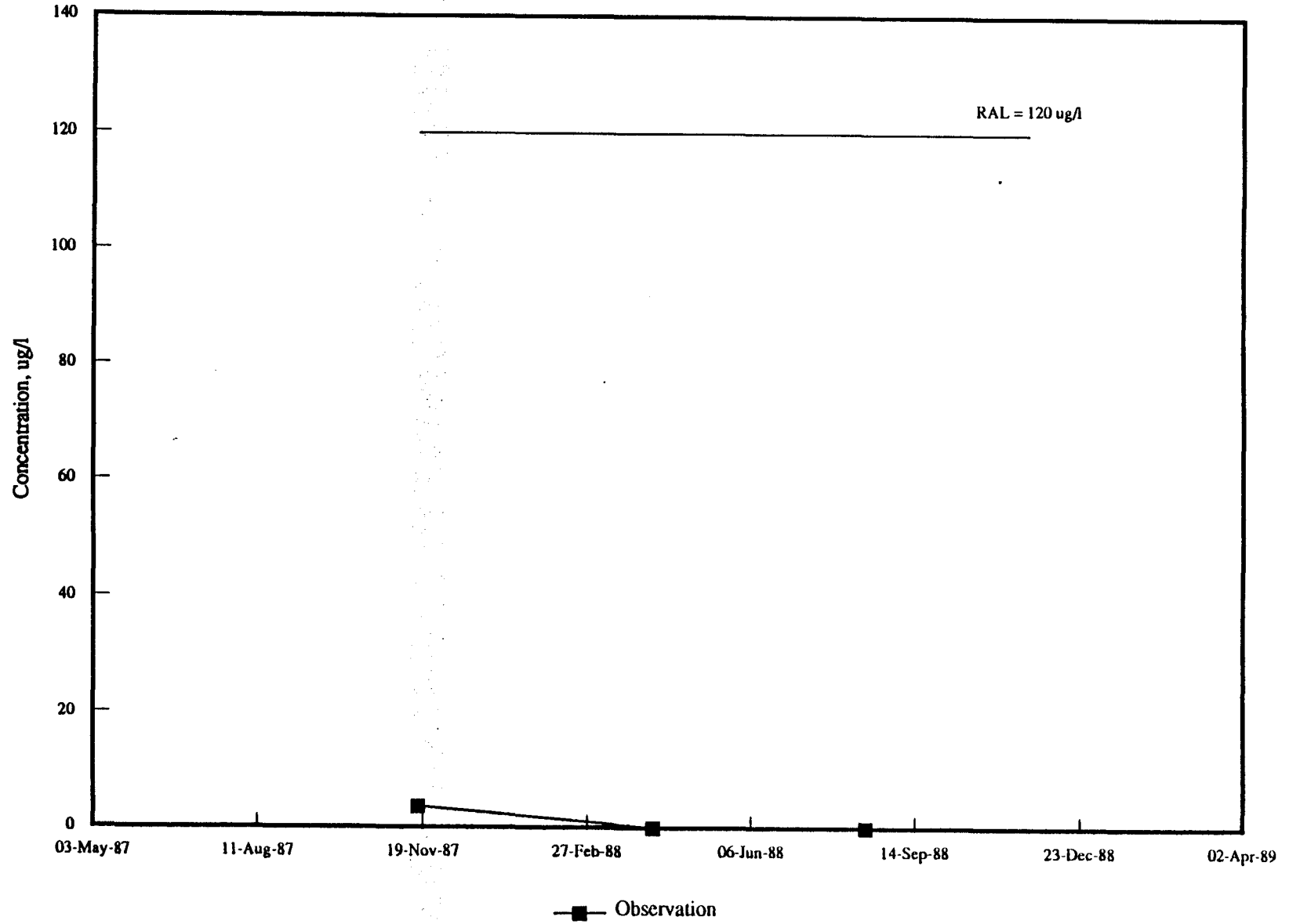
BARIUM - WELL 01U051



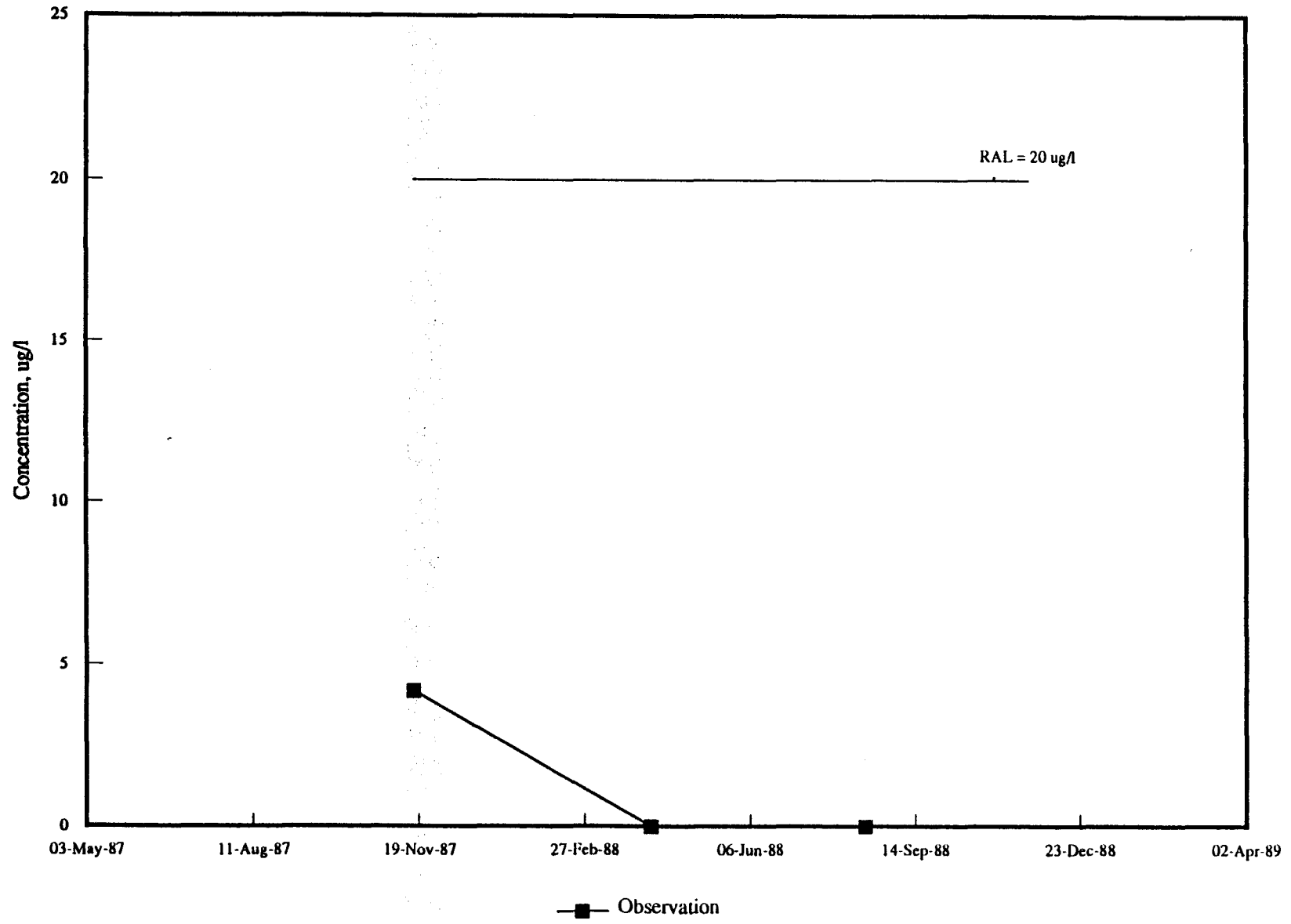
CADMIUM - WELL 01U051



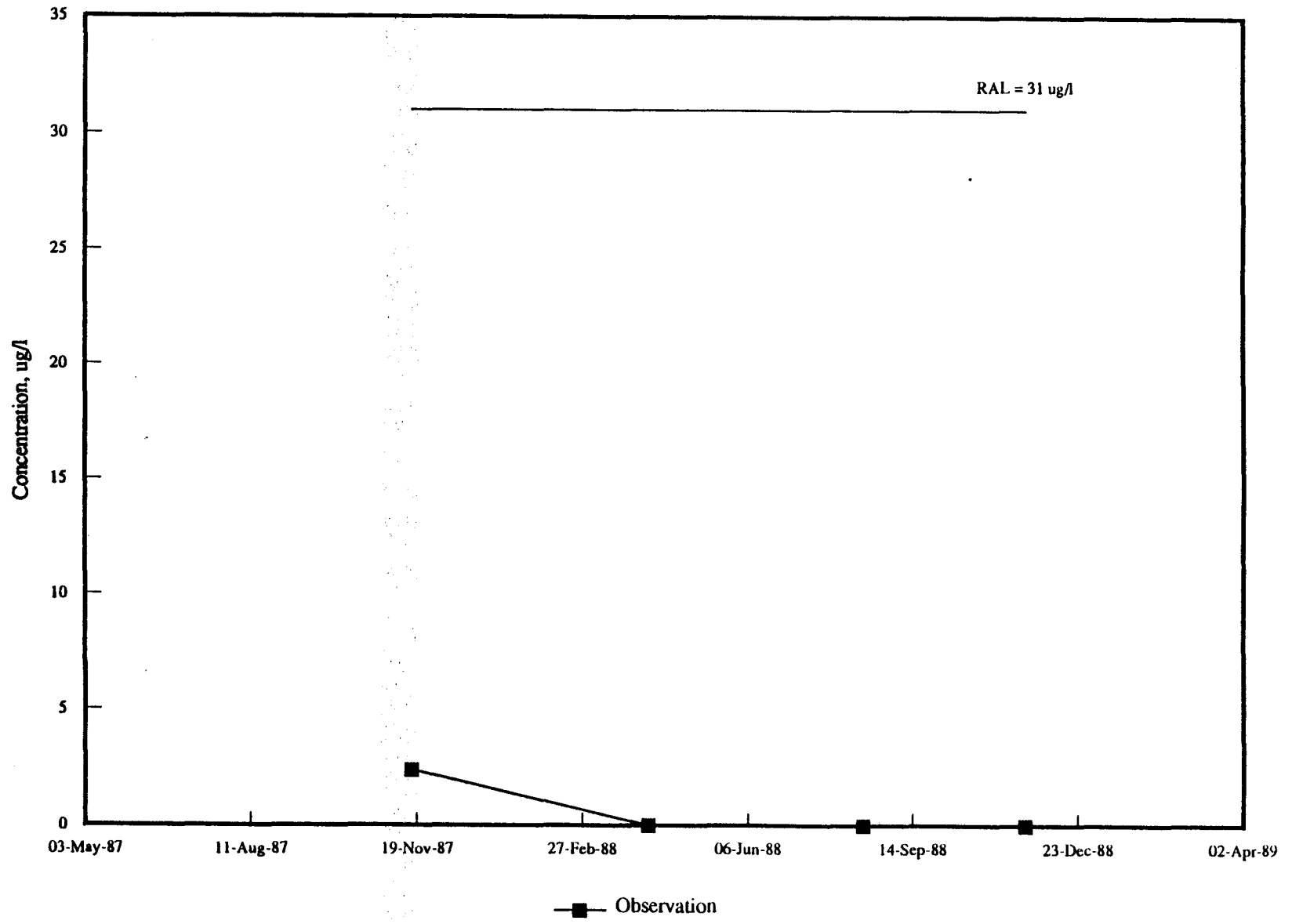
CHROMIUM - WELL 01U051



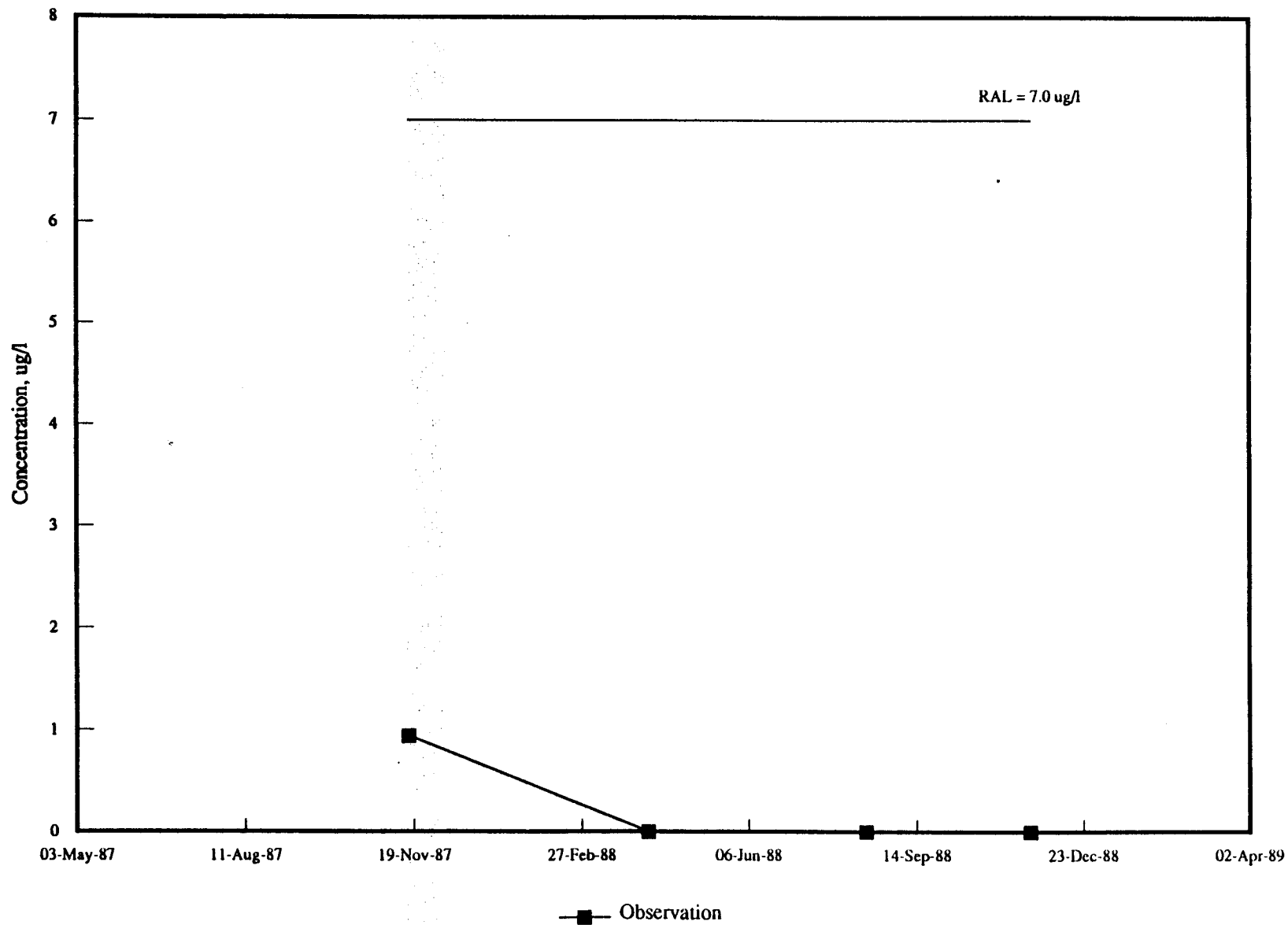
LEAD - WELL 01U051



TRICHLOROETHENE - WELL 01U051

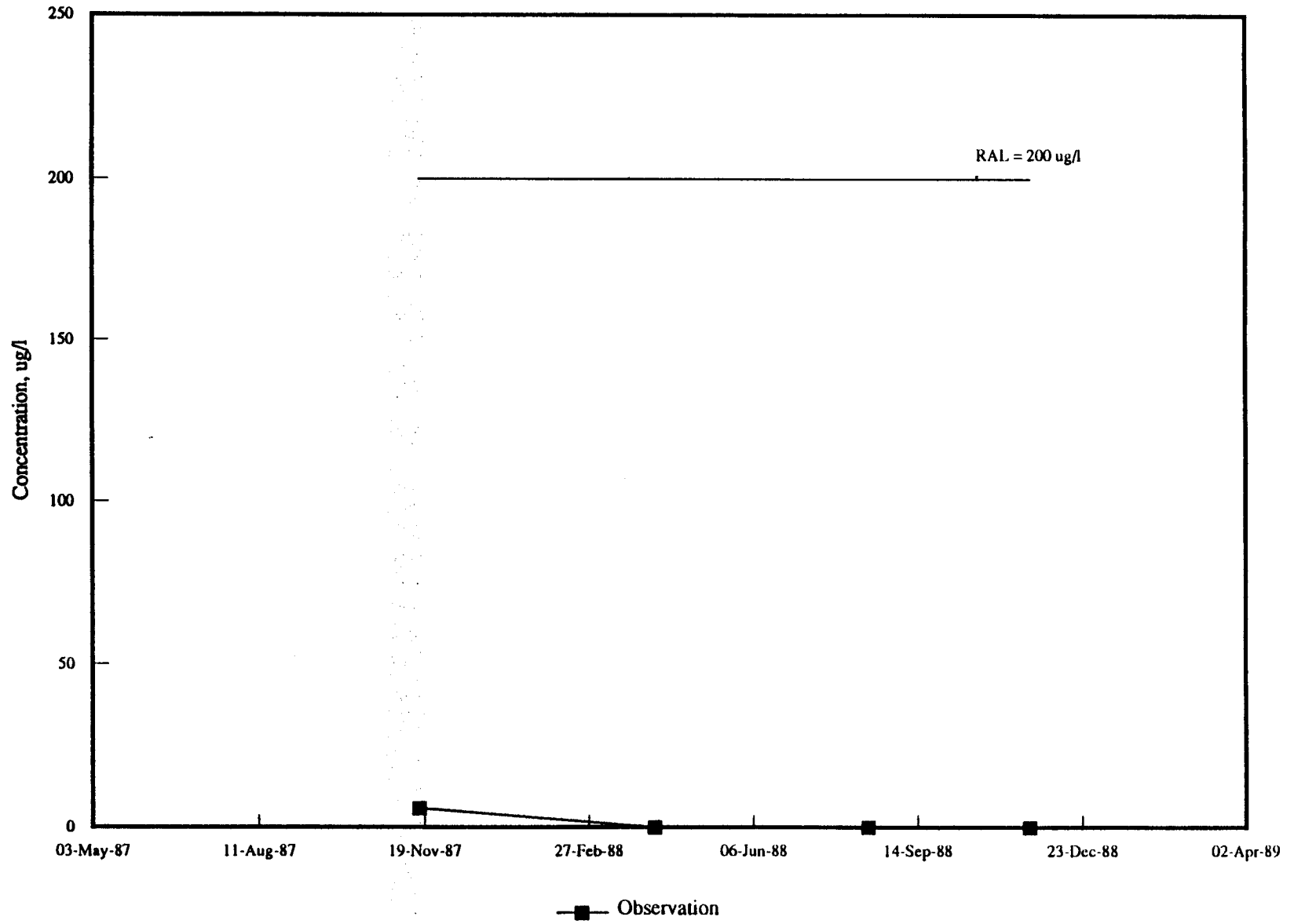


1,1-DICHLOROETHENE - WELL 01U053

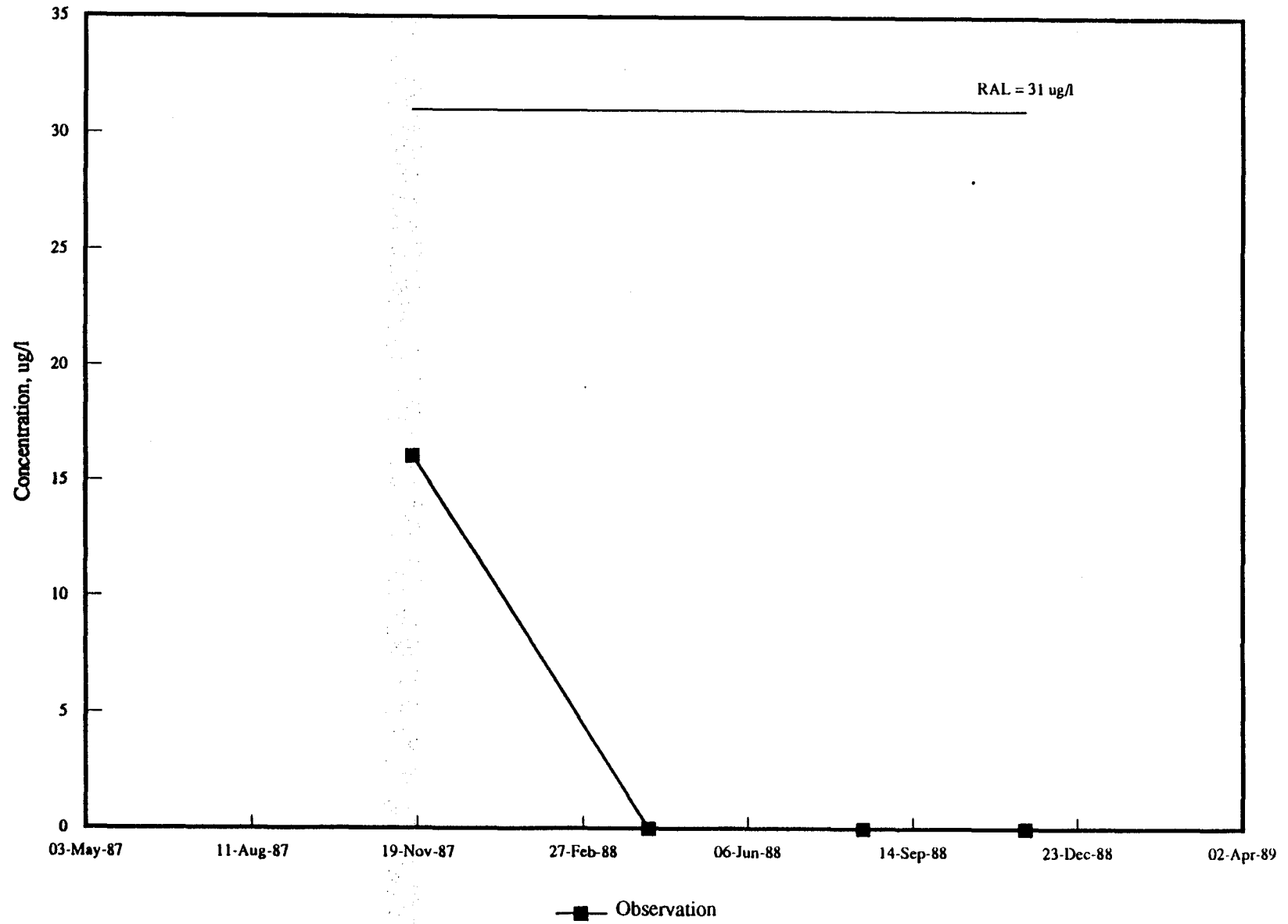




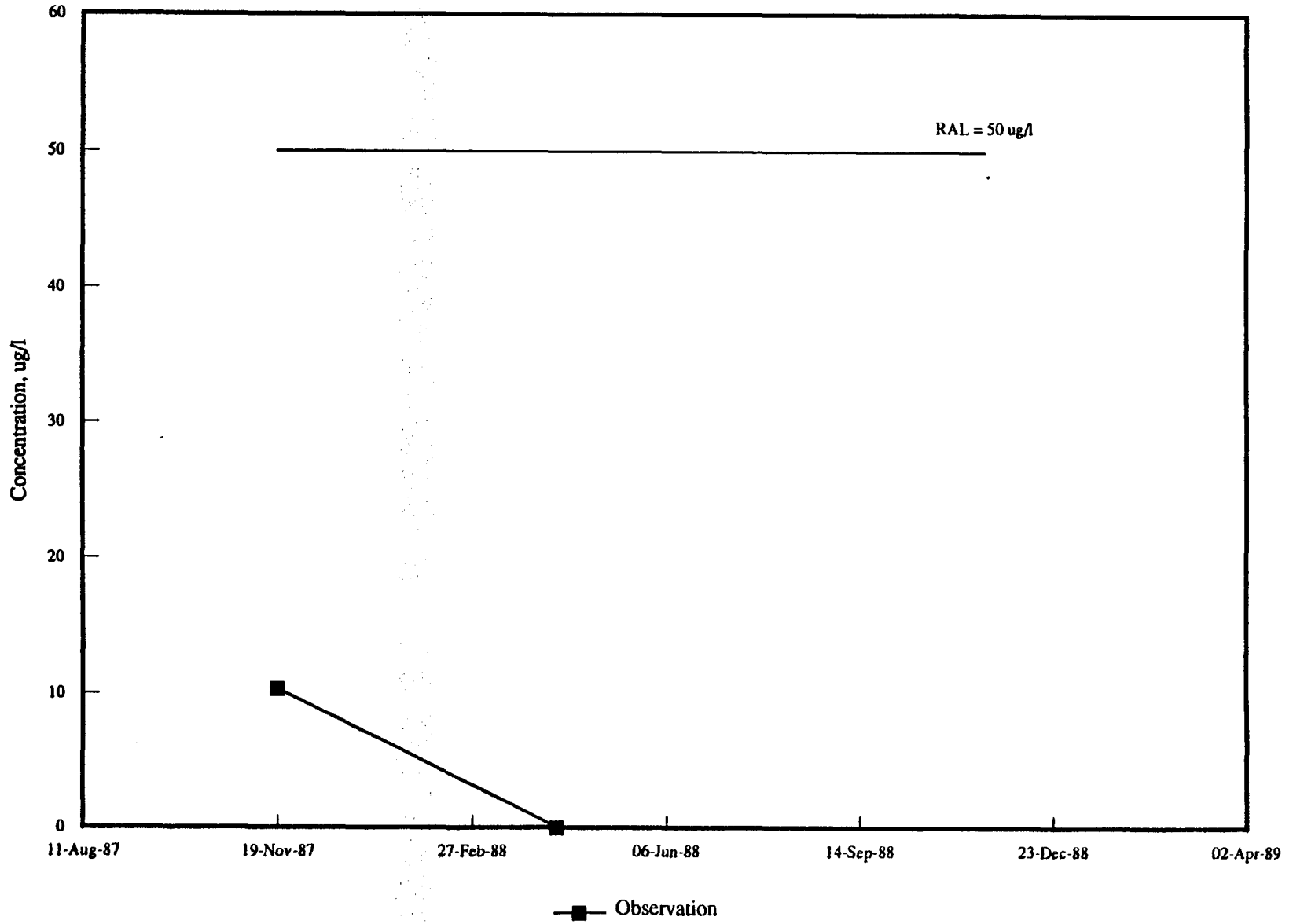
1,1,1-TRICHLOROETHANE - WELL 01U054



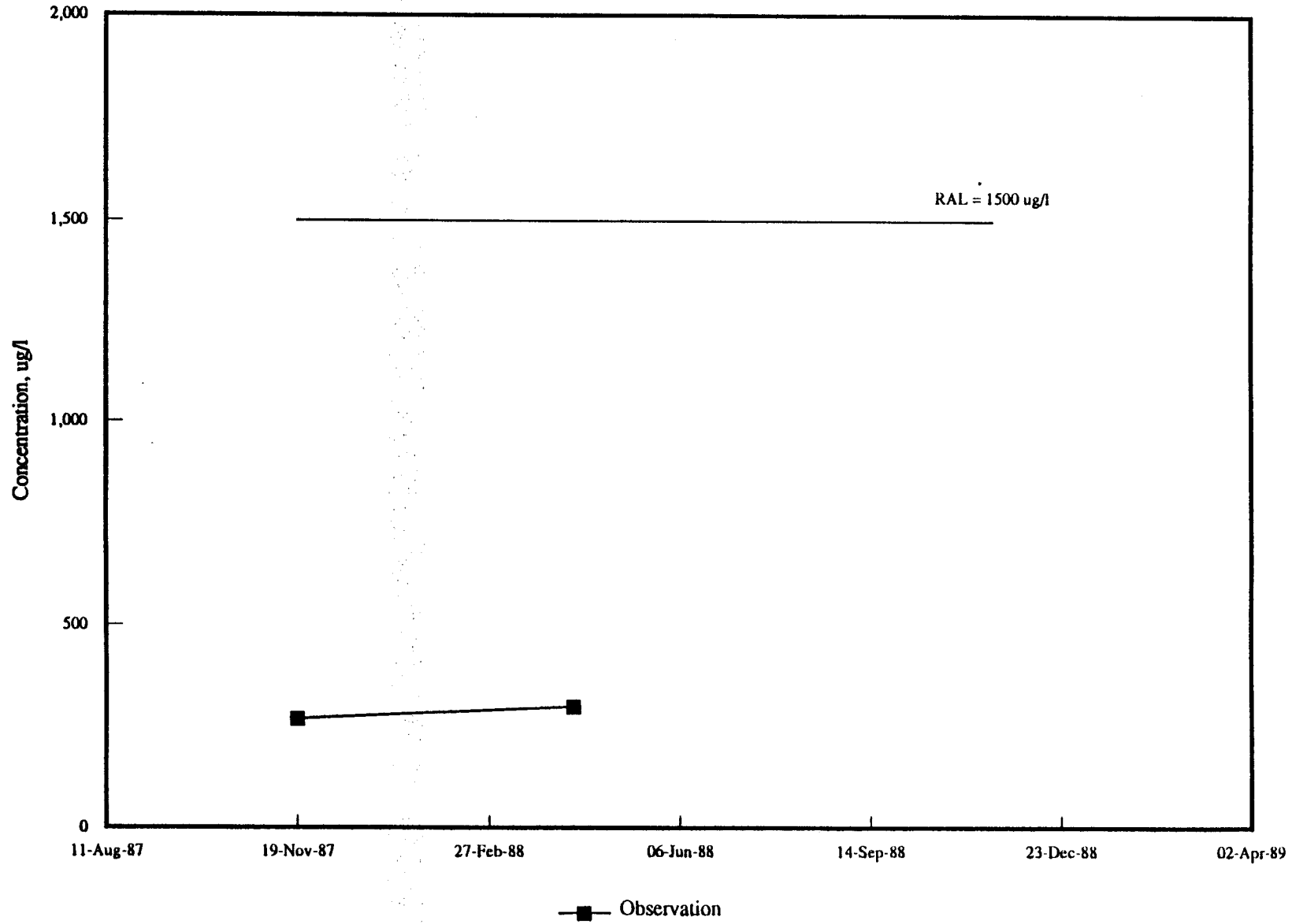
TRICHLOROETHENE - WELL 01U054



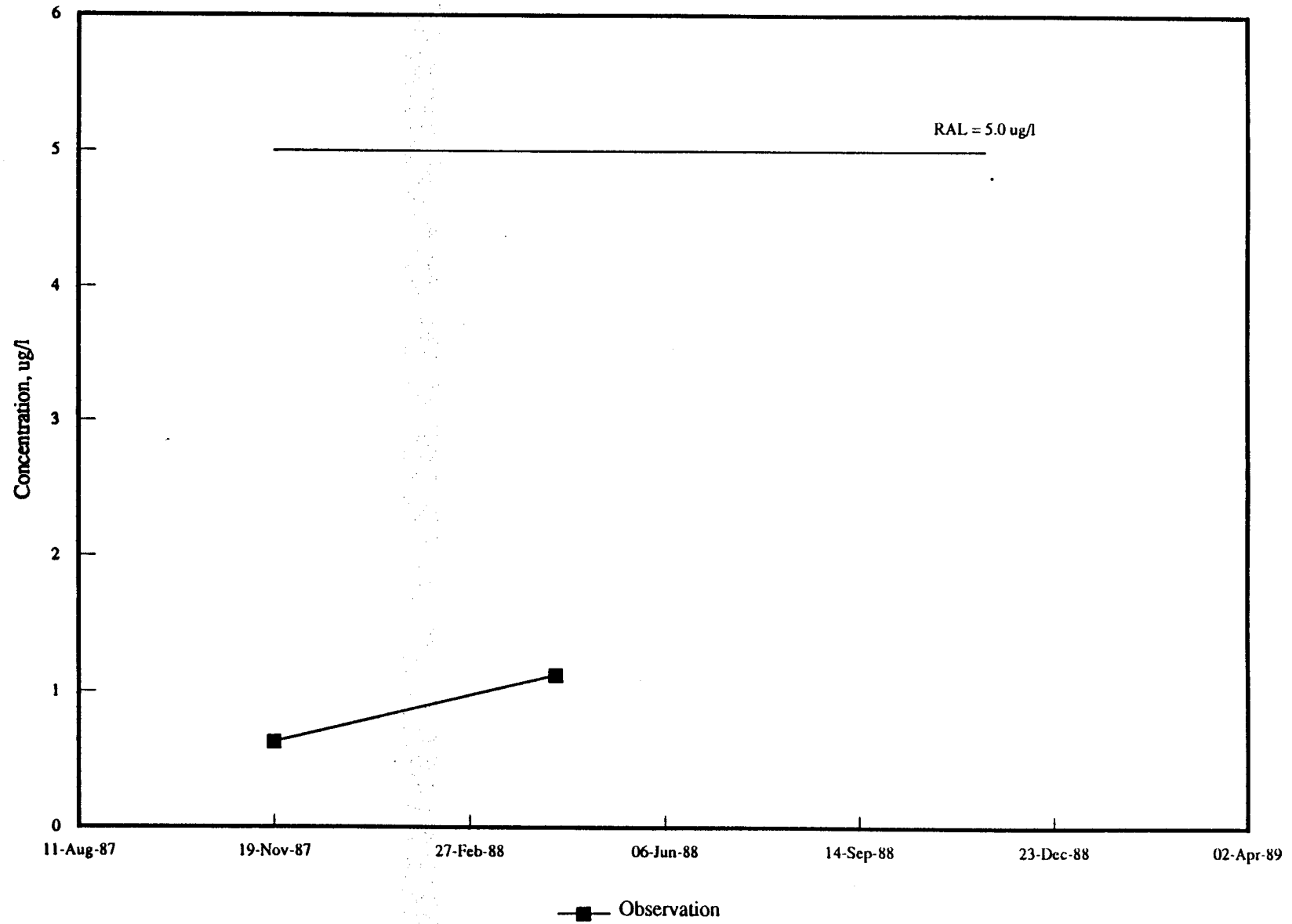
ARSENIC - WELL 01U060



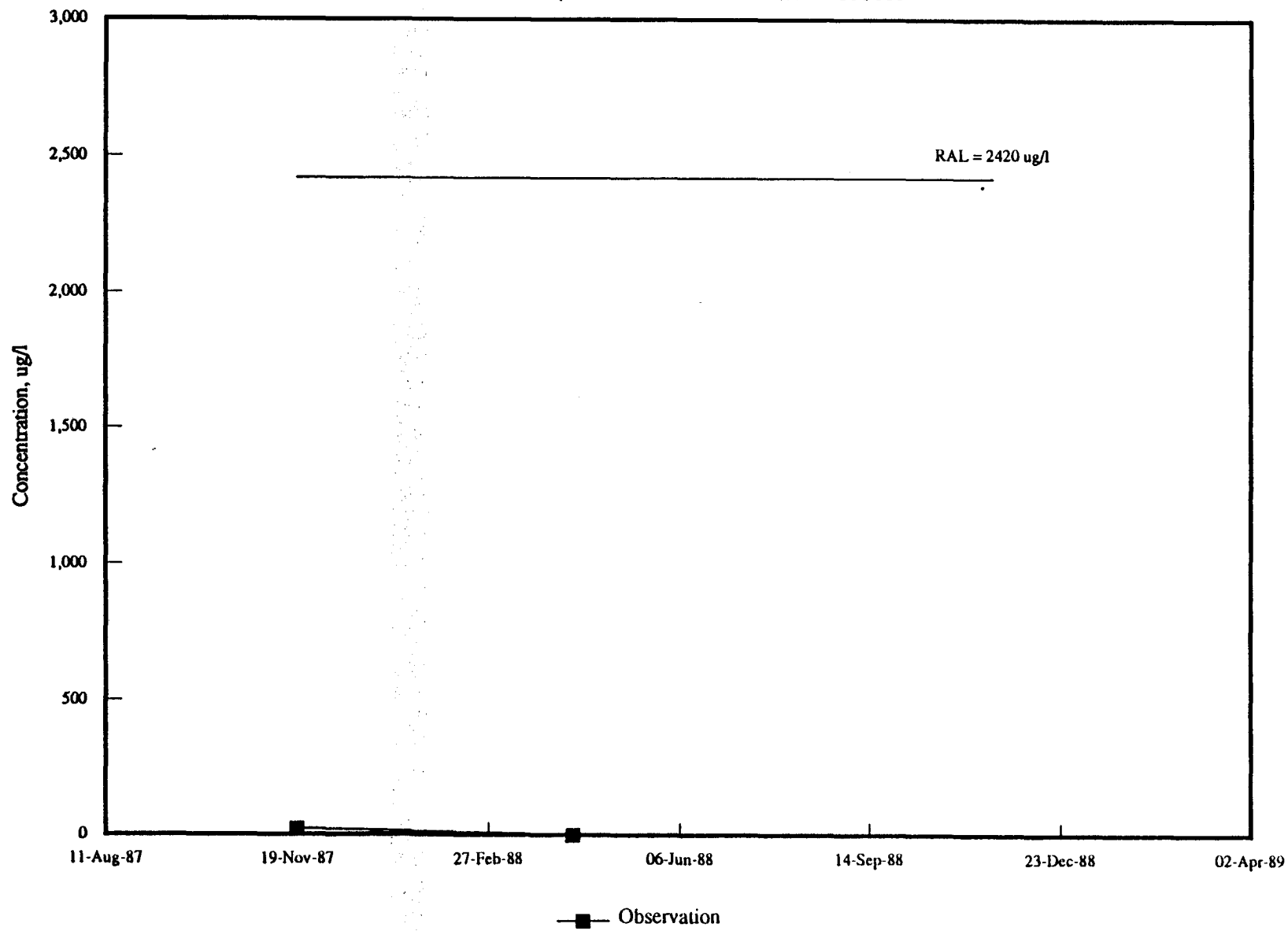
BARIUM - WELL 01U060



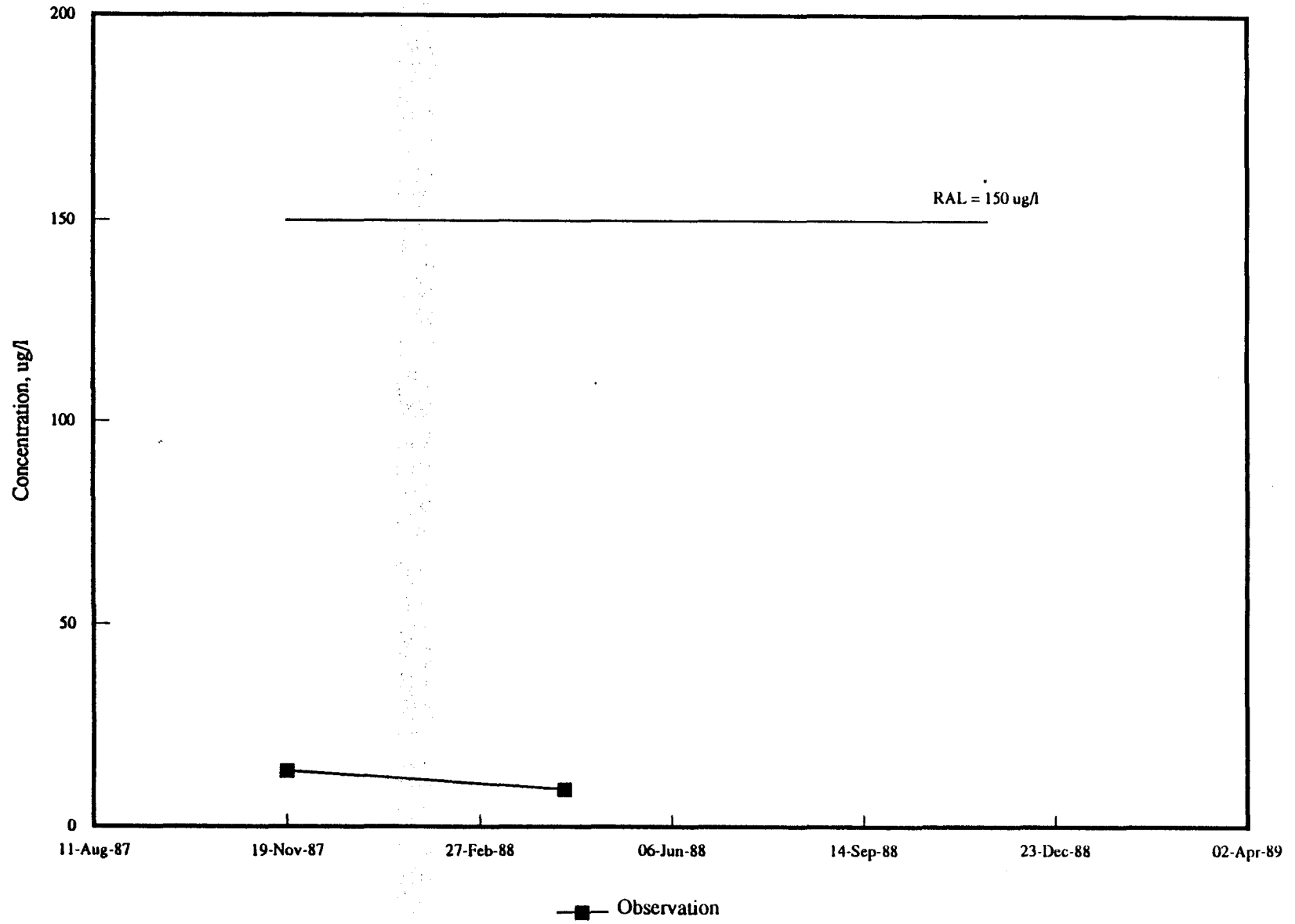
CADMIUM - WELL 01U060



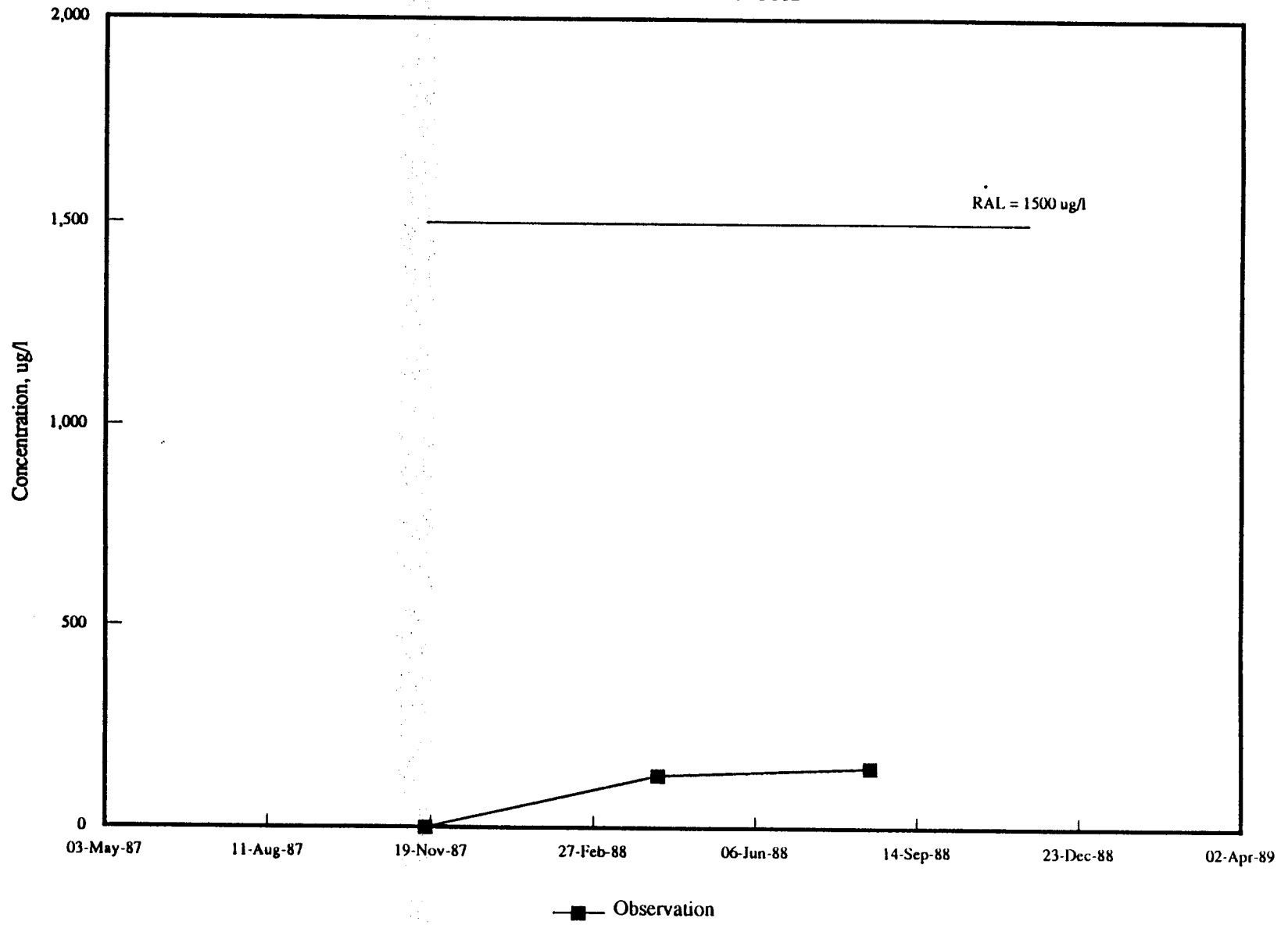
TOLUENE / METHYL BENZENE - WELL 01U060



NICKEL - WELL 01U060

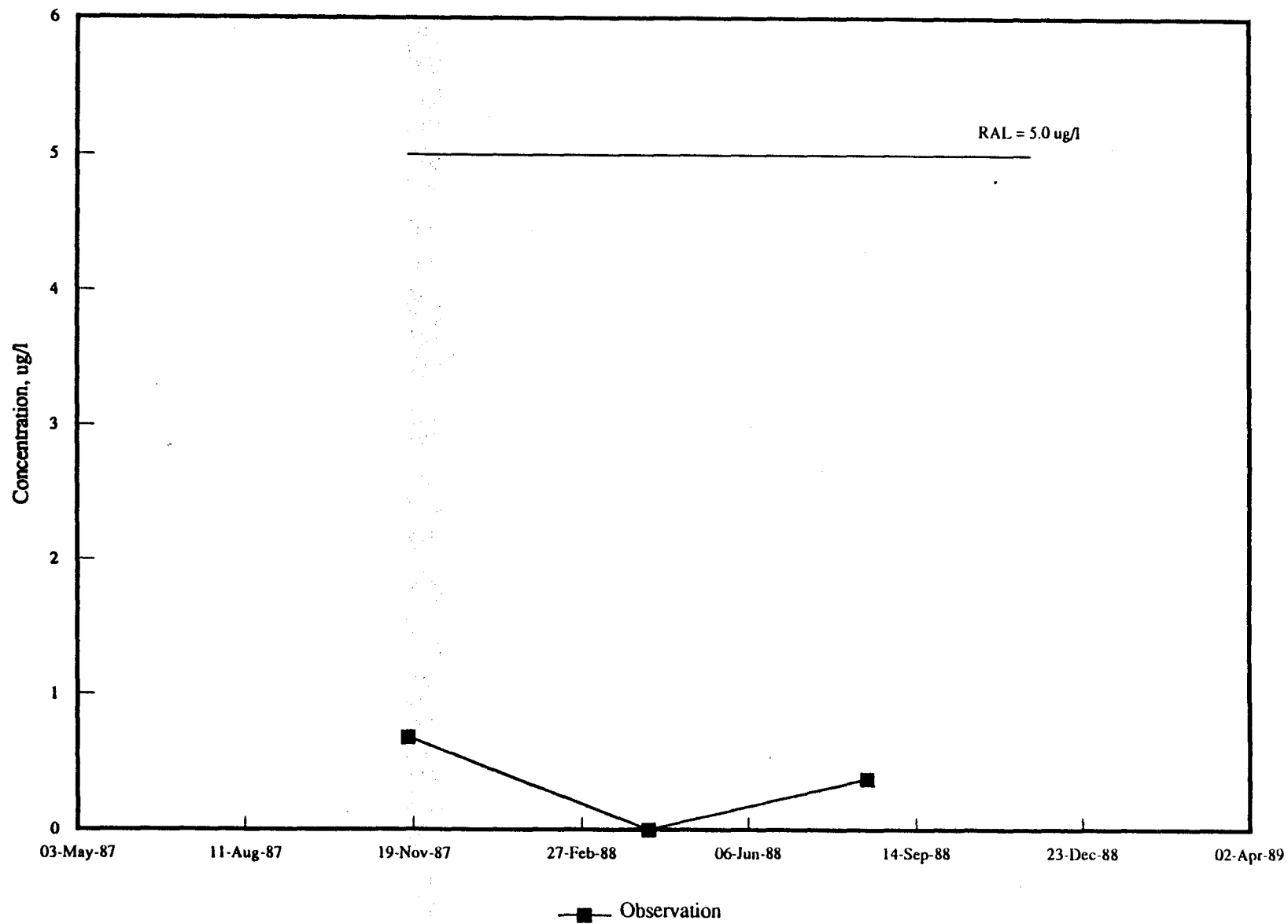


BARIUM - WELL 01U062

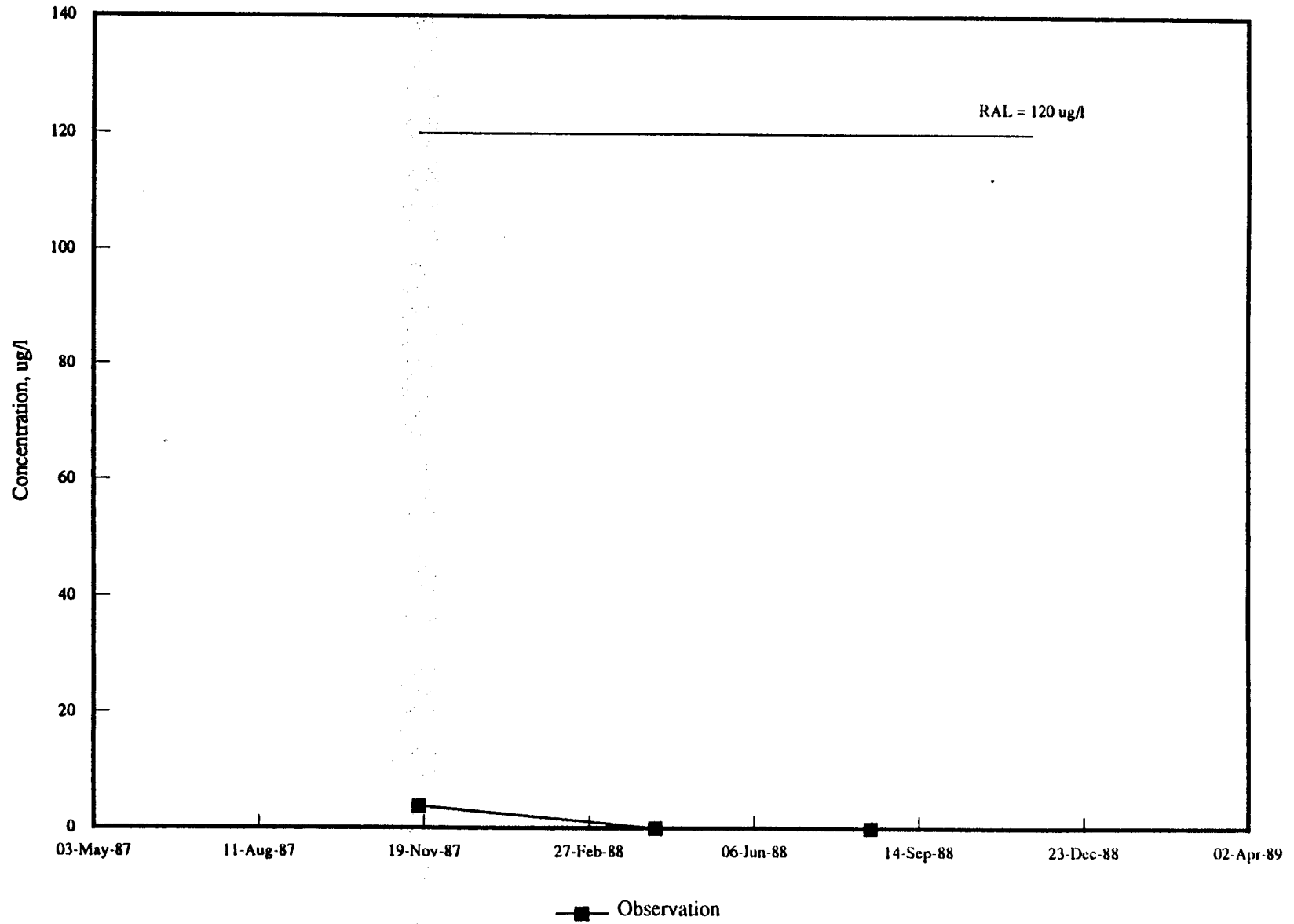




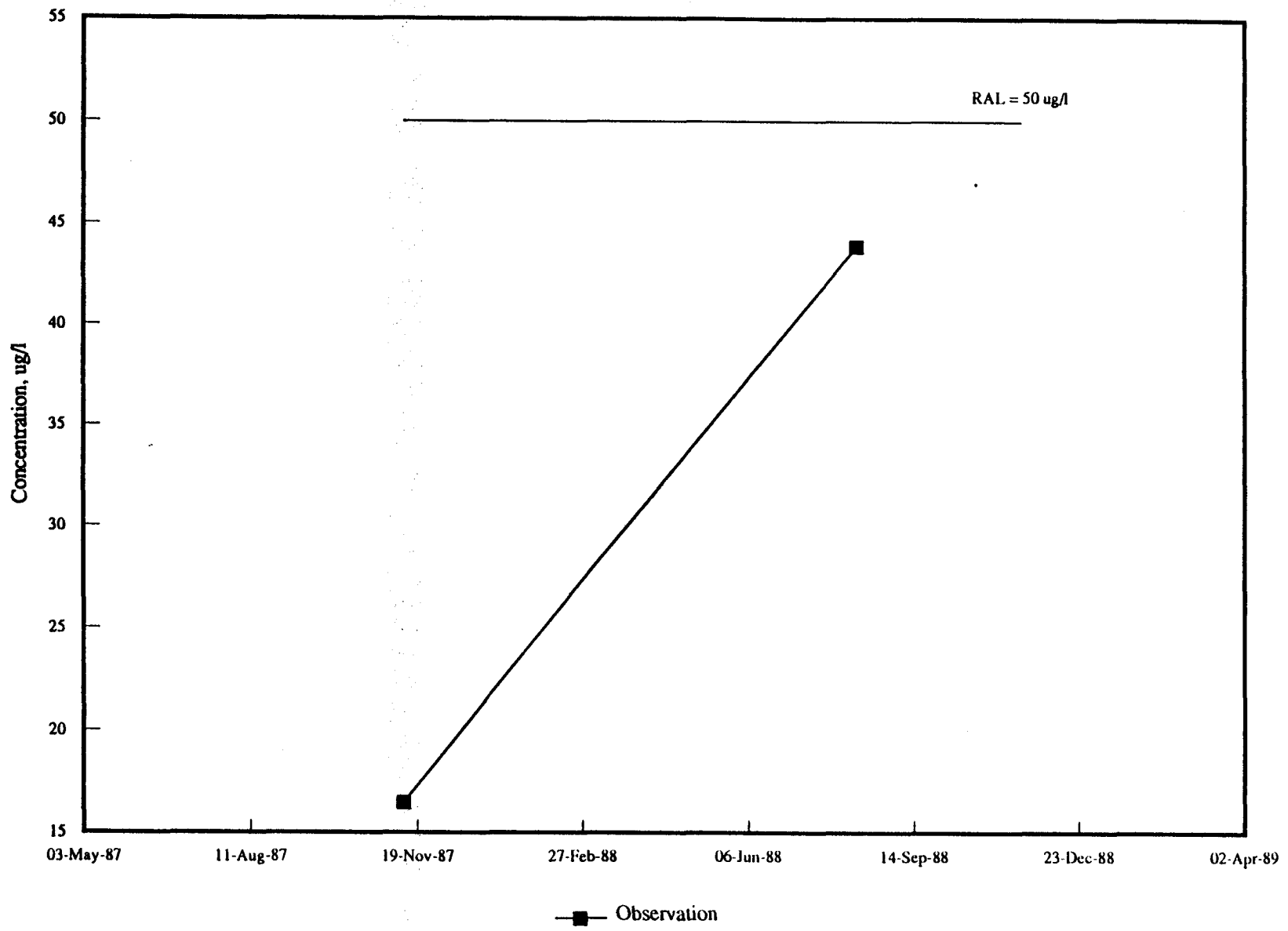
CADMIUM - WELL 01U062



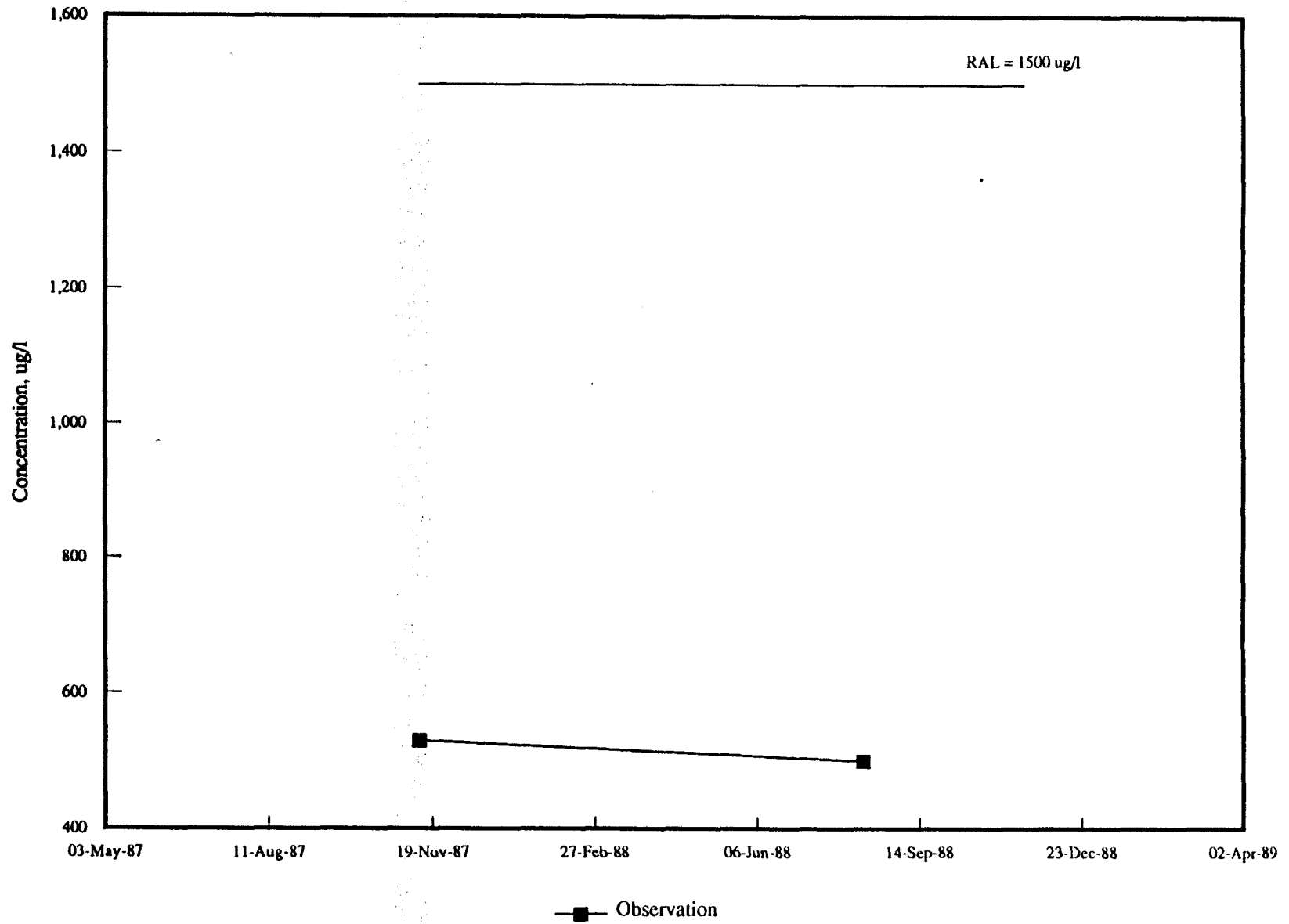
CHROMIUM - WELL 01U062



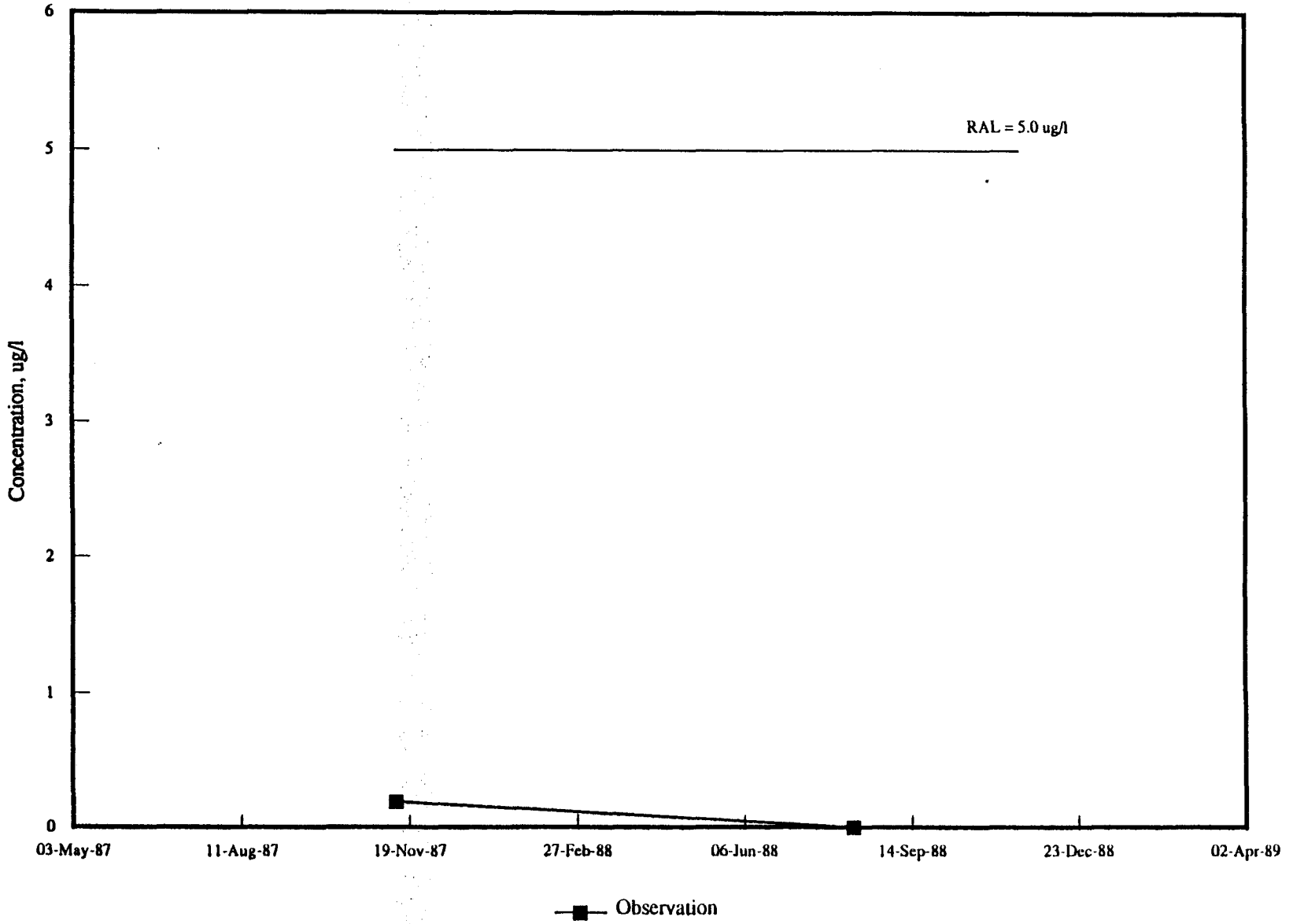
ARSENIC - WELL 01U085



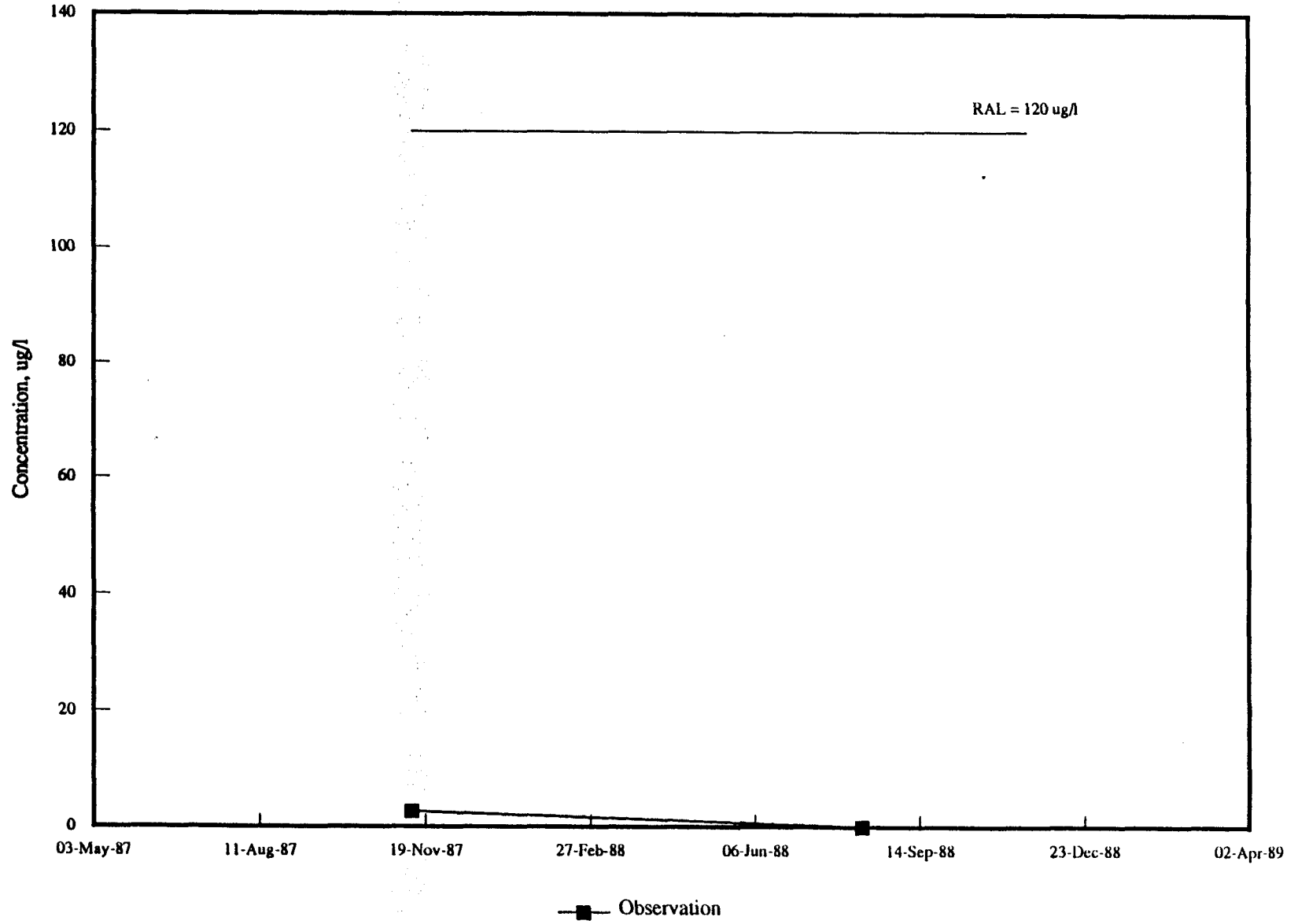
BARIUM - WELL 01U085



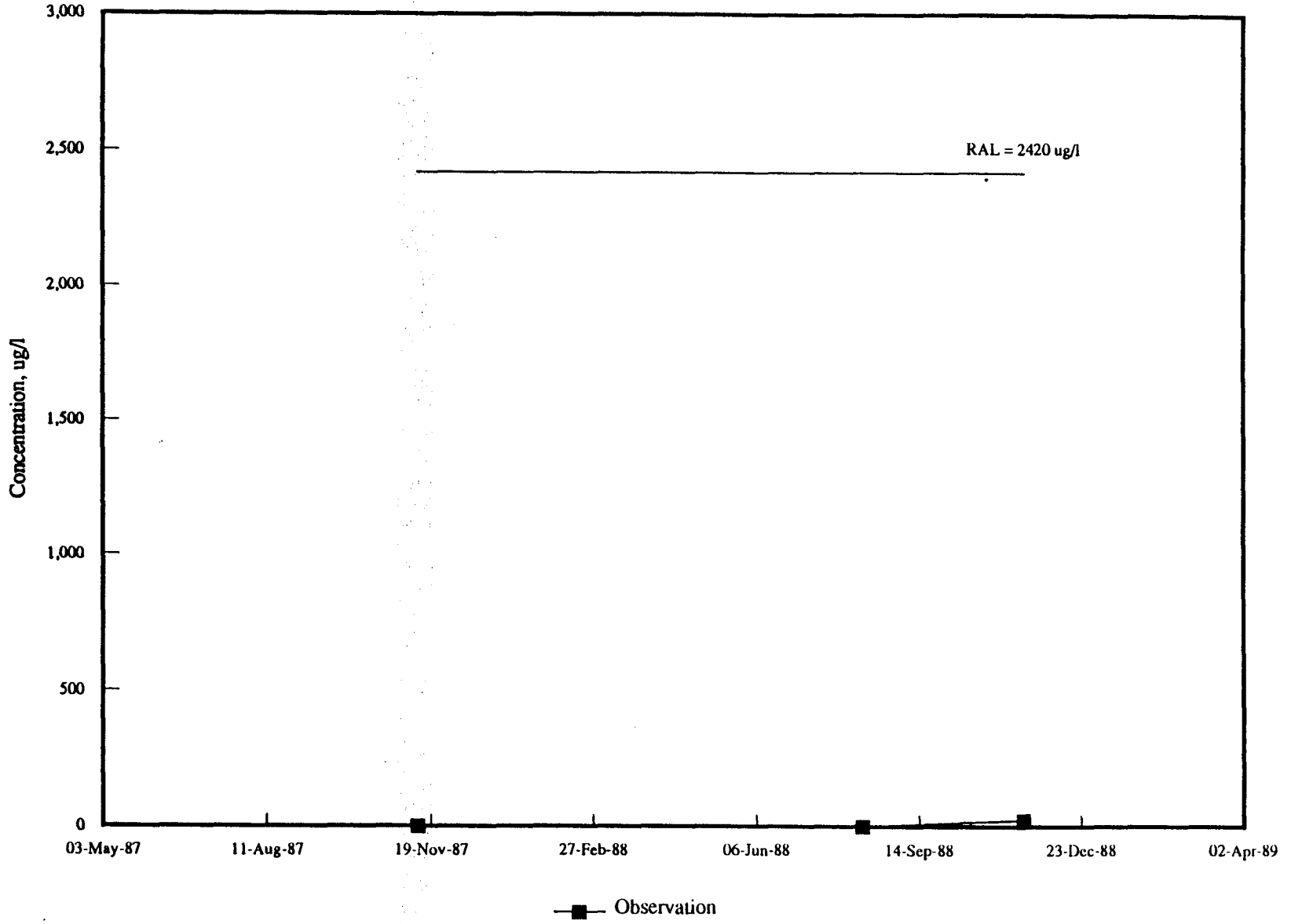
CADMIUM - WELL 01U085



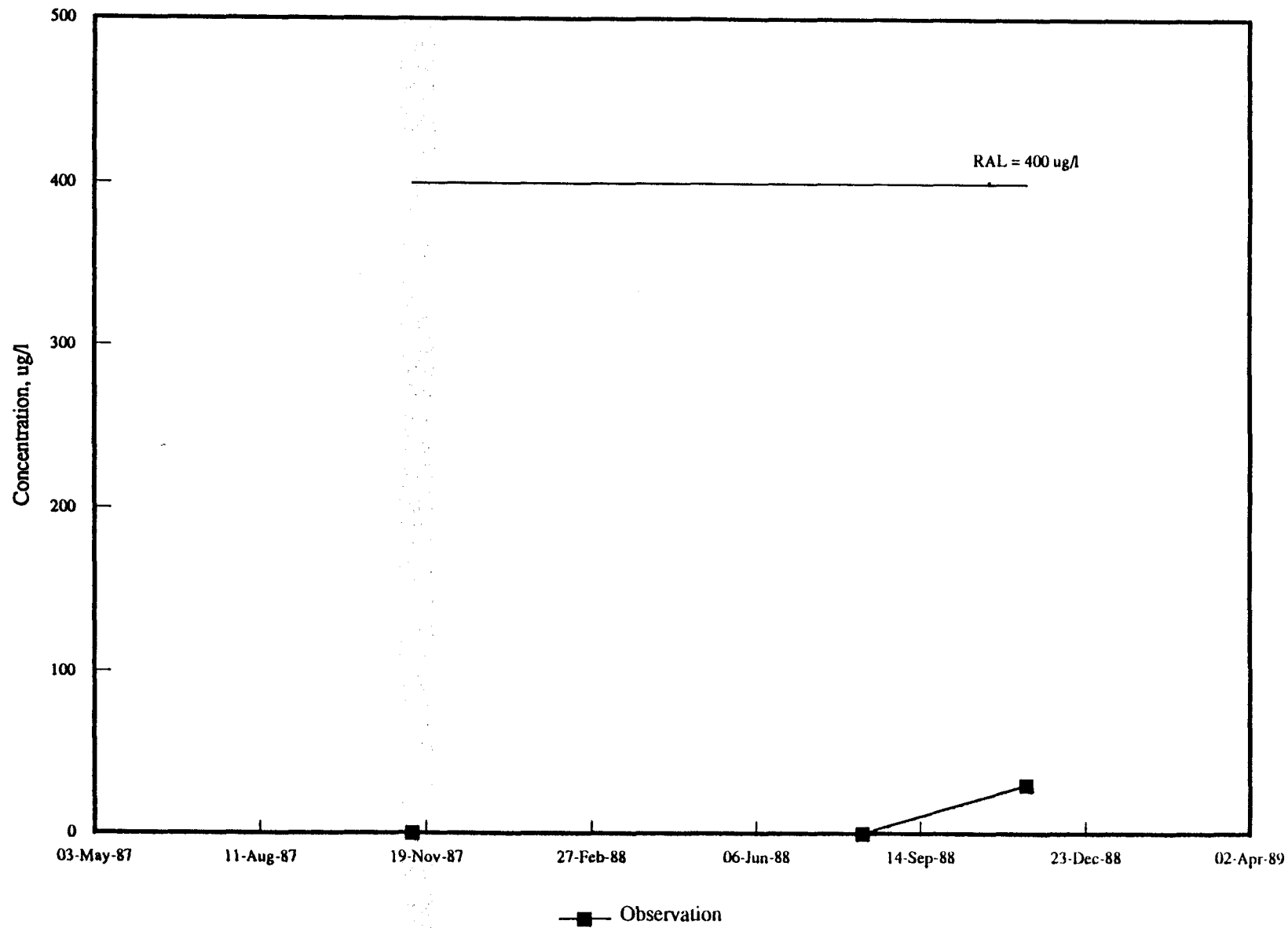
CHROMIUM - WELL 01U085



TOLUENE / METHYL BENZENE - WELL 01U085

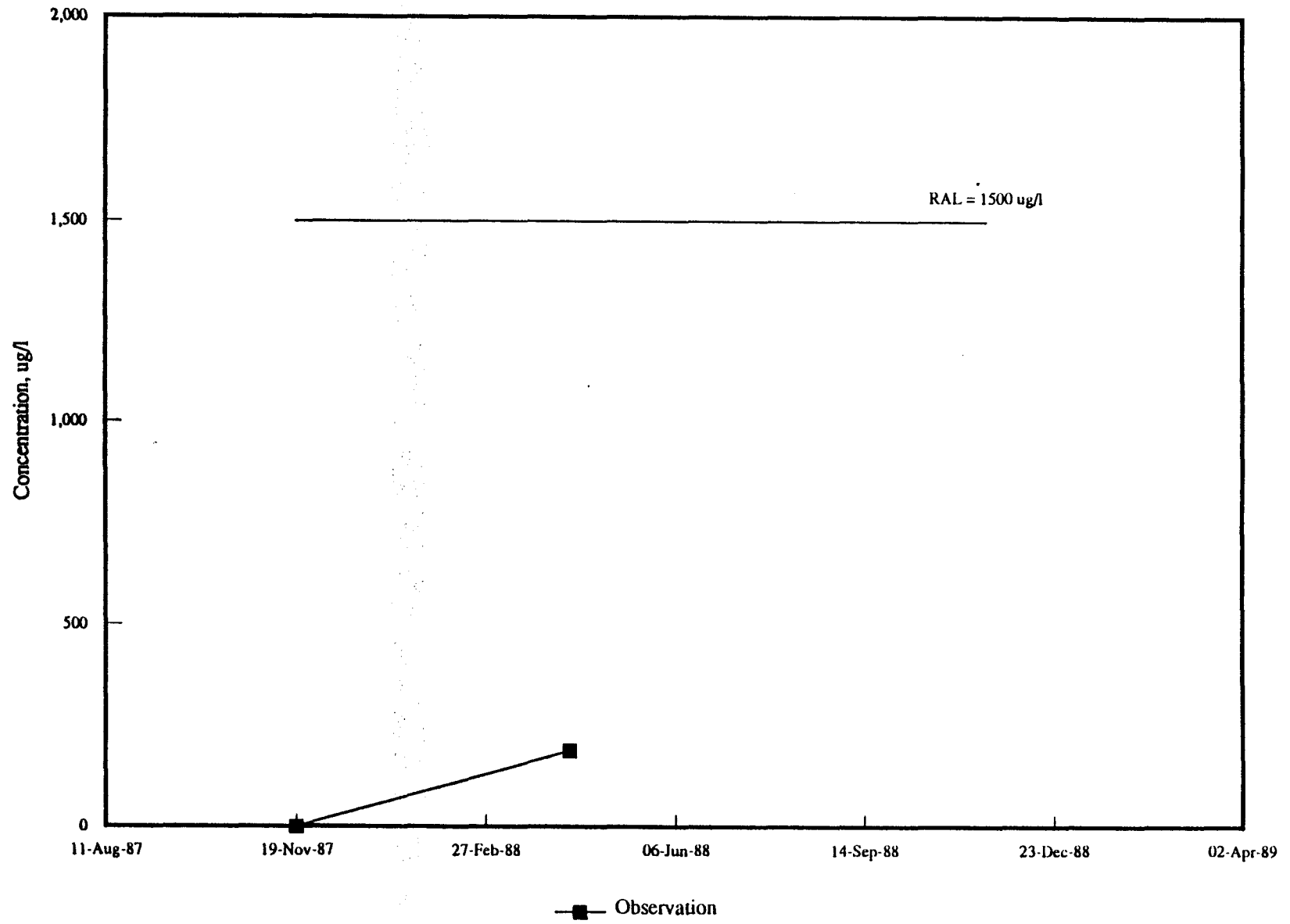


TOTAL XYLENES - WELL 01U085

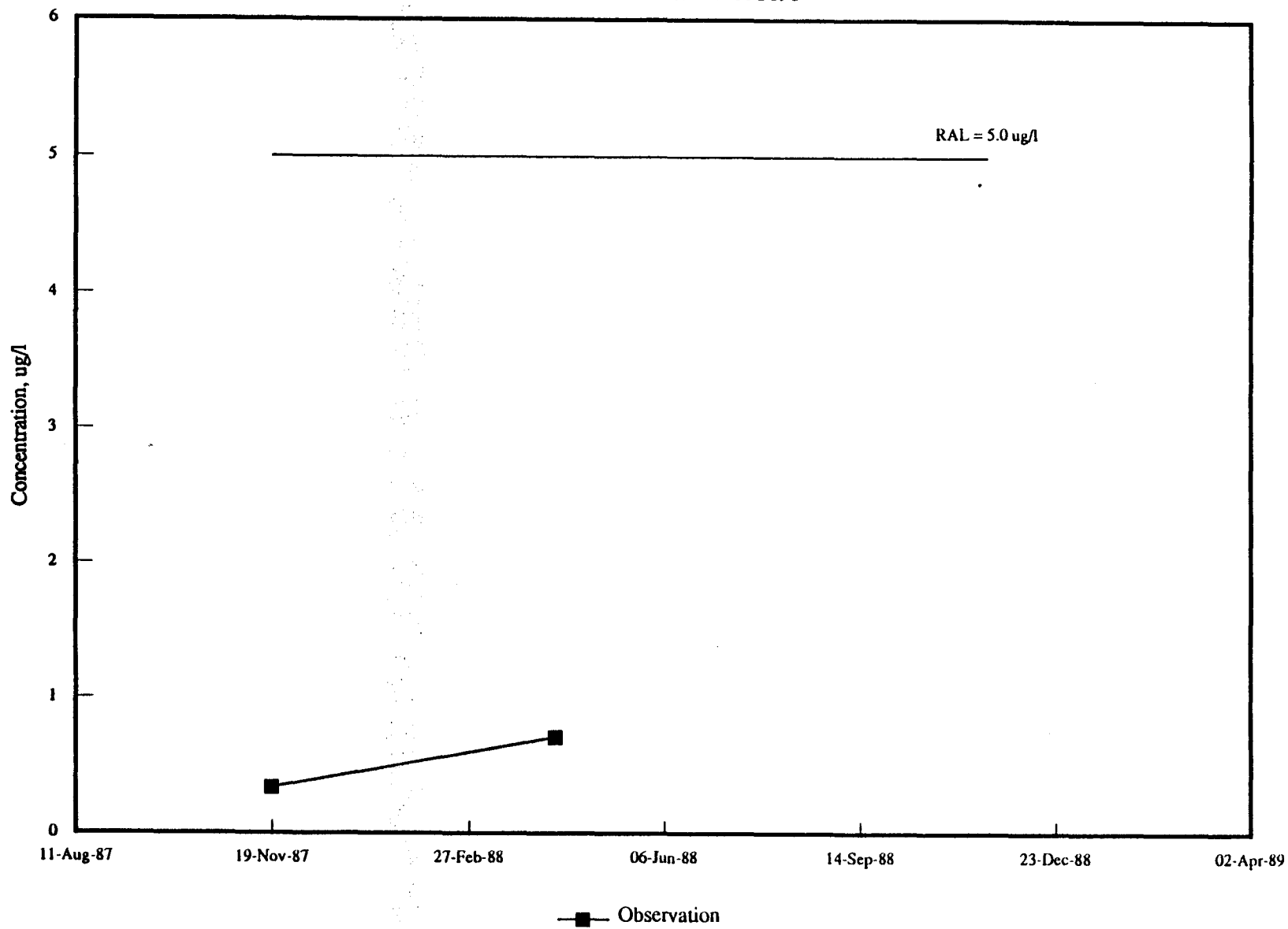




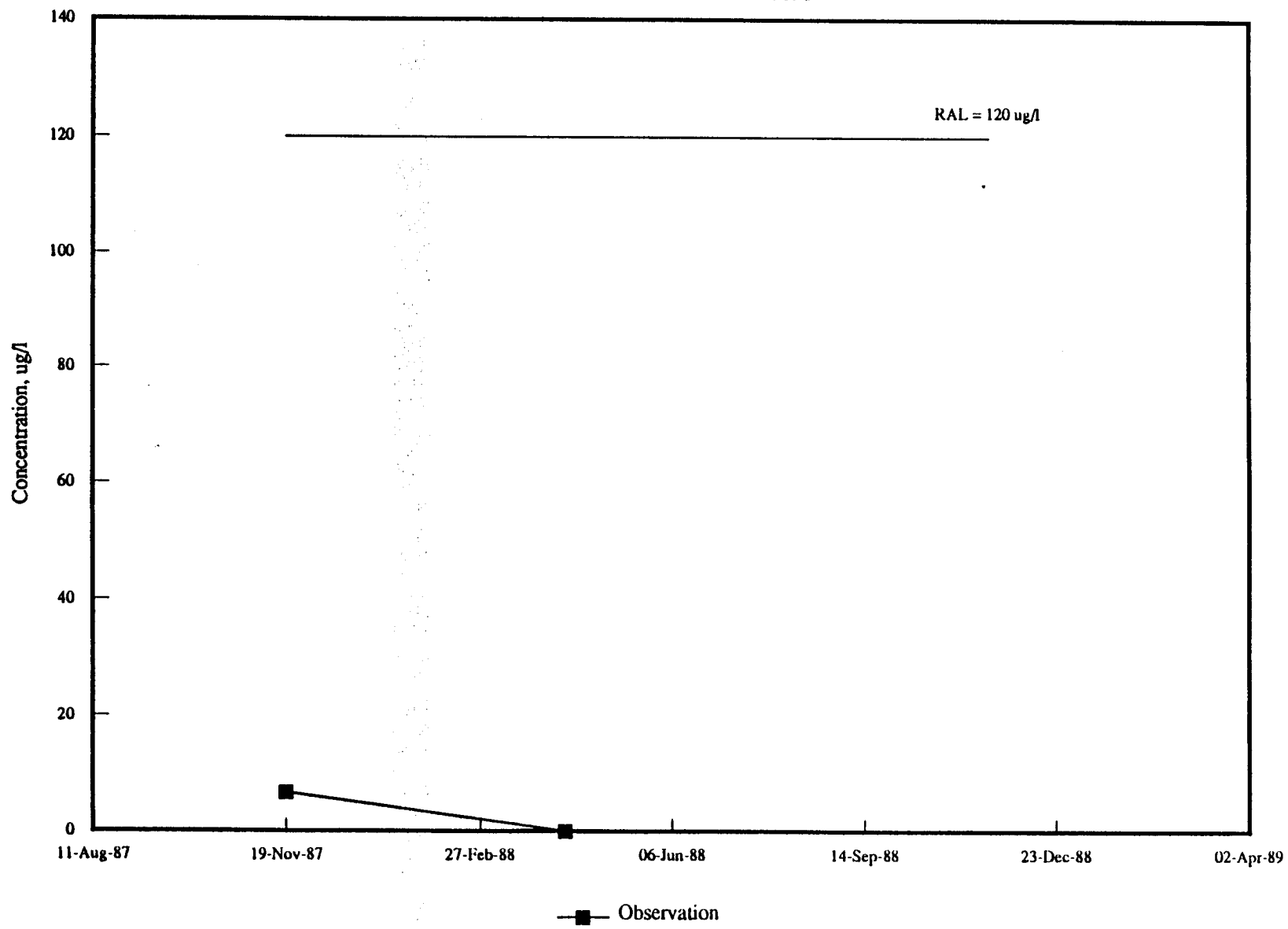
BARIUM - WELL 01U098



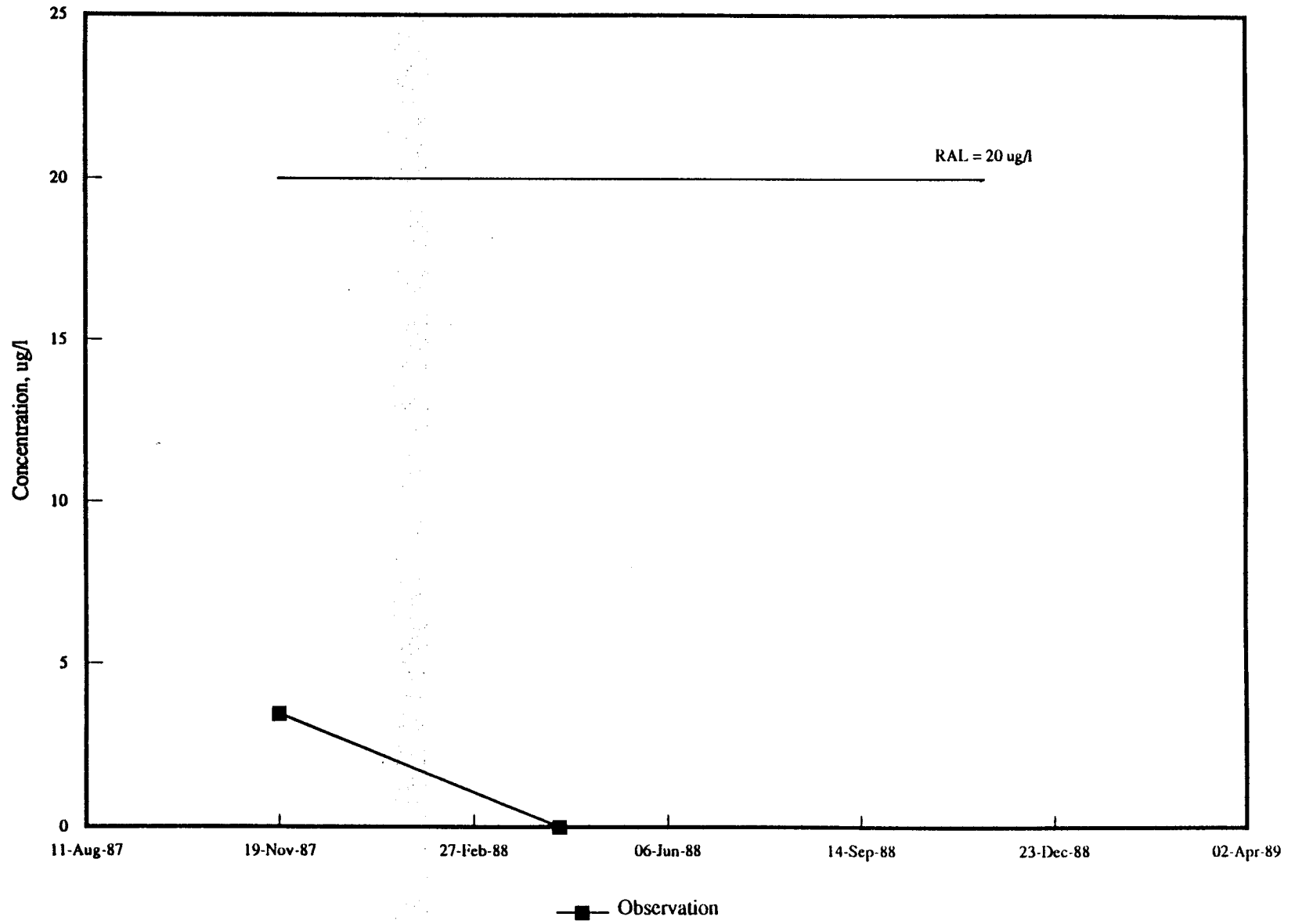
CADMIUM - WELL 01U098



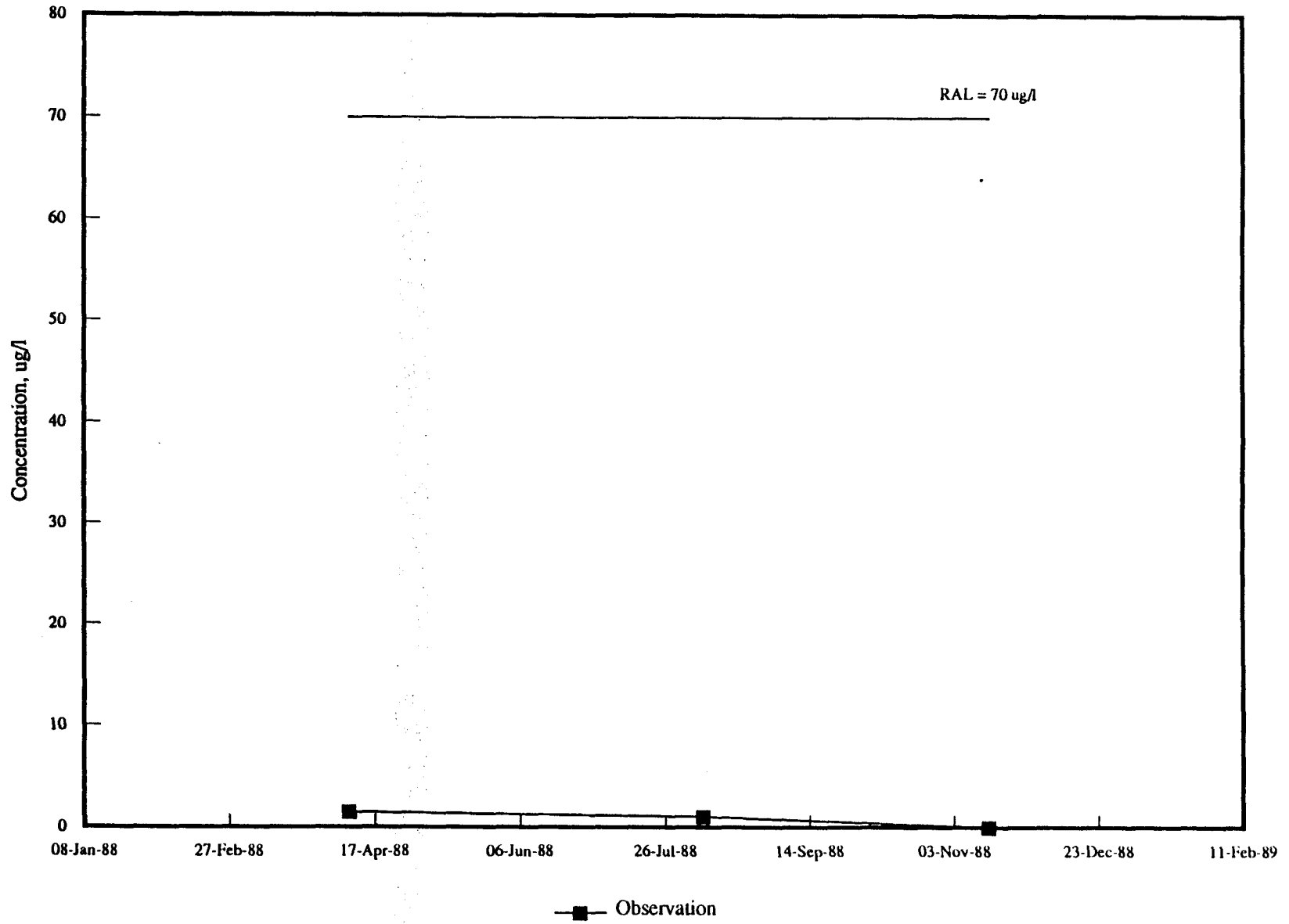
CHROMIUM - WELL 01U098



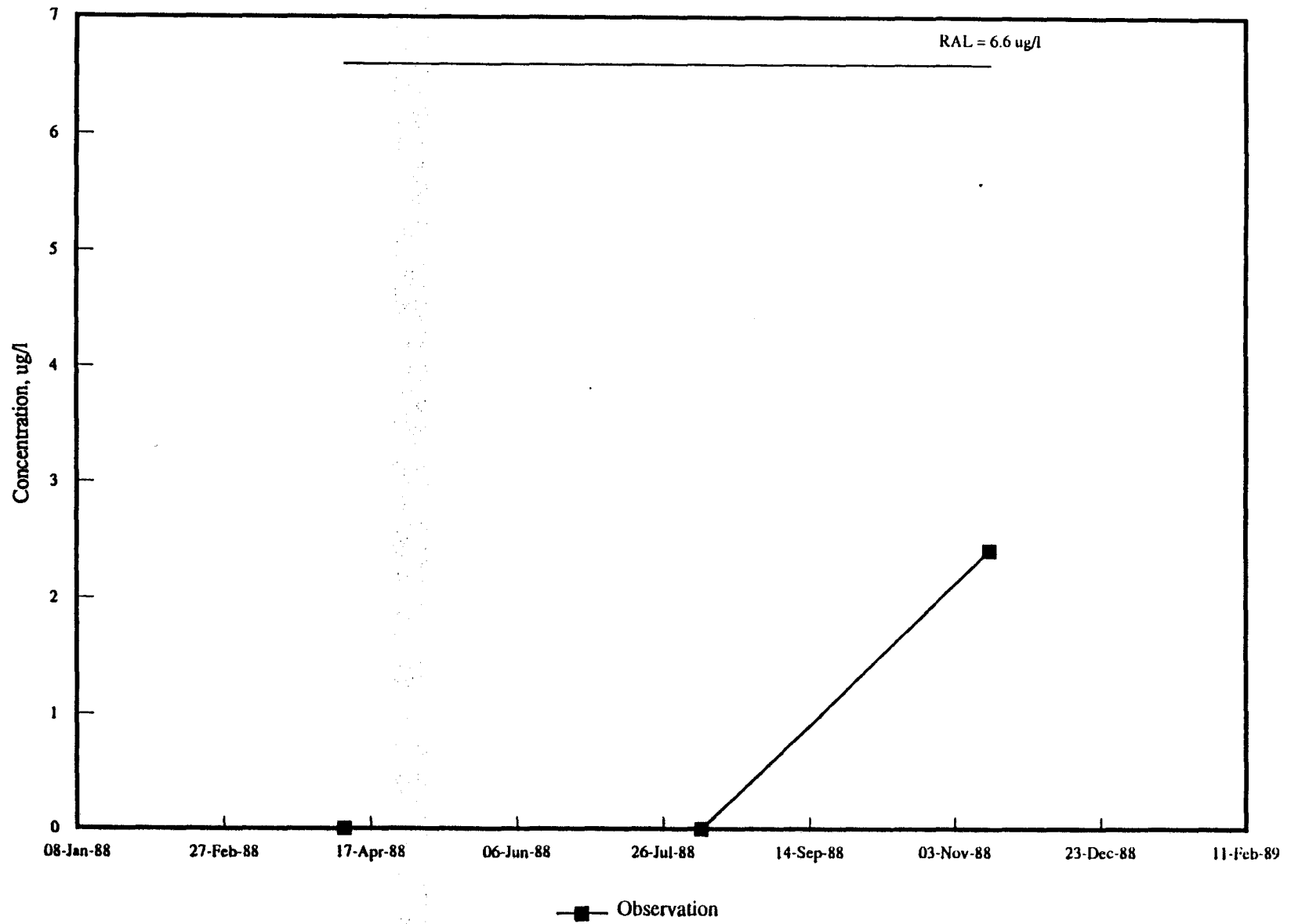
LEAD - WELL 01U098



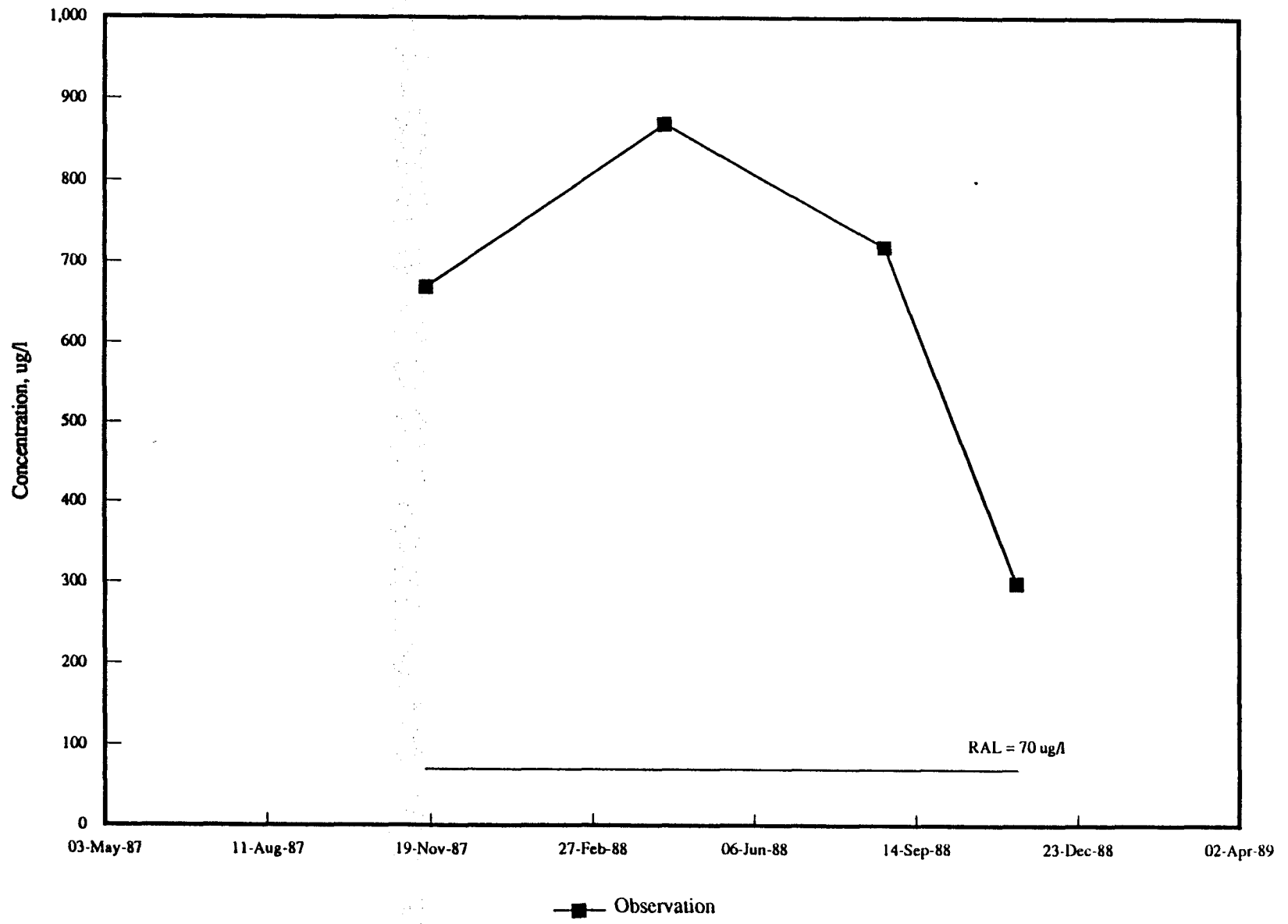
1,2-DICHLOROETHENE - WELL 01U107



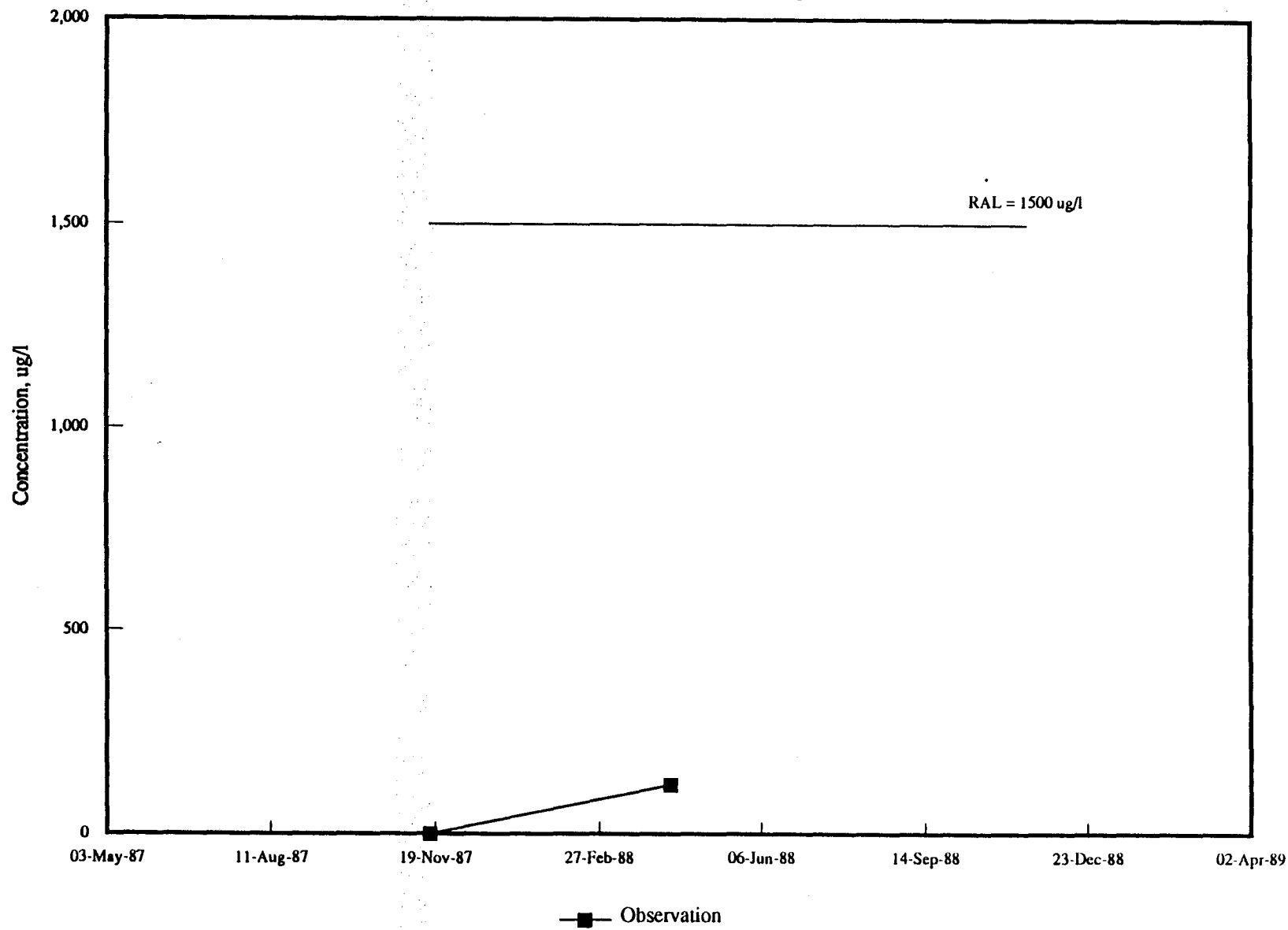
TETRACHLOROETHENE - WELL 01U107



1,2-DICHLOROETHENE - WELL 01U108

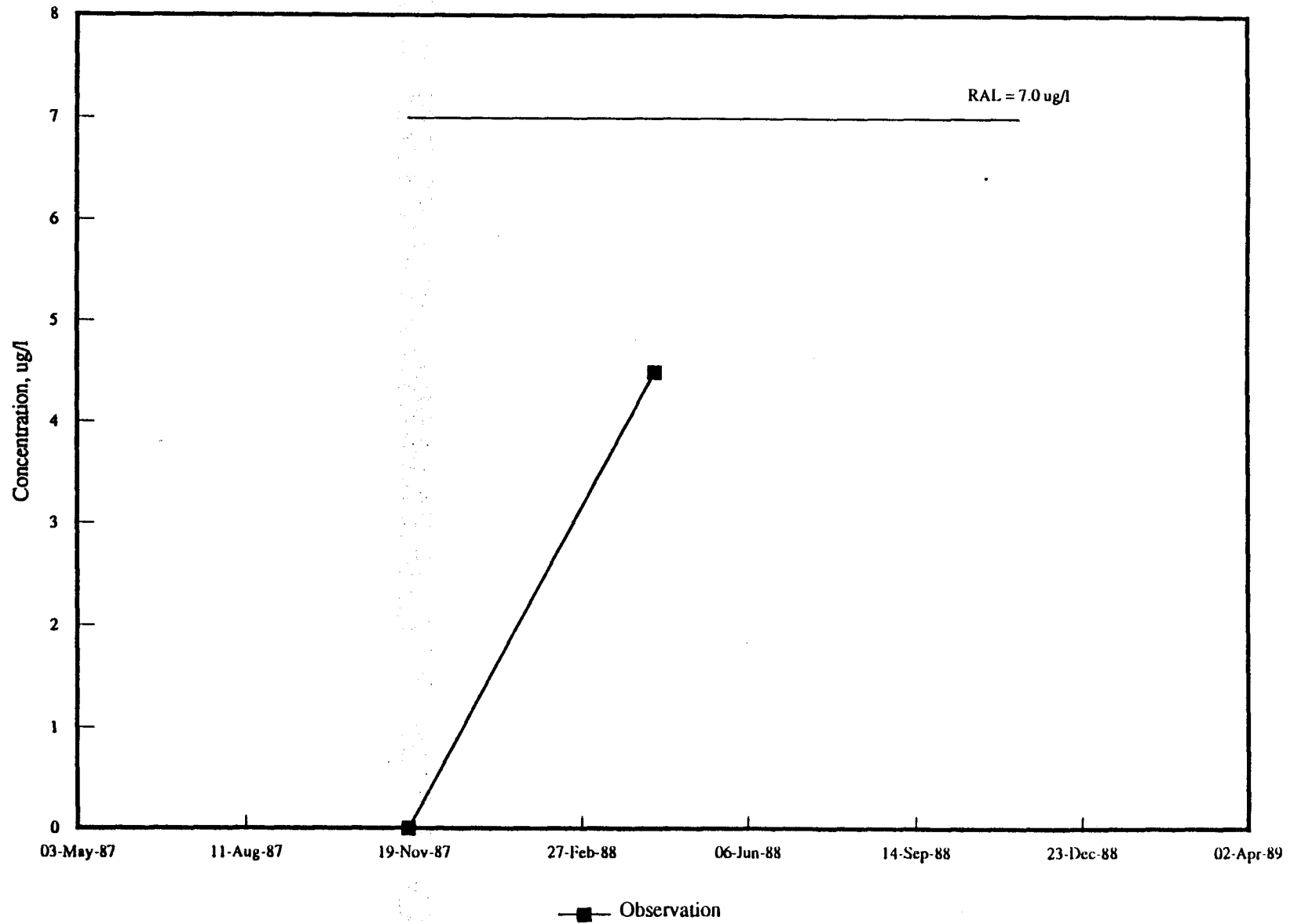


BARIUM - WELL 01U108

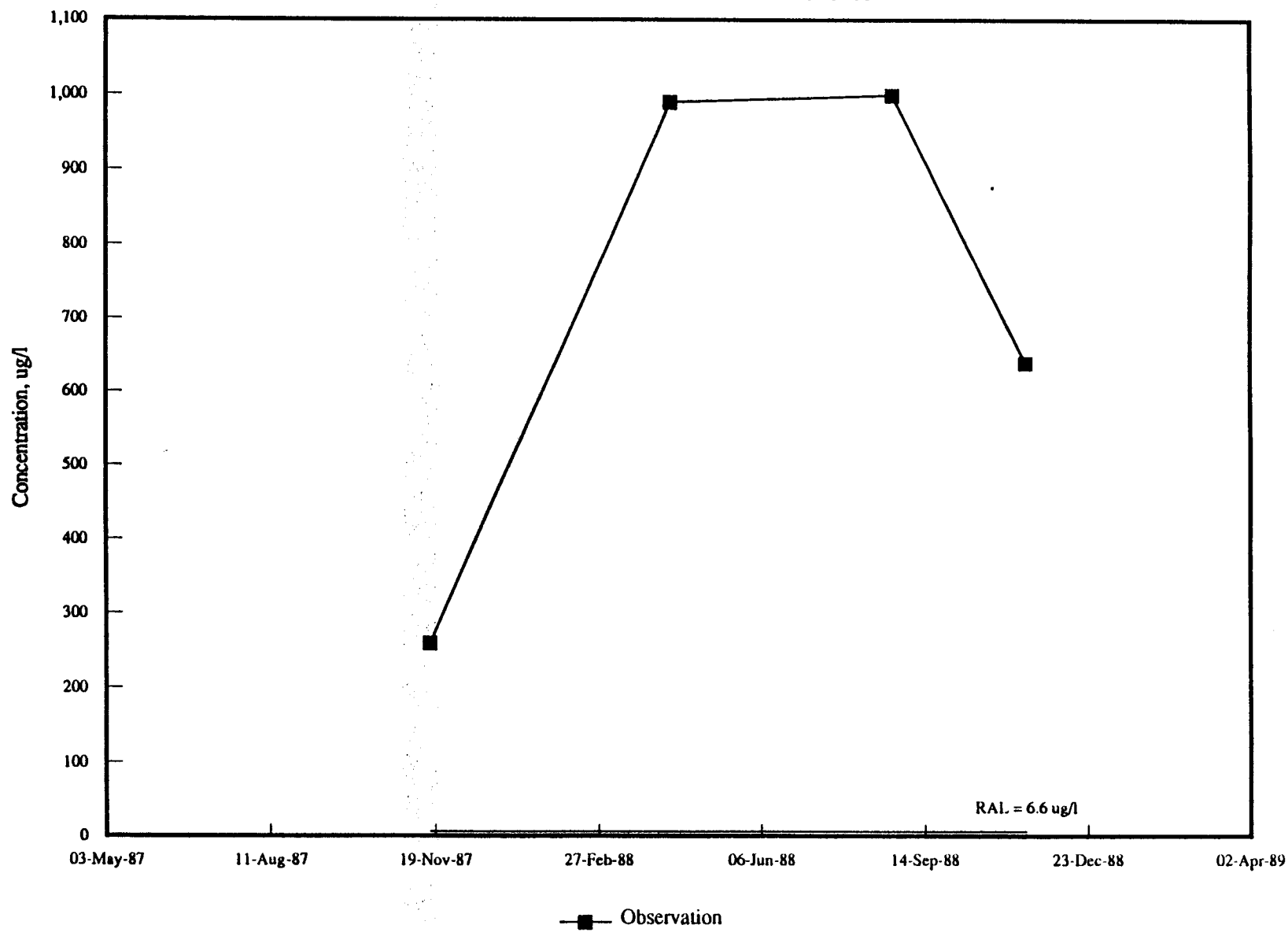




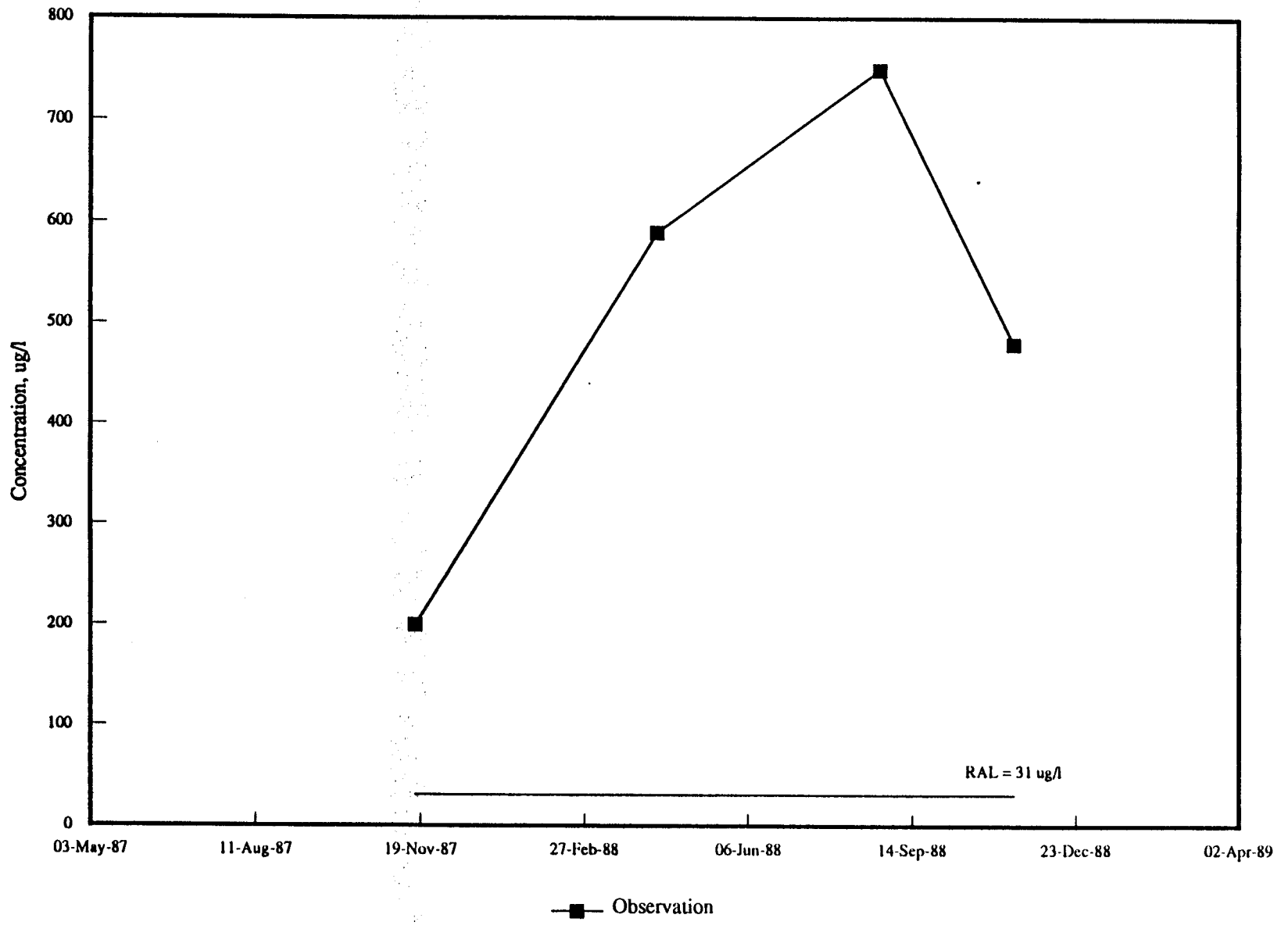
BENZENE - WELL 01U108



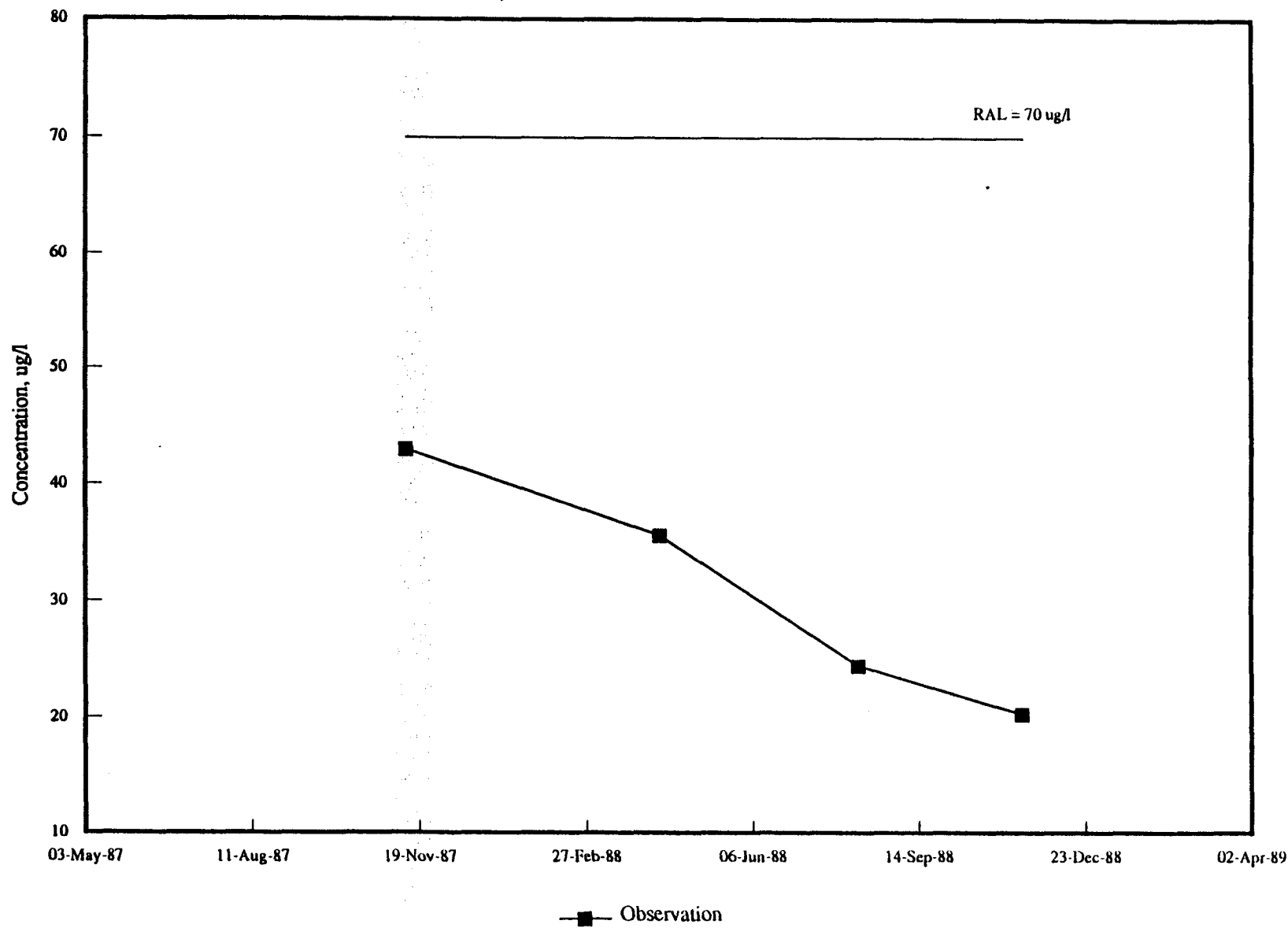
TETRACHLOROETHENE - WELL 01U108



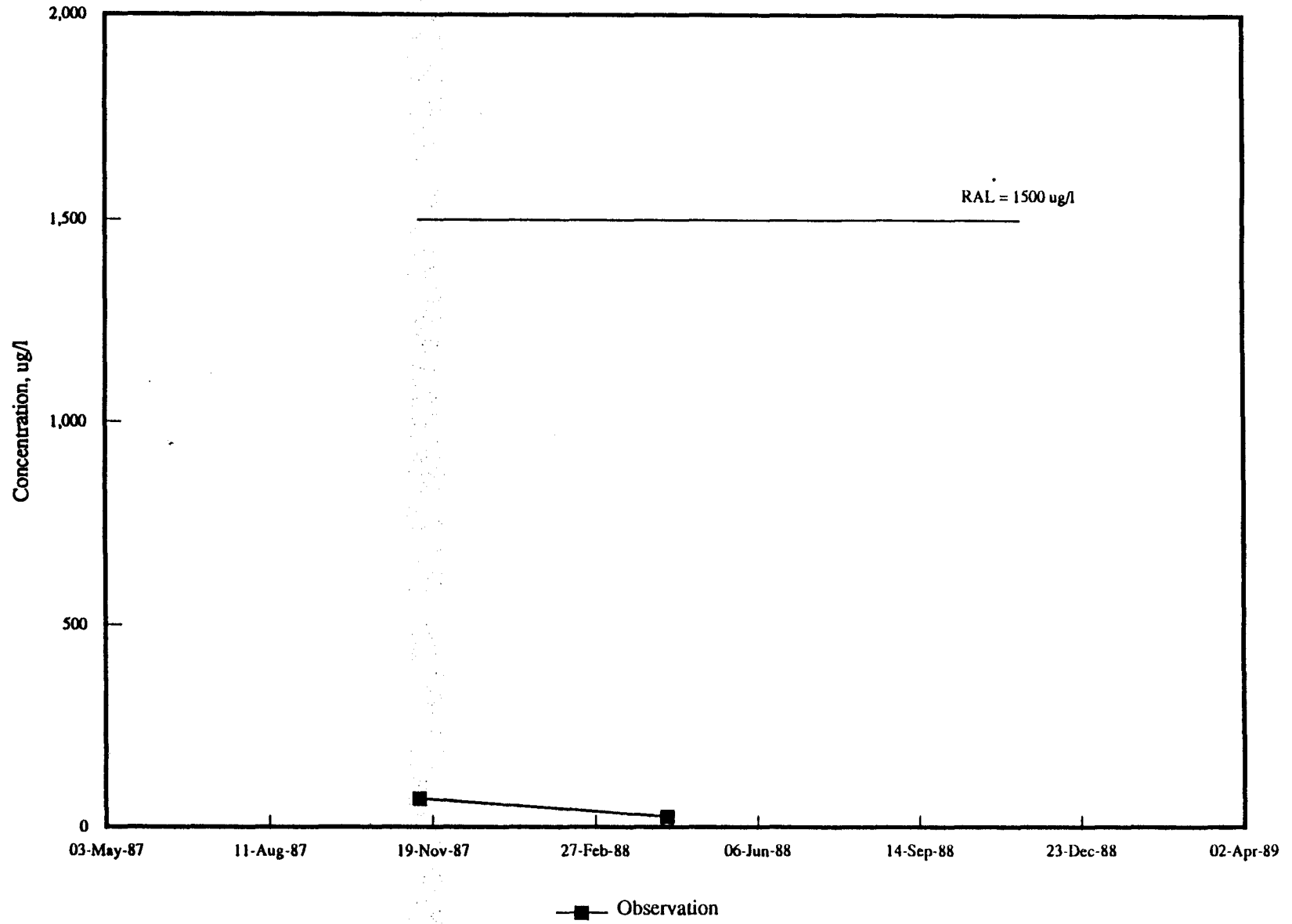
TRICHLOROETHENE - WELL 01U108



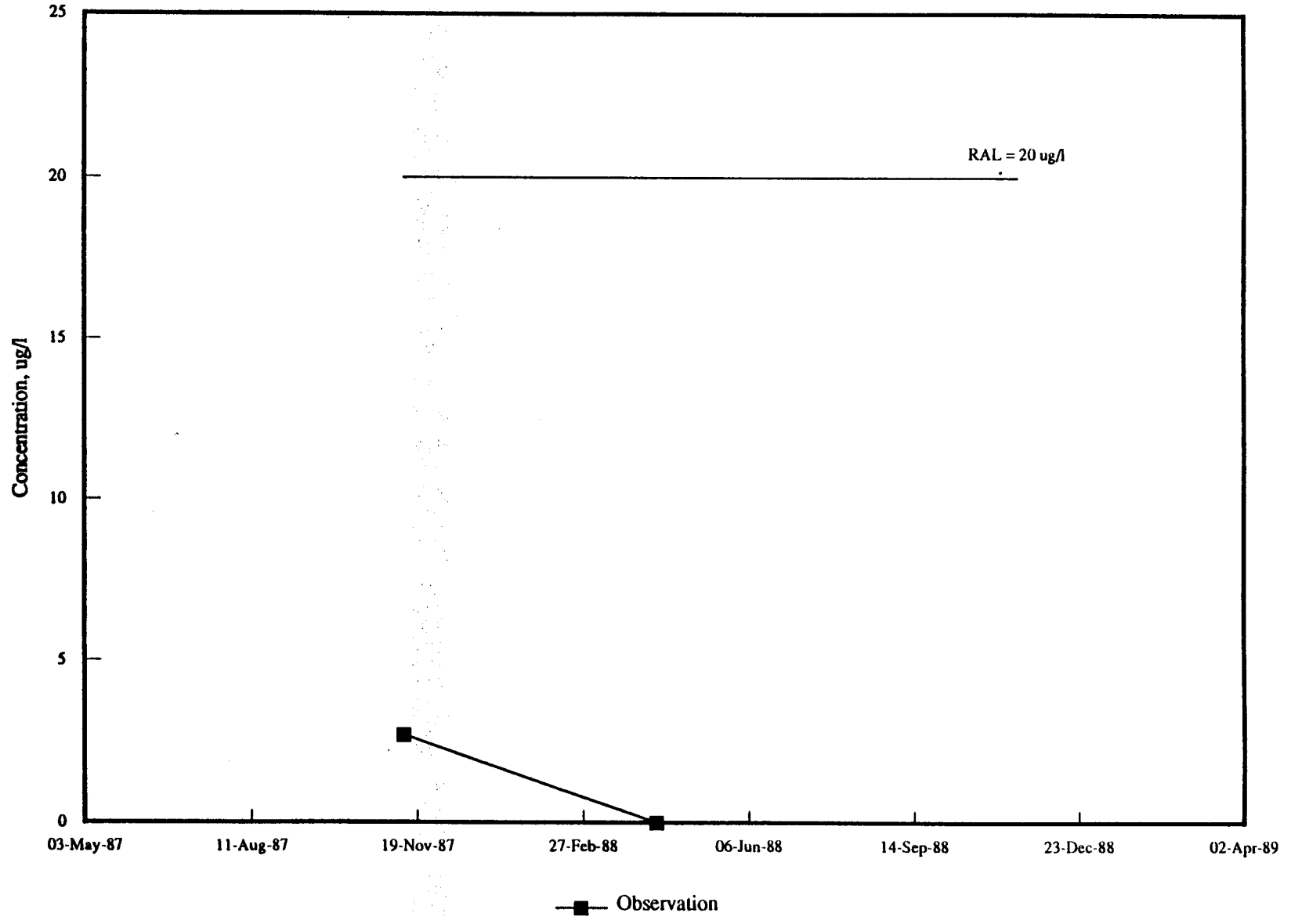
1,2-DICHLOROETHENE - WELL 01U115



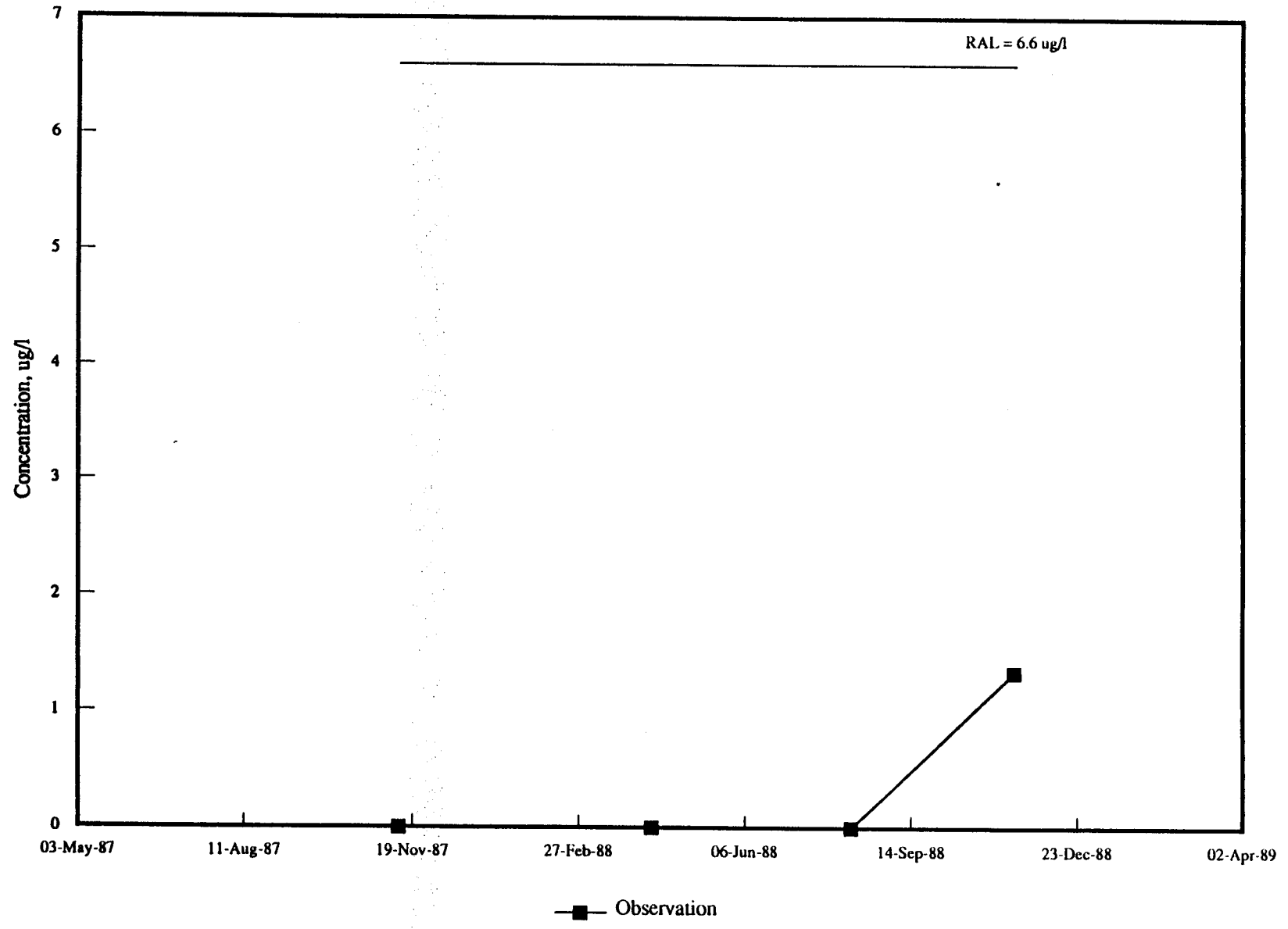
BARIUM - WELL 01U115



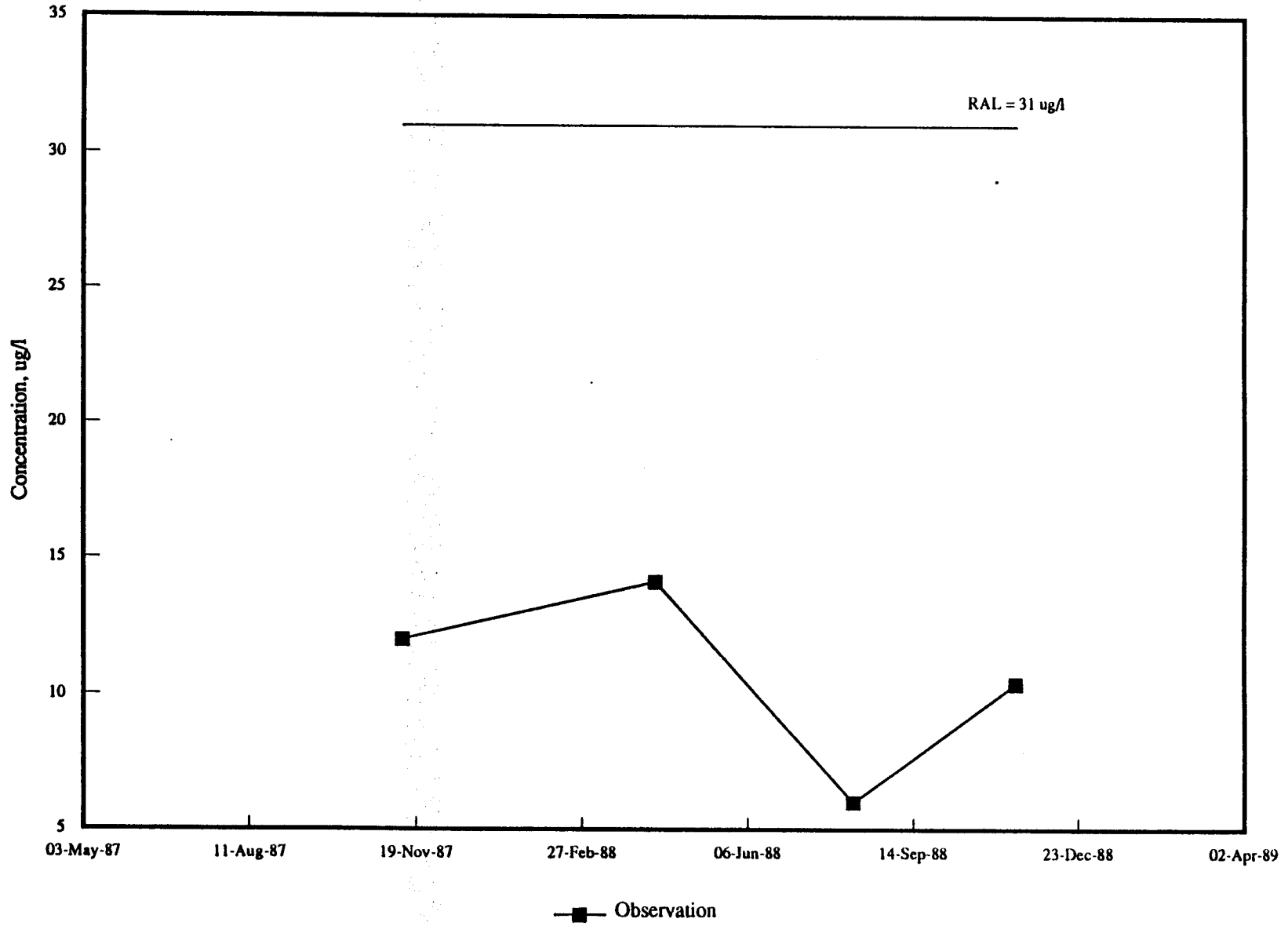
LEAD - WELL 01U115



TETRACHLOROETHENE - WELL 01U115

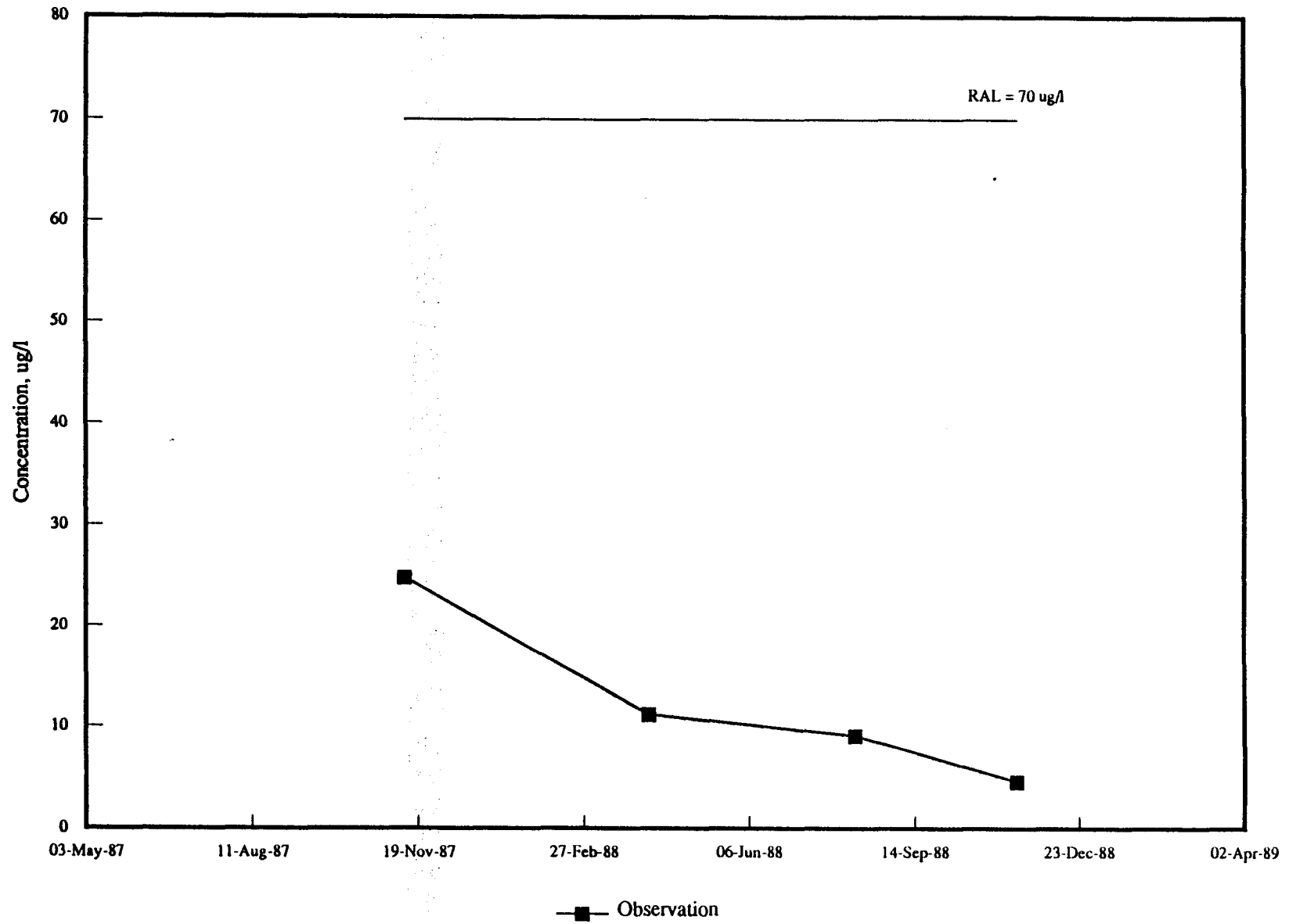


TRICHLOROETHENE - WELL 01U115

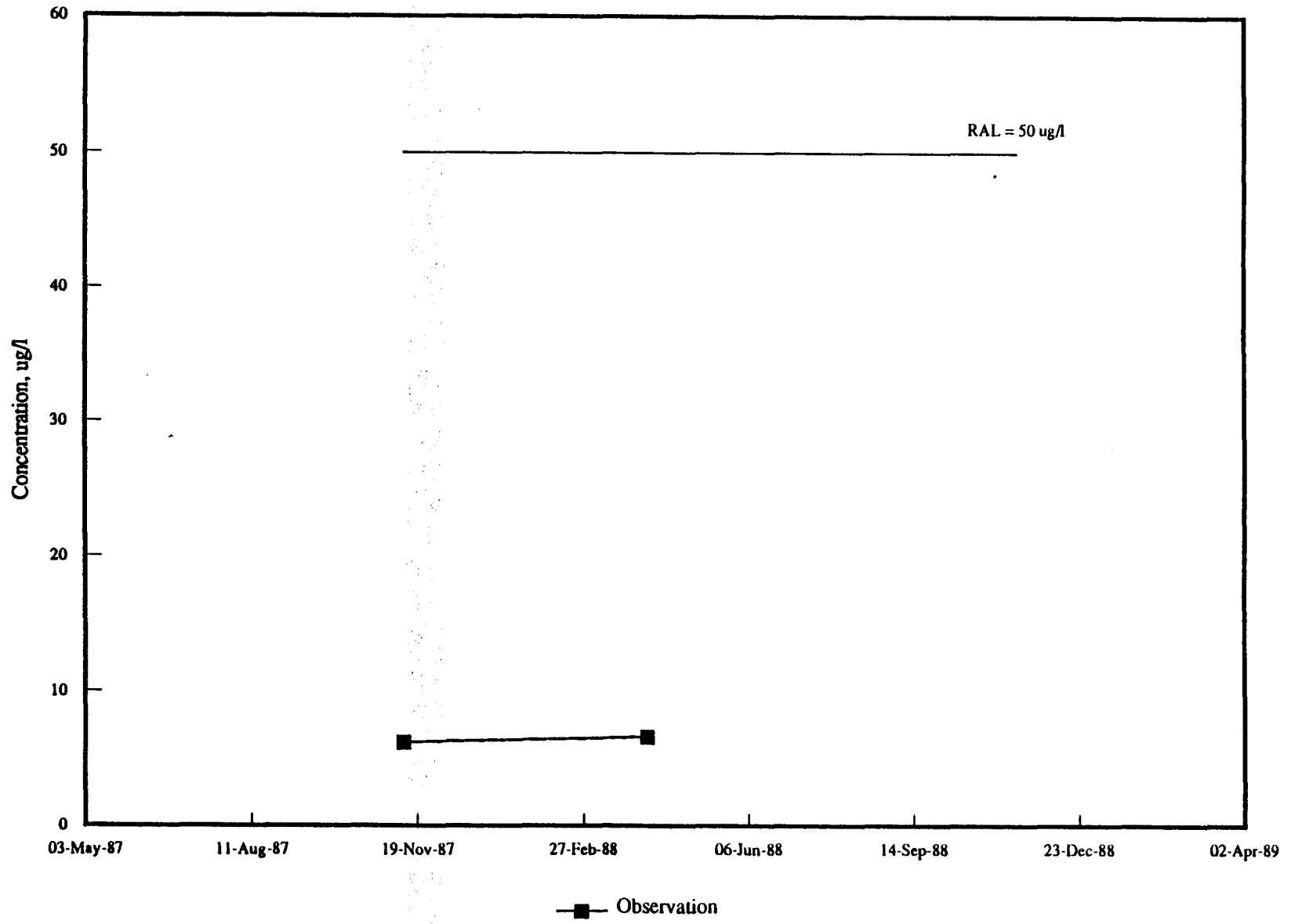




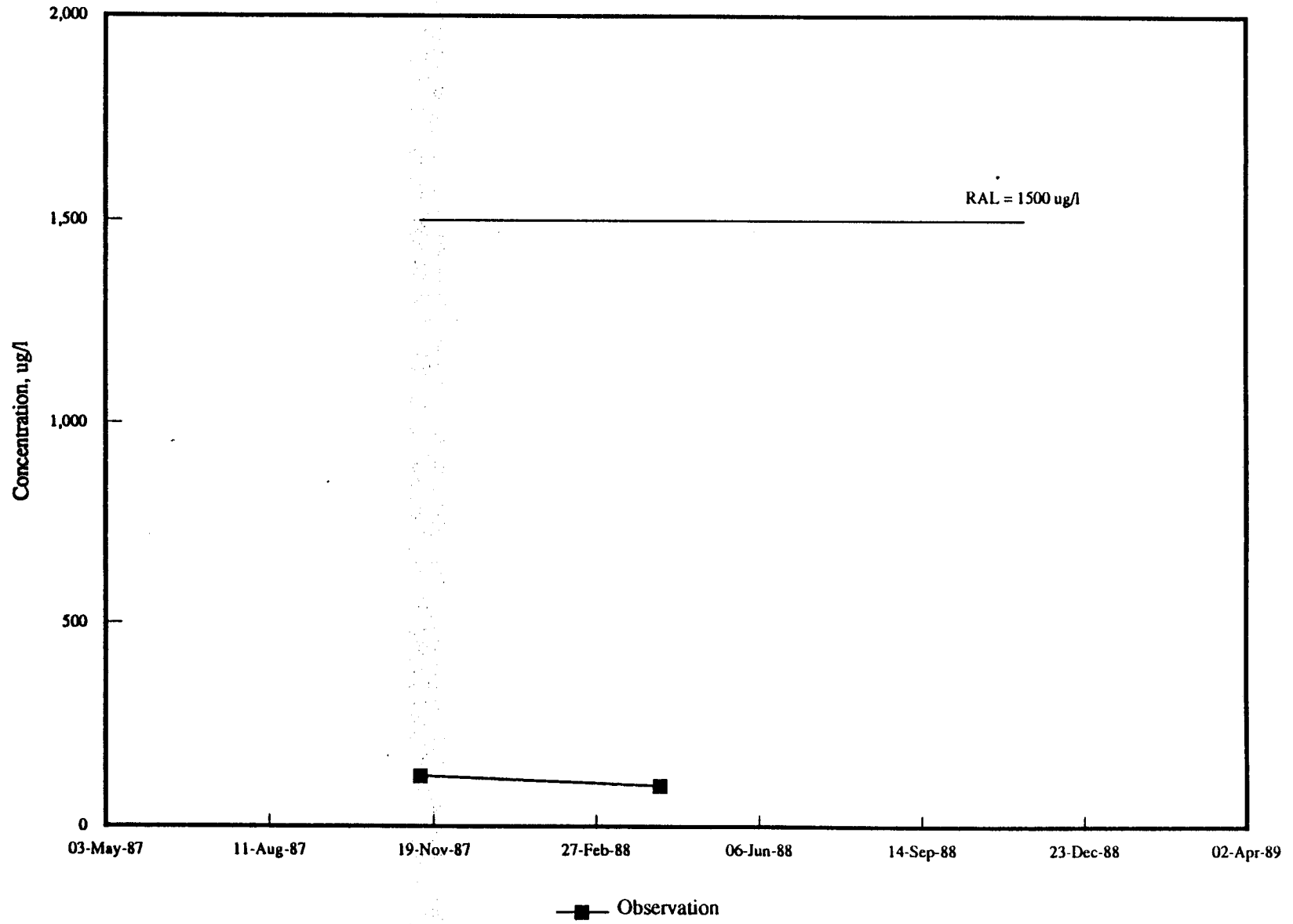
1,2-DICHLOROETHENE - WELL 01U116



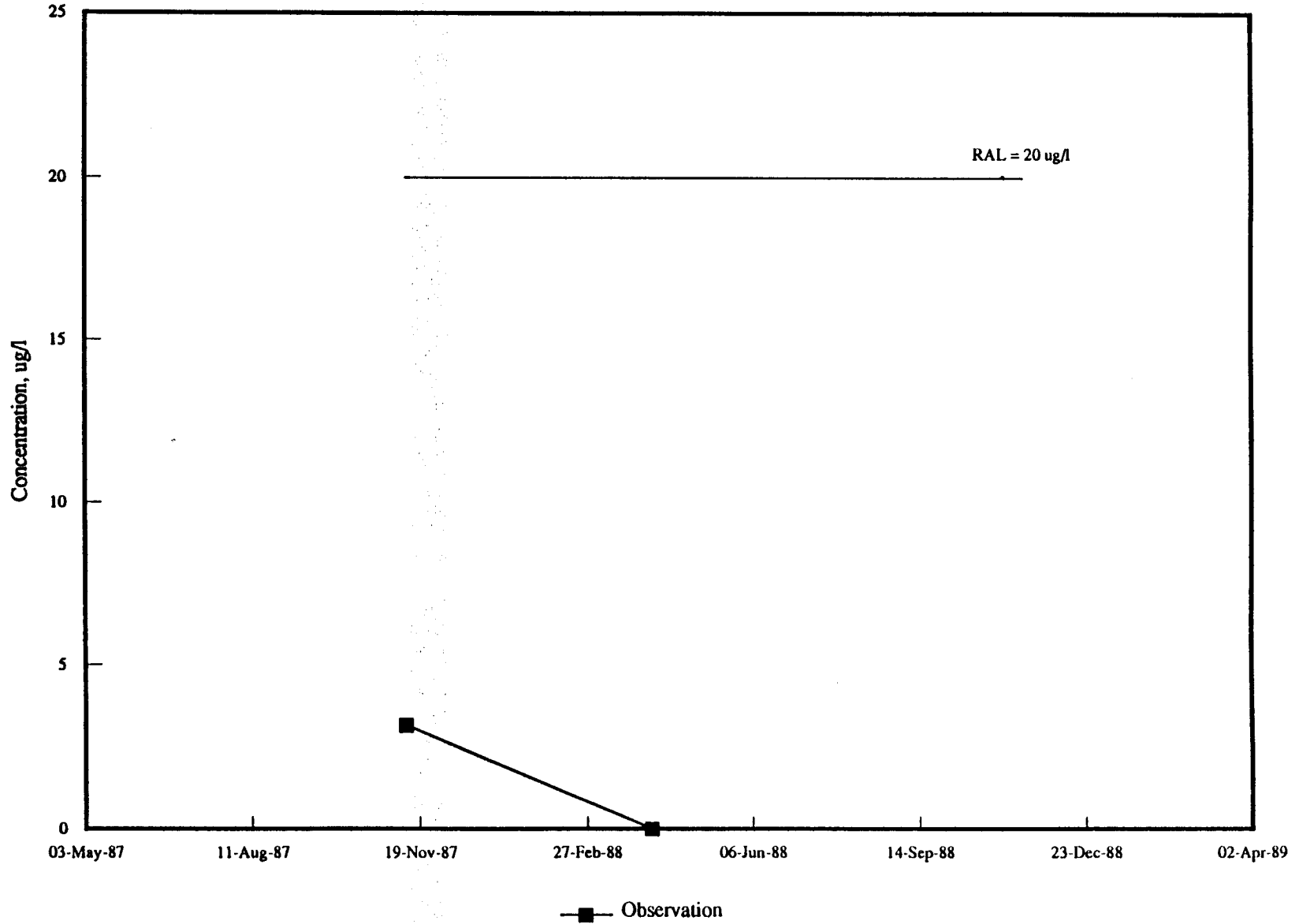
ARSENIC - WELL 01U116



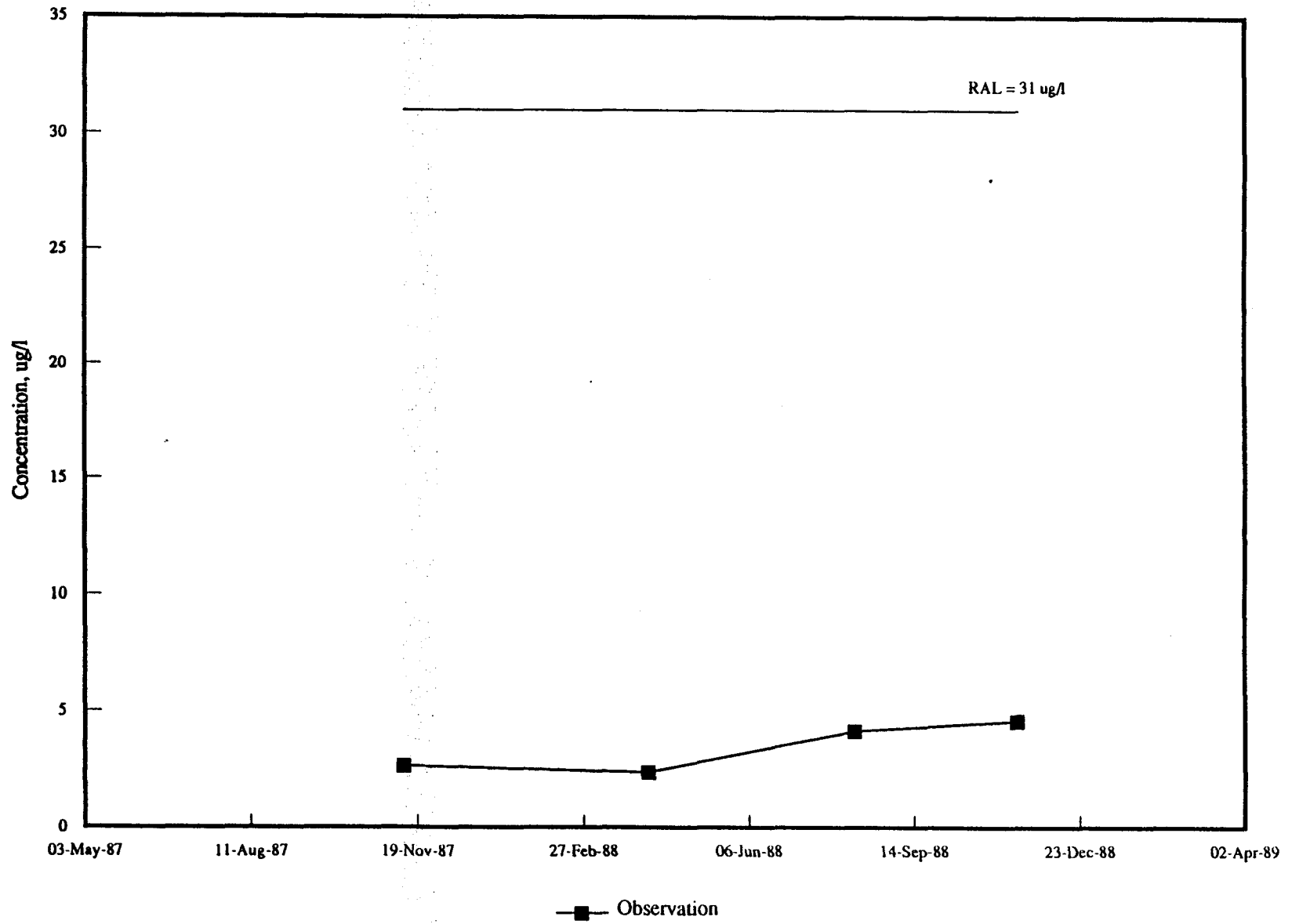
BARIUM - WELL 01U116



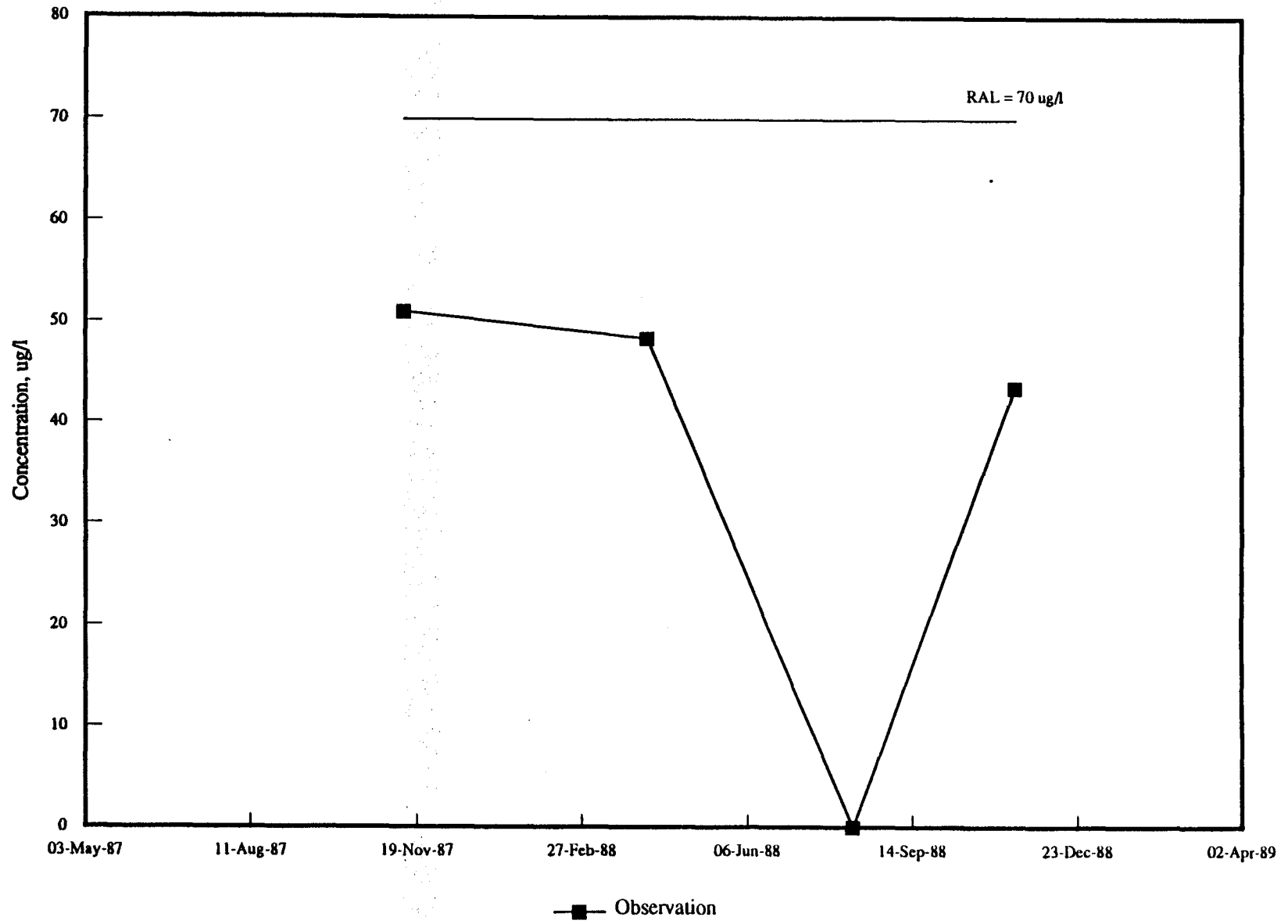
LEAD - WELL 01U116



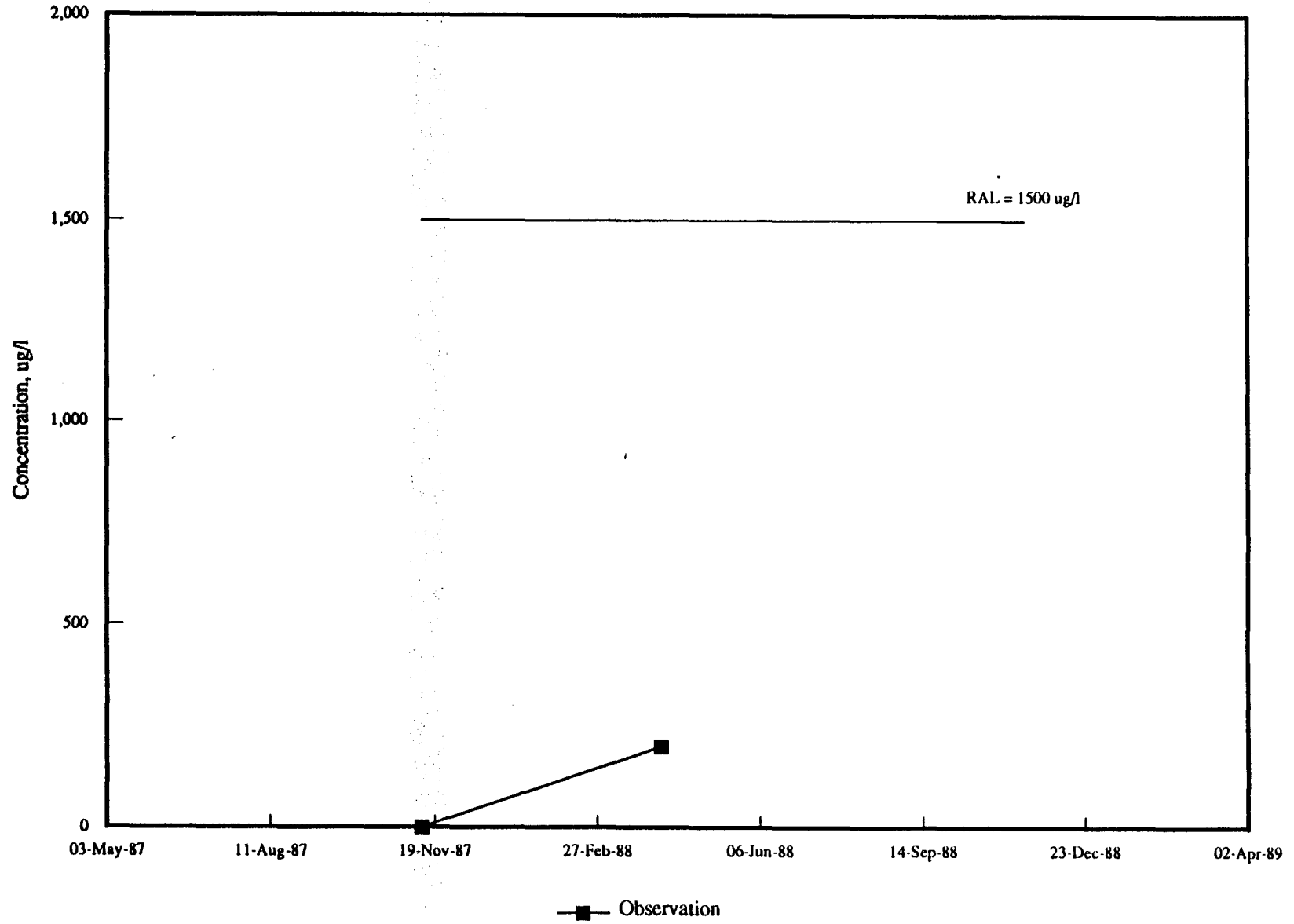
TRICHLOROETHENE - WELL 01U116



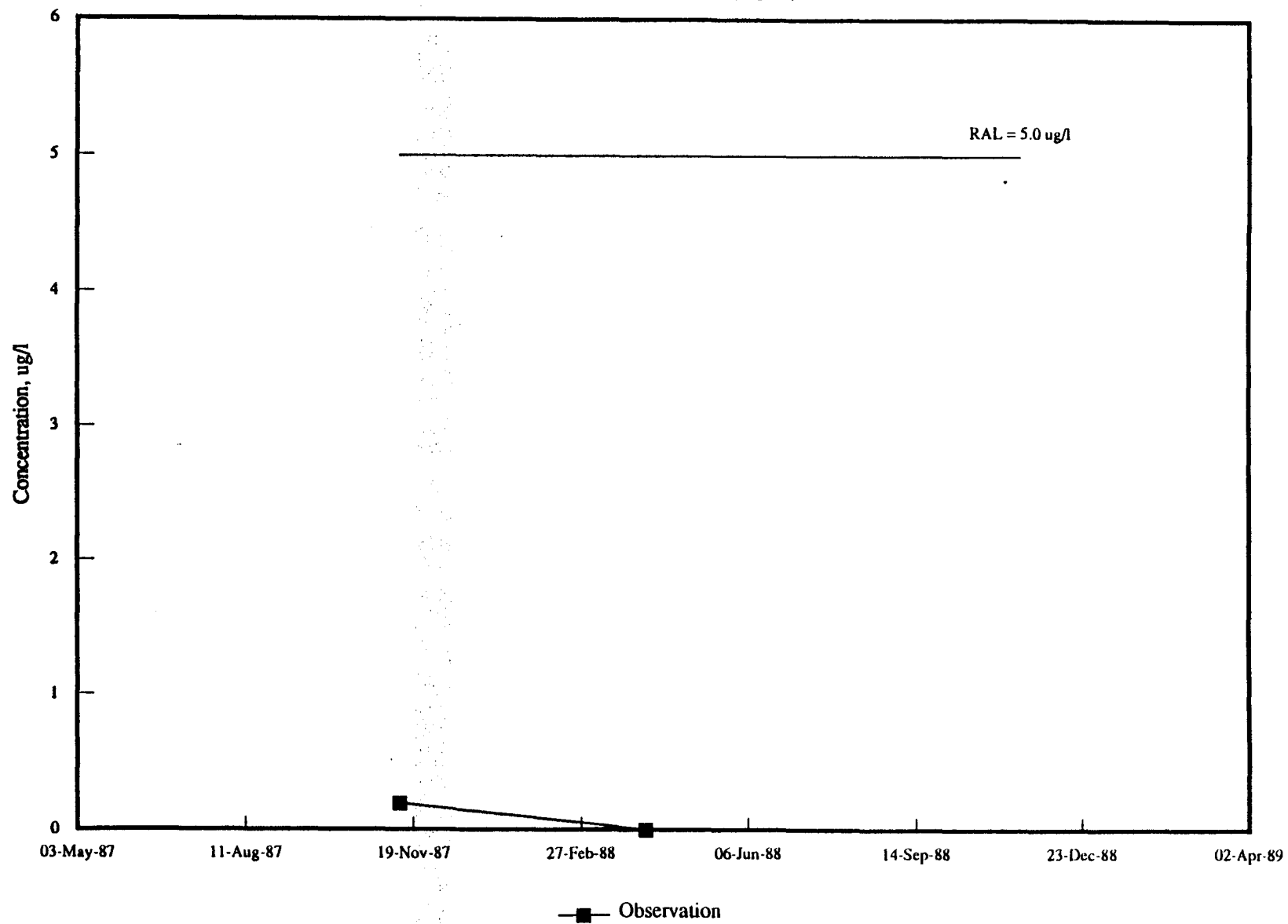
1,2-DICHLOROETHENE - WELL 01U117



BARIUM - WELL 01U117

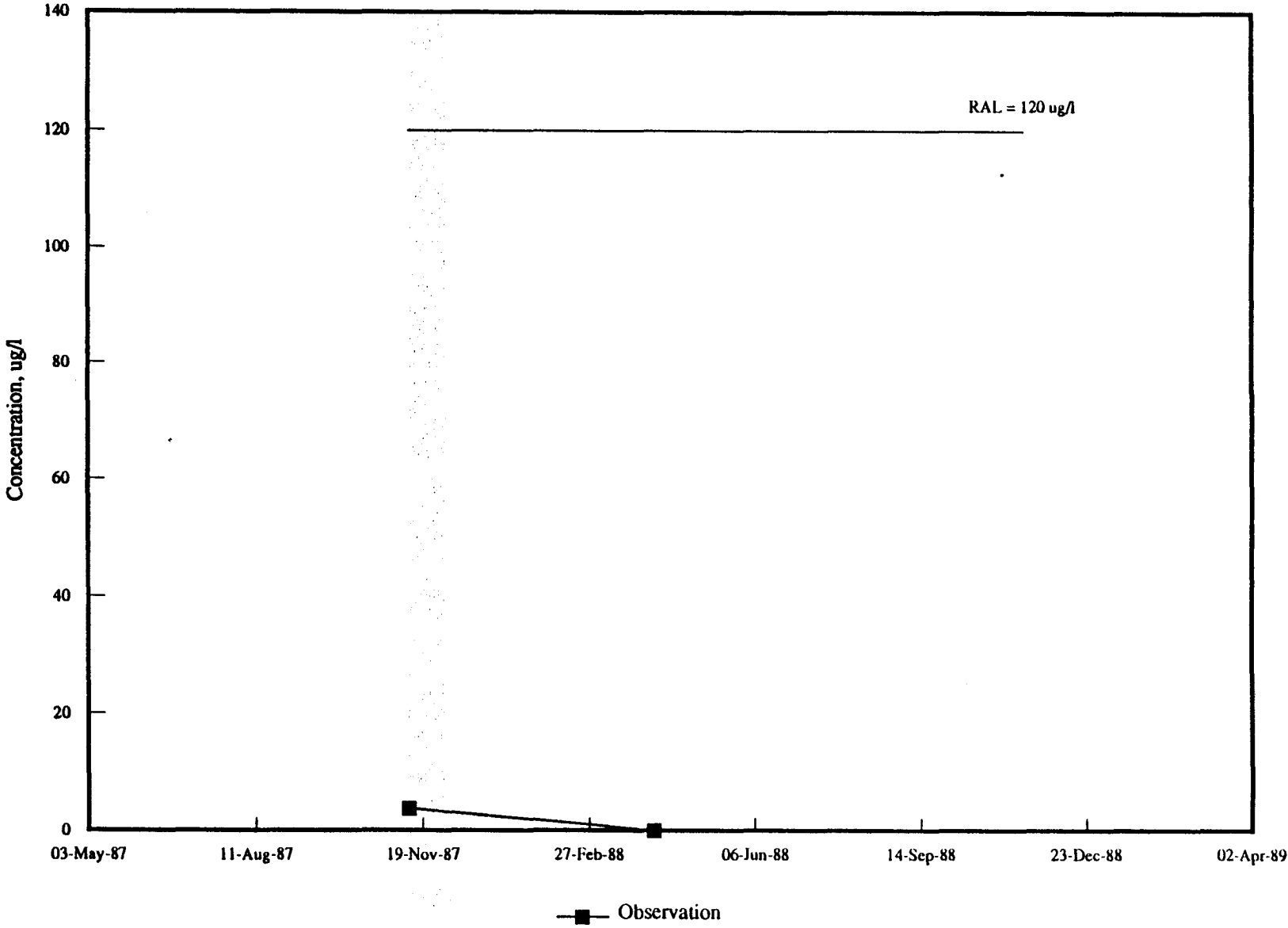


CADMIUM - WELL 01U117

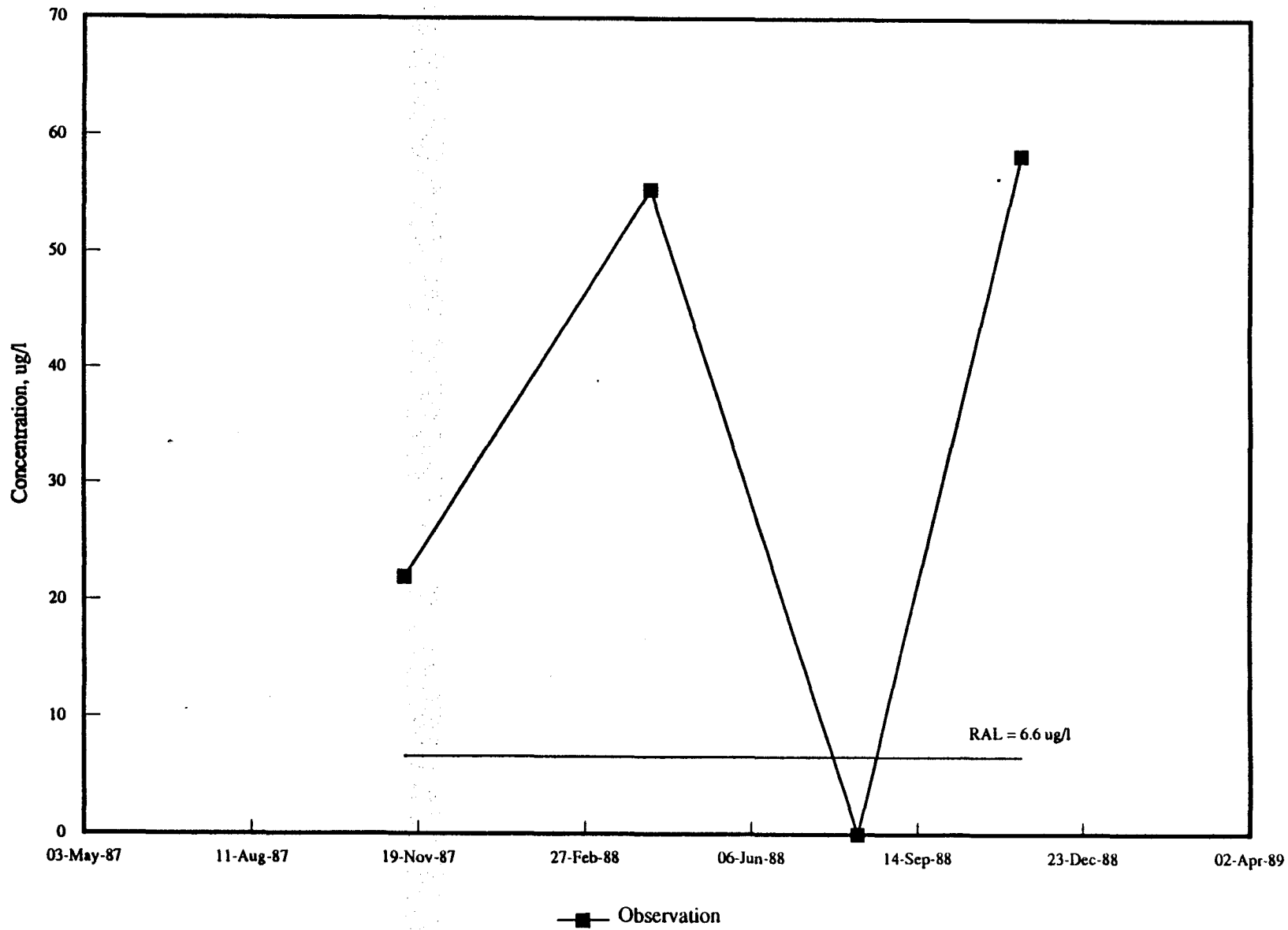




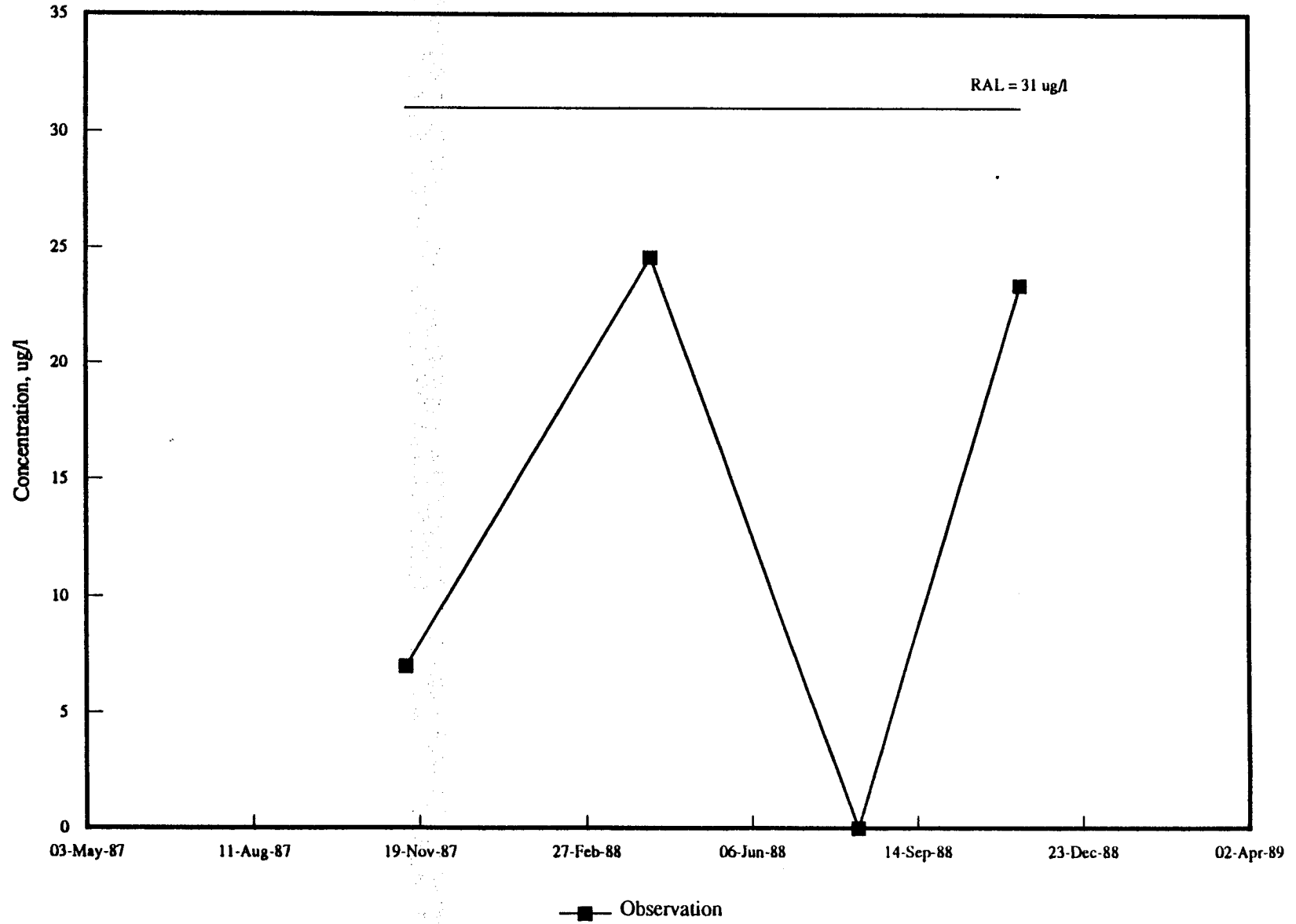
CHROMIUM - WELL 01U117



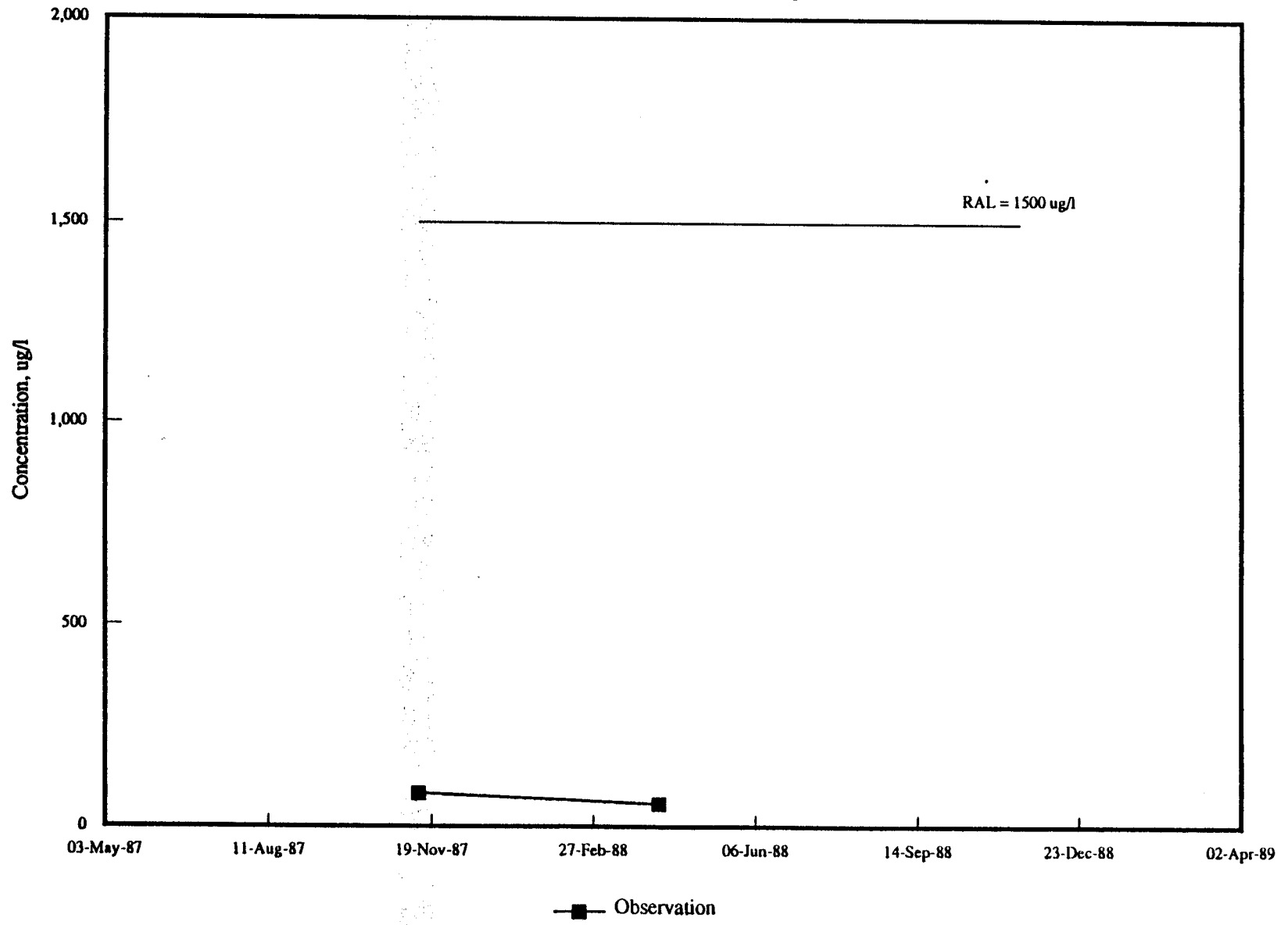
TETRACHLOROETHENE - WELL 01U117



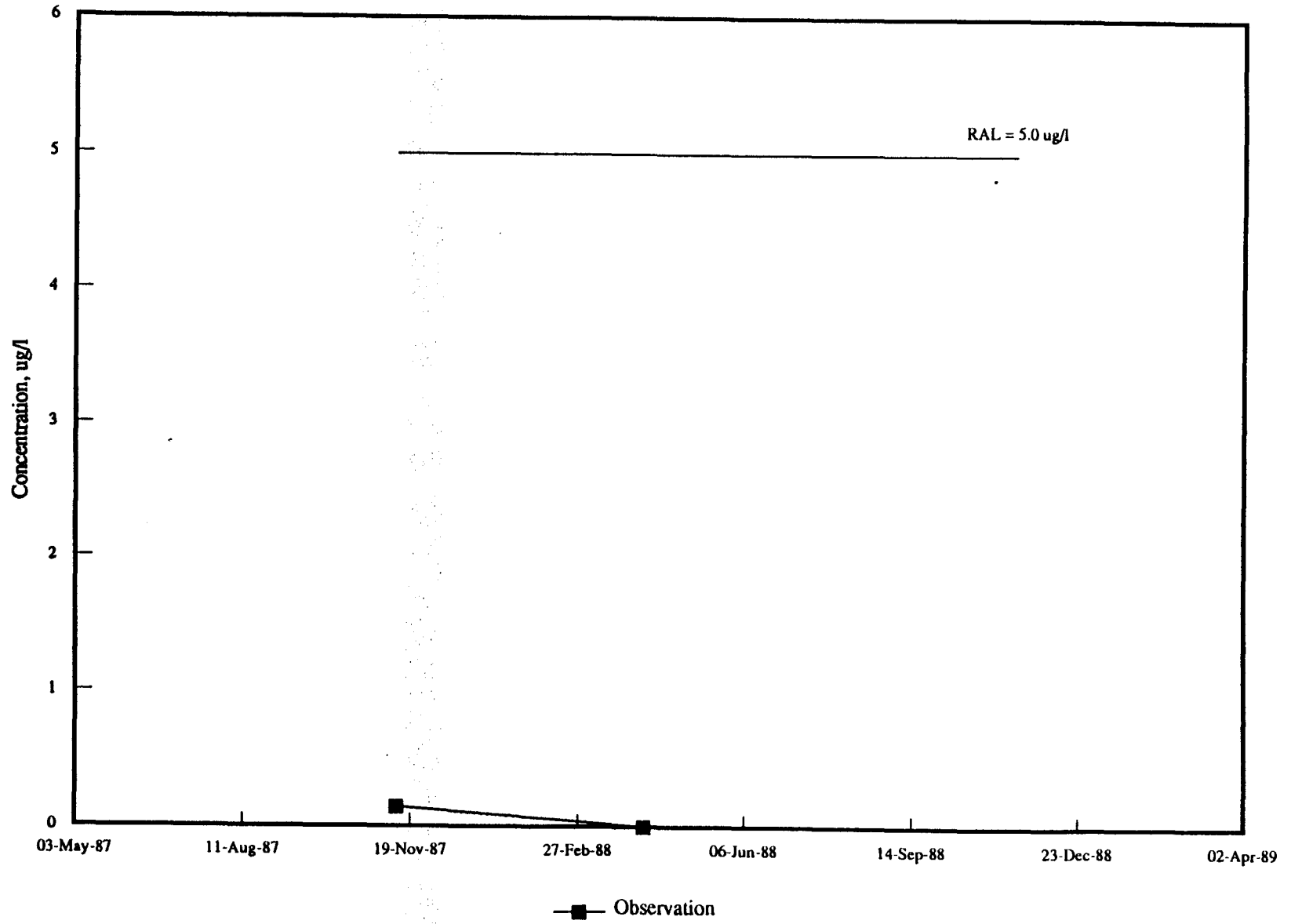
TRICHLOROETHENE - WELL 01U117



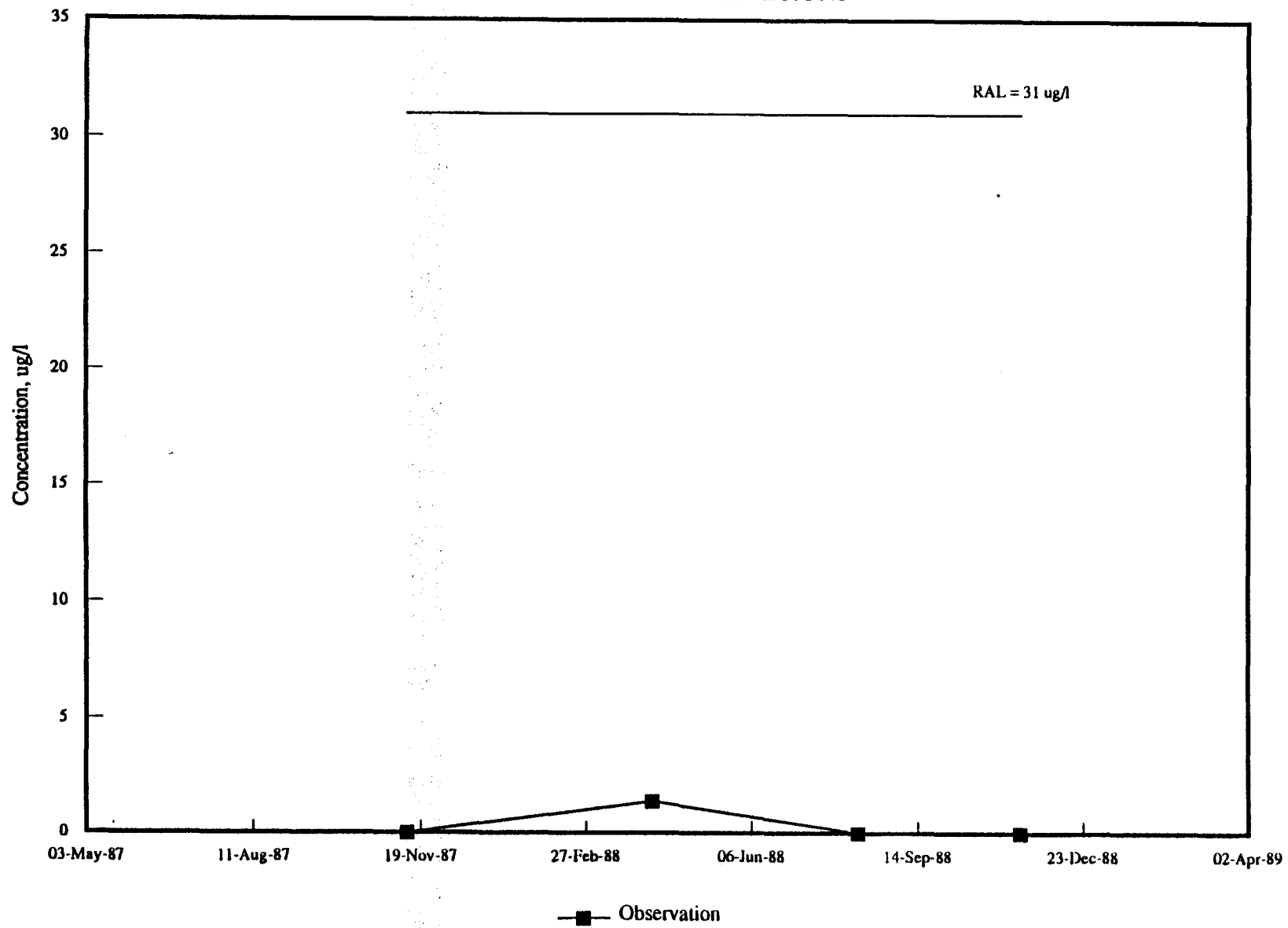
BARIUM - WELL 01U118



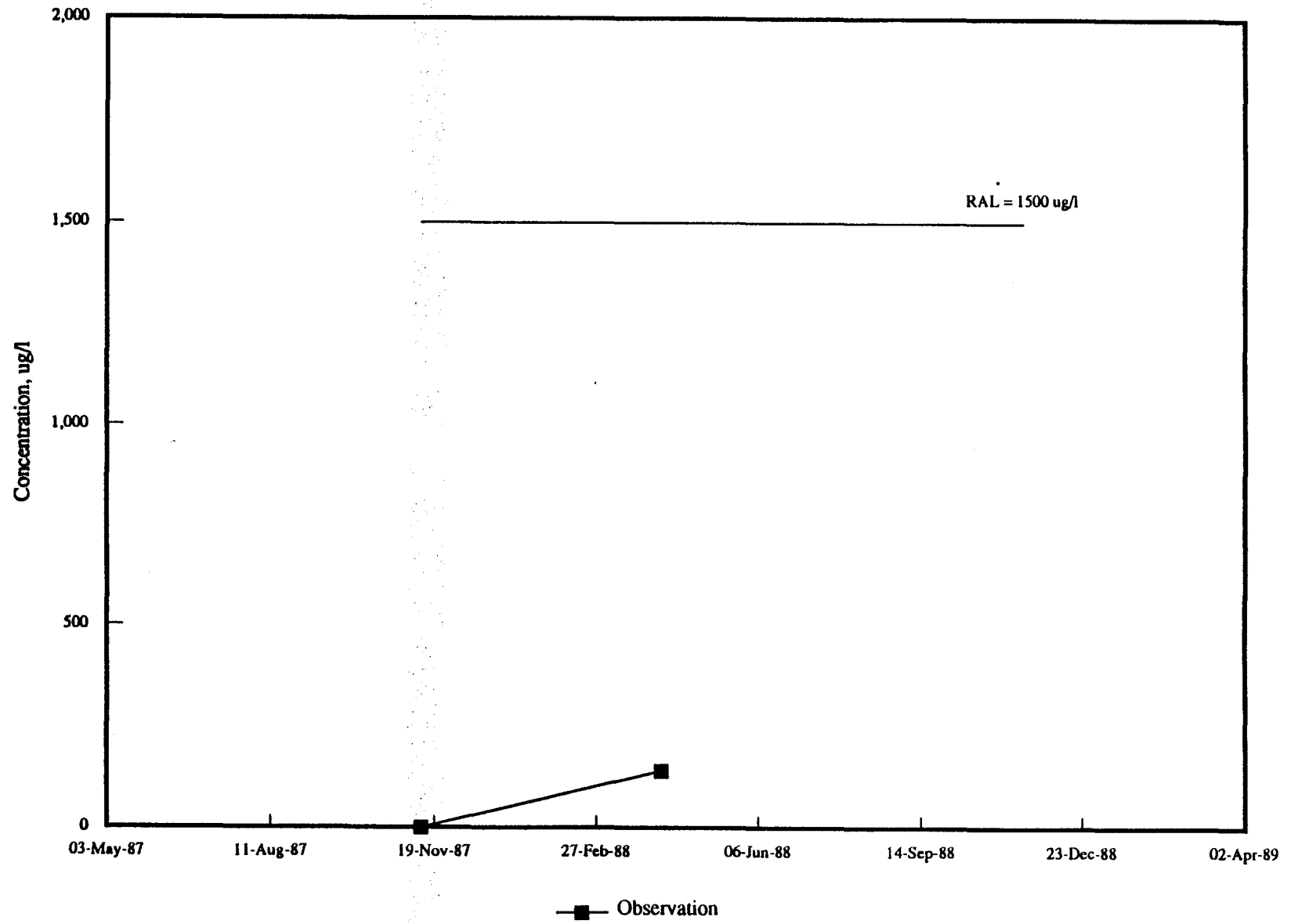
CADMIUM - WELL 01U118



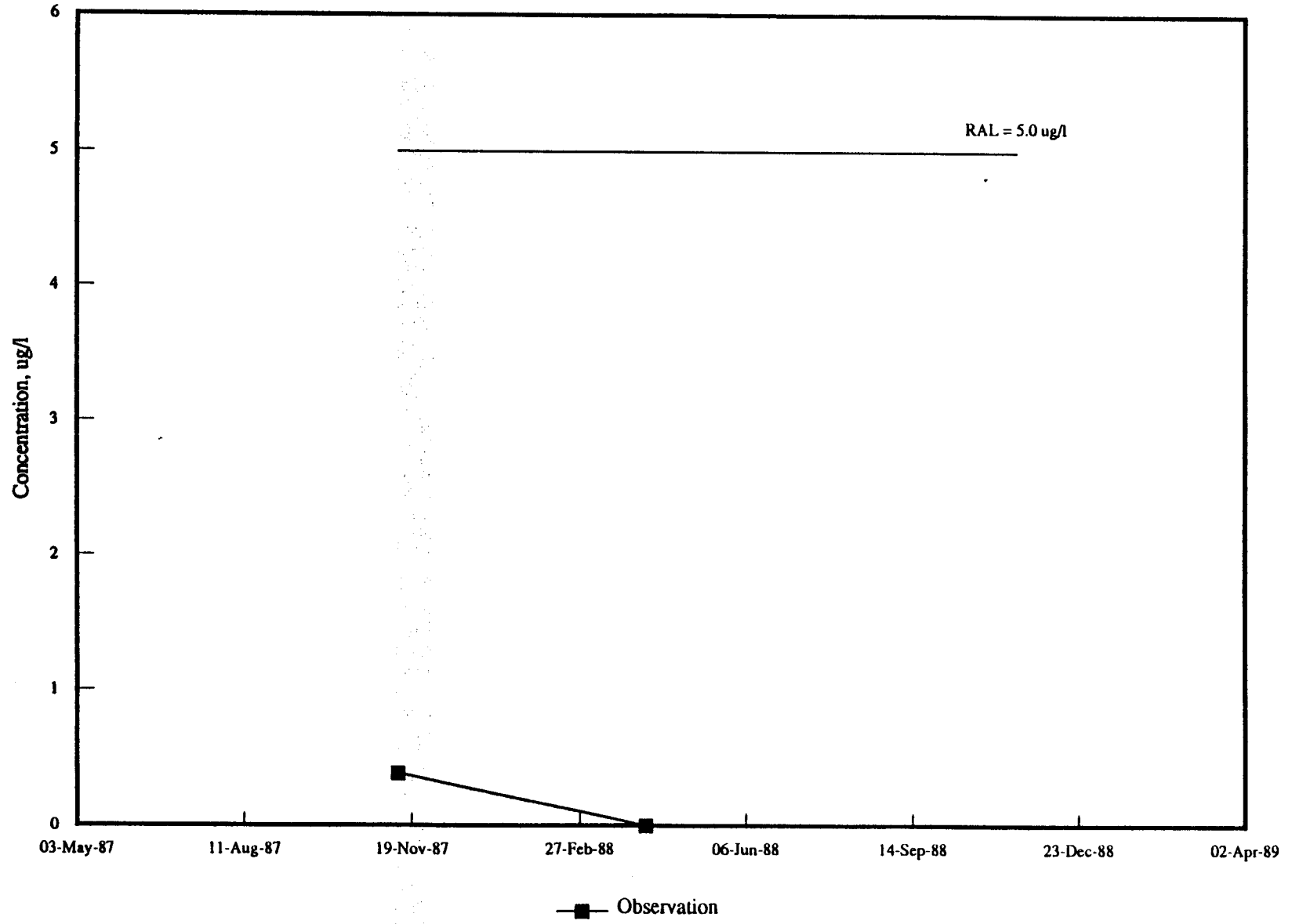
TRICHLOROETHENE - WELL 01U118



BARIUM - WELL 01U119

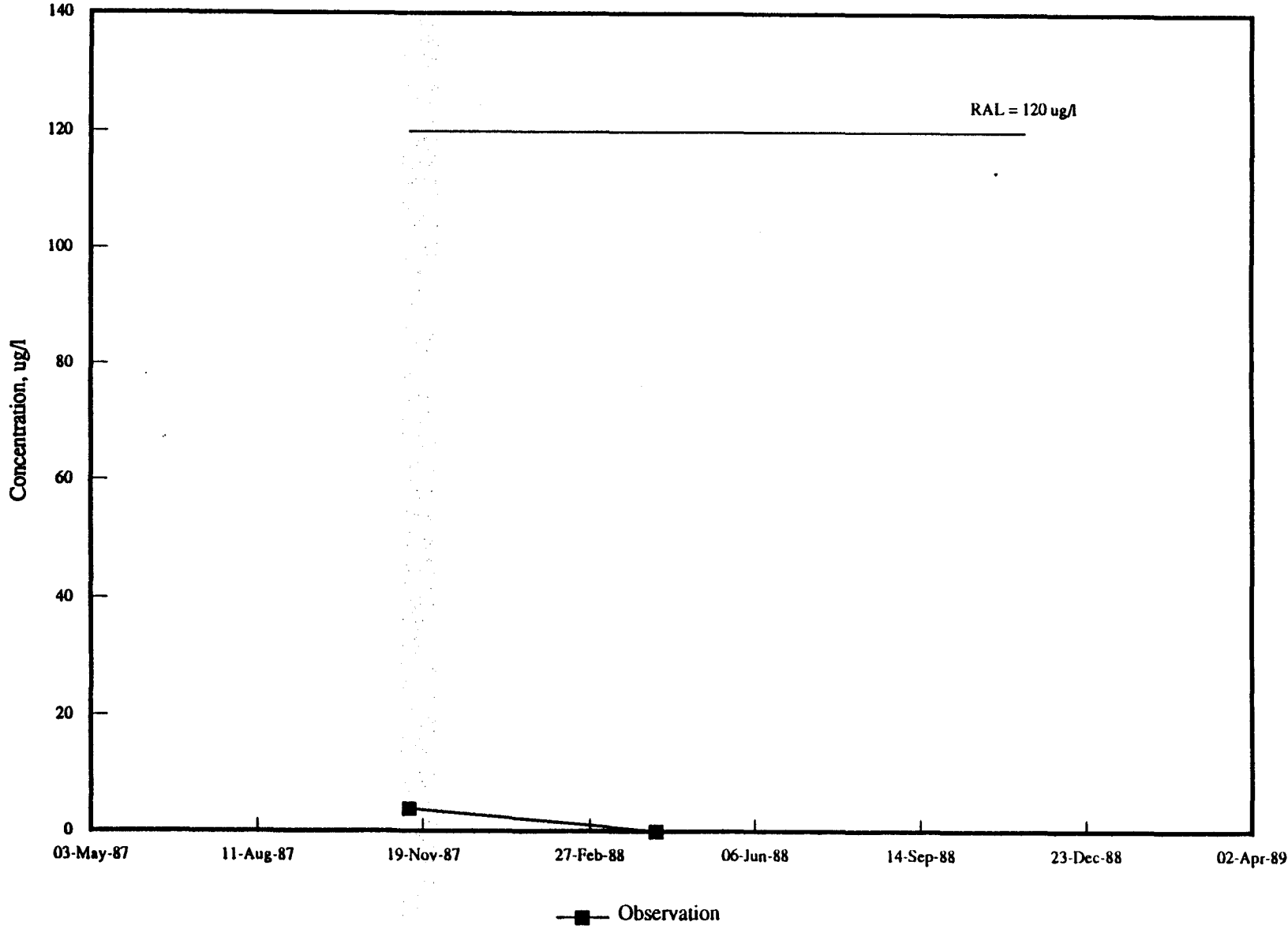


CADMIUM - WELL 01U119

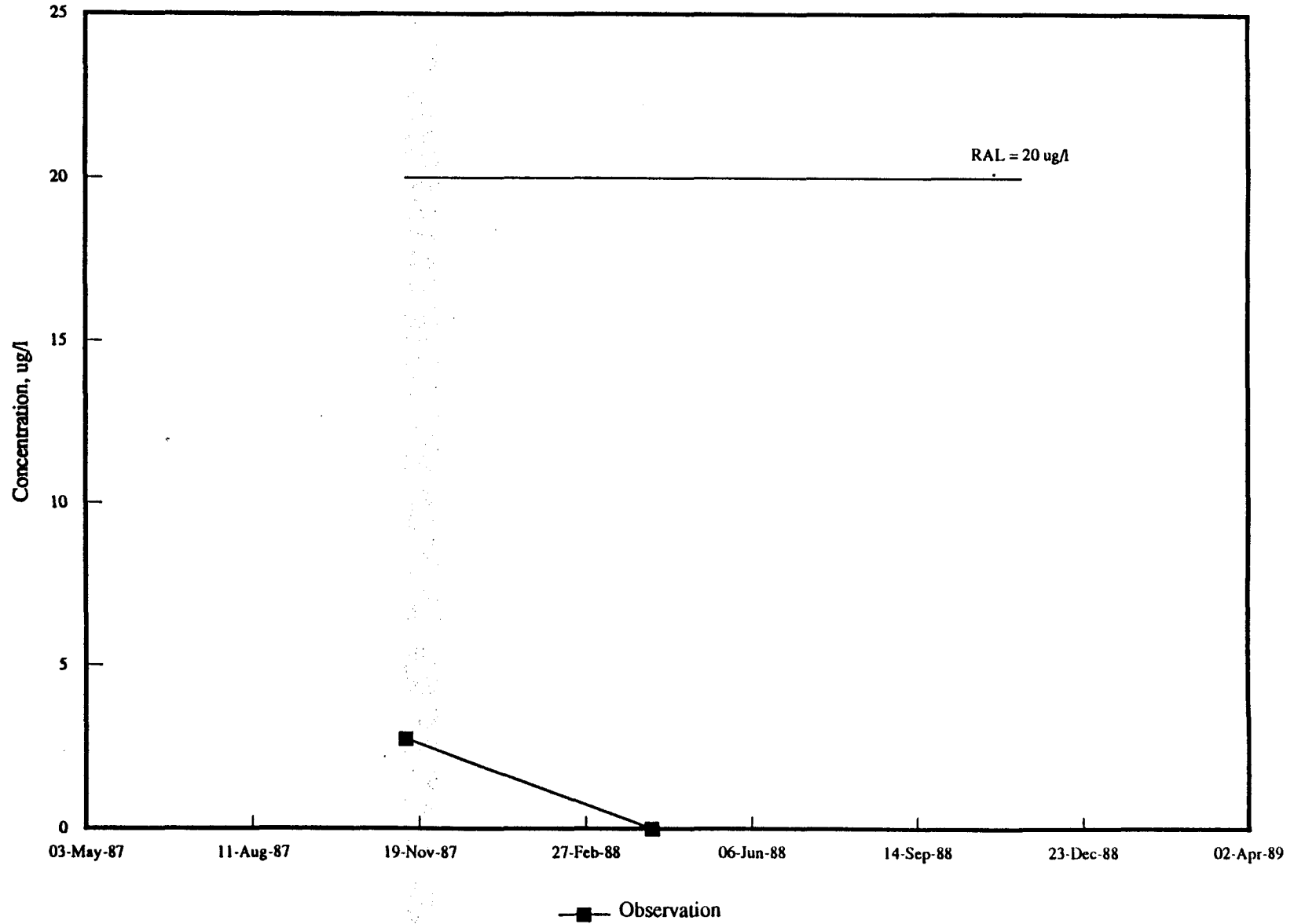




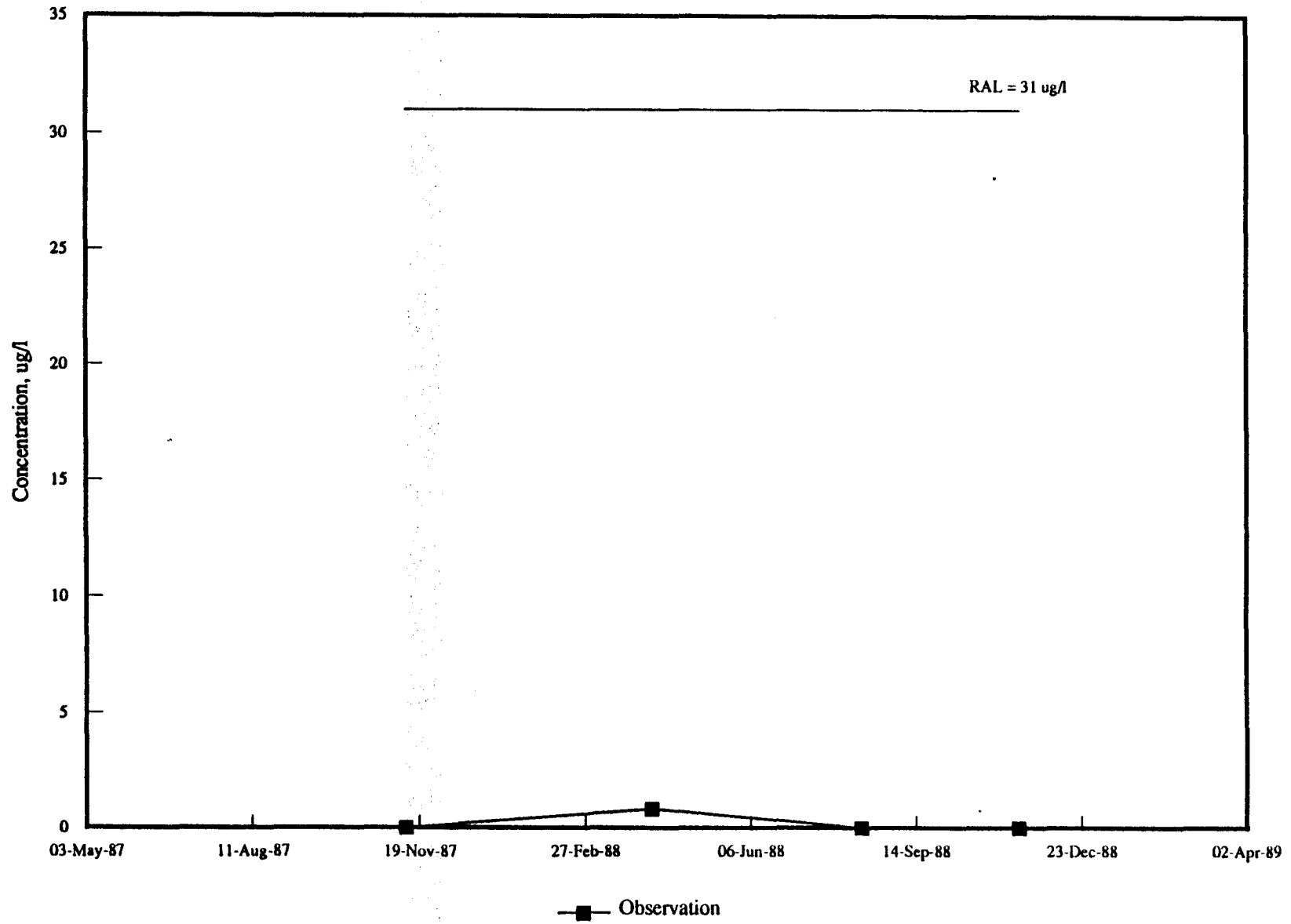
CHROMIUM - WELL 01U119



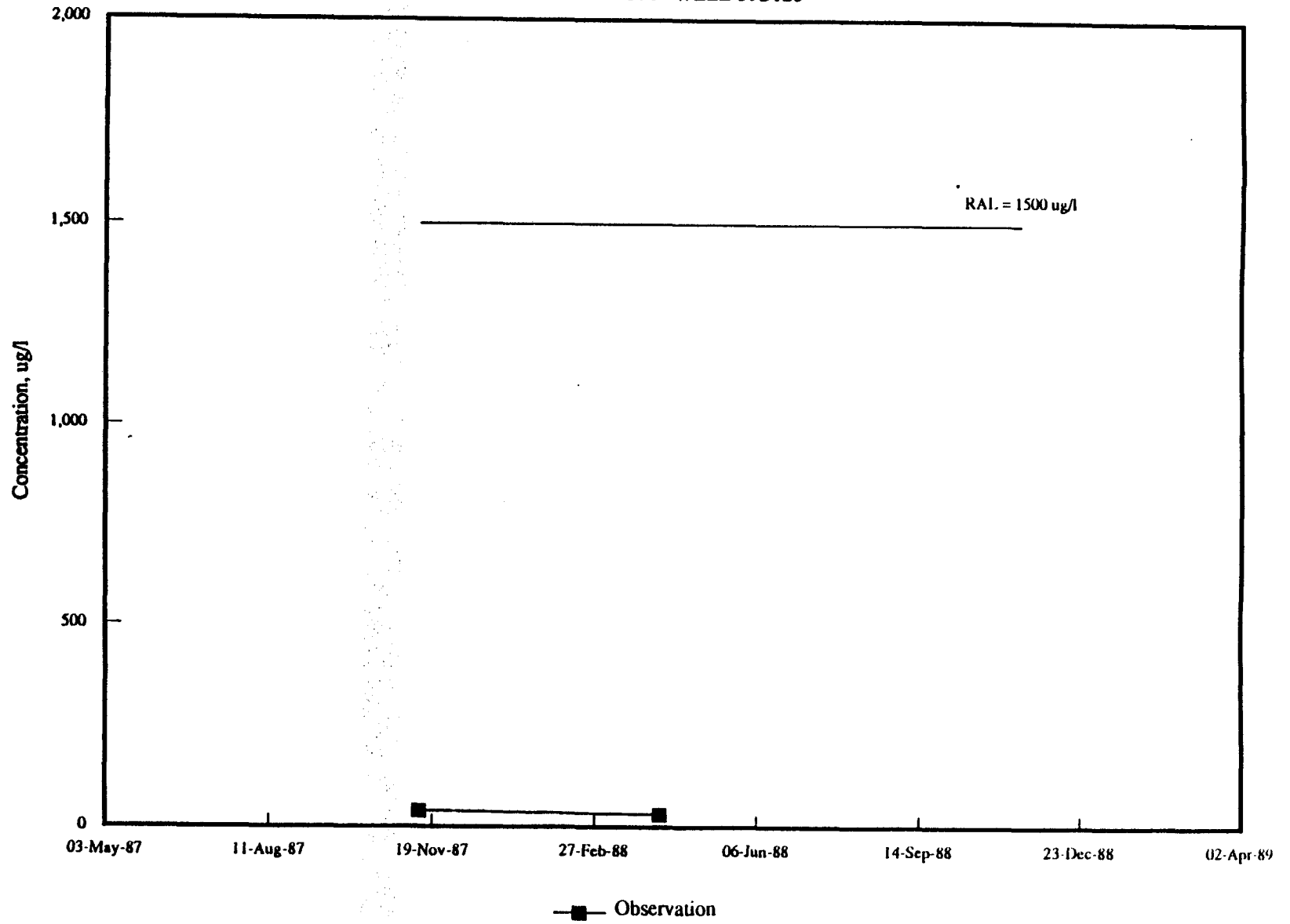
LEAD - WELL 01U119



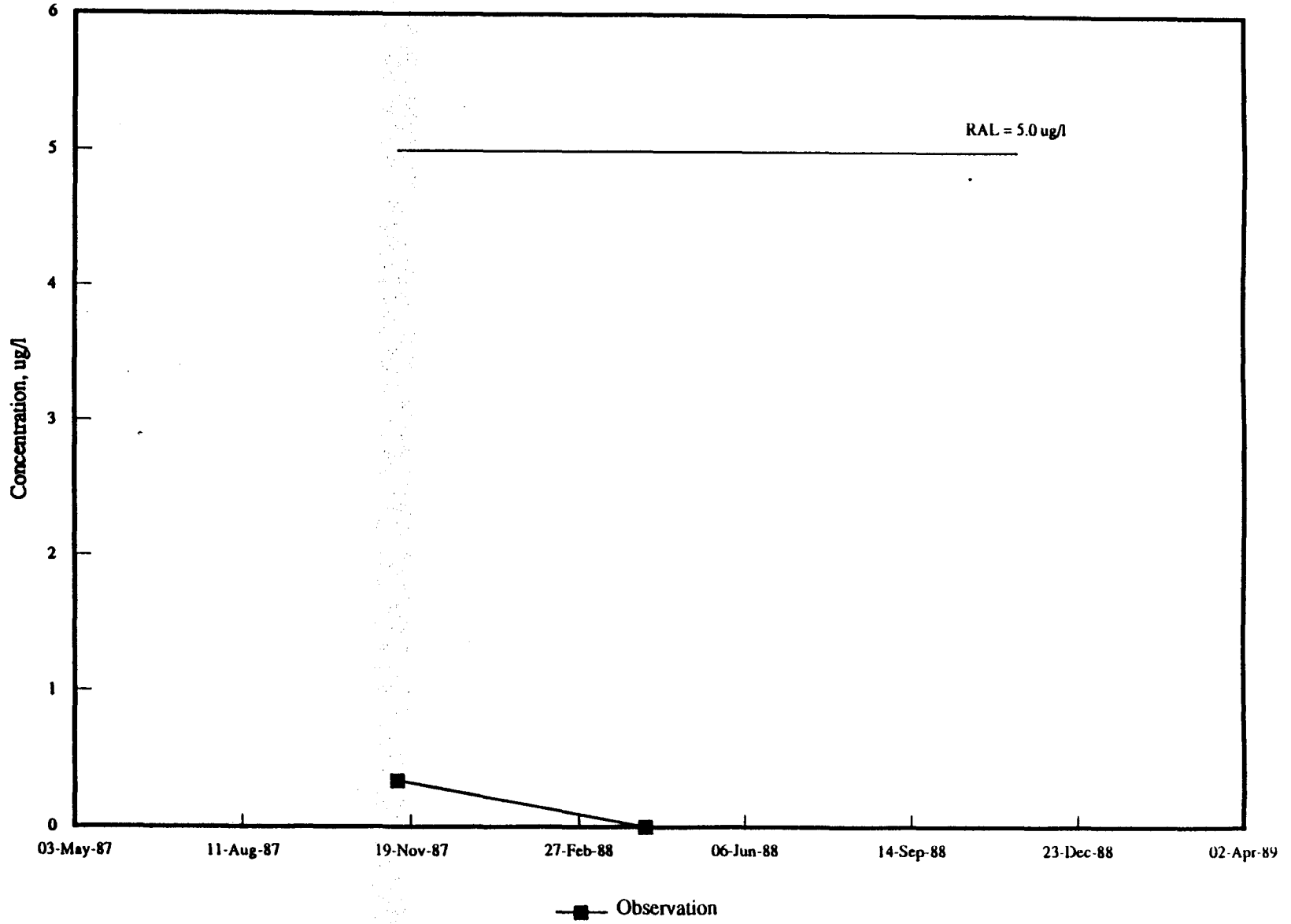
TRICHLOROETHENE - WELL 01U119



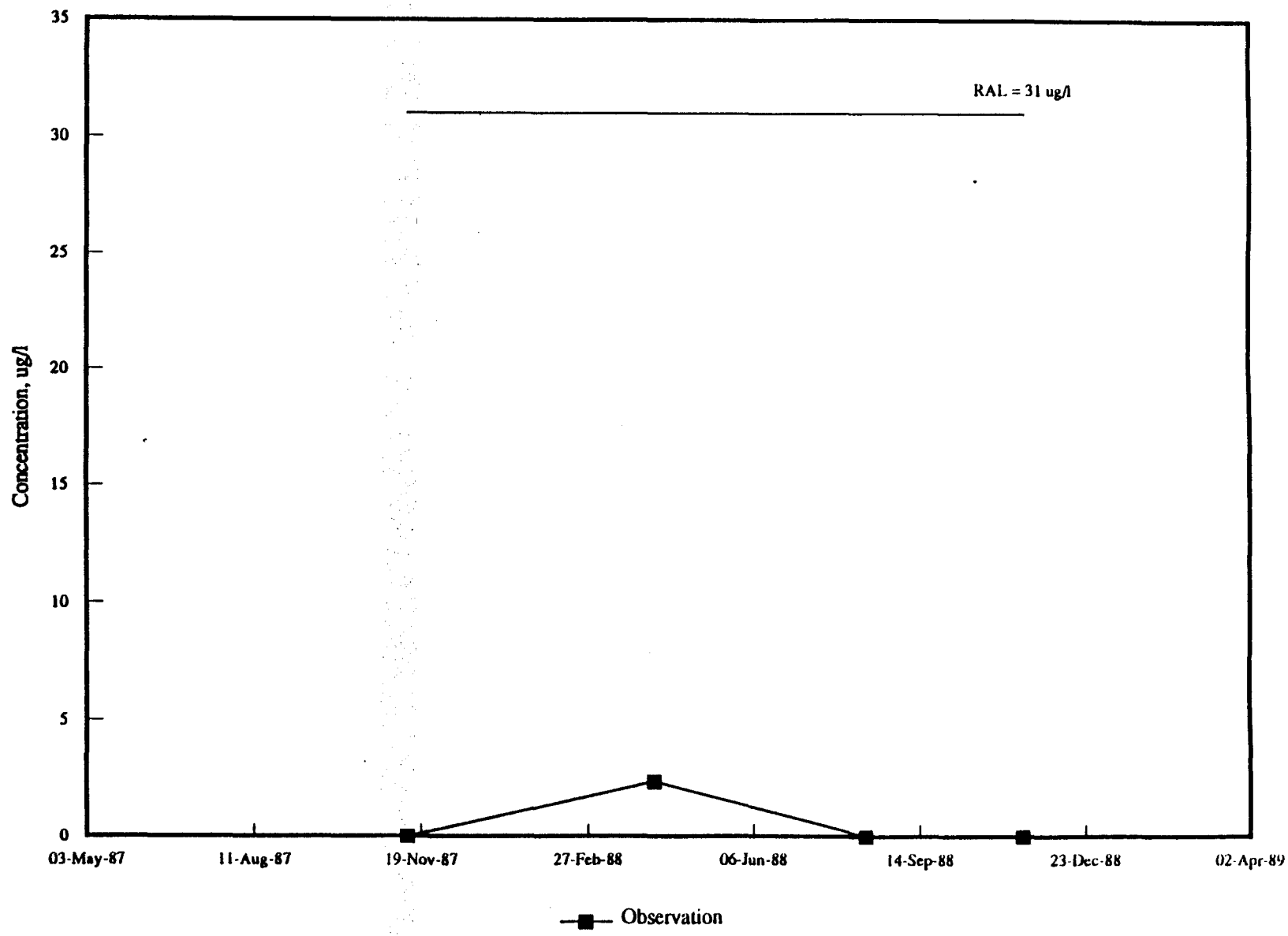
BARIUM - WELL 01U120



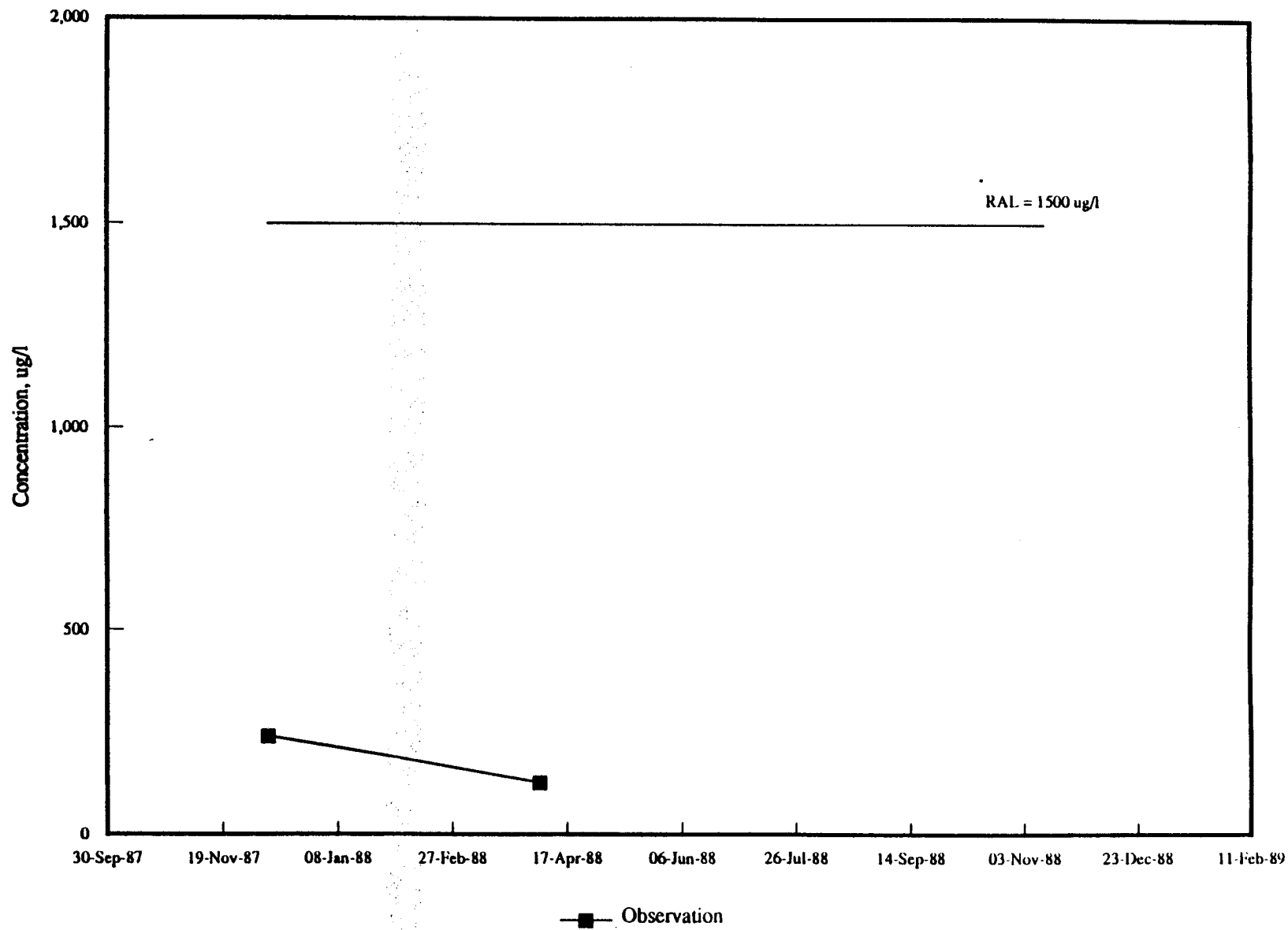
CADMIUM - WELL 01U120



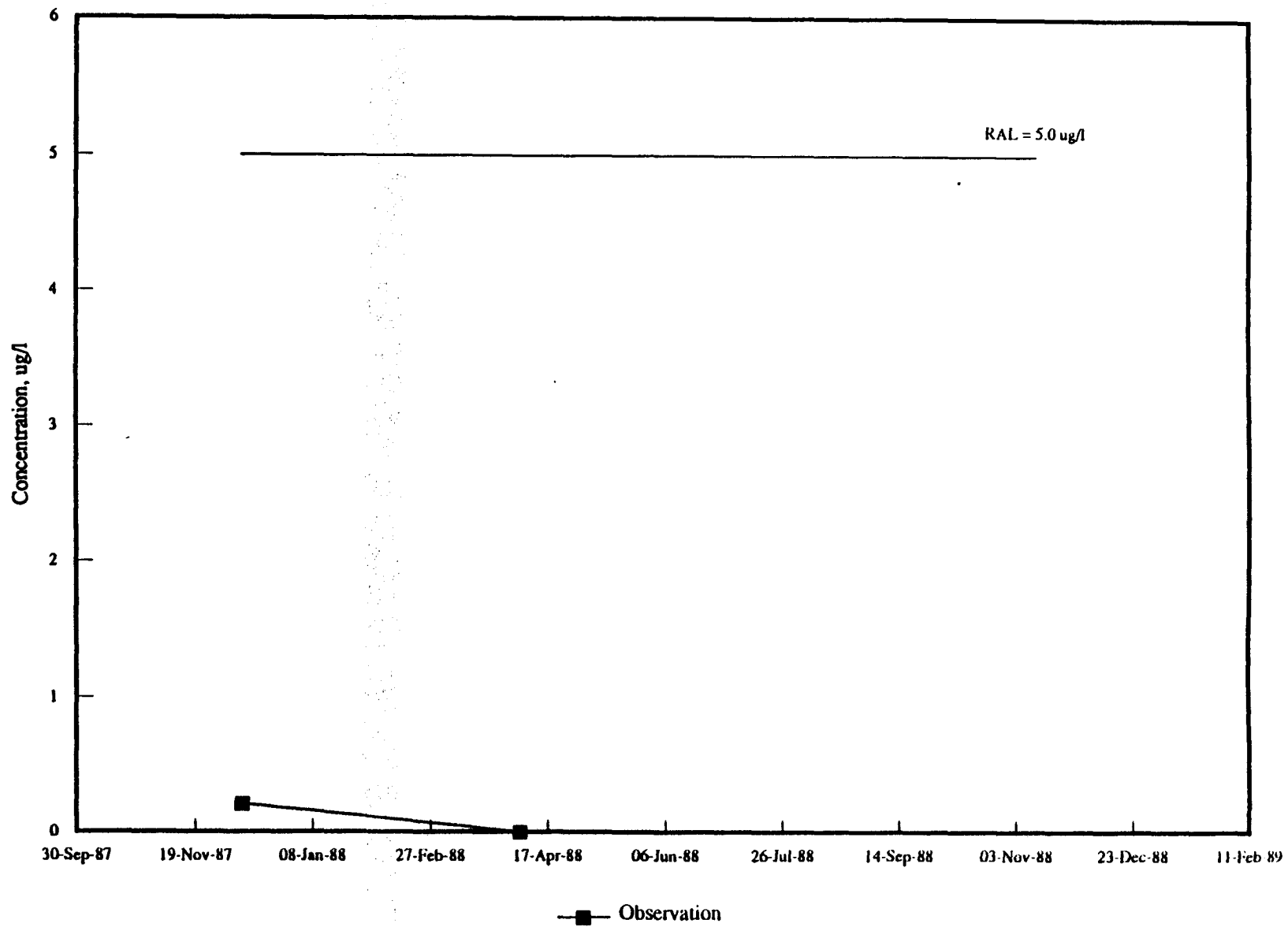
TRICHLOROETHENE - WELL 01U120



BARIUM - WELL 01U122

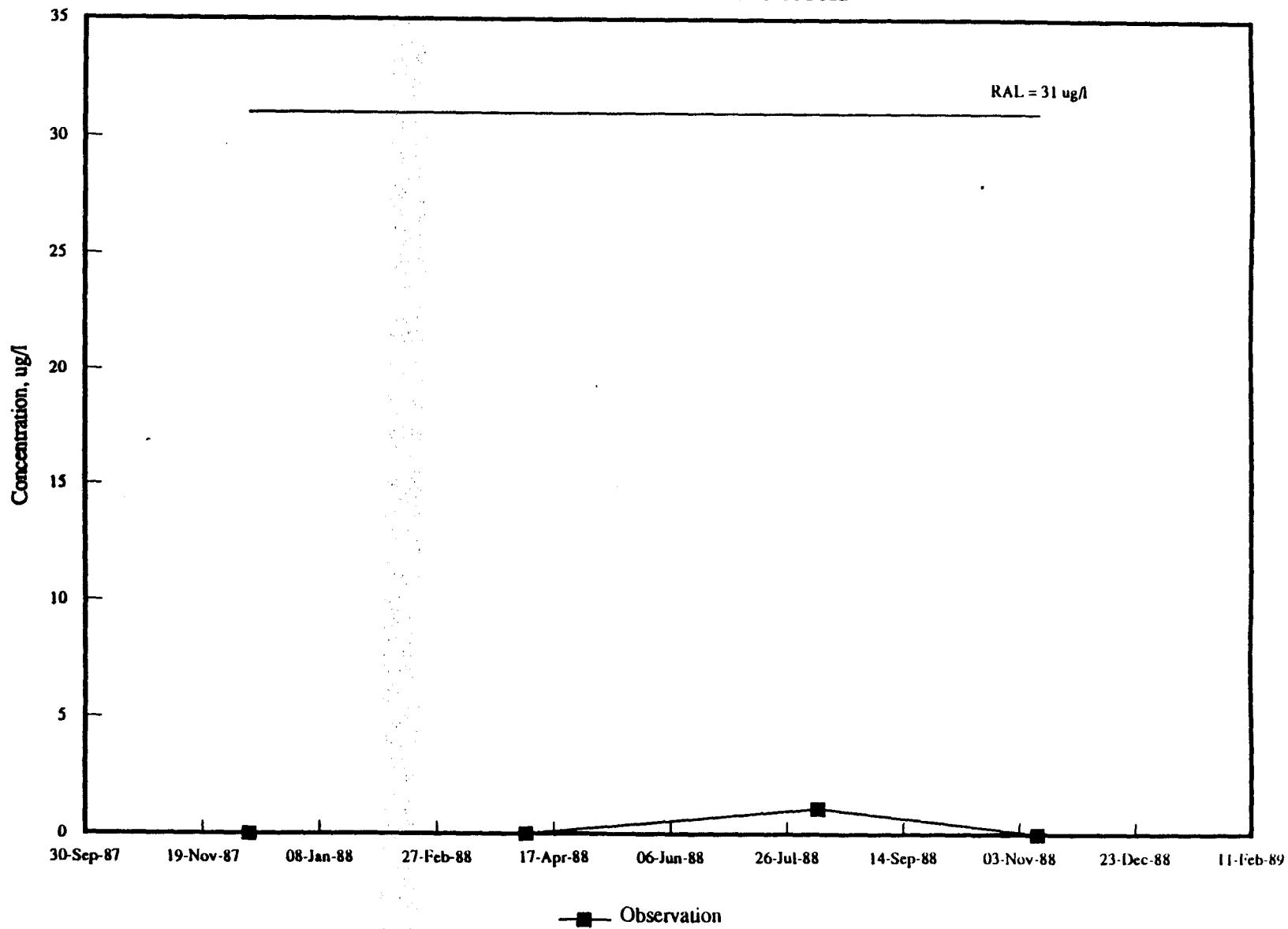


CADMIUM - WELL 01U122

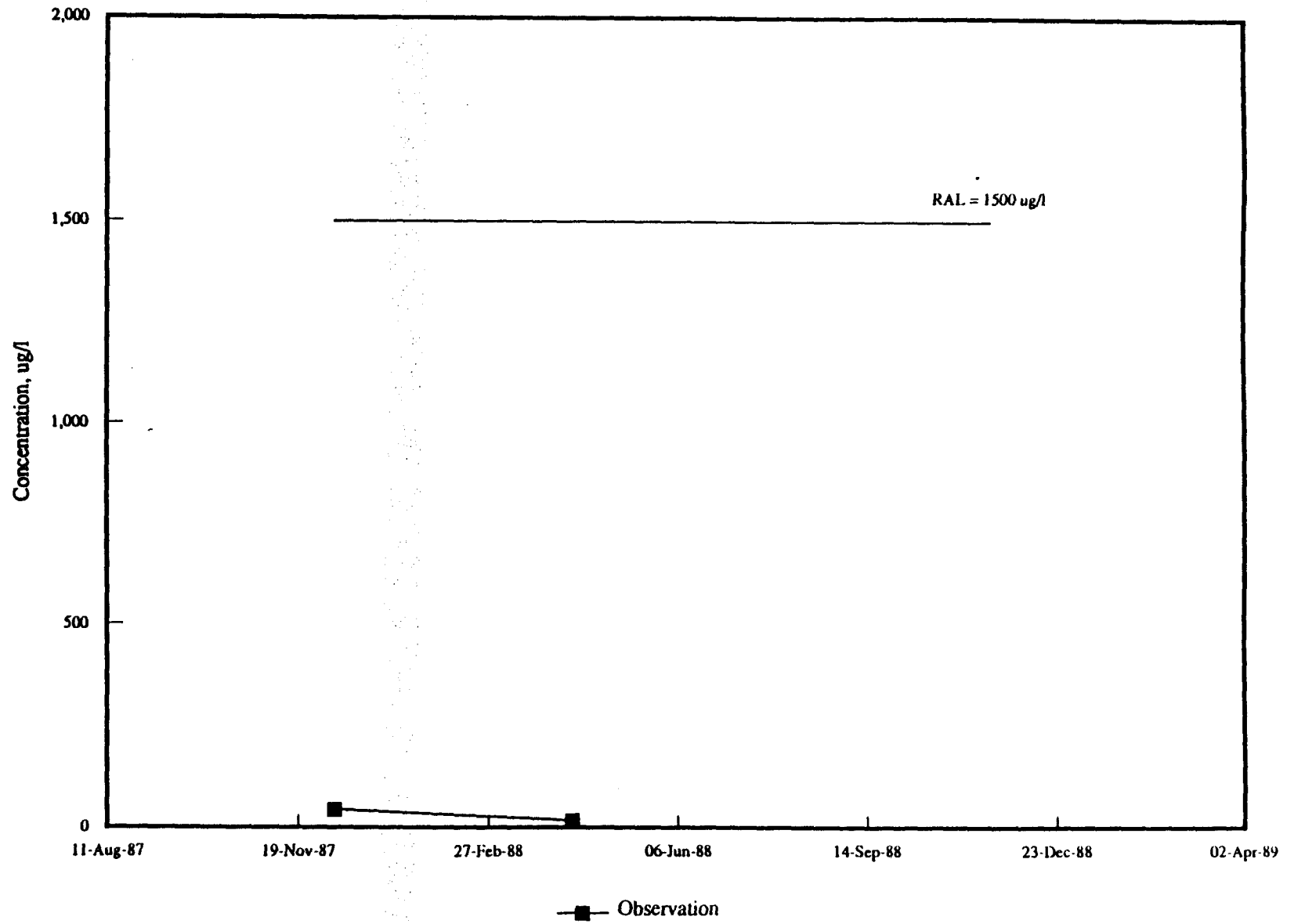




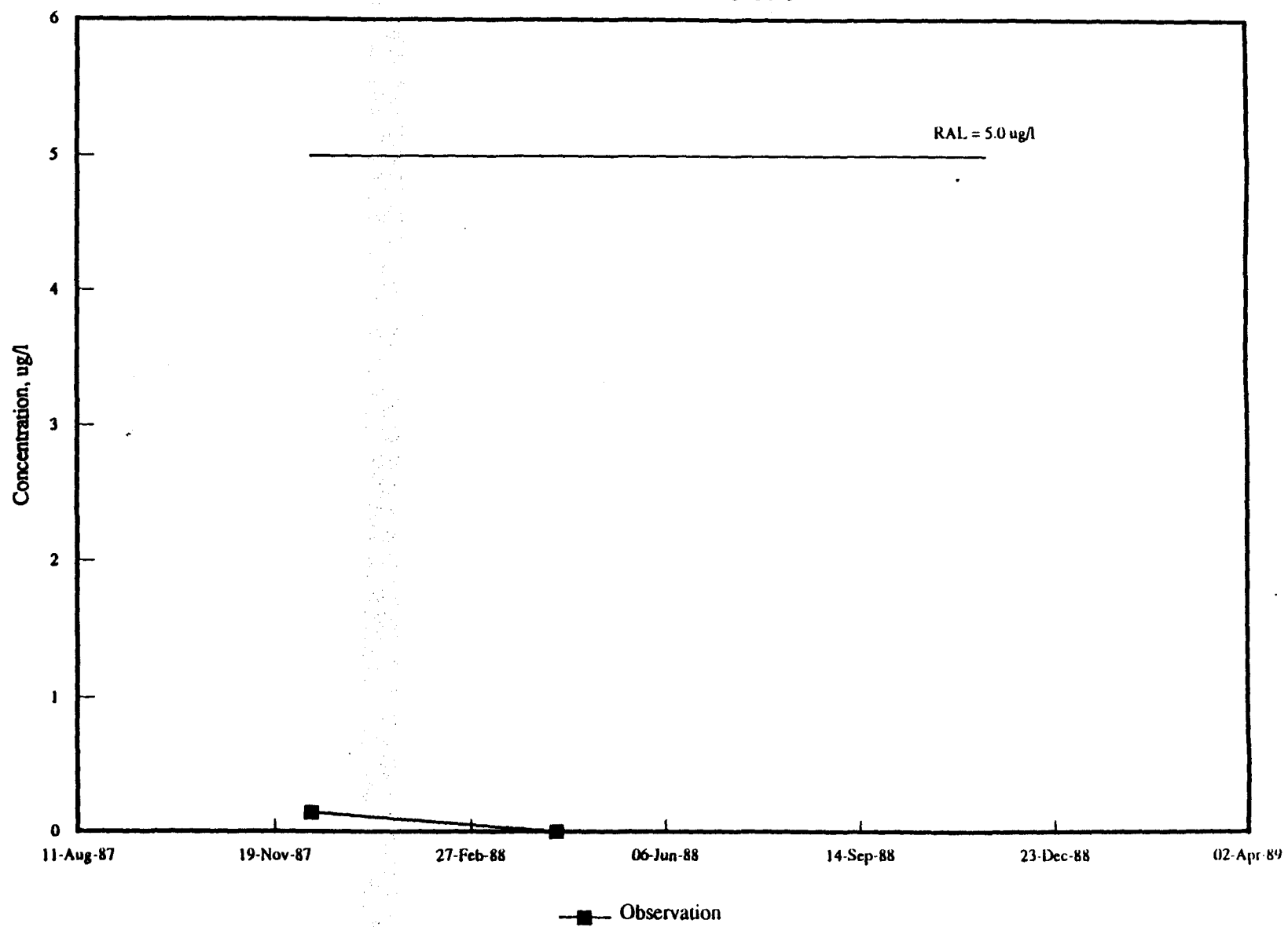
TRICHLOROETHENE - WELL 01U122



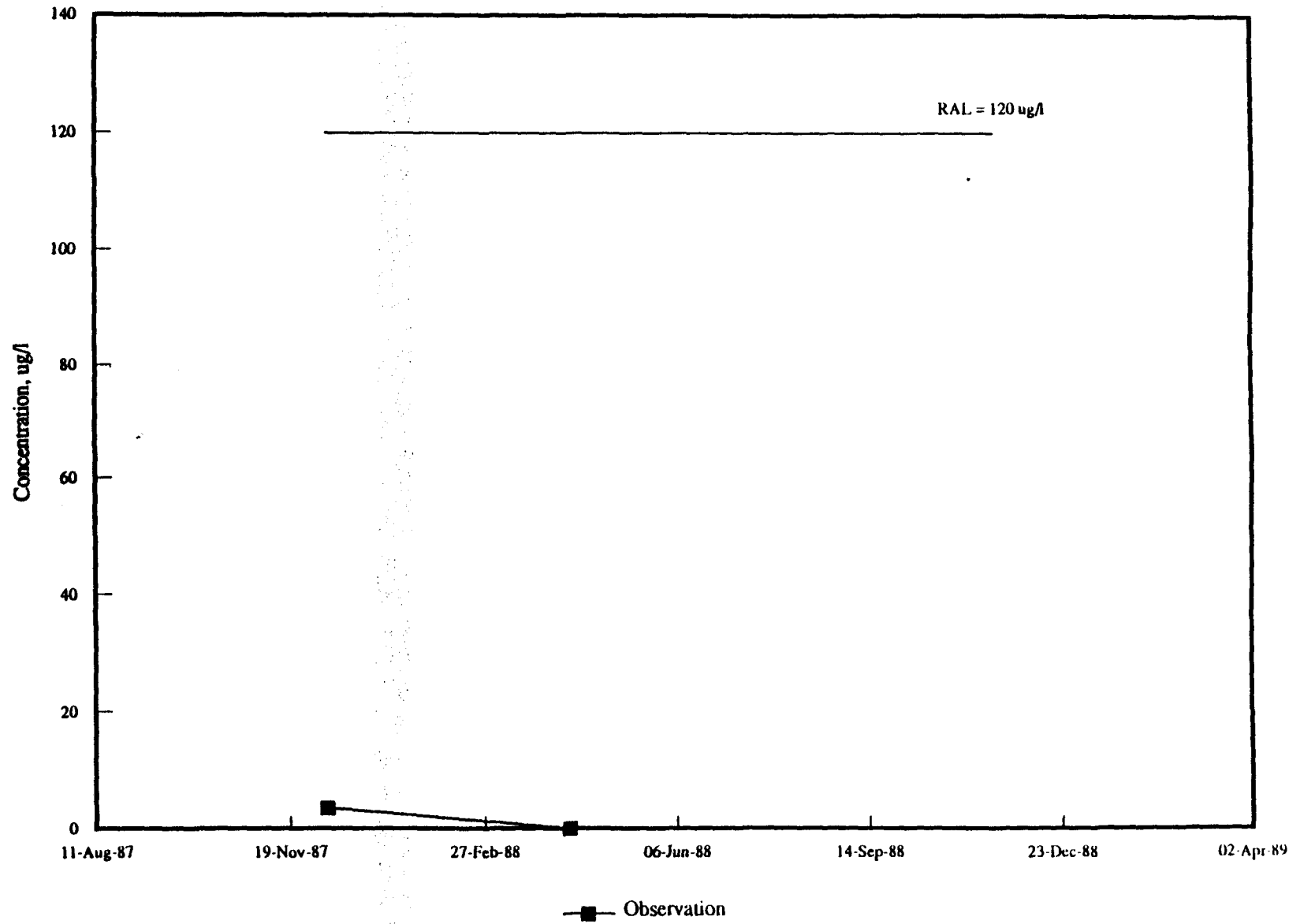
BARIUM - WELL 01U125



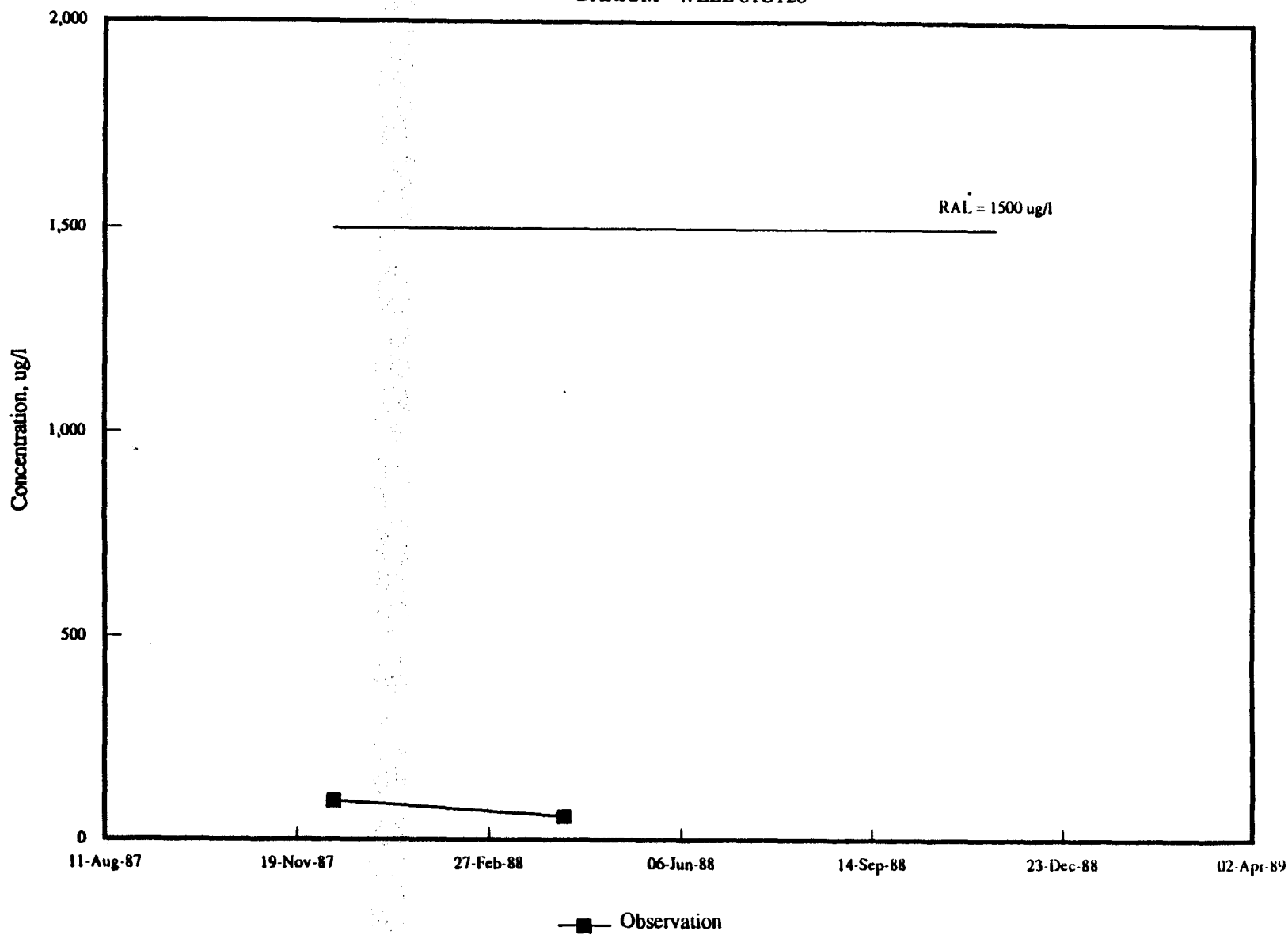
CADMIUM - WELL 01U125



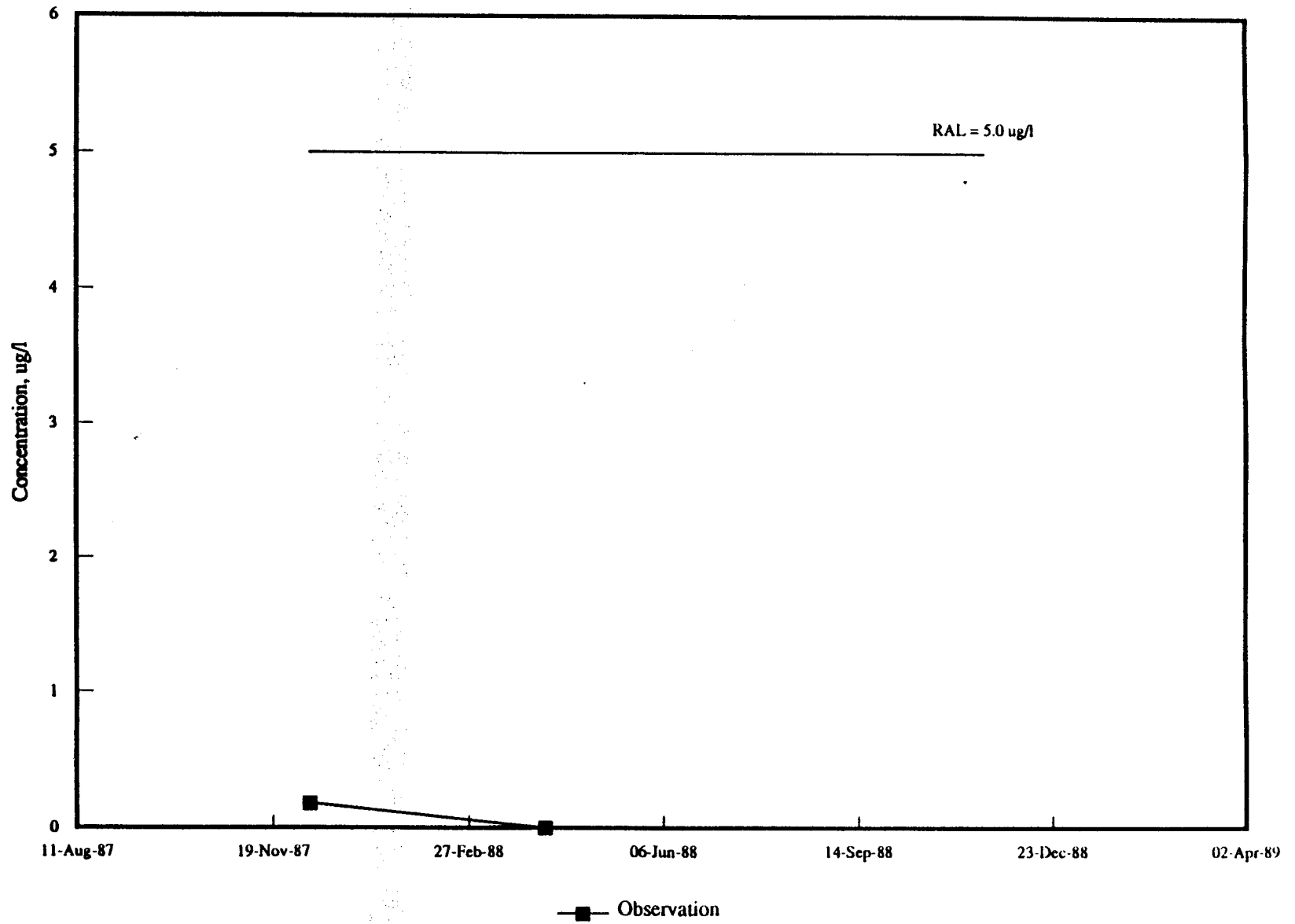
CHROMIUM - WELL 01U125



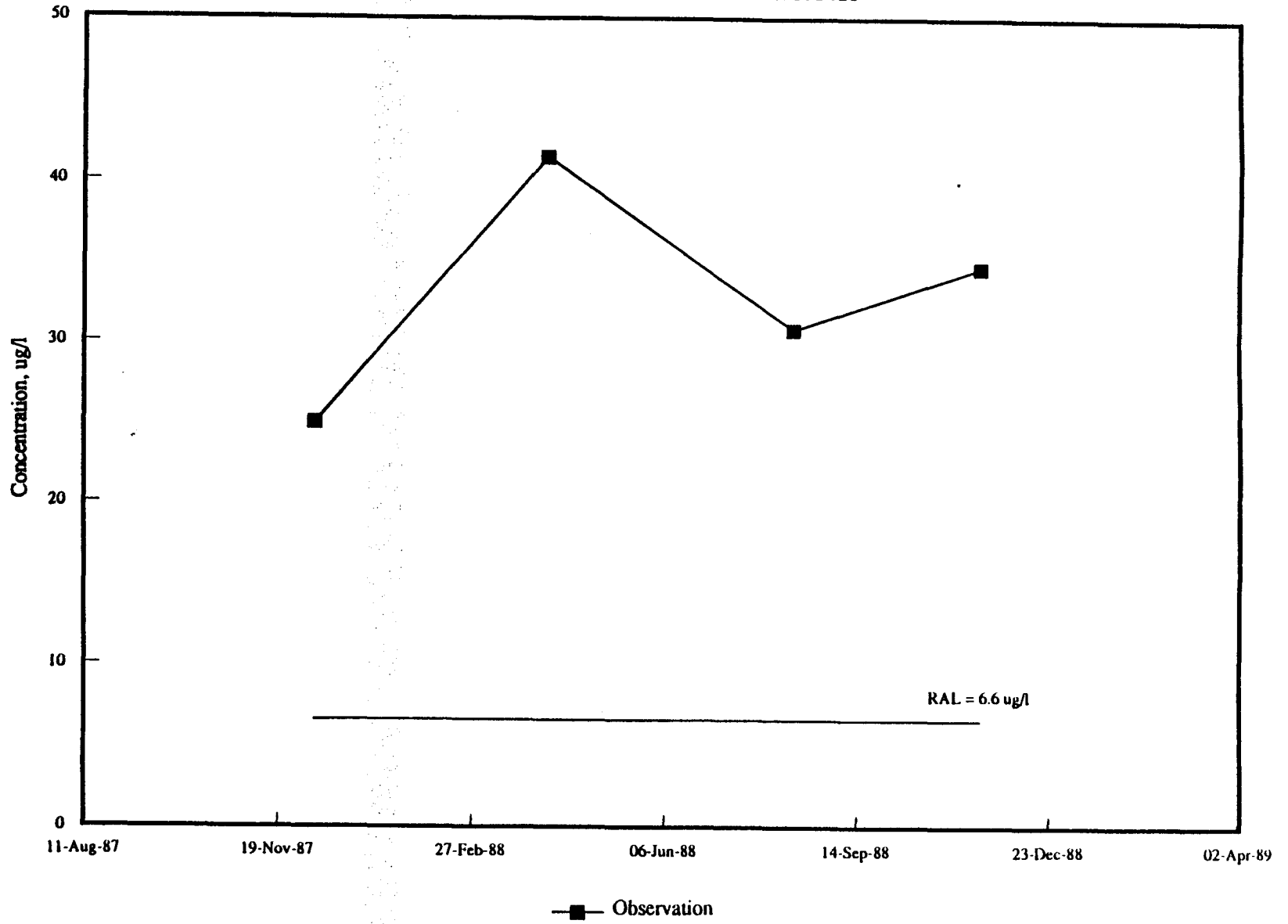
BARIUM - WELL 01U126



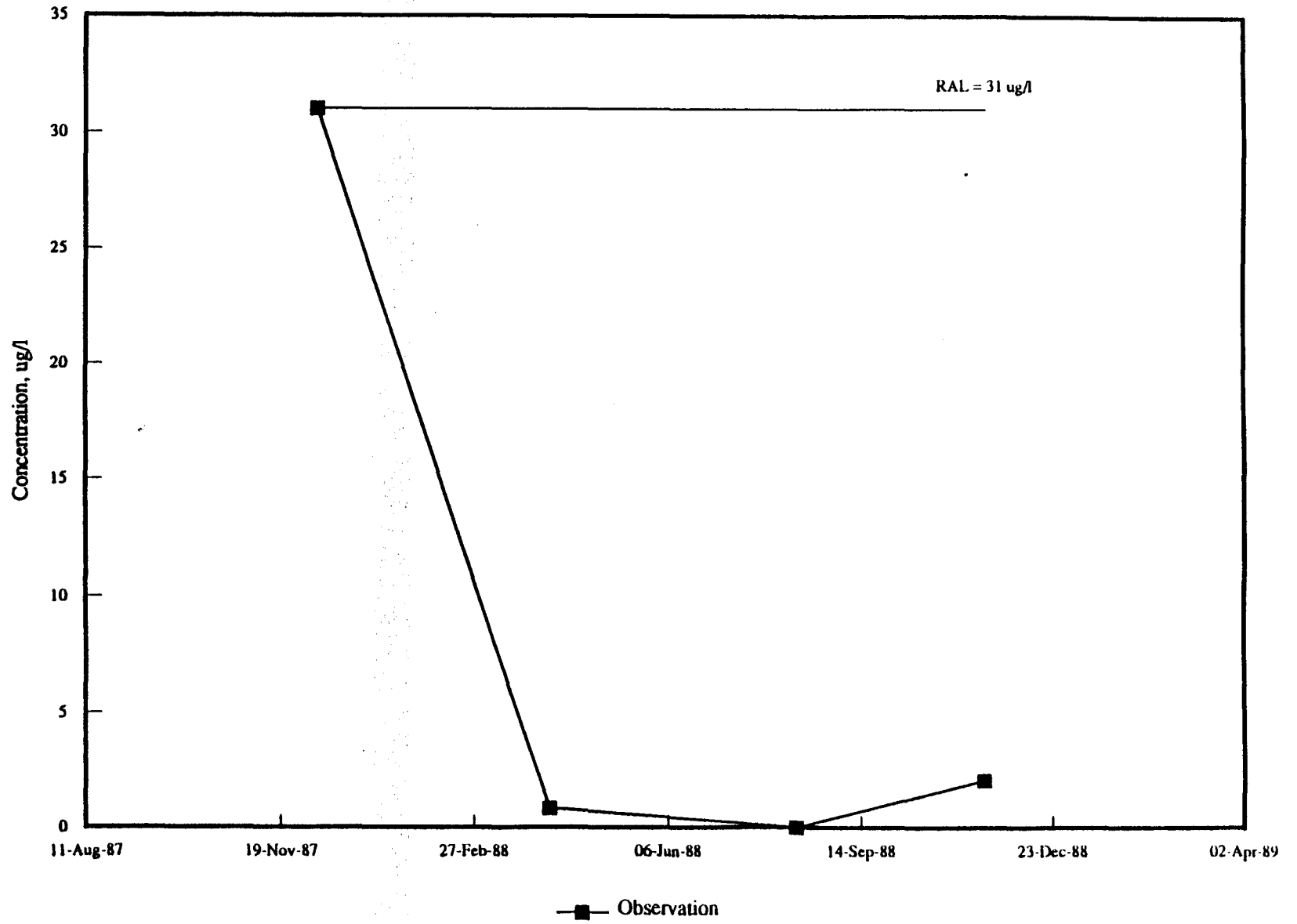
CADMIUM - WELL 01U126



TETRACHLOROETHENE - WELL 01U126

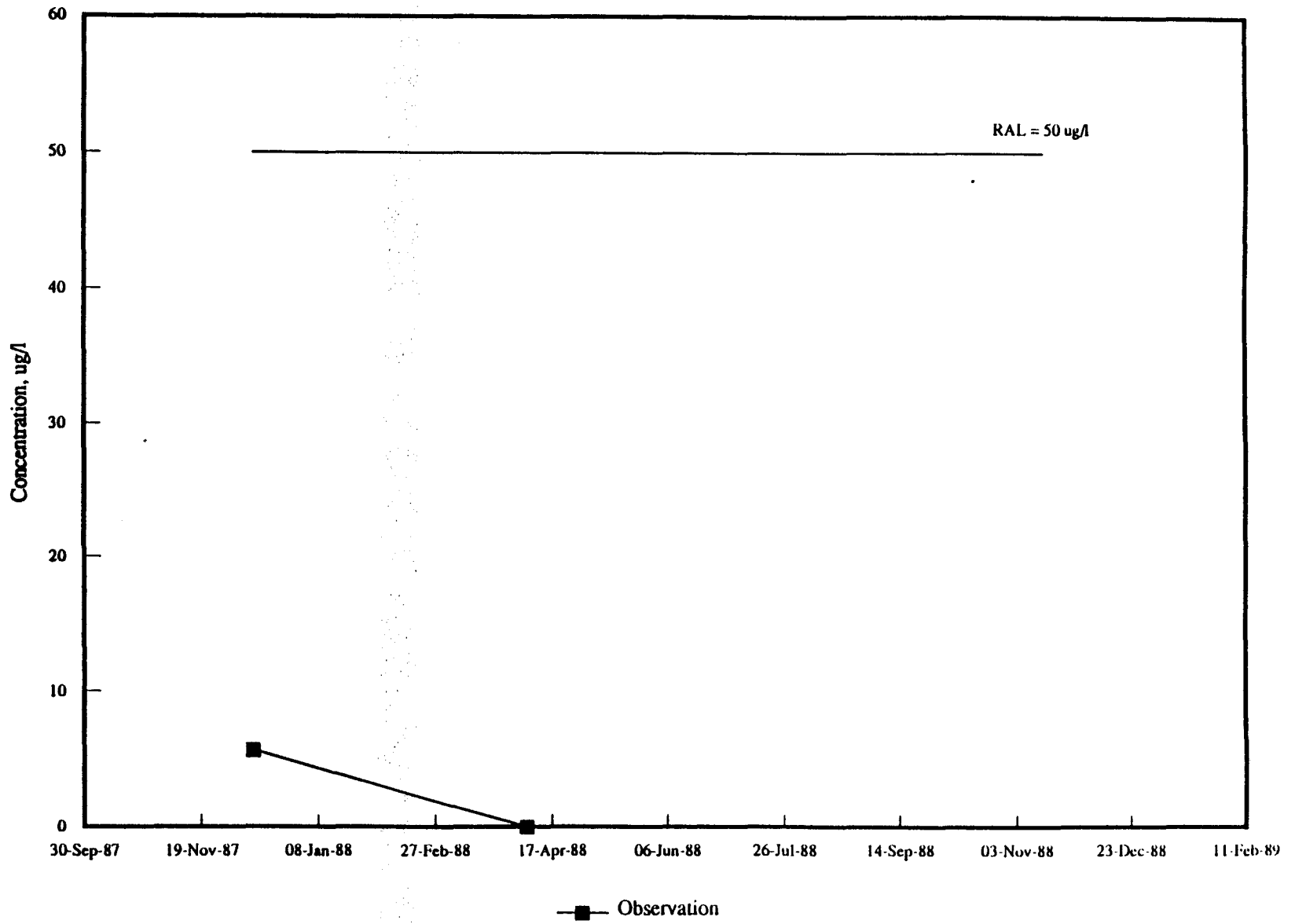


TRICHLOROETHENE - WELL 01U126

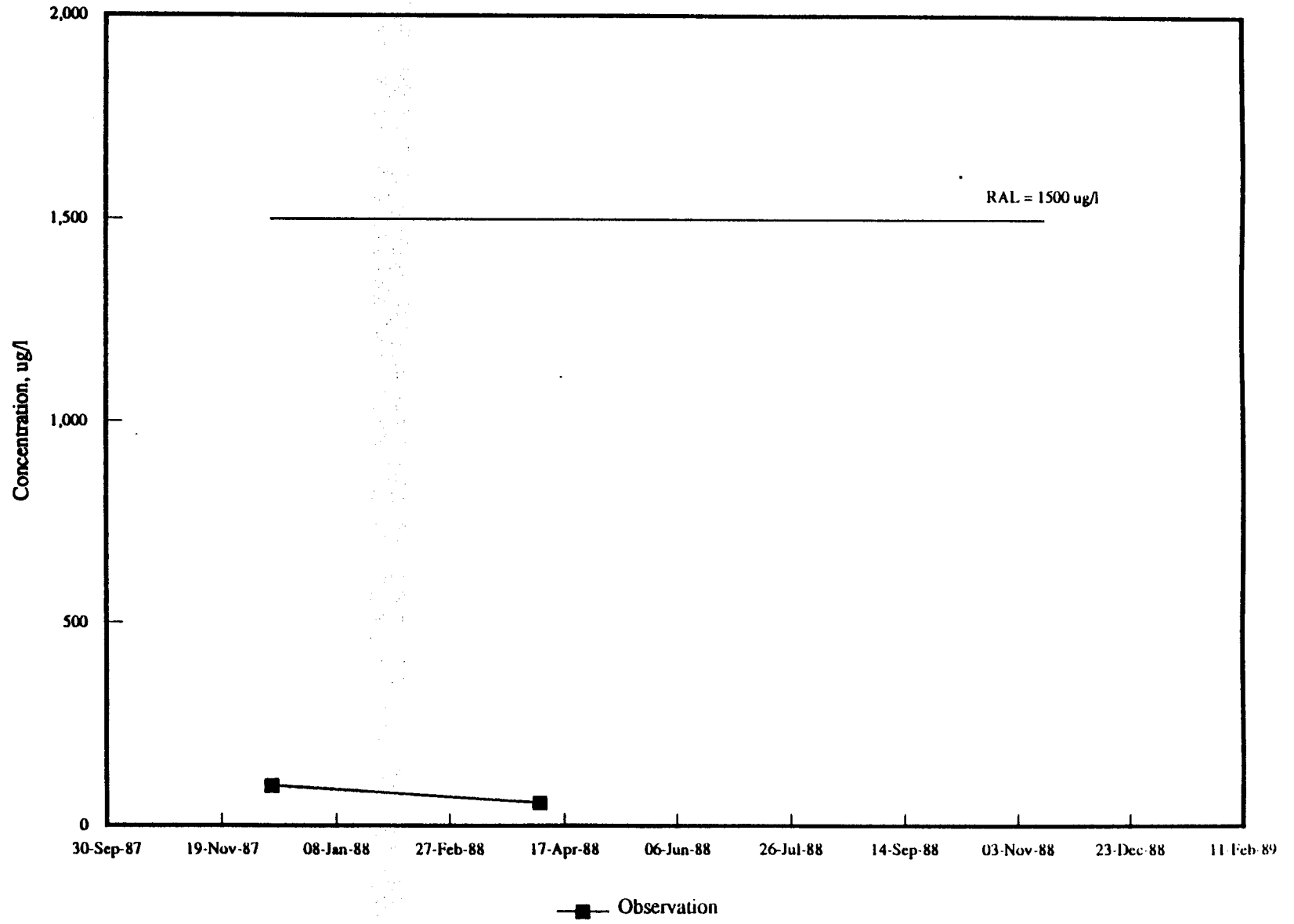




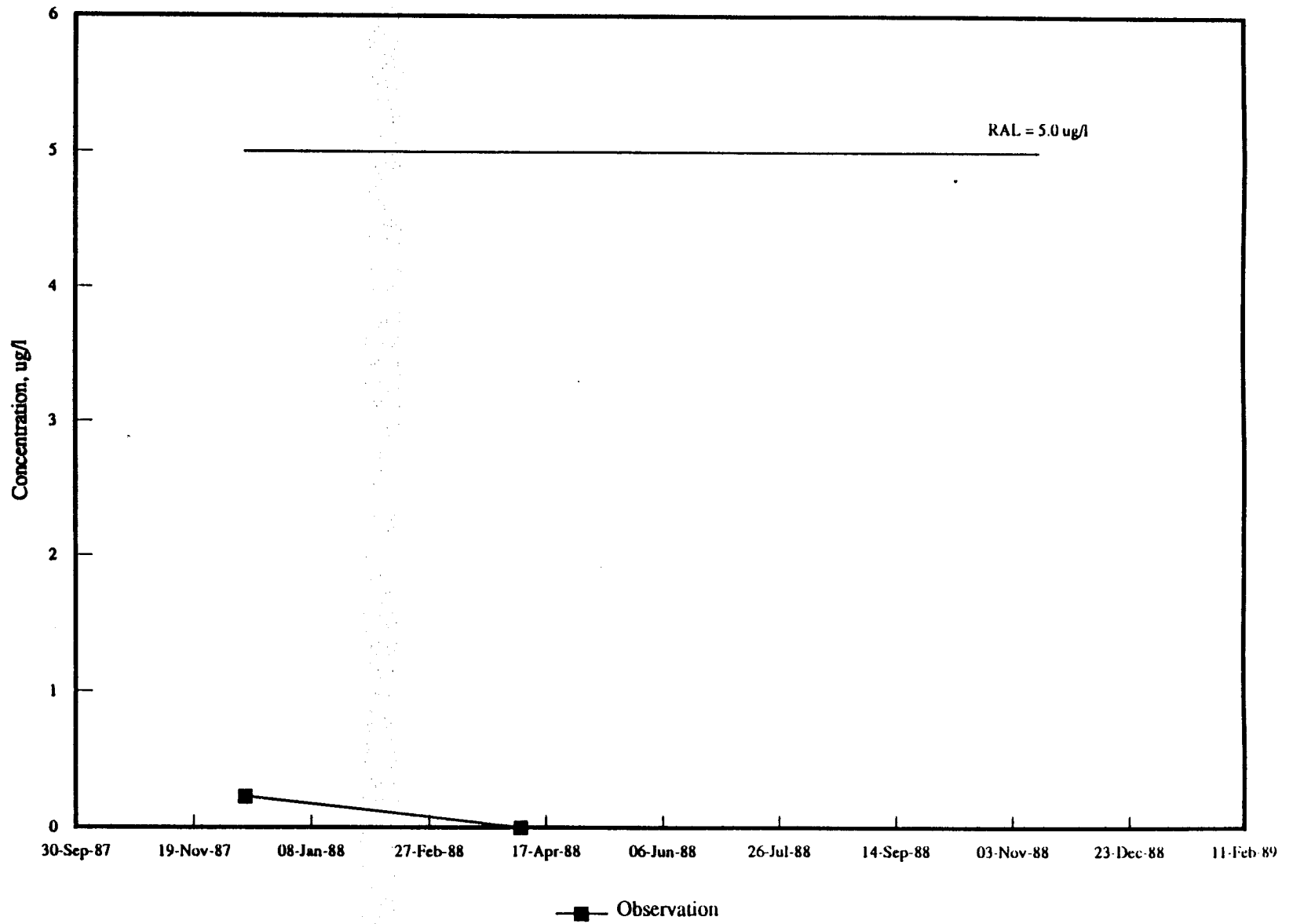
ARSENIC - WELL 01U127



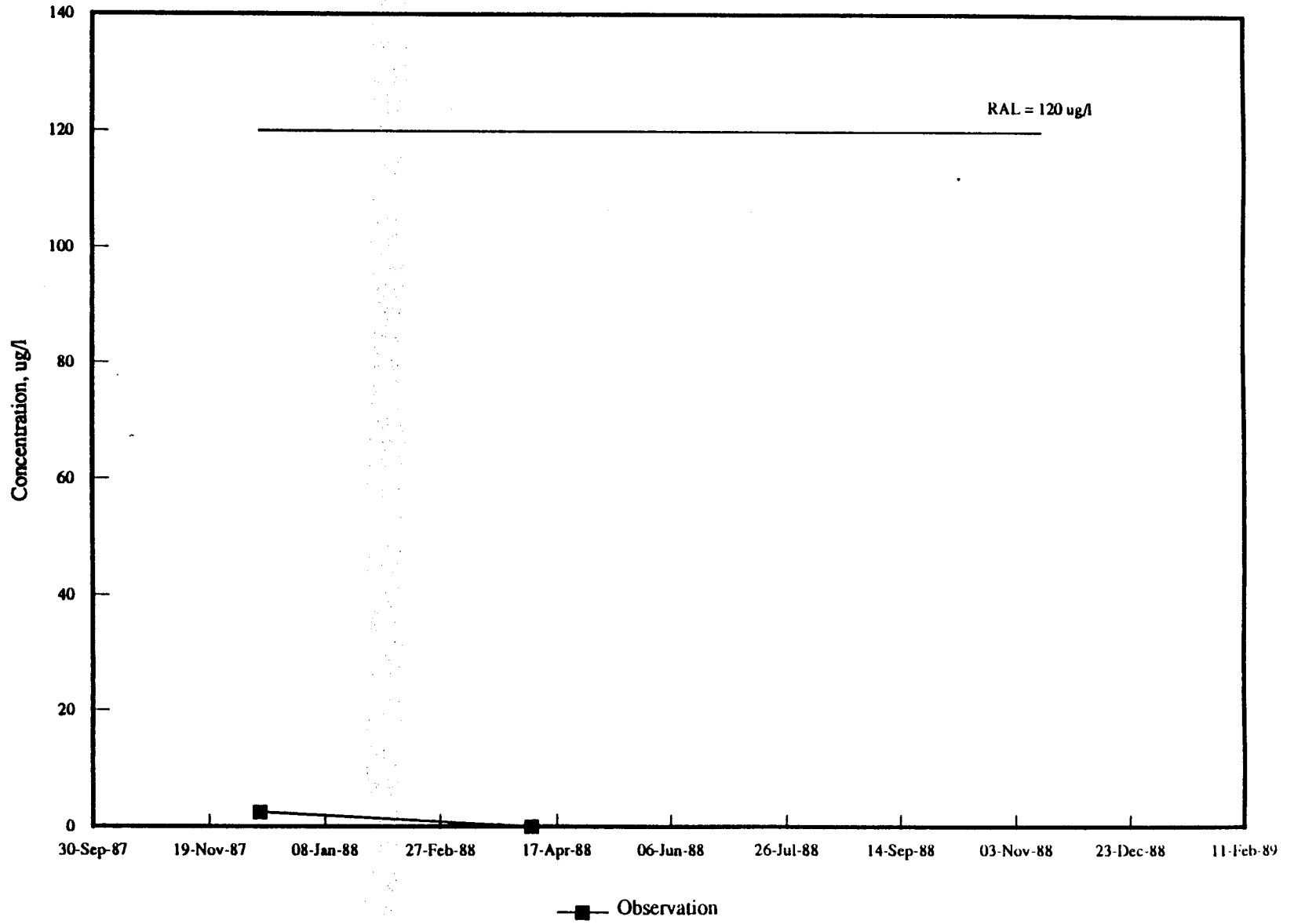
BARIUM - WELL 01U127



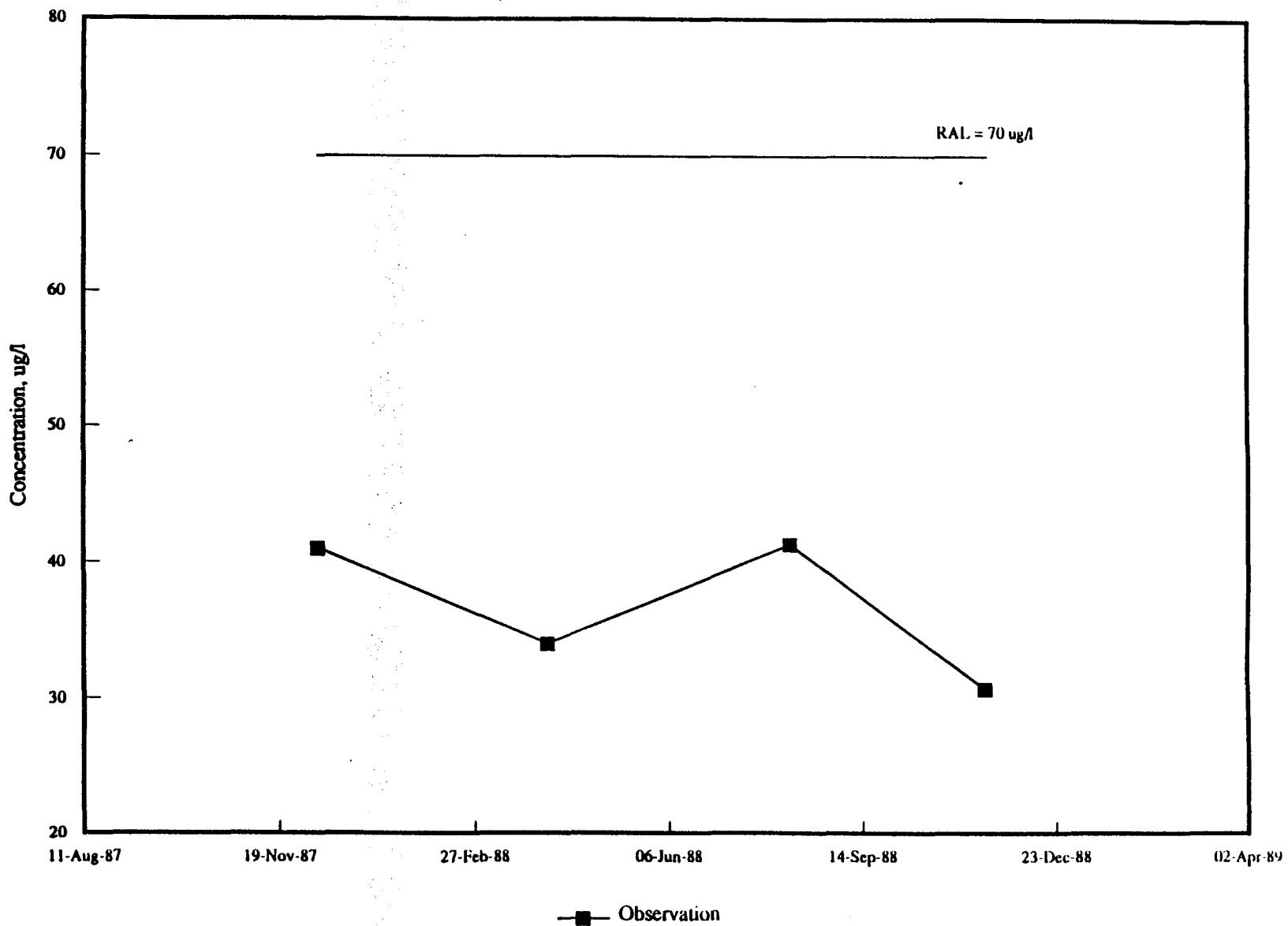
CADMIUM - WELL 01U127



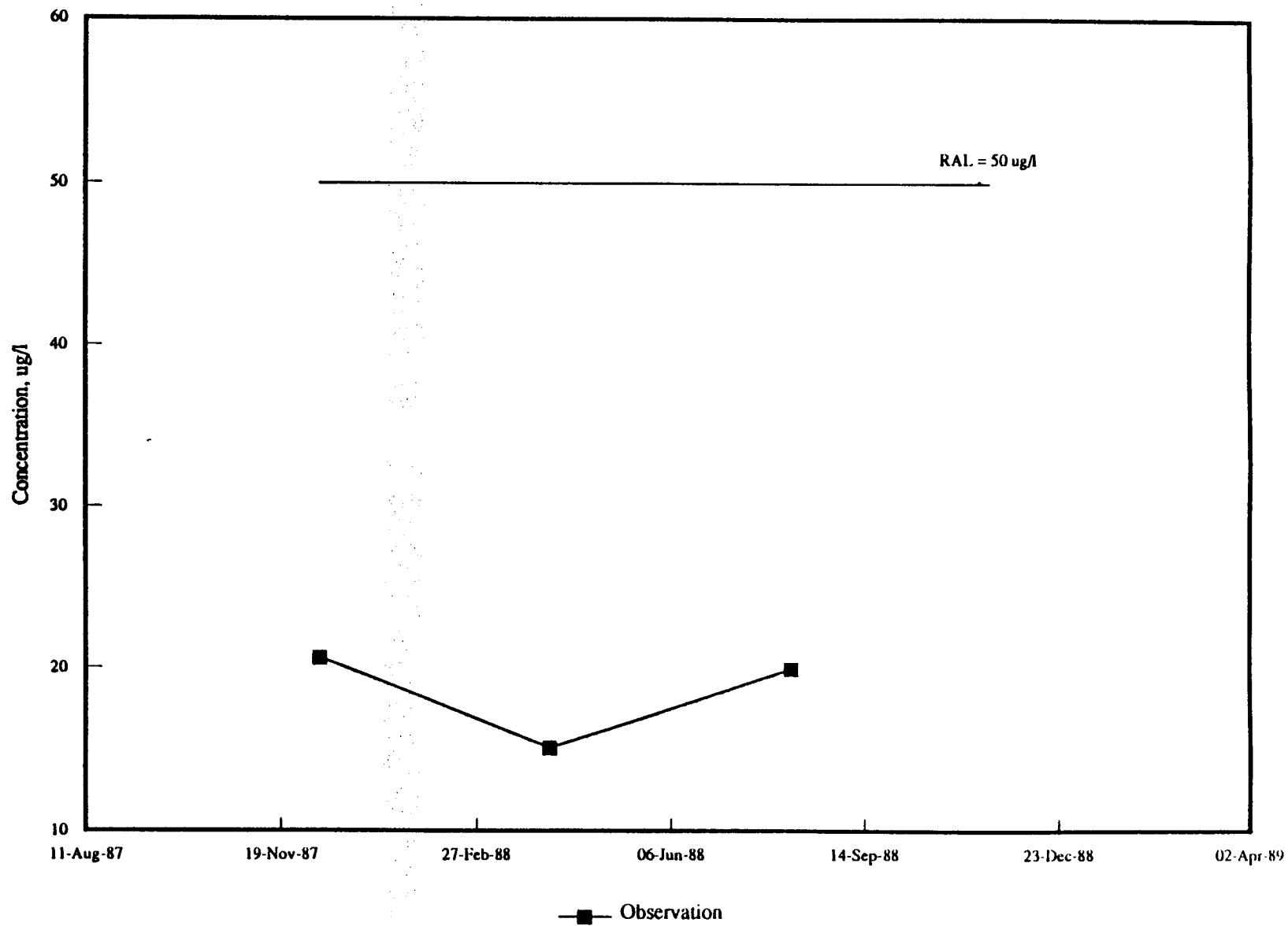
CHROMIUM - WELL 01U127



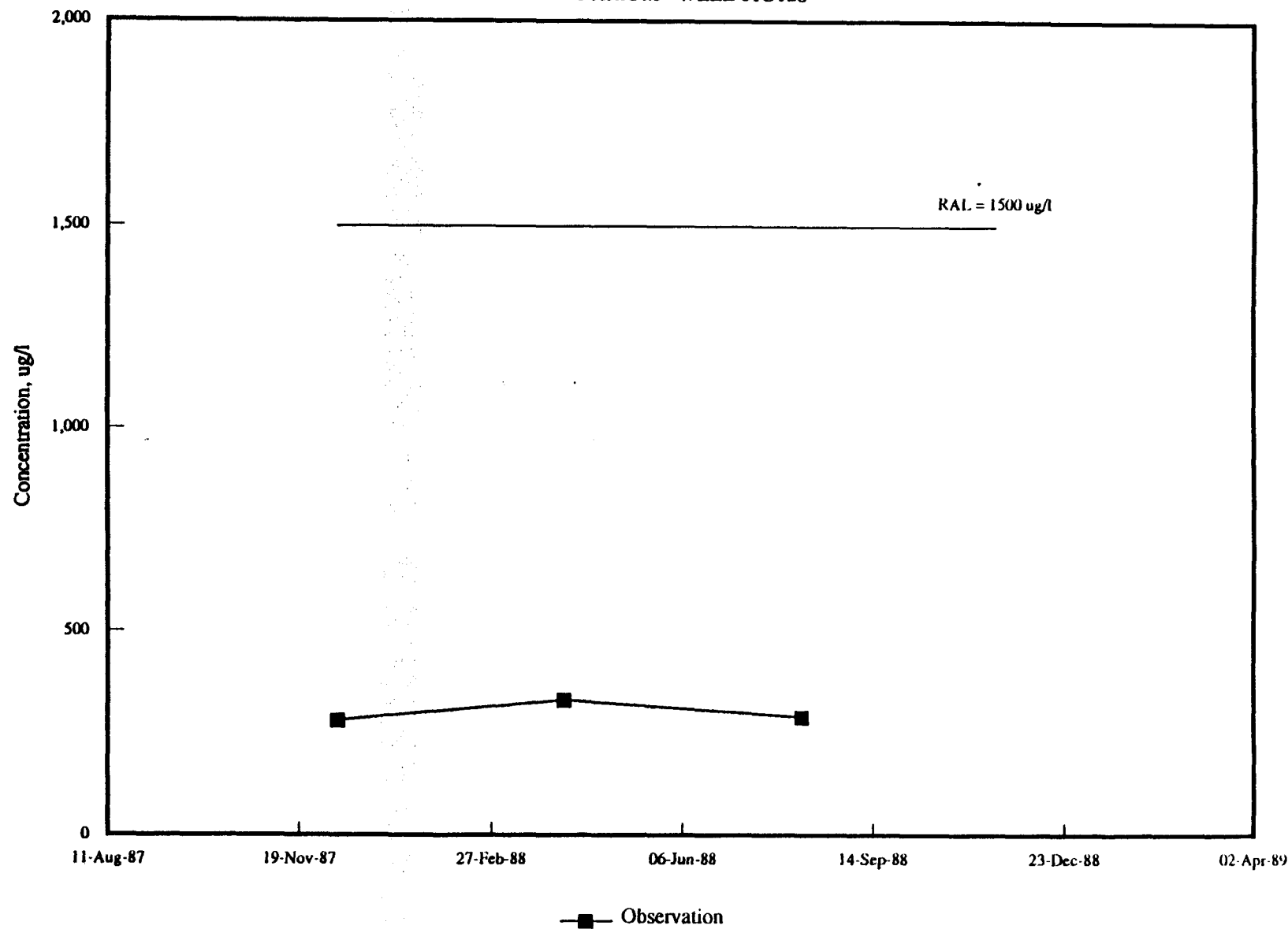
1,2-DICHLOROETHENE - WELL 01U128



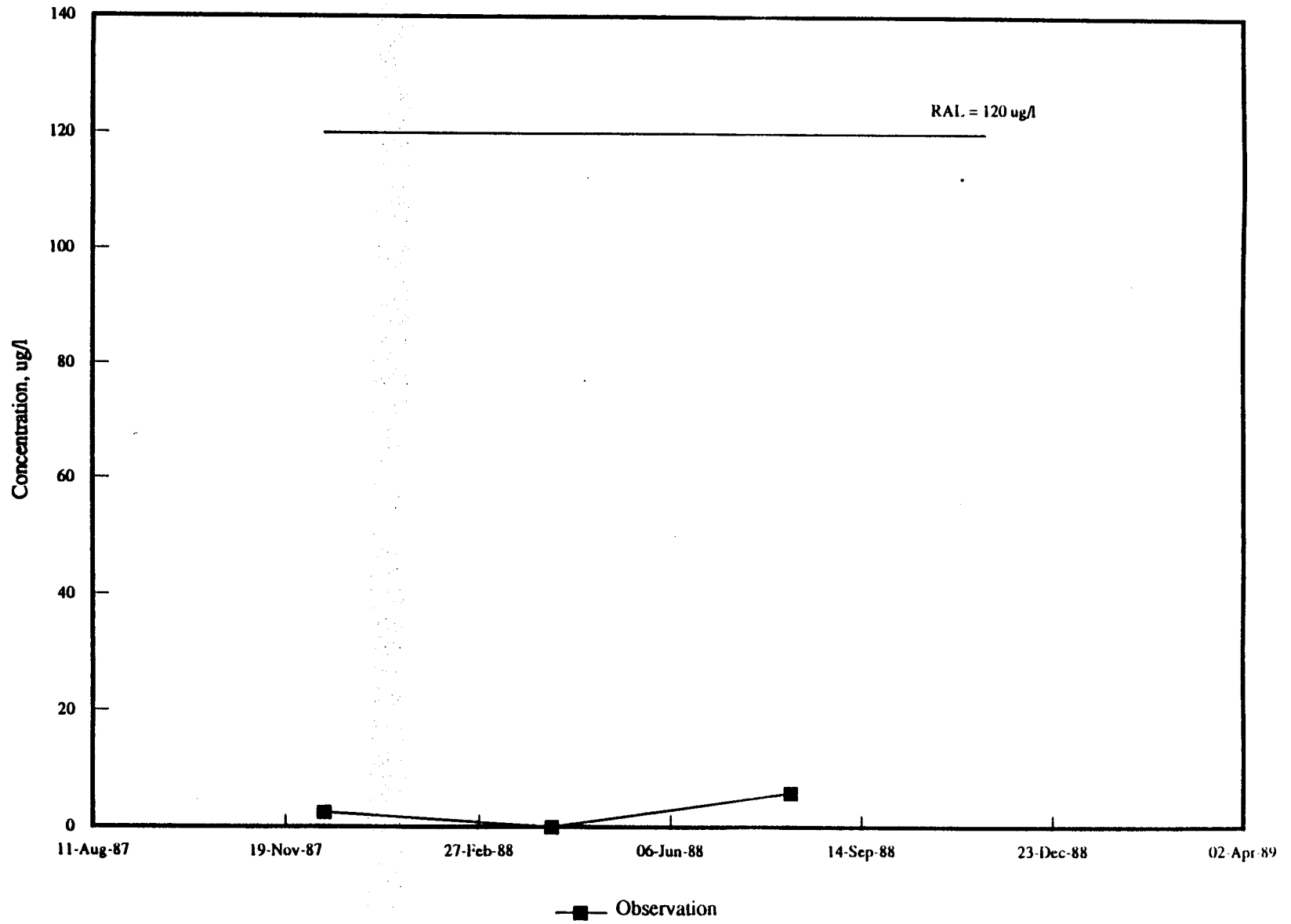
ARSENIC - WELL 01U128



BARIUM - WELL 01U128

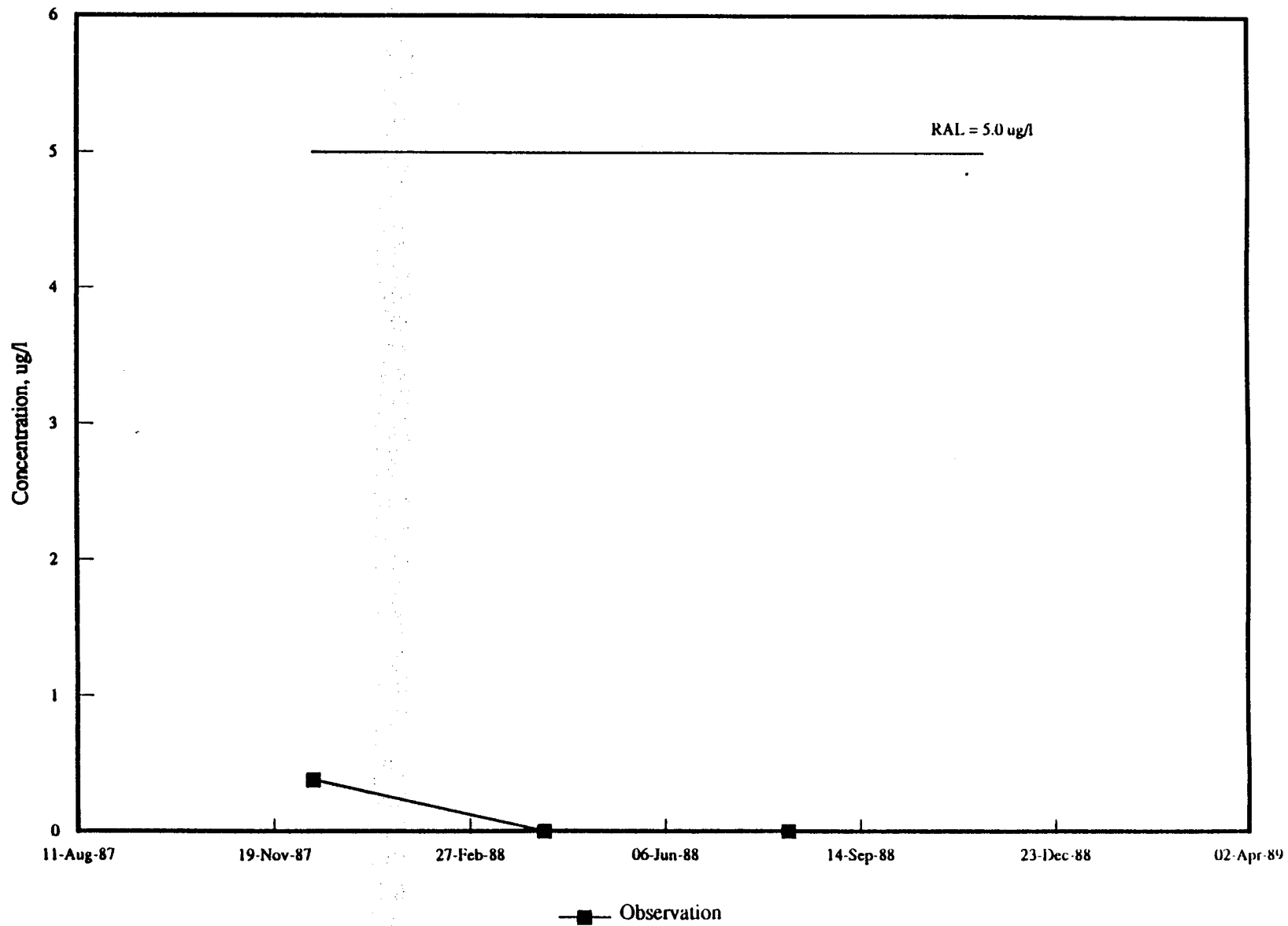


CHROMIUM - WELL 01U128

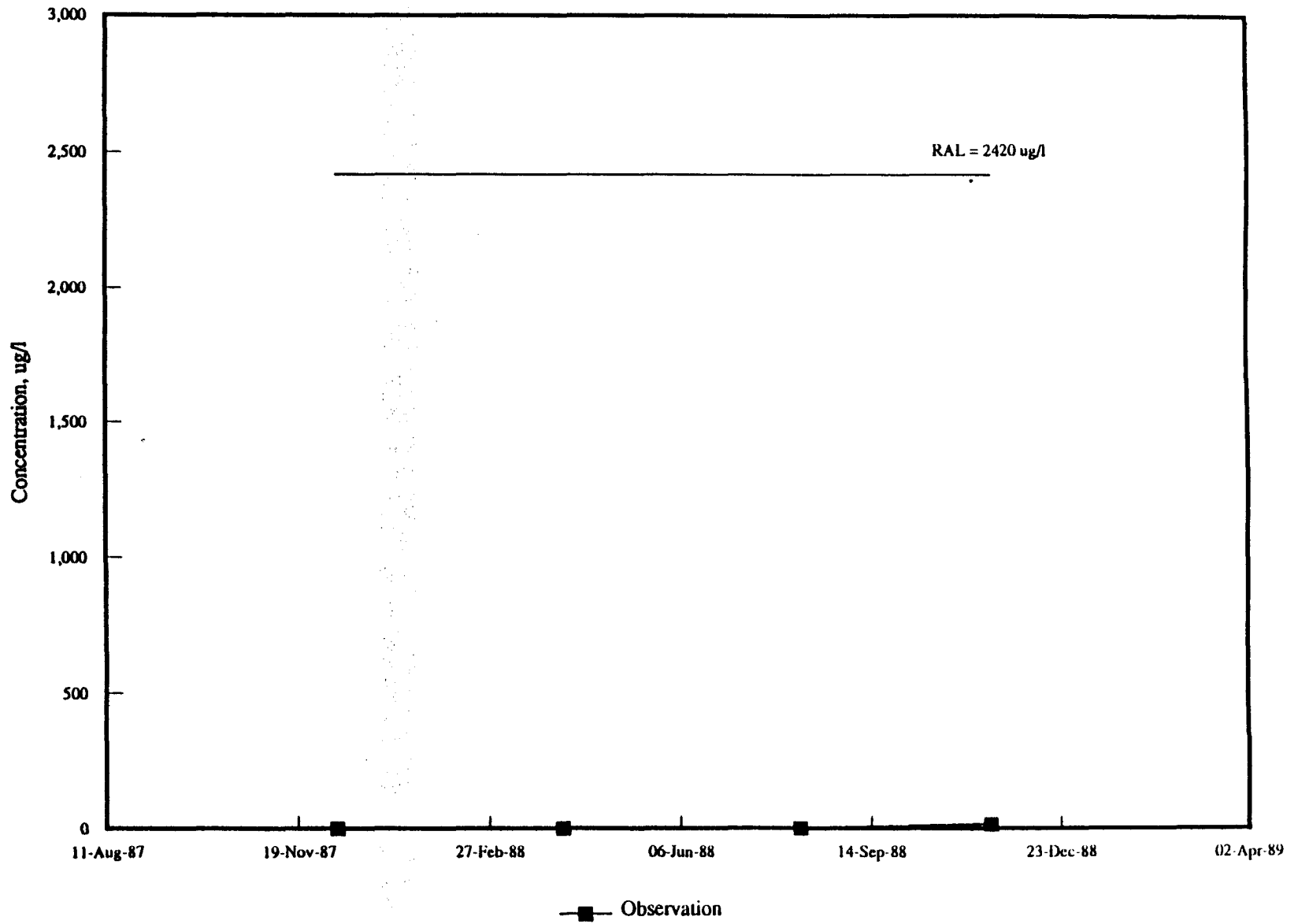




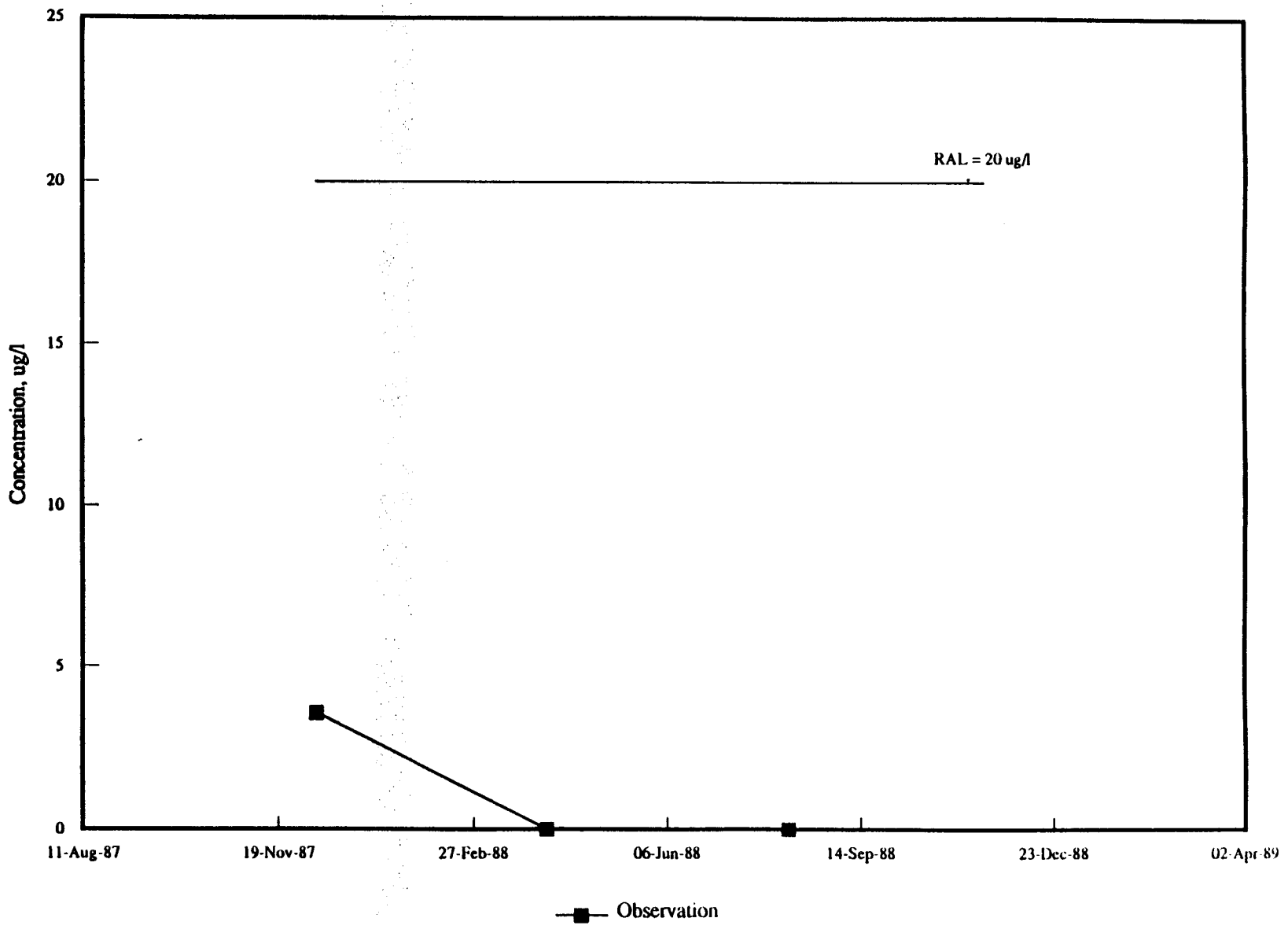
CADMIUM - WELL 01U128



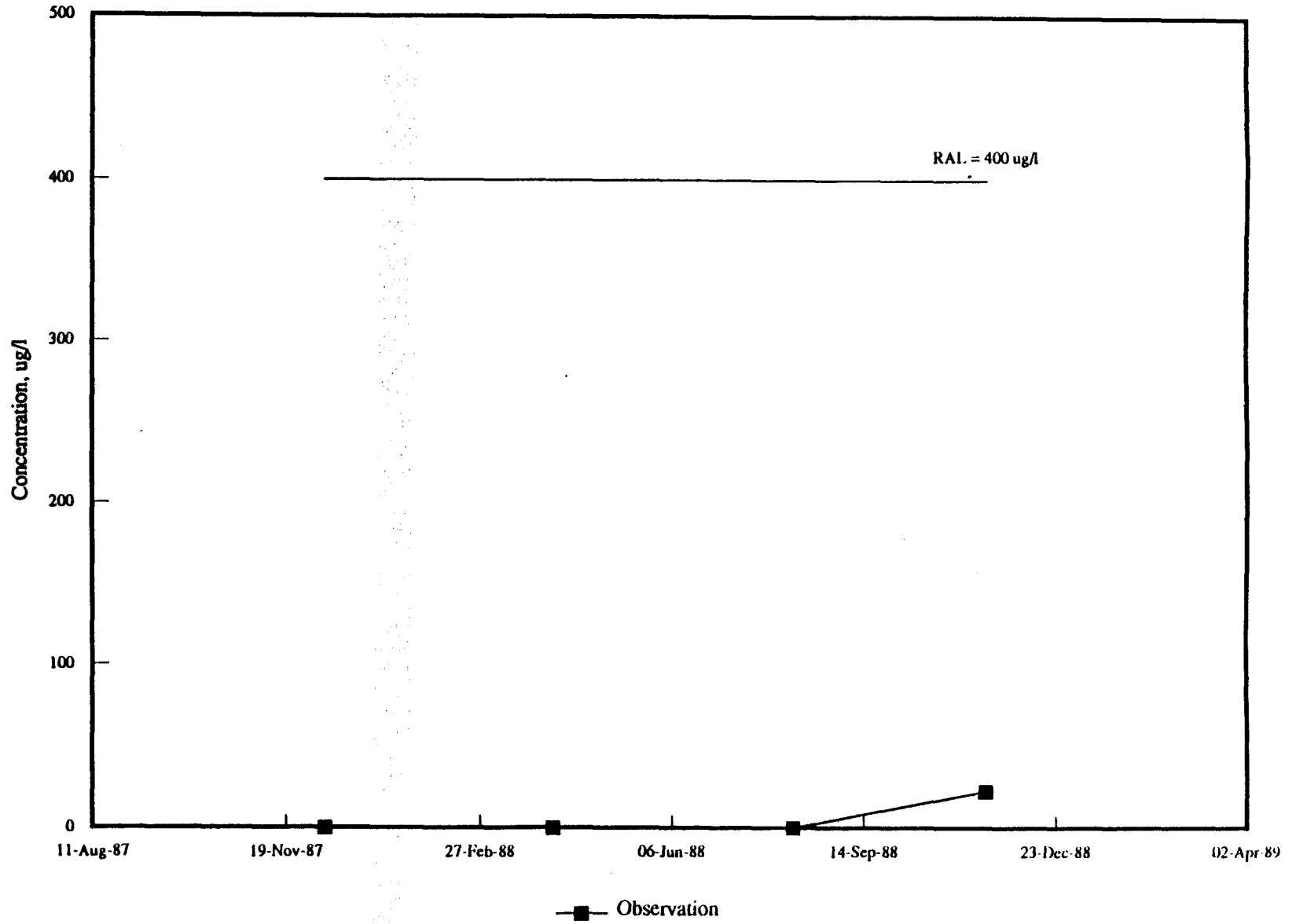
TOLUENE / METHYL BENZENE - WELL 01U128



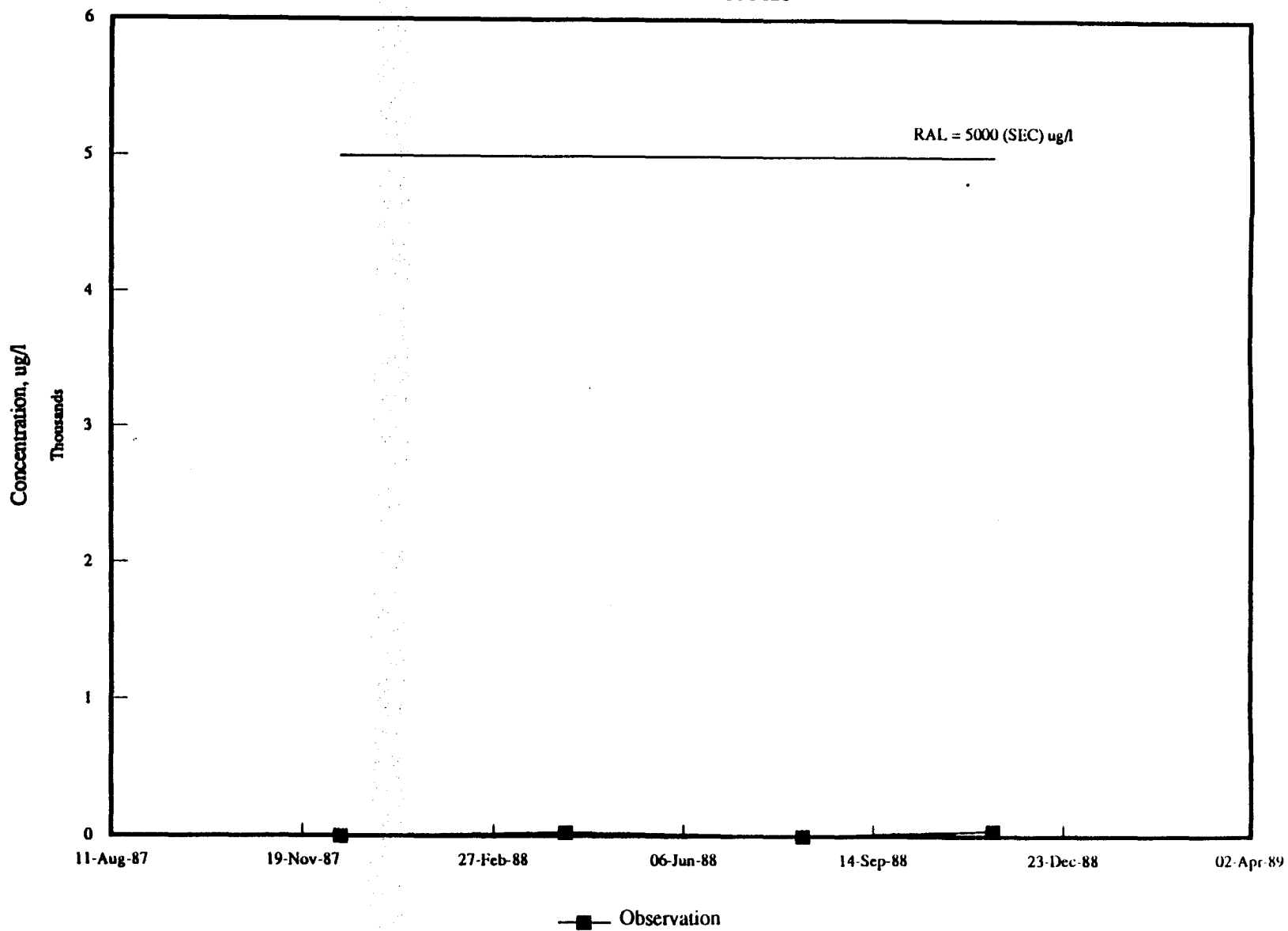
LEAD - WELL 01U128



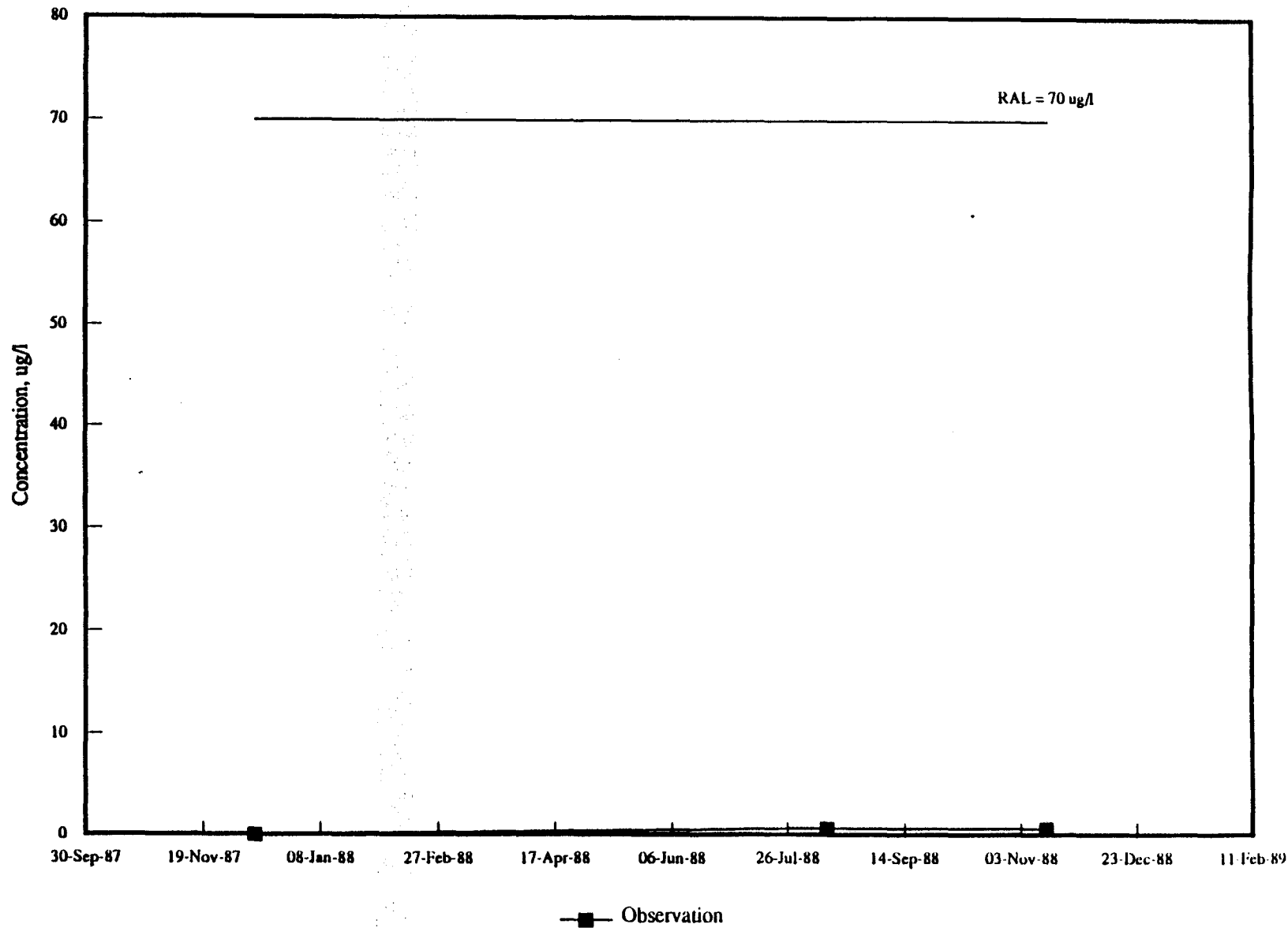
TOTAL XYLENES - WELL 01U128



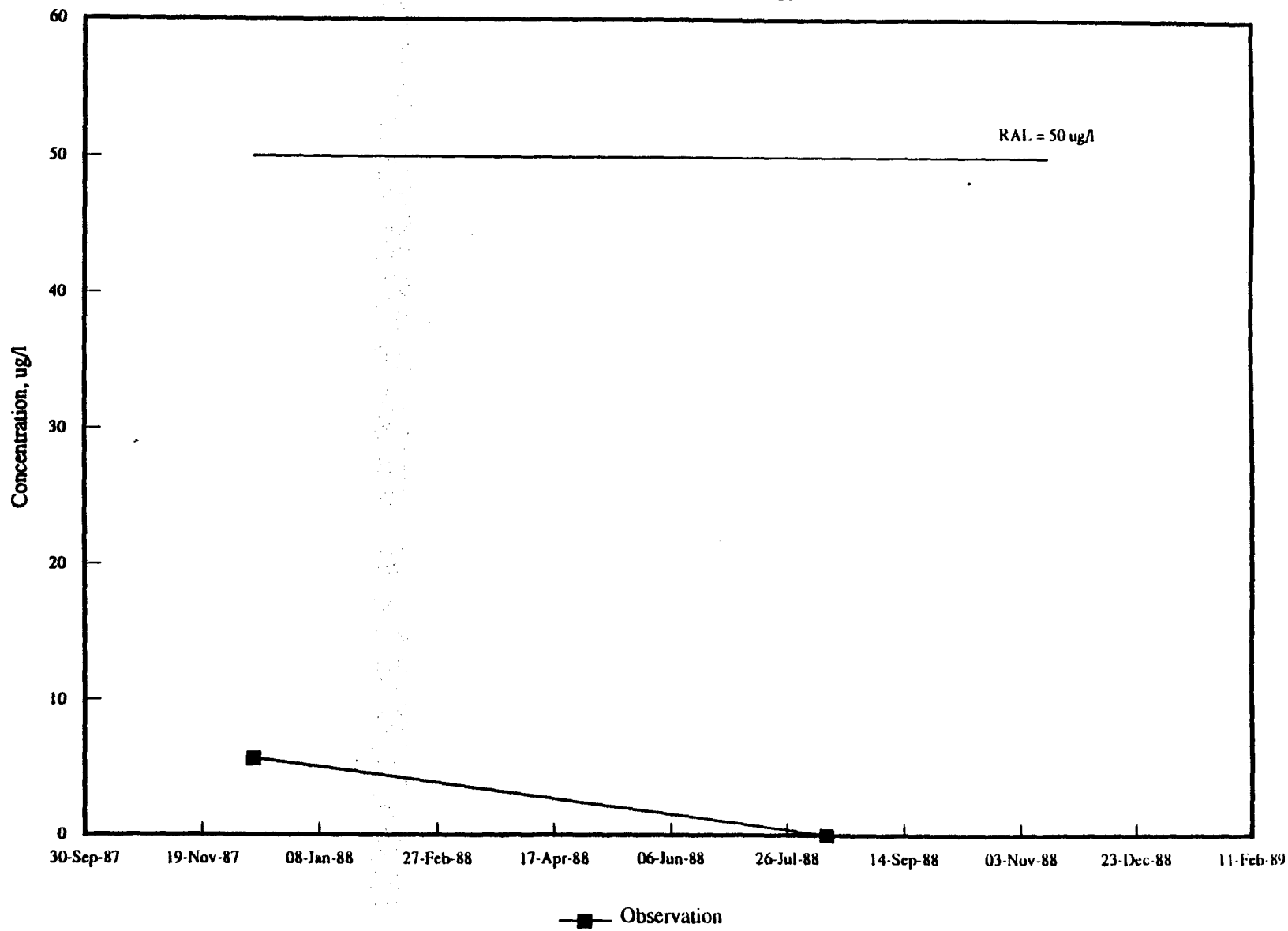
ZINC - WELL 01U128



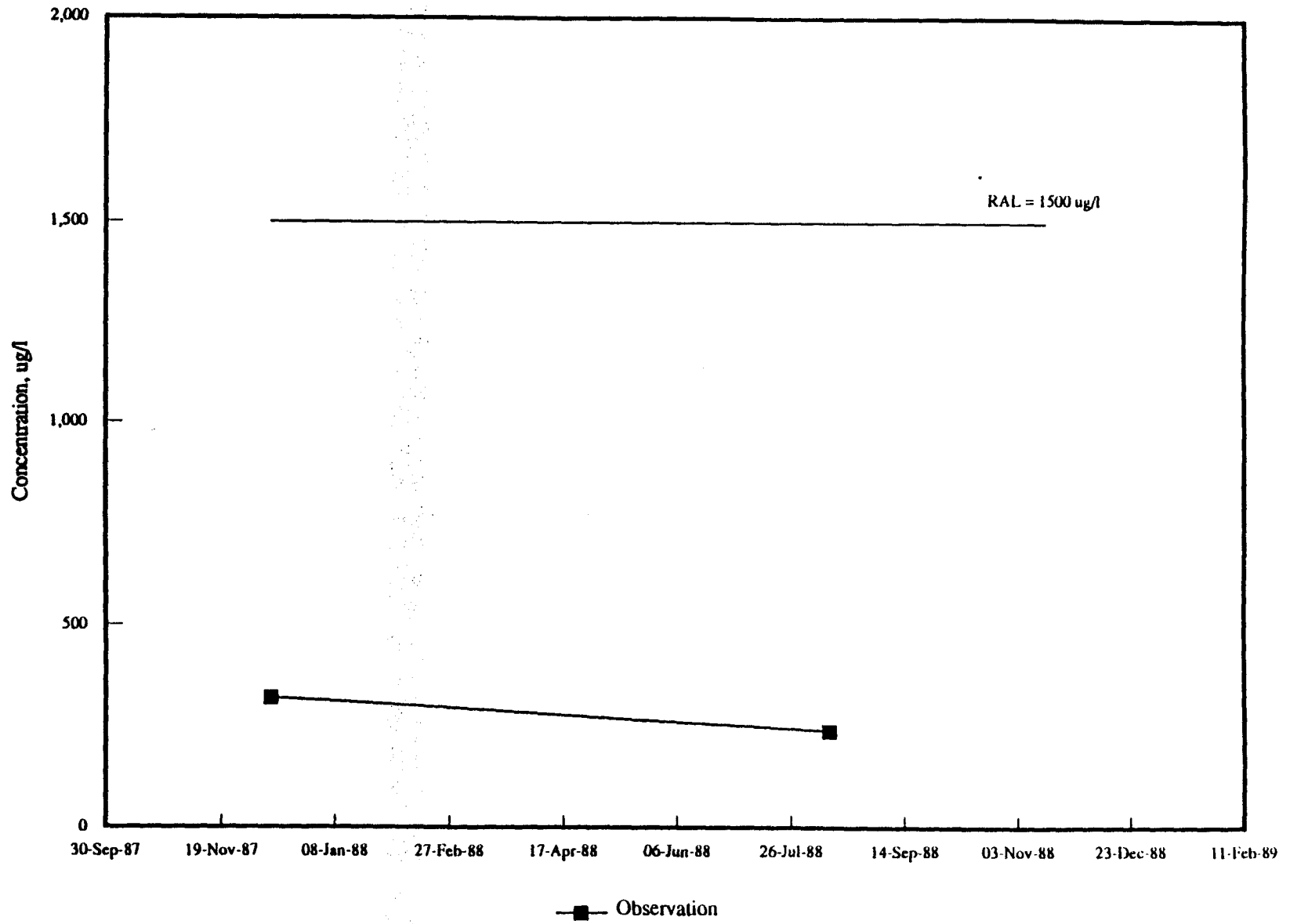
1,2-DICHLOROETHENE - WELL 01U133



ARSENIC - WELL 01U133

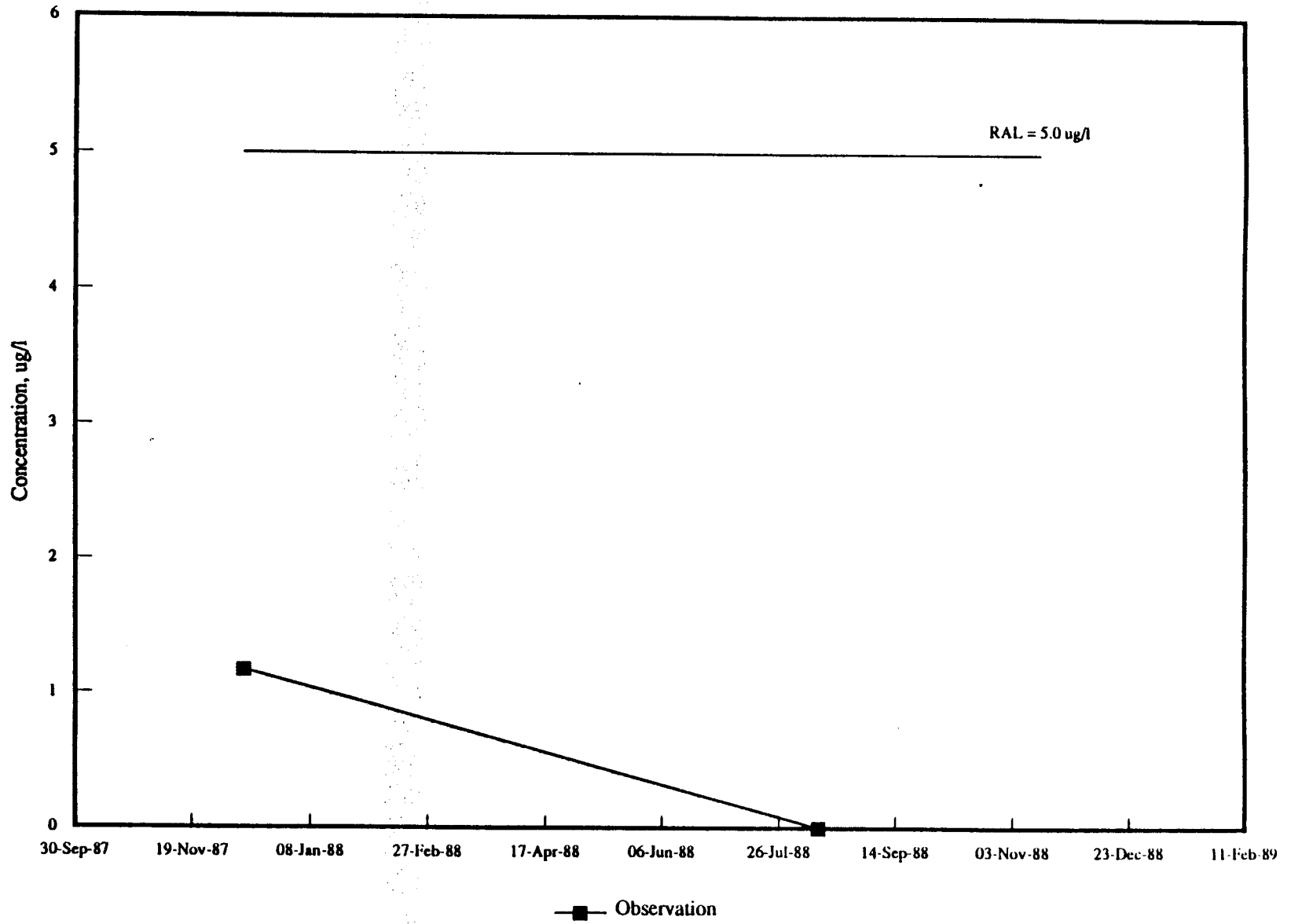


BARIUM - WELL 01U133

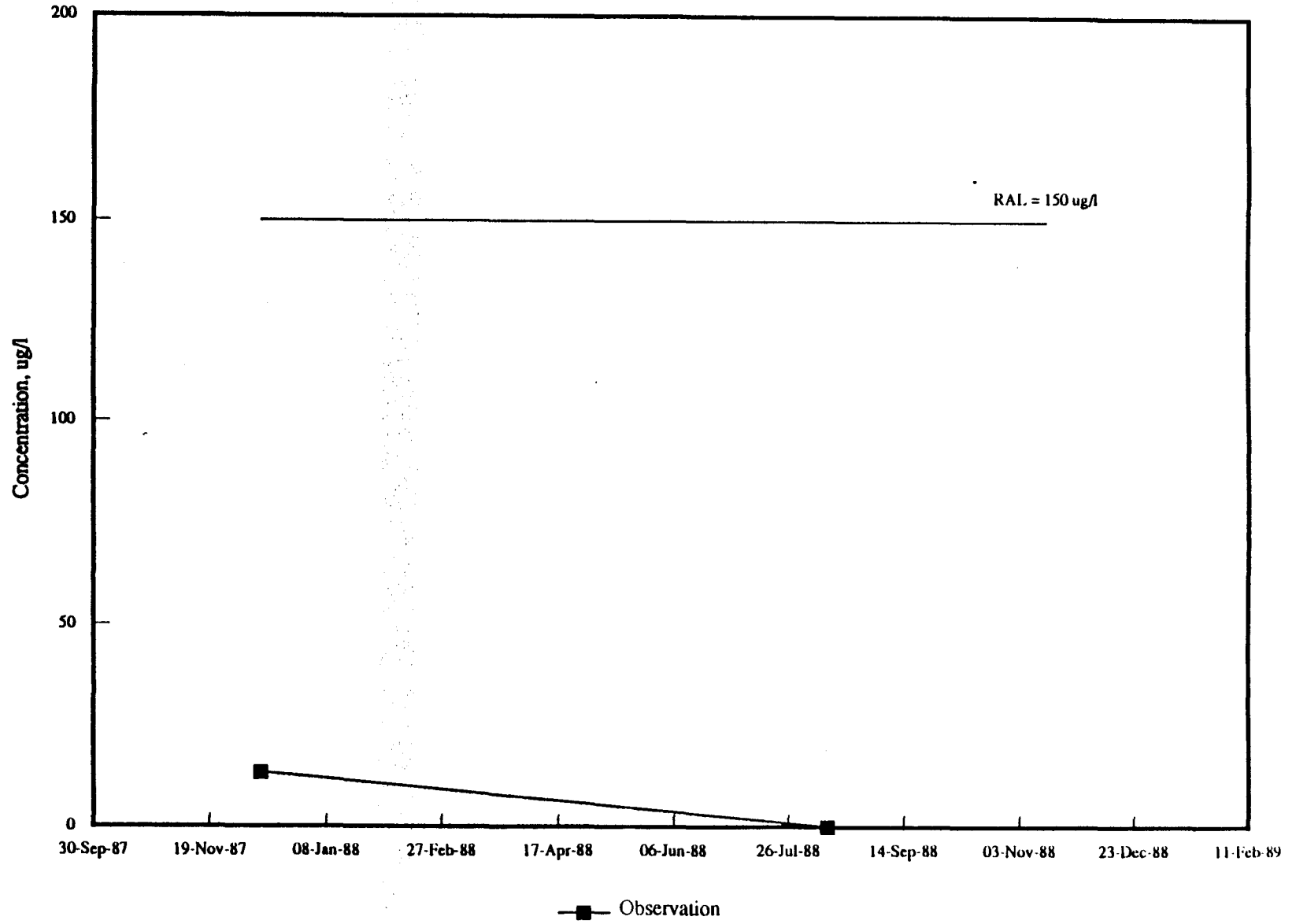




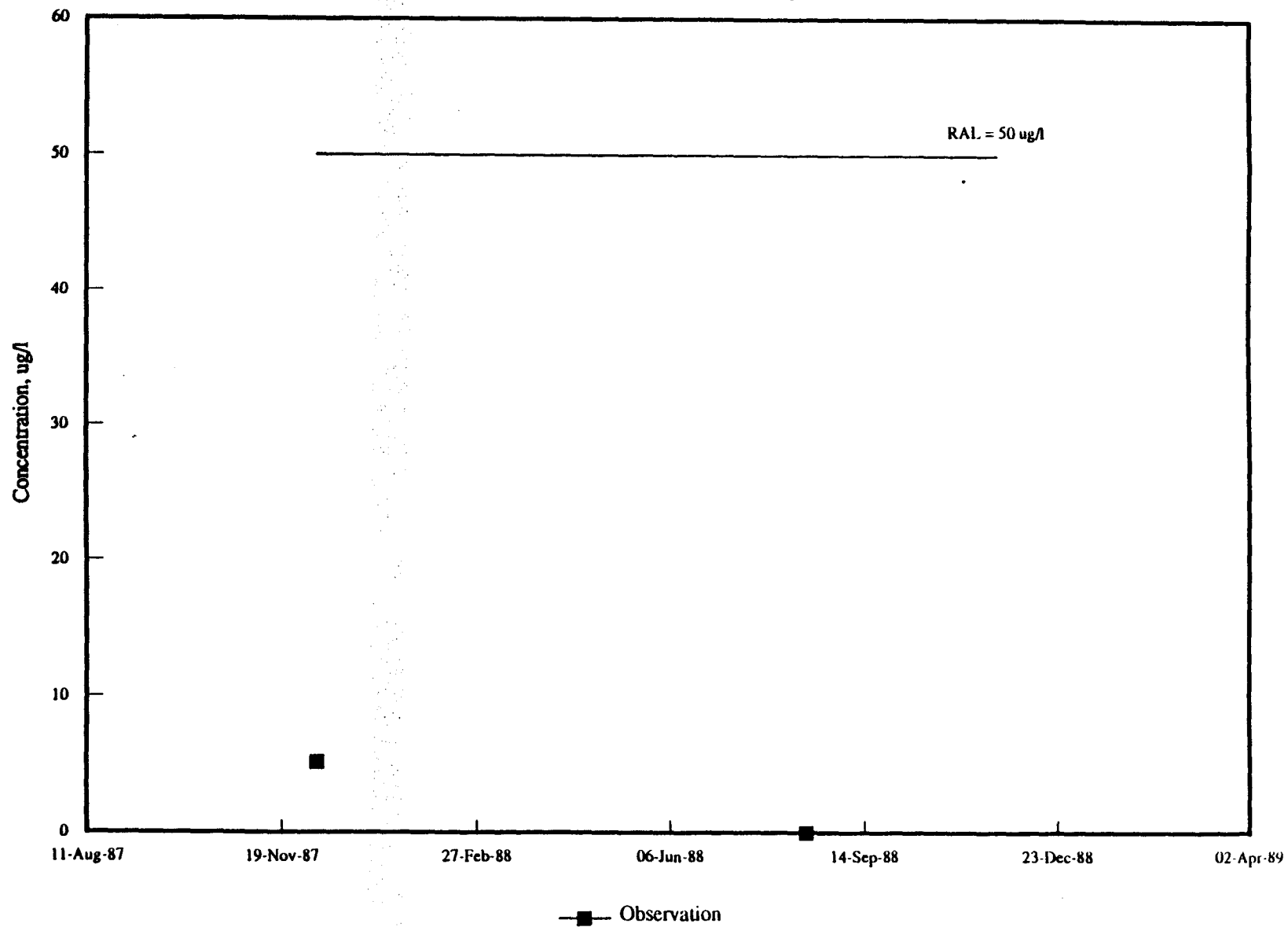
CADMIUM - WELL 01U133



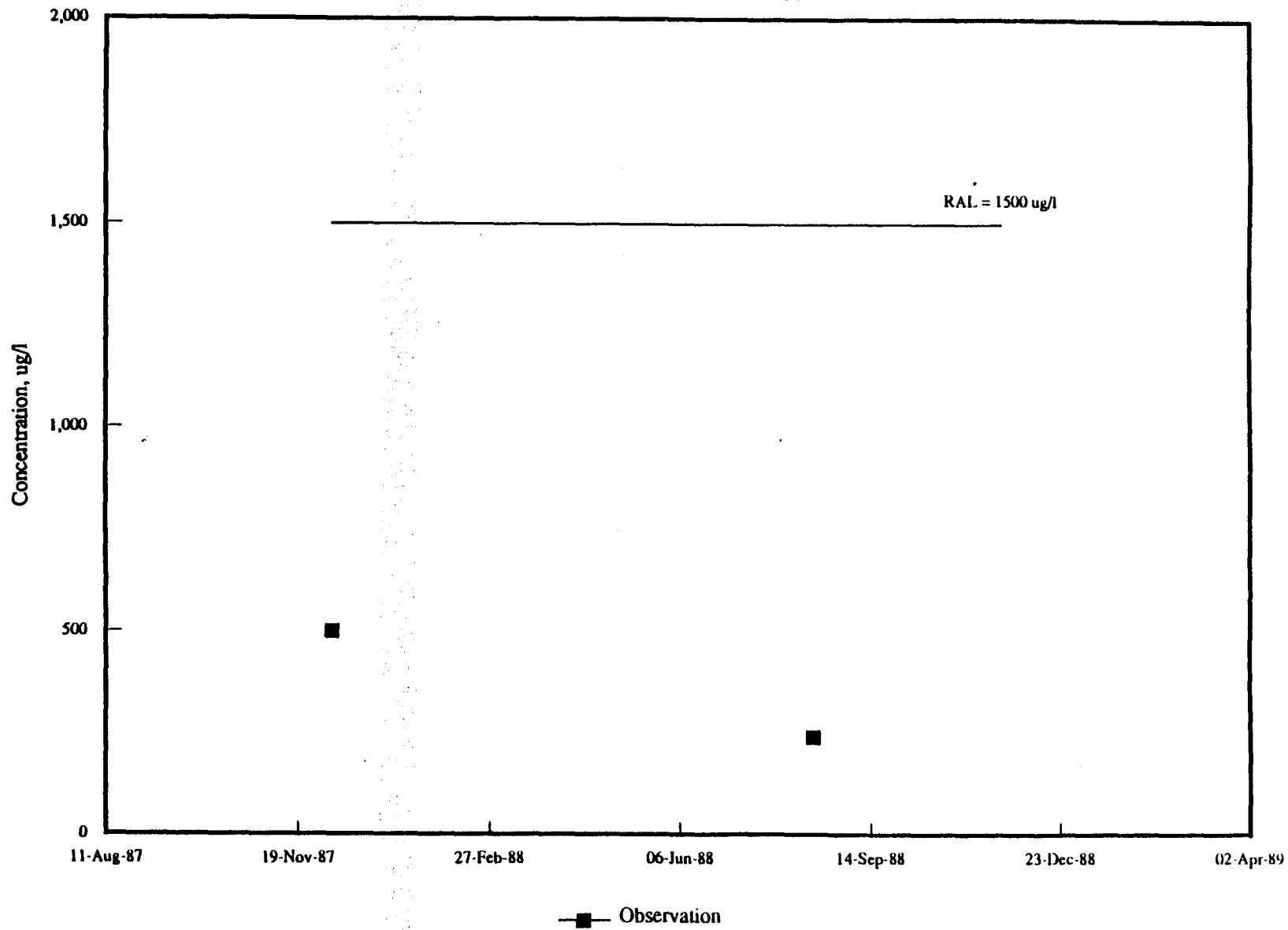
NICKEL - WELL 01U133



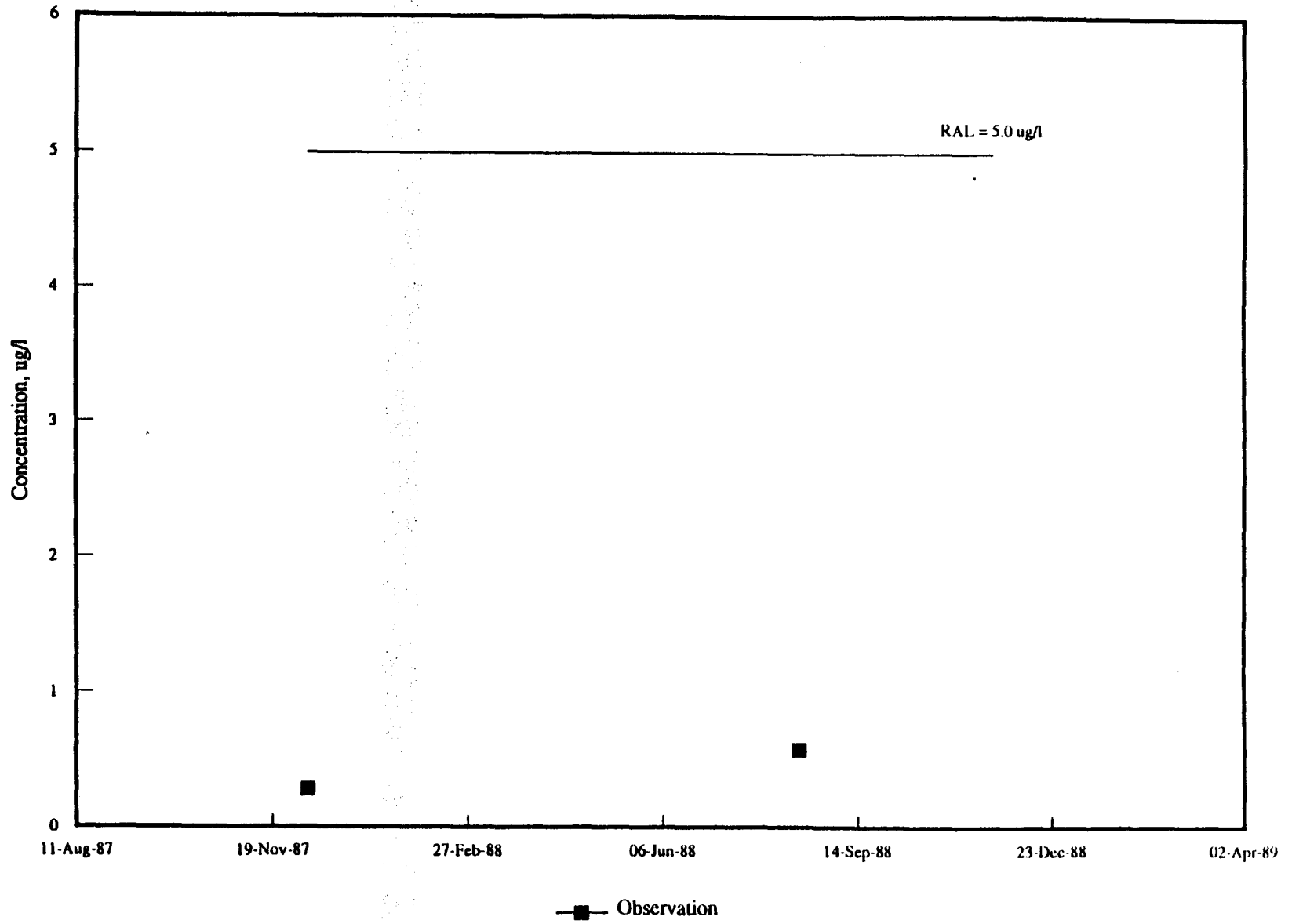
ARSENIC - WELL 01U130



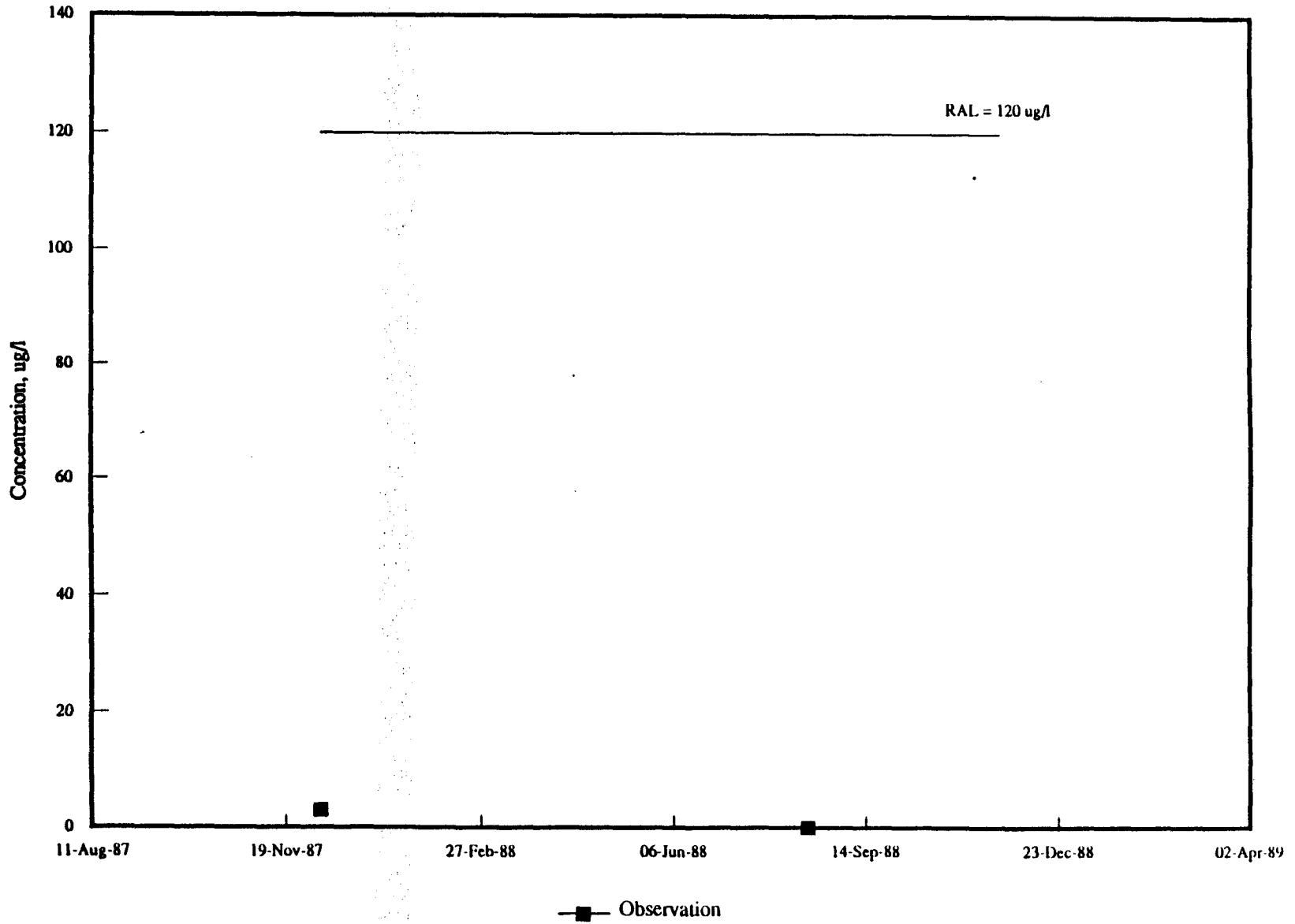
BARIUM - WELL 01U130



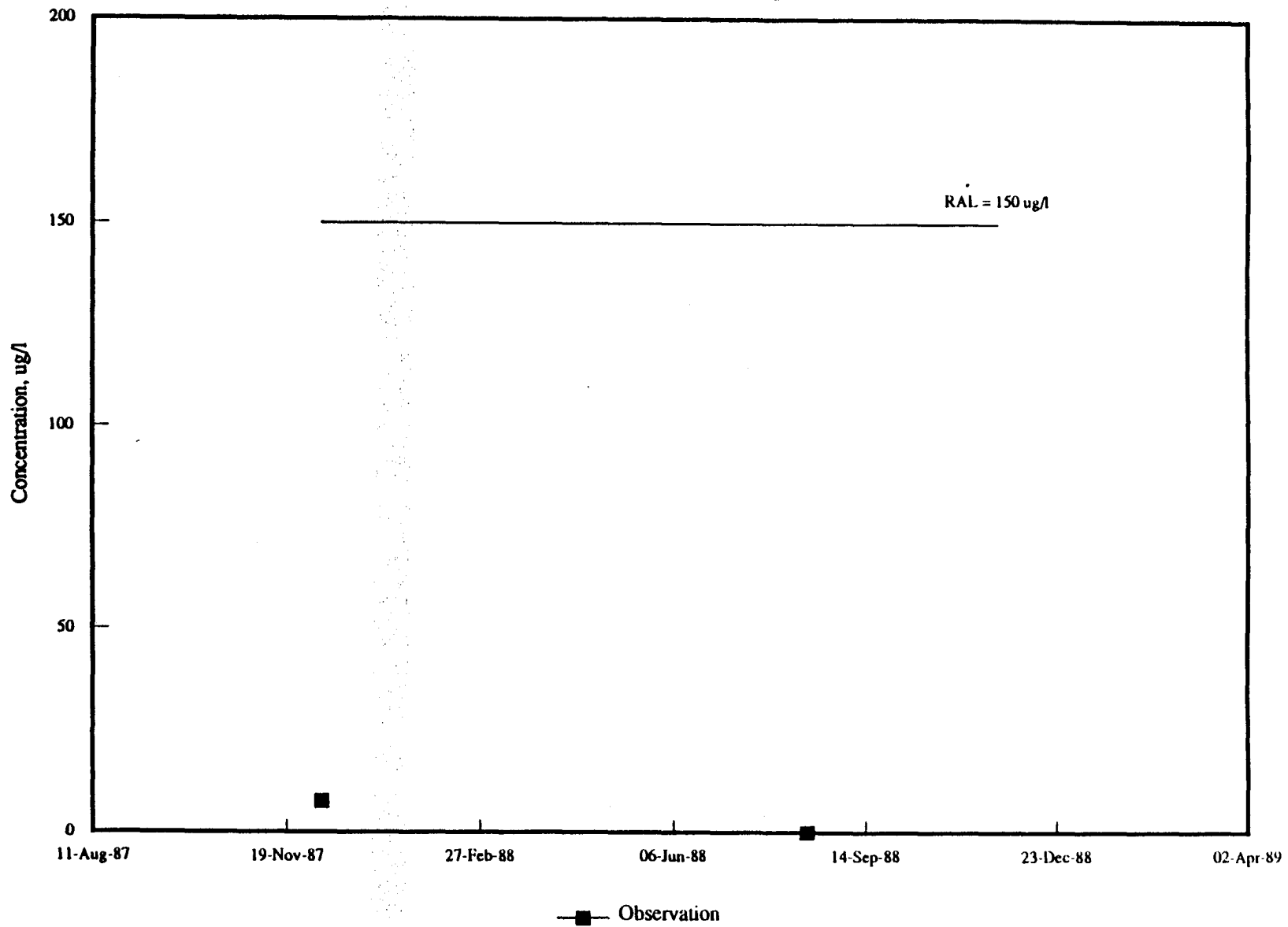
CADMIUM - WELL 01U130



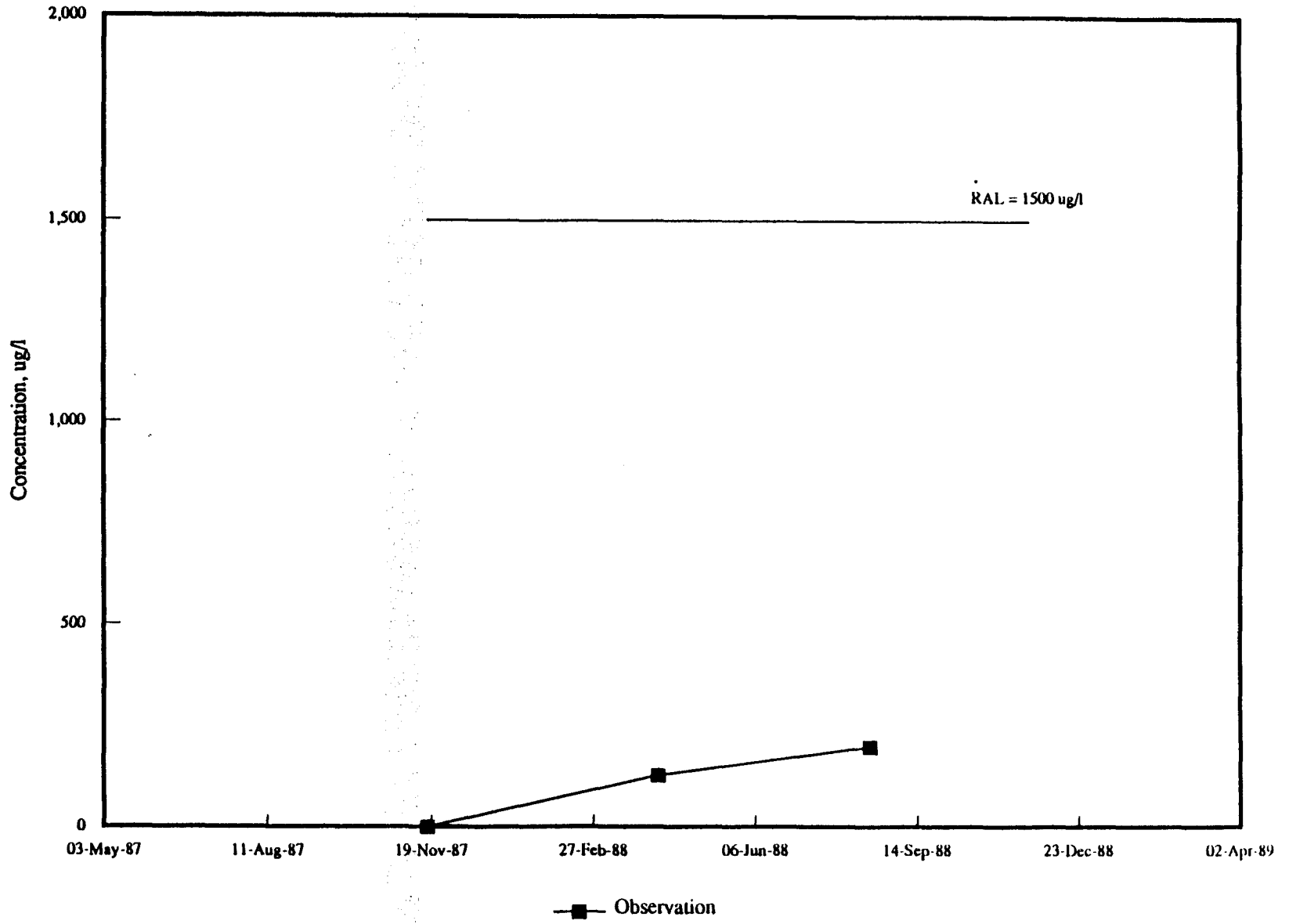
CHROMIUM - WELL 01U130



NICKEL - WELL 01U130

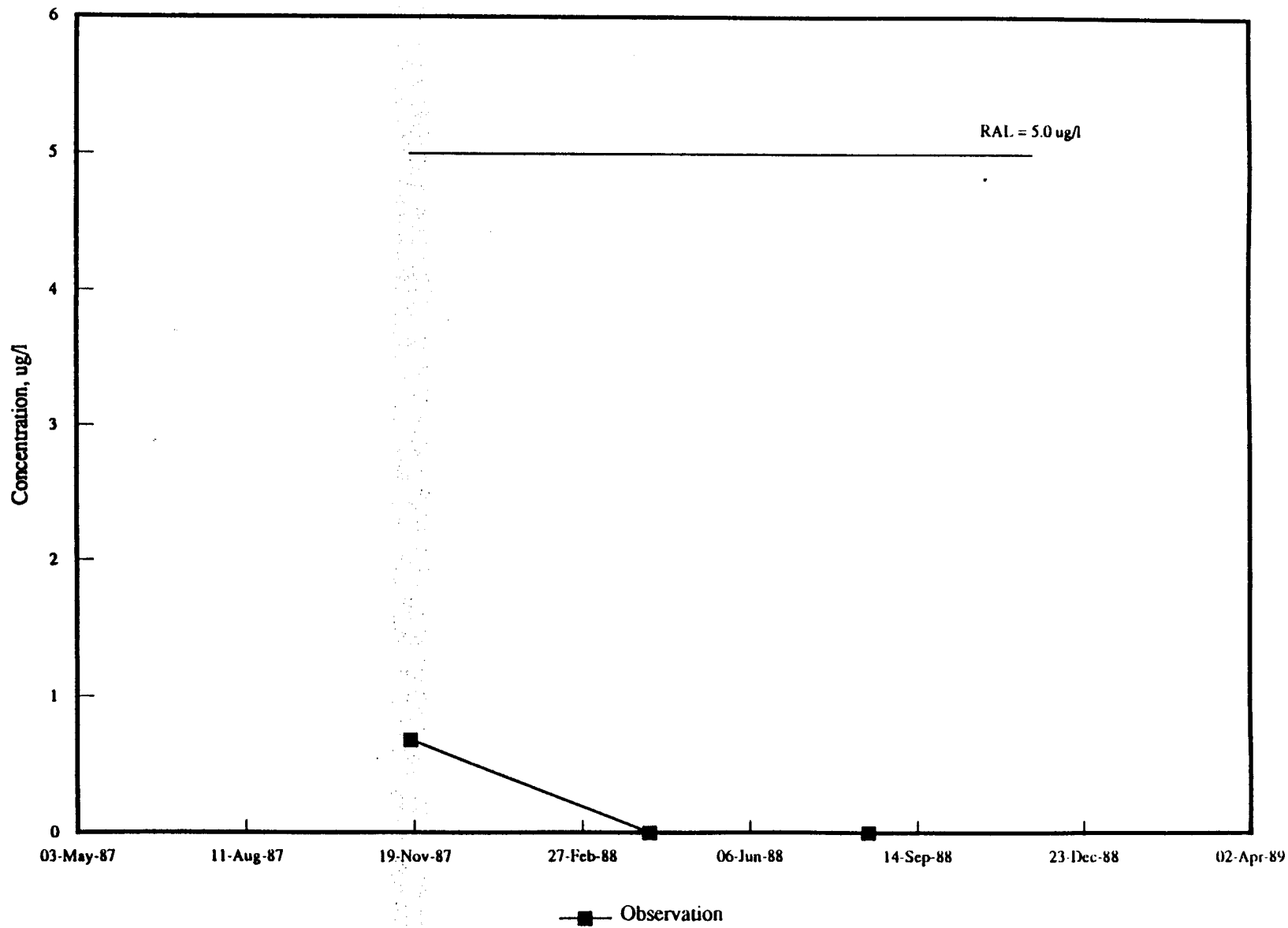


BARIUM - WELL 01U524

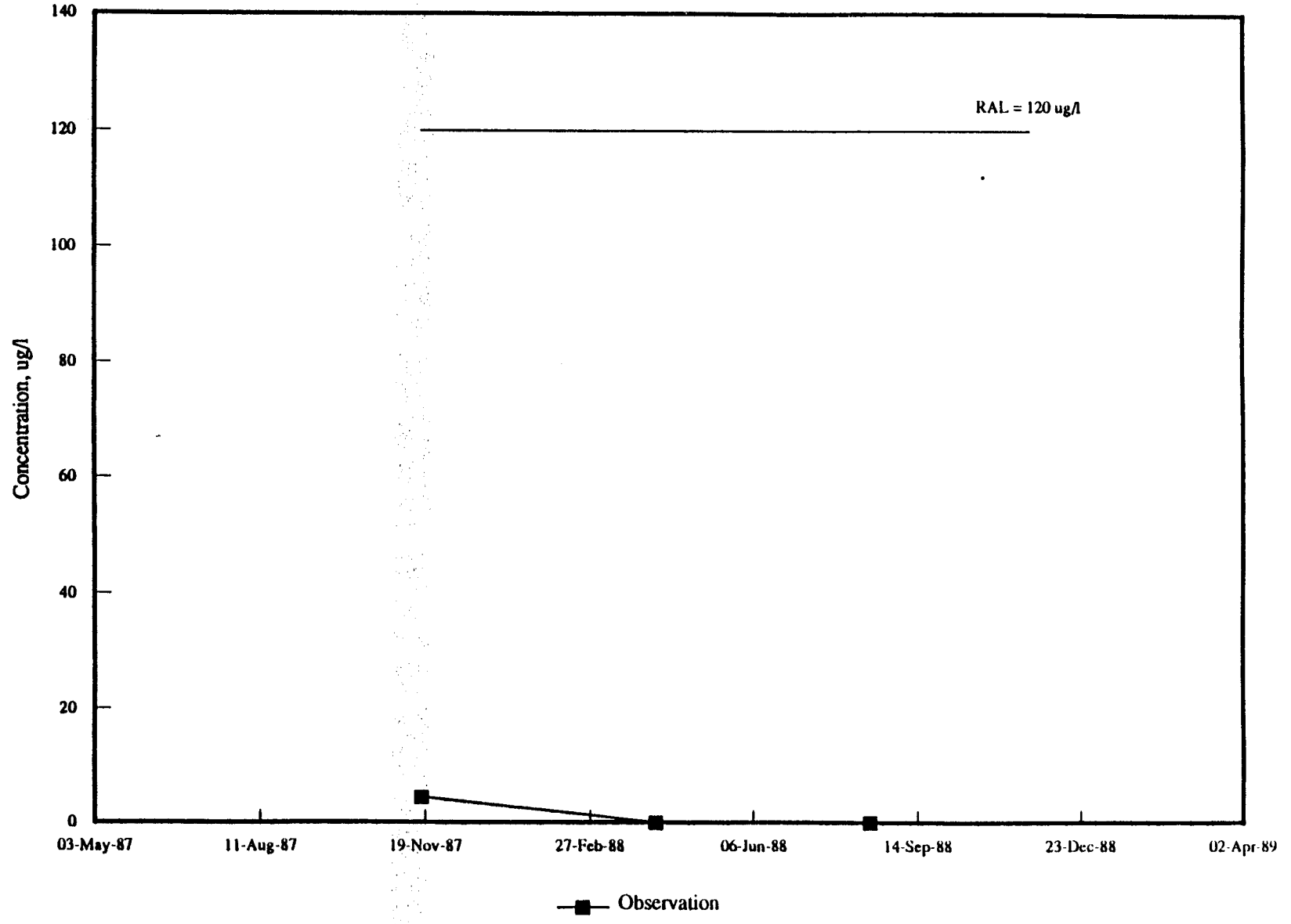




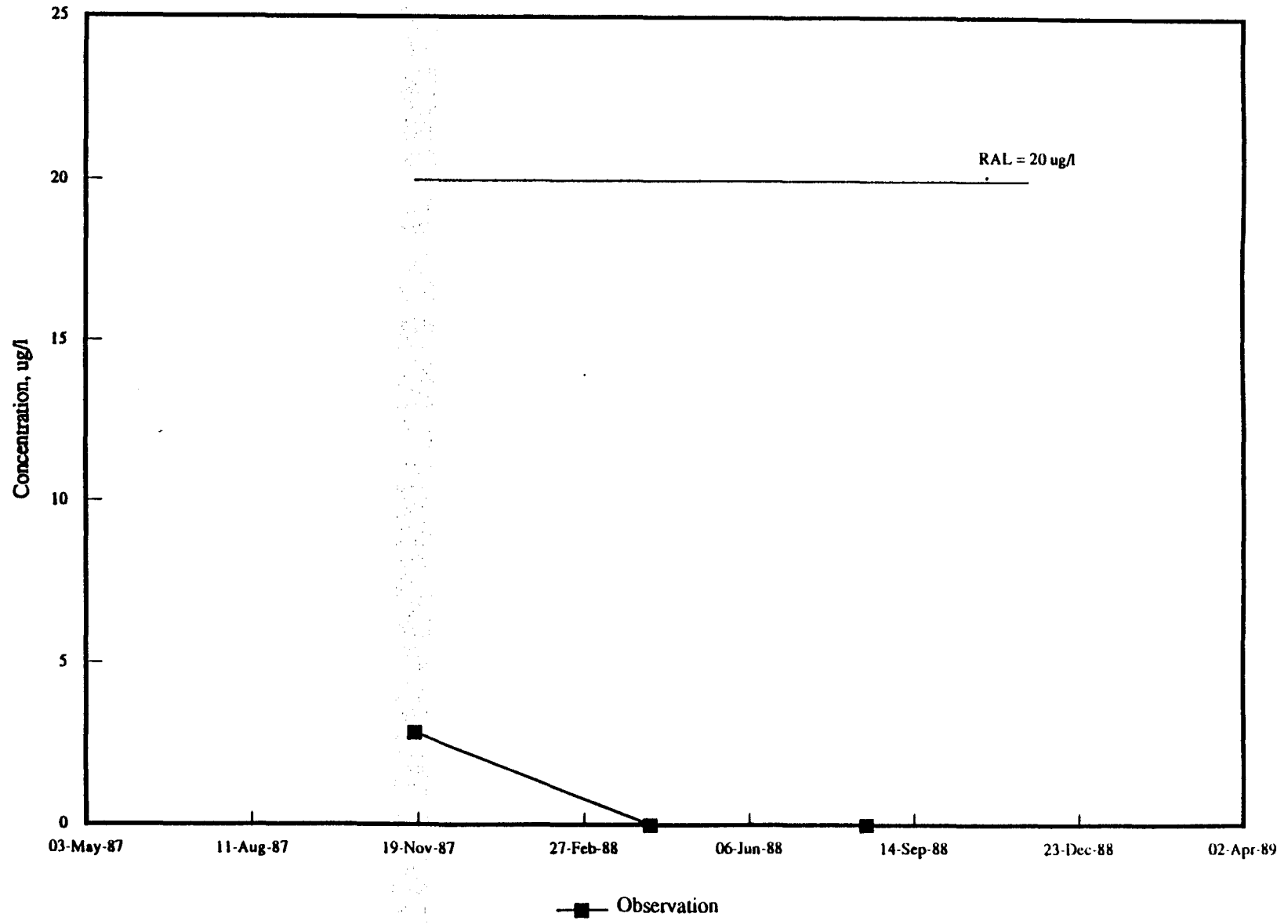
CADMIUM - WELL 01U524



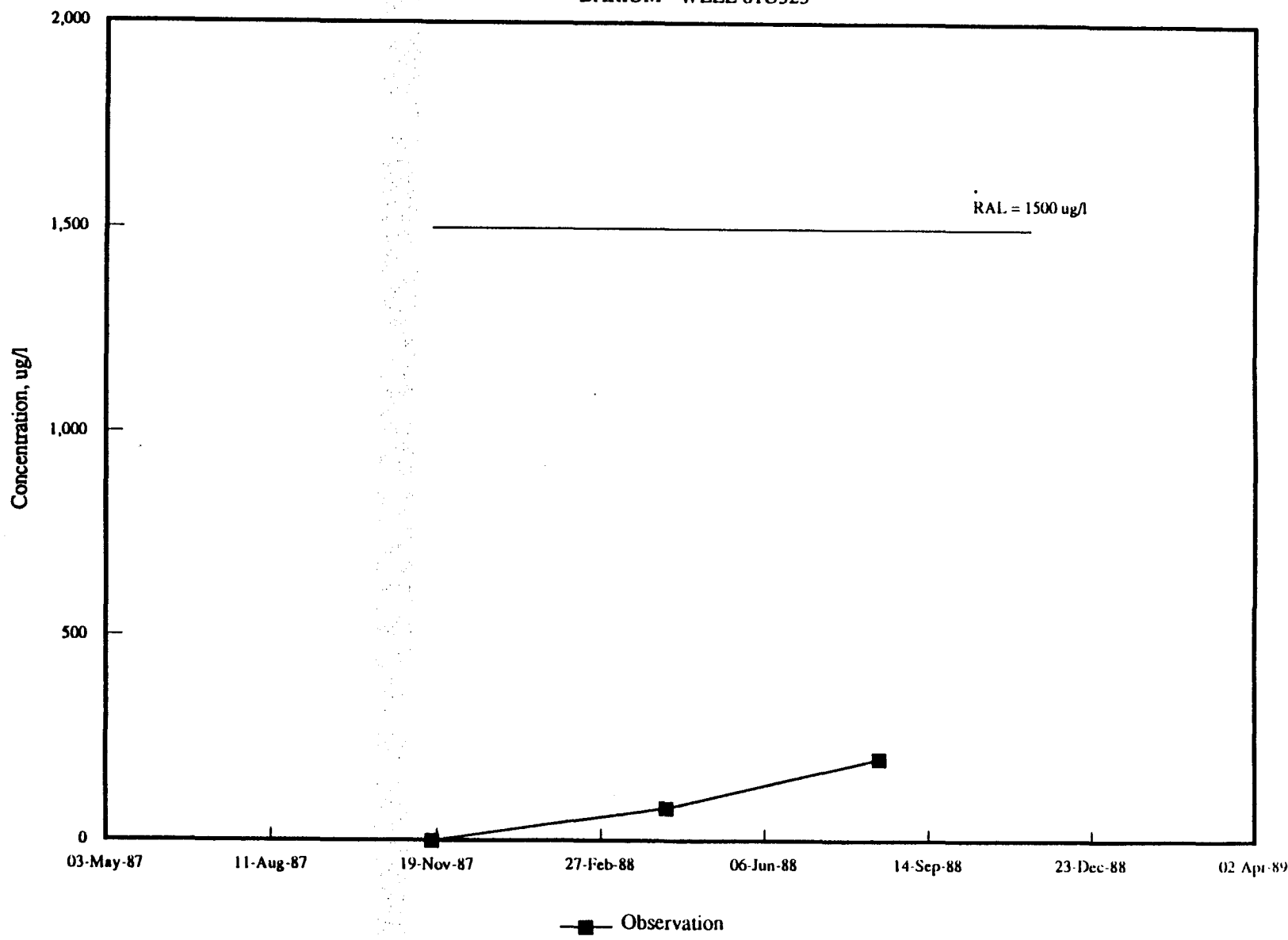
CHROMIUM - WELL 01U524



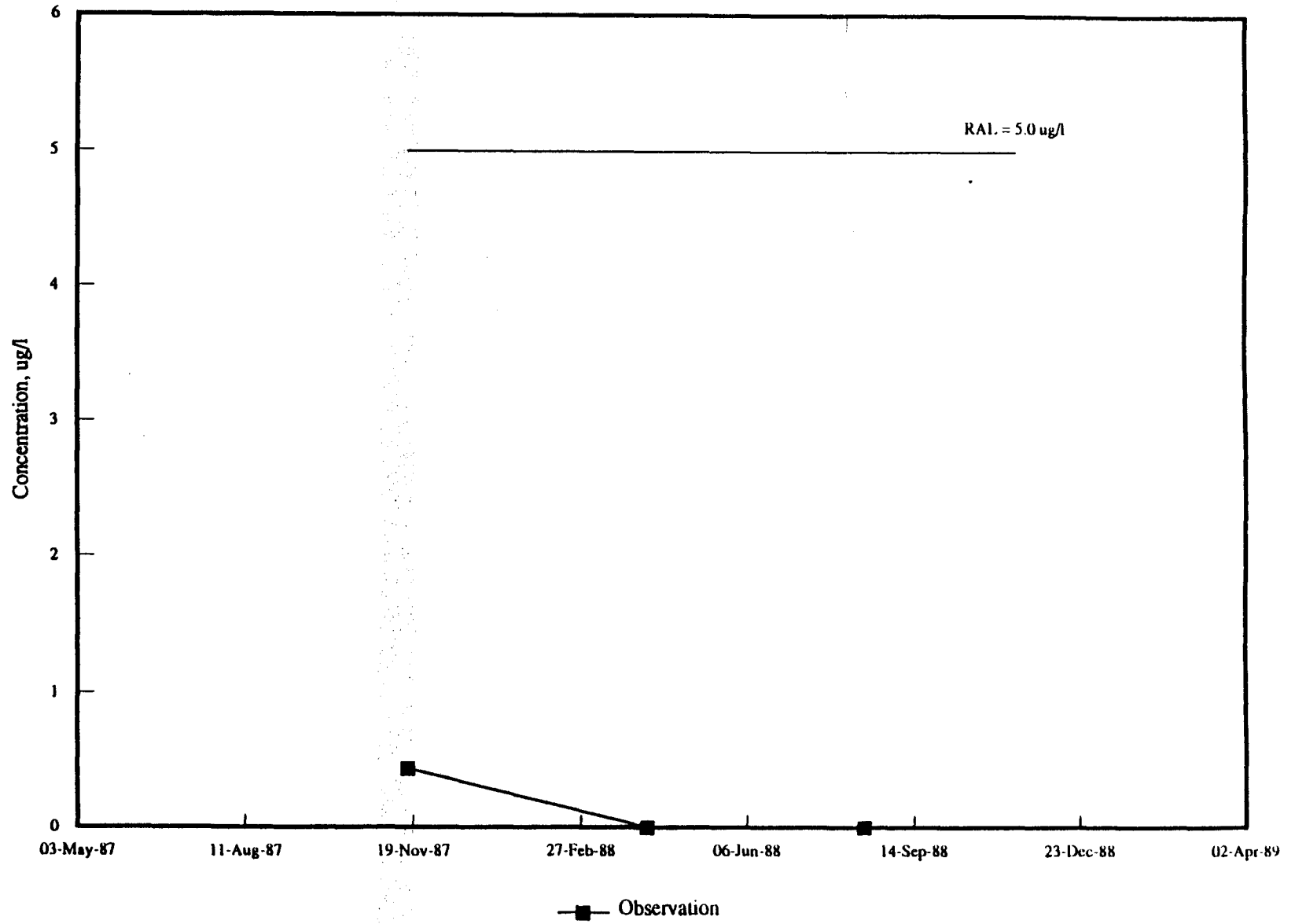
LEAD - WELL 01U524



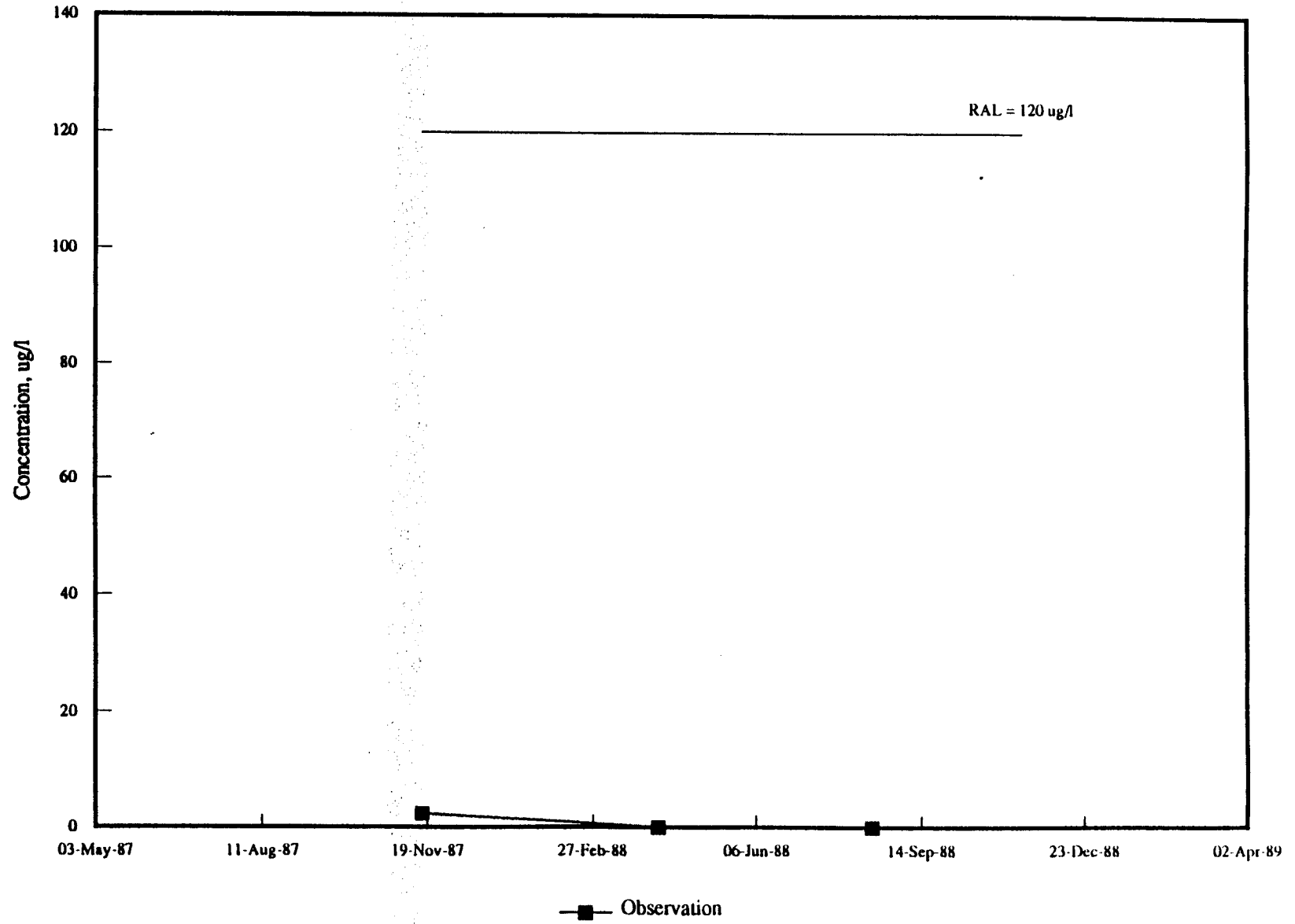
BARIUM - WELL 01U525



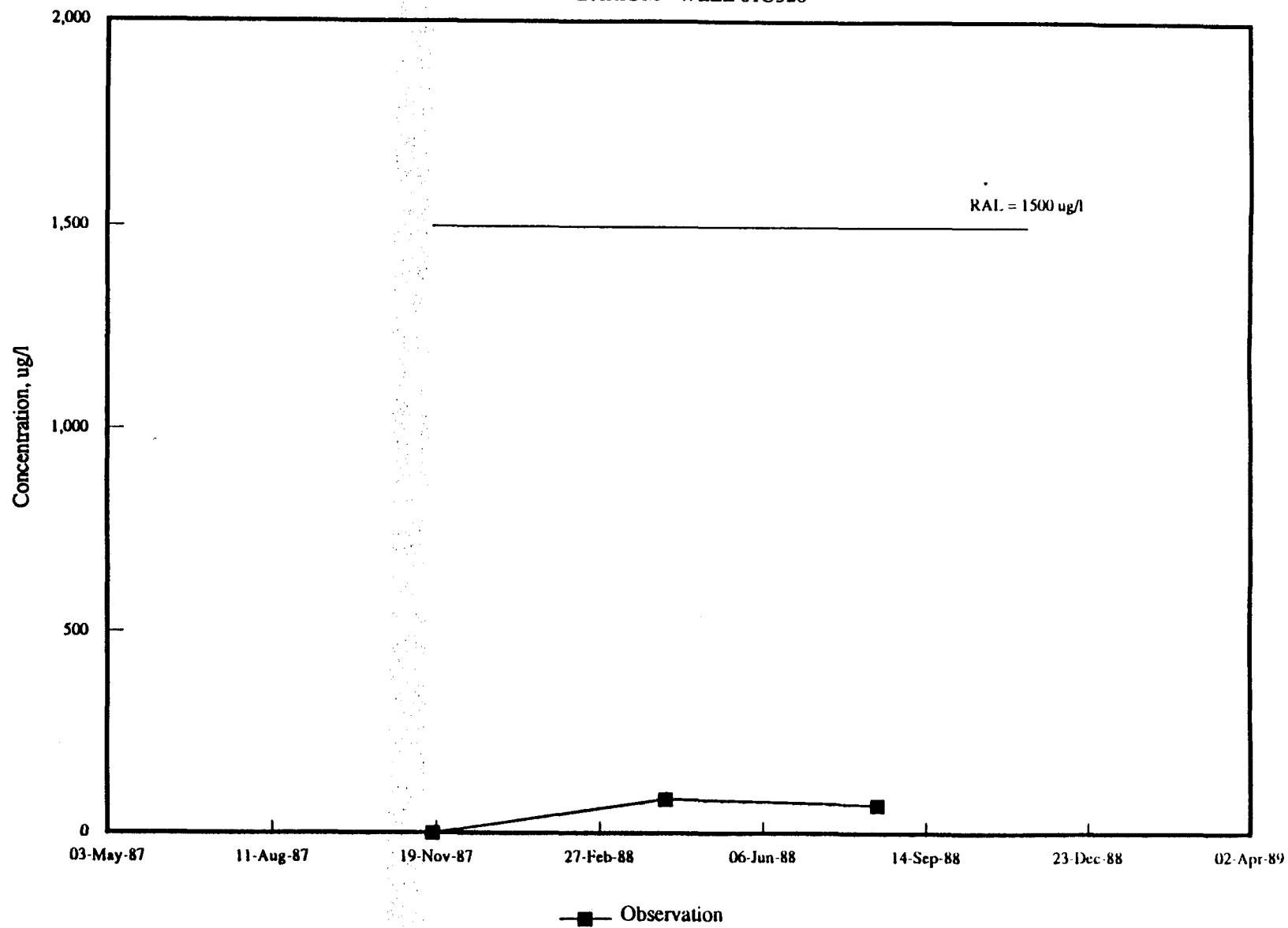
CADMIUM - WELL 01U525



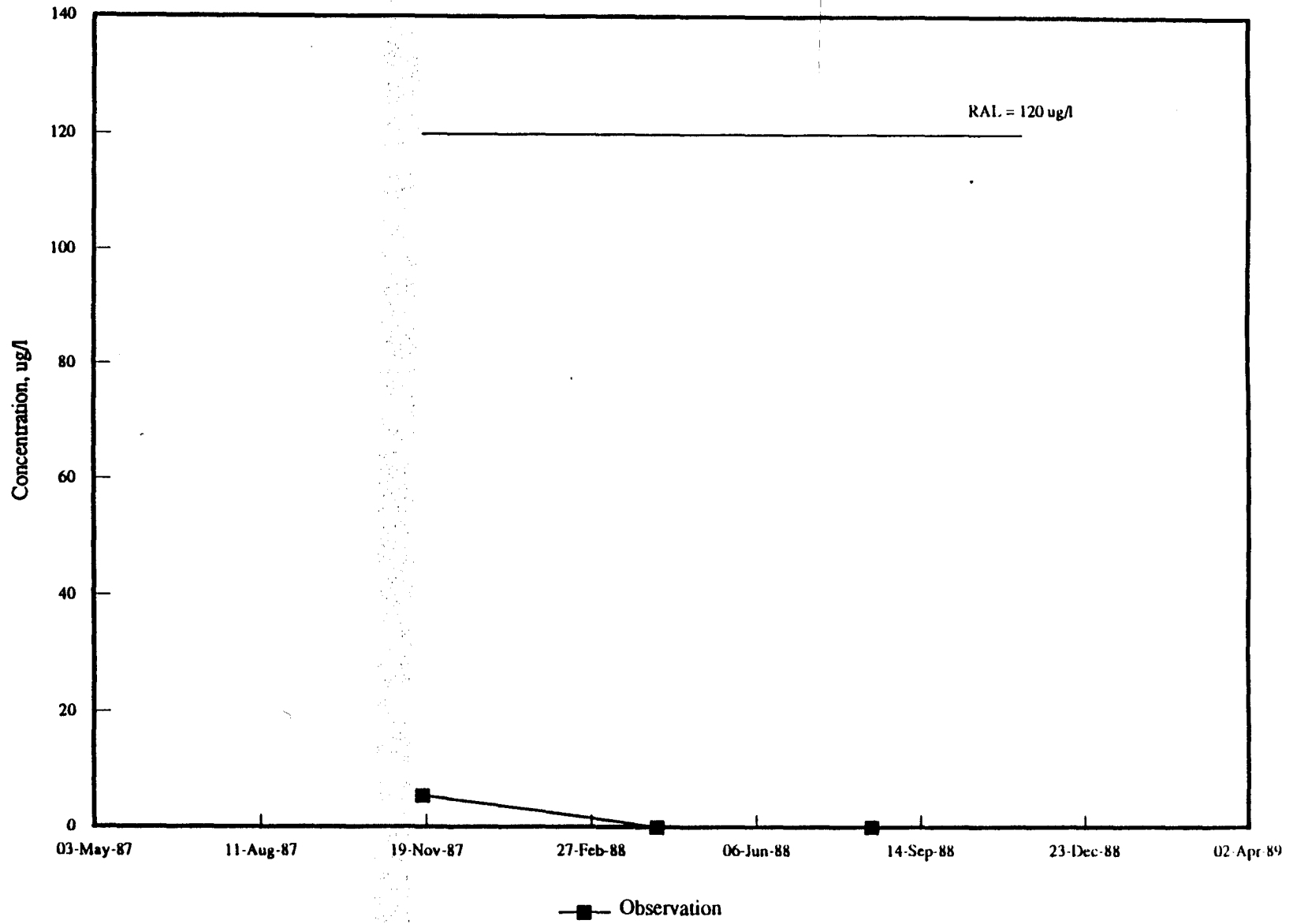
CHROMIUM - WELL 01U525



BARIUM - WELL 01U526

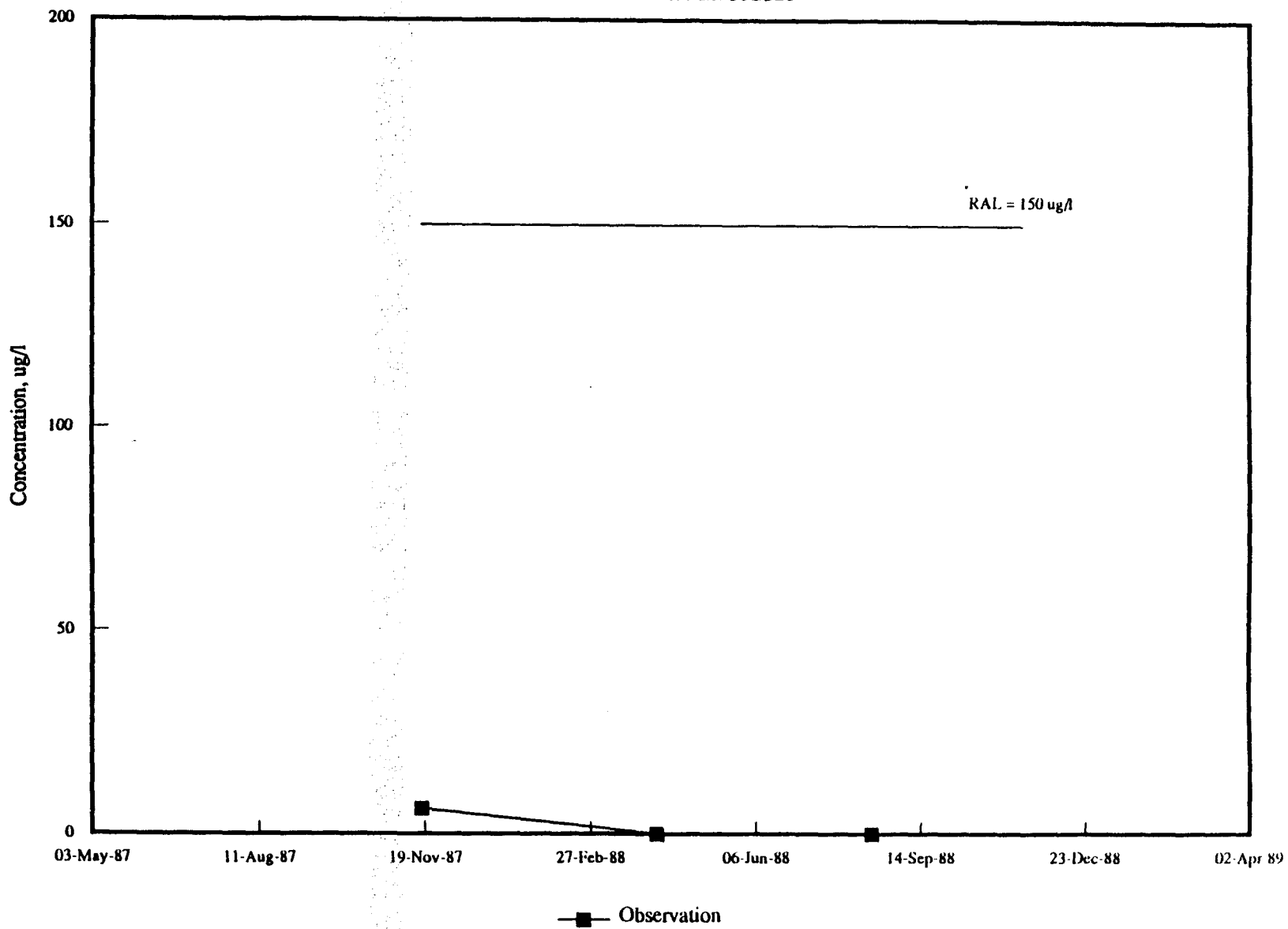


CHROMIUM - WELL 01U526

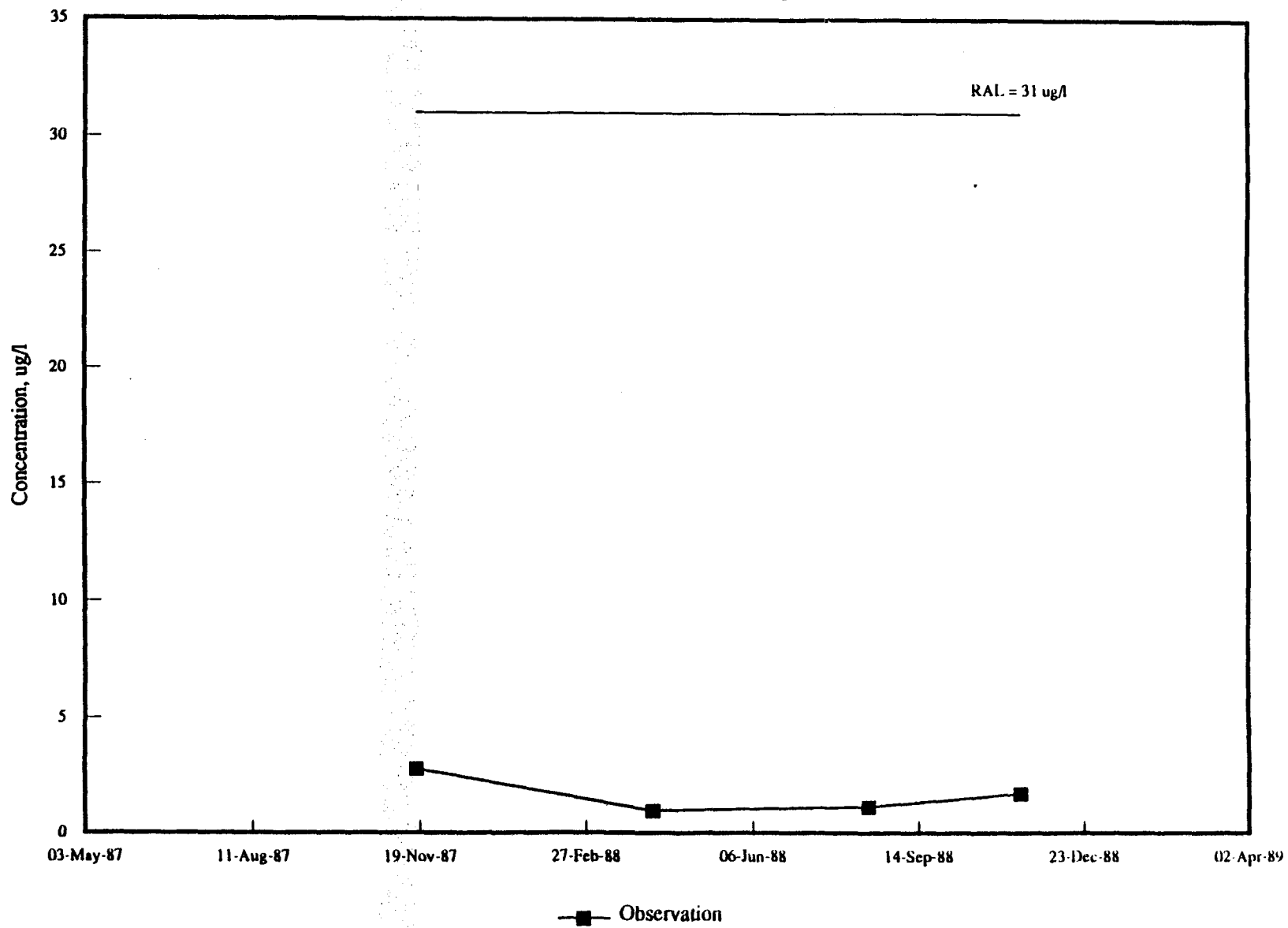




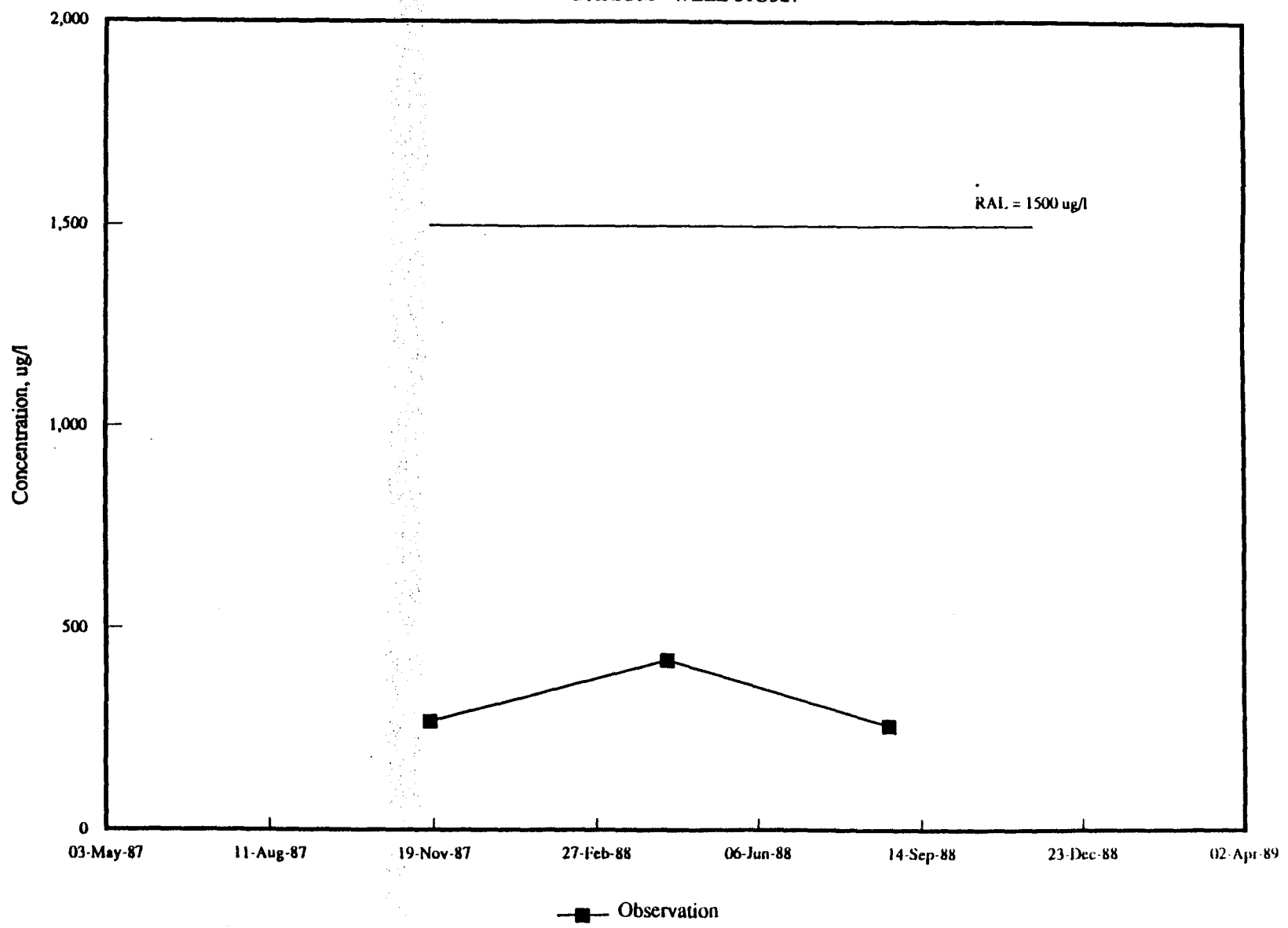
NICKEL - WELL 01U526



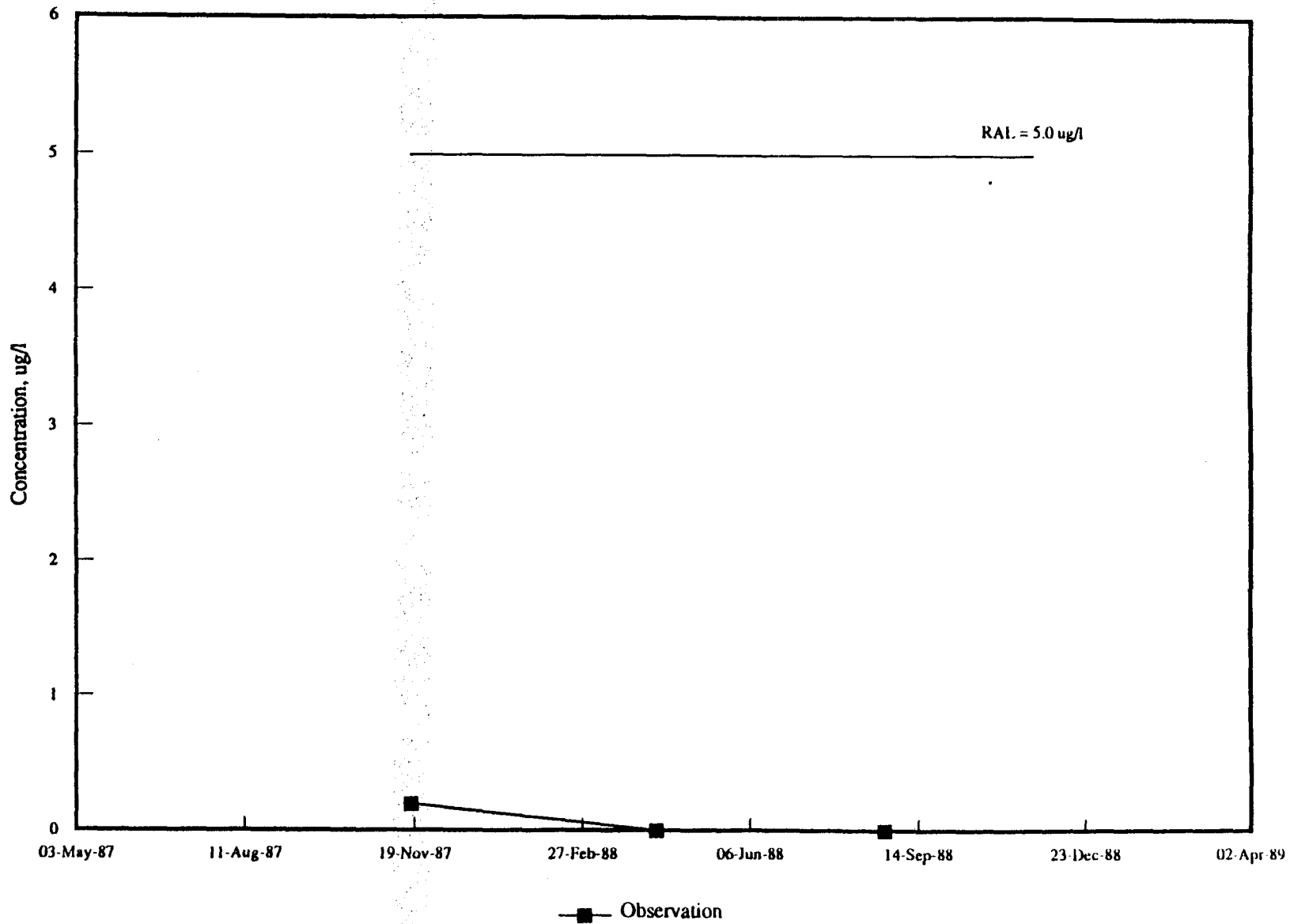
TRICHLOROETHENE - WELL 01U526



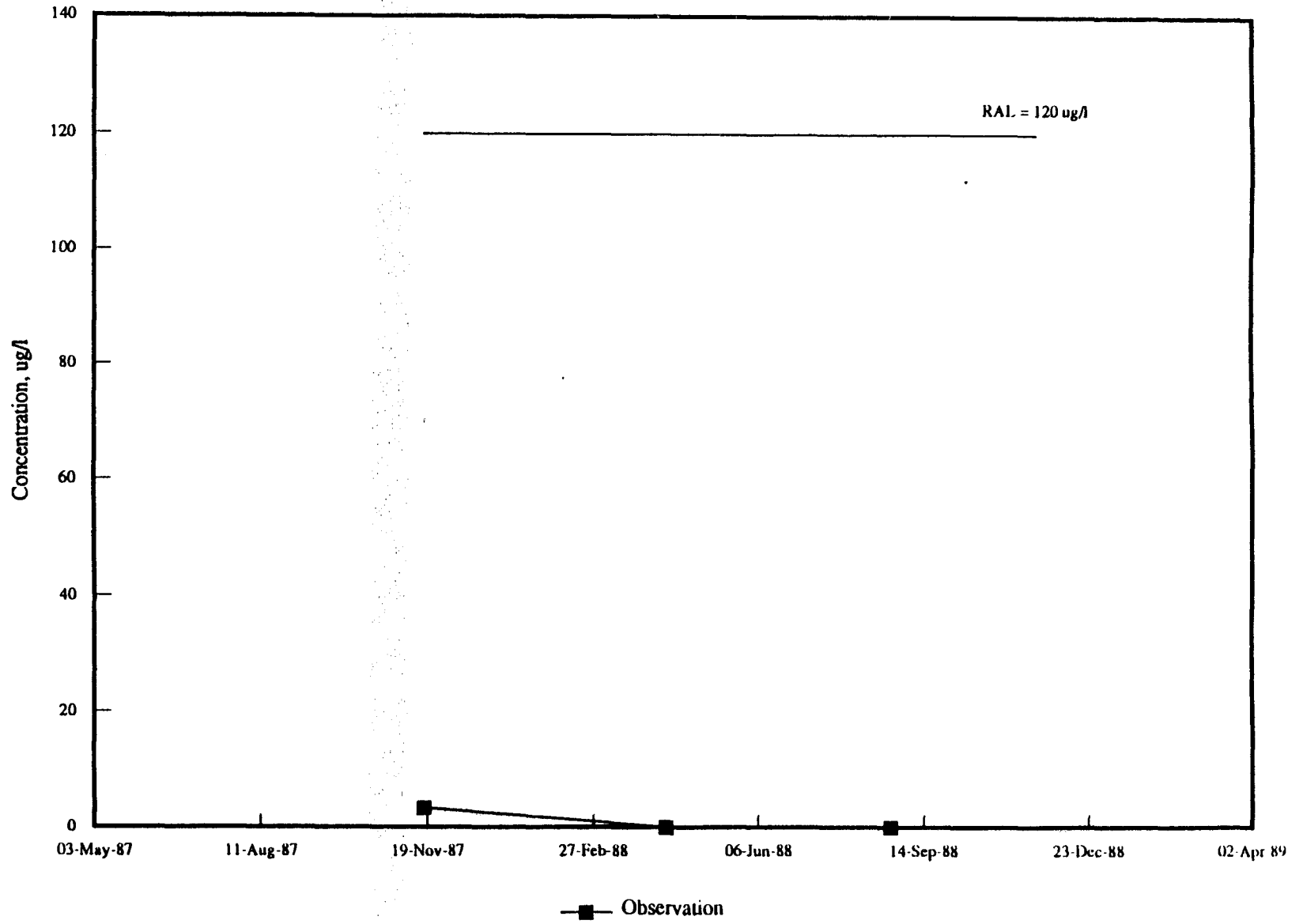
BARIUM - WELL 01U527



CADMIUM - WELL 01U527



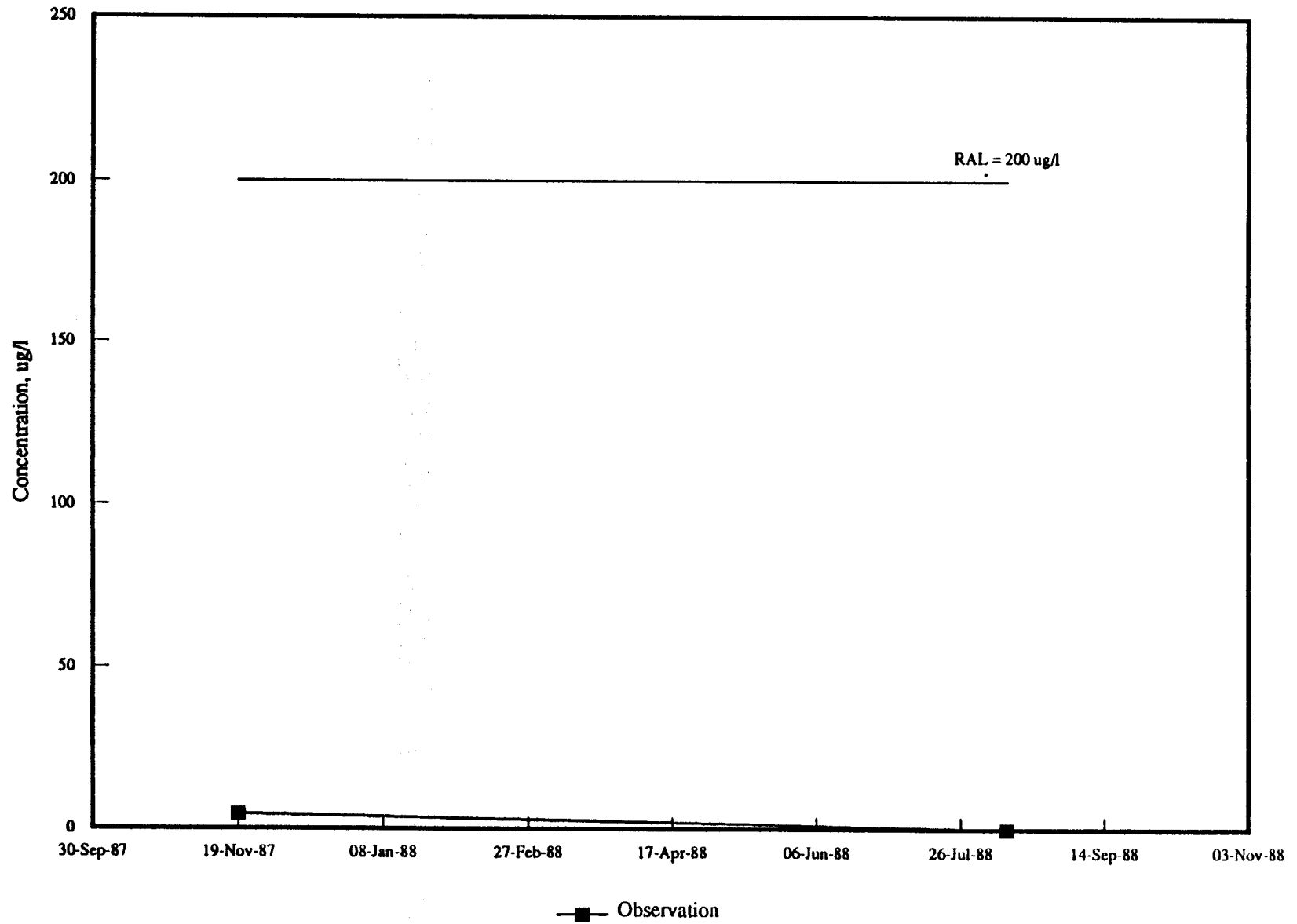
CHROMIUM - WELL 01U527



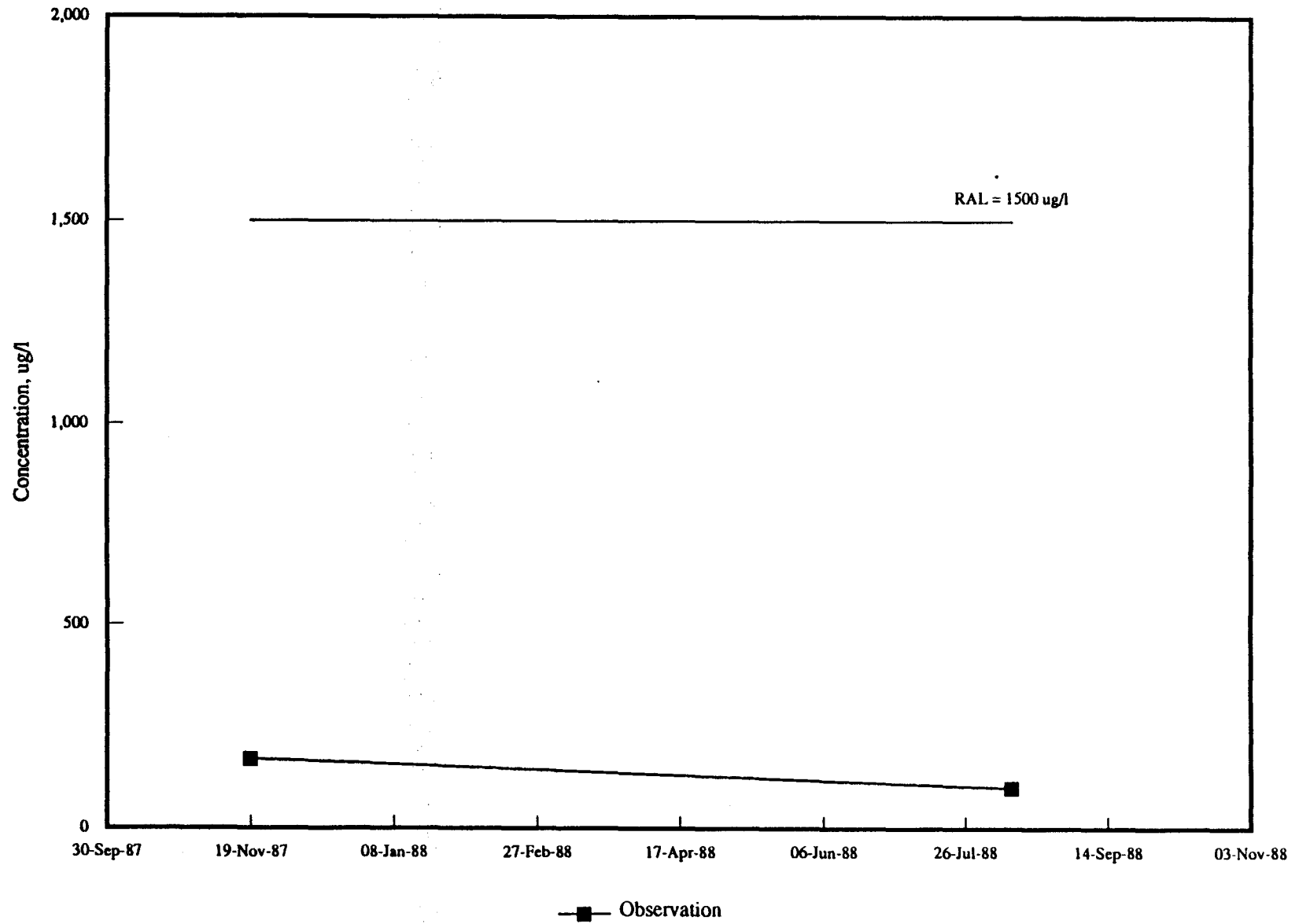
**APPENDIX I**

**UNIT 3**

1,1,1-TRICHLOROETHANE - WELL 03L003

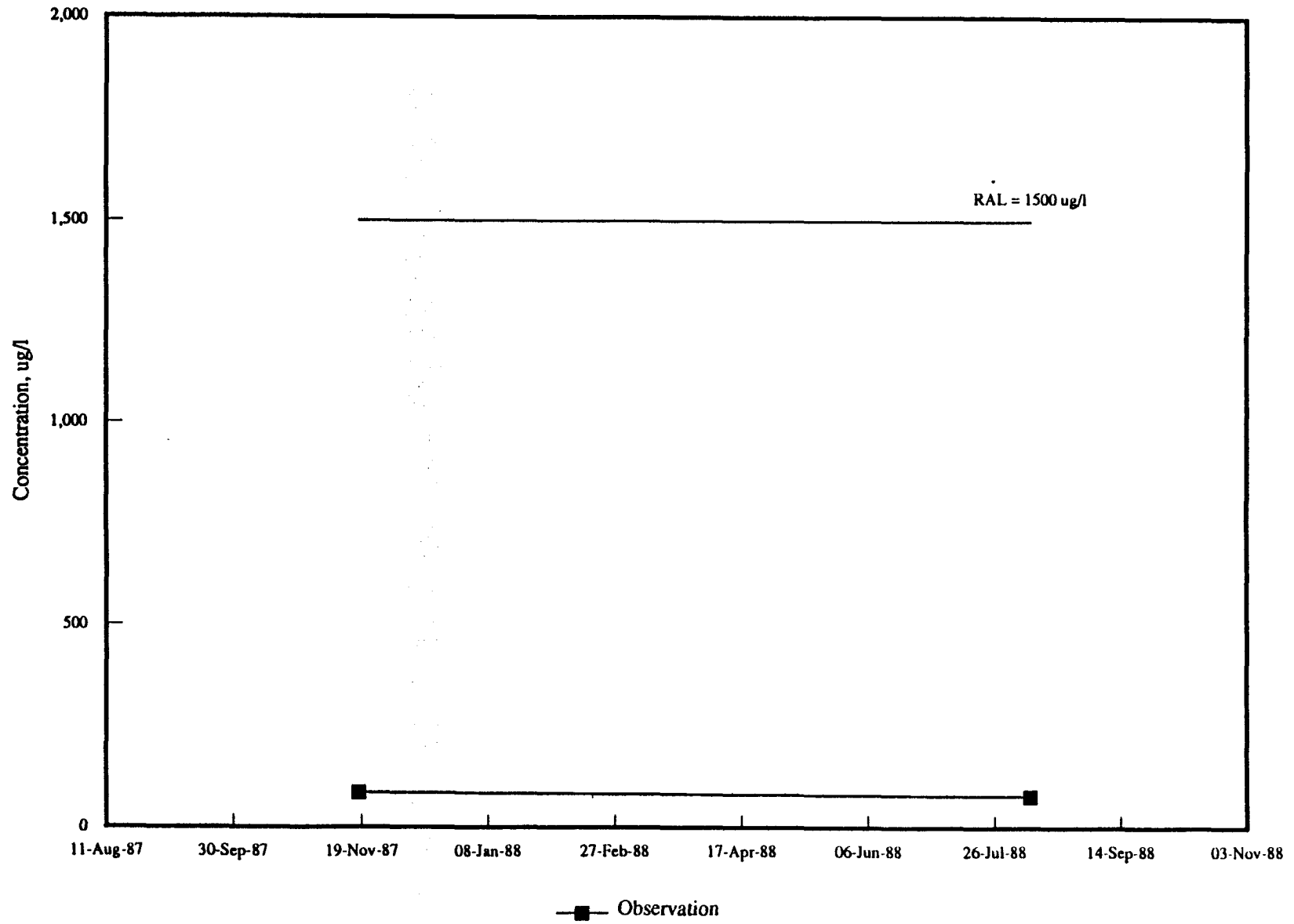


BARIUM - WELL 03L003

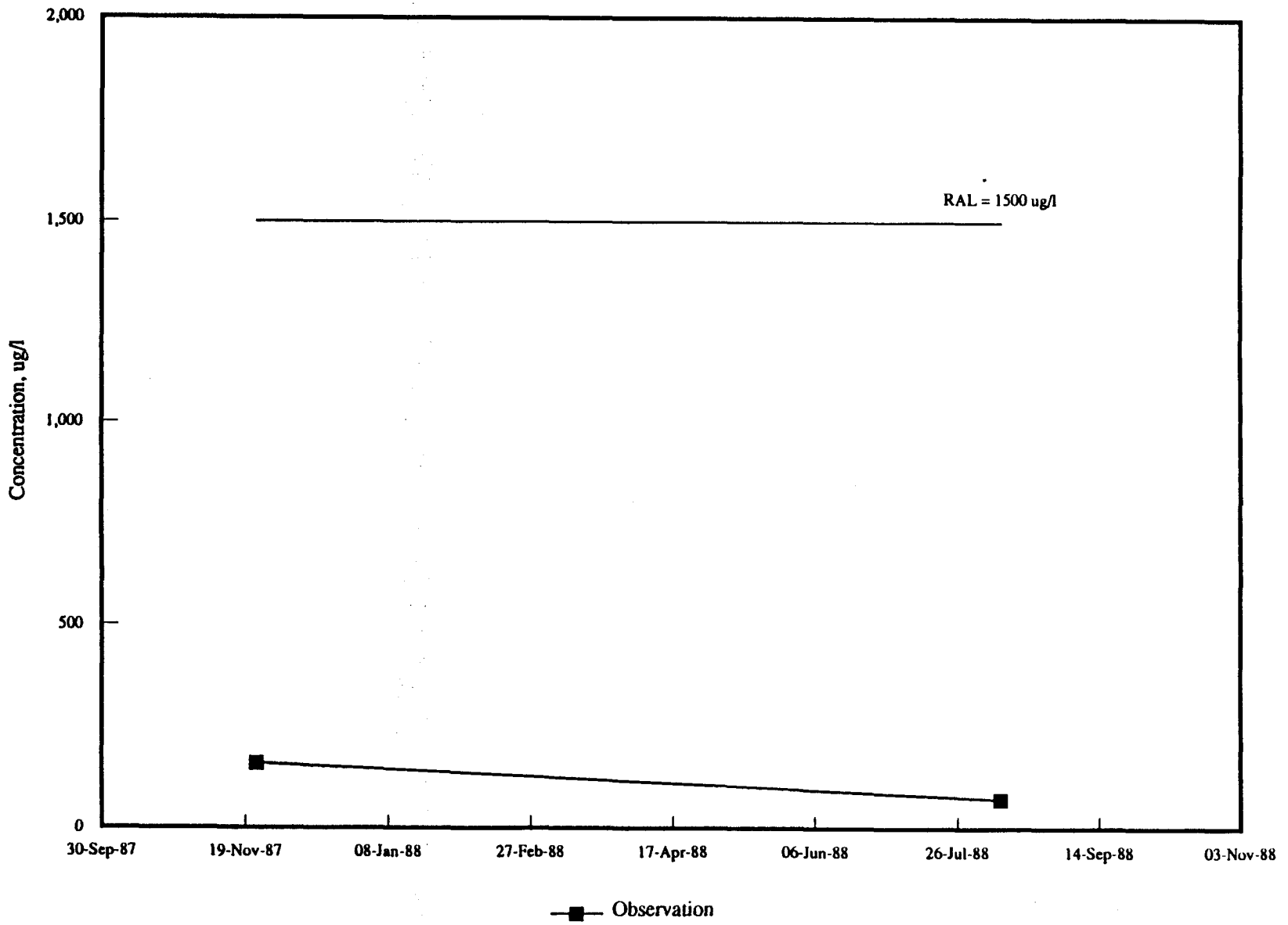




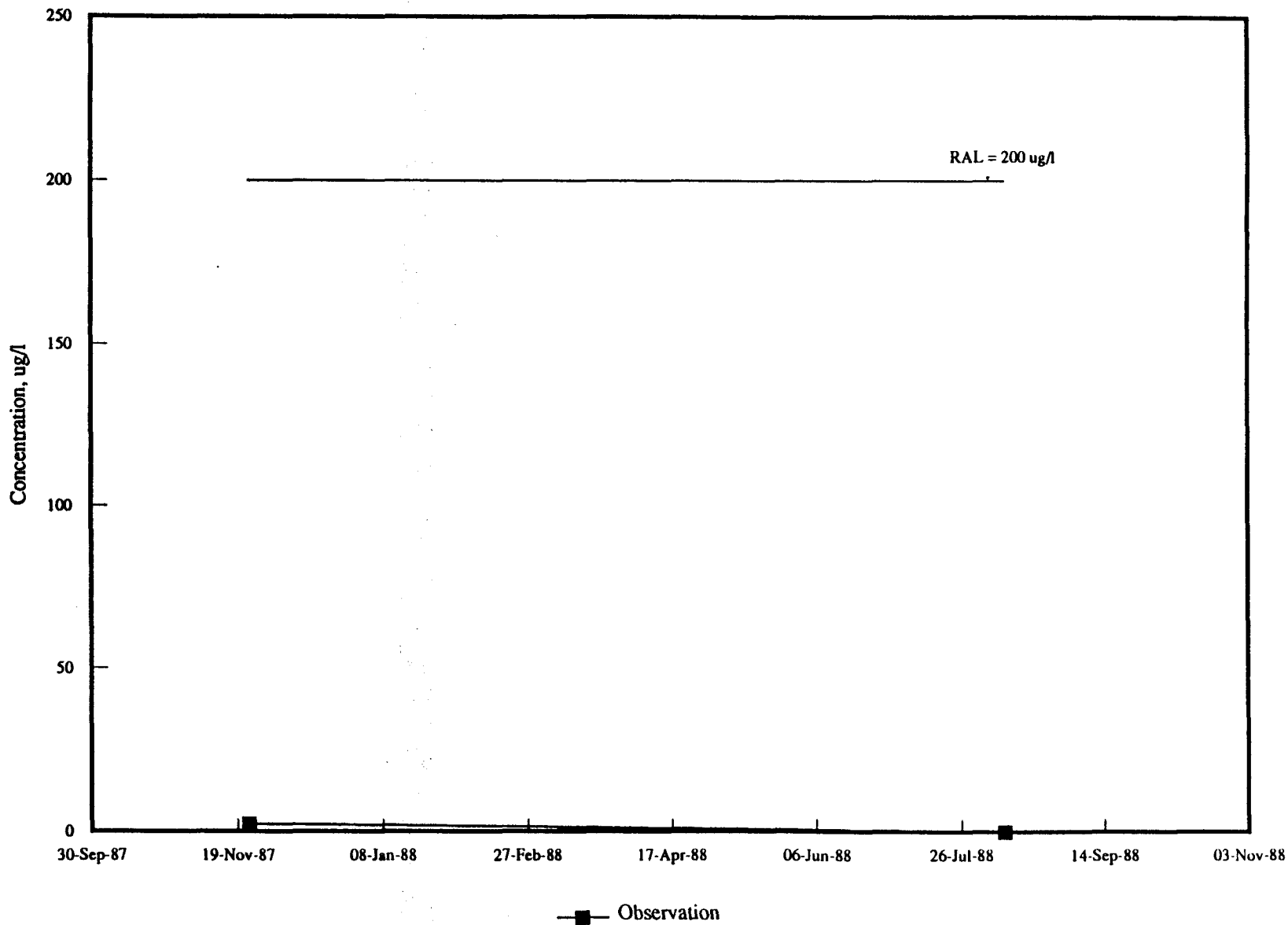
BARIUM - WELL 03L004



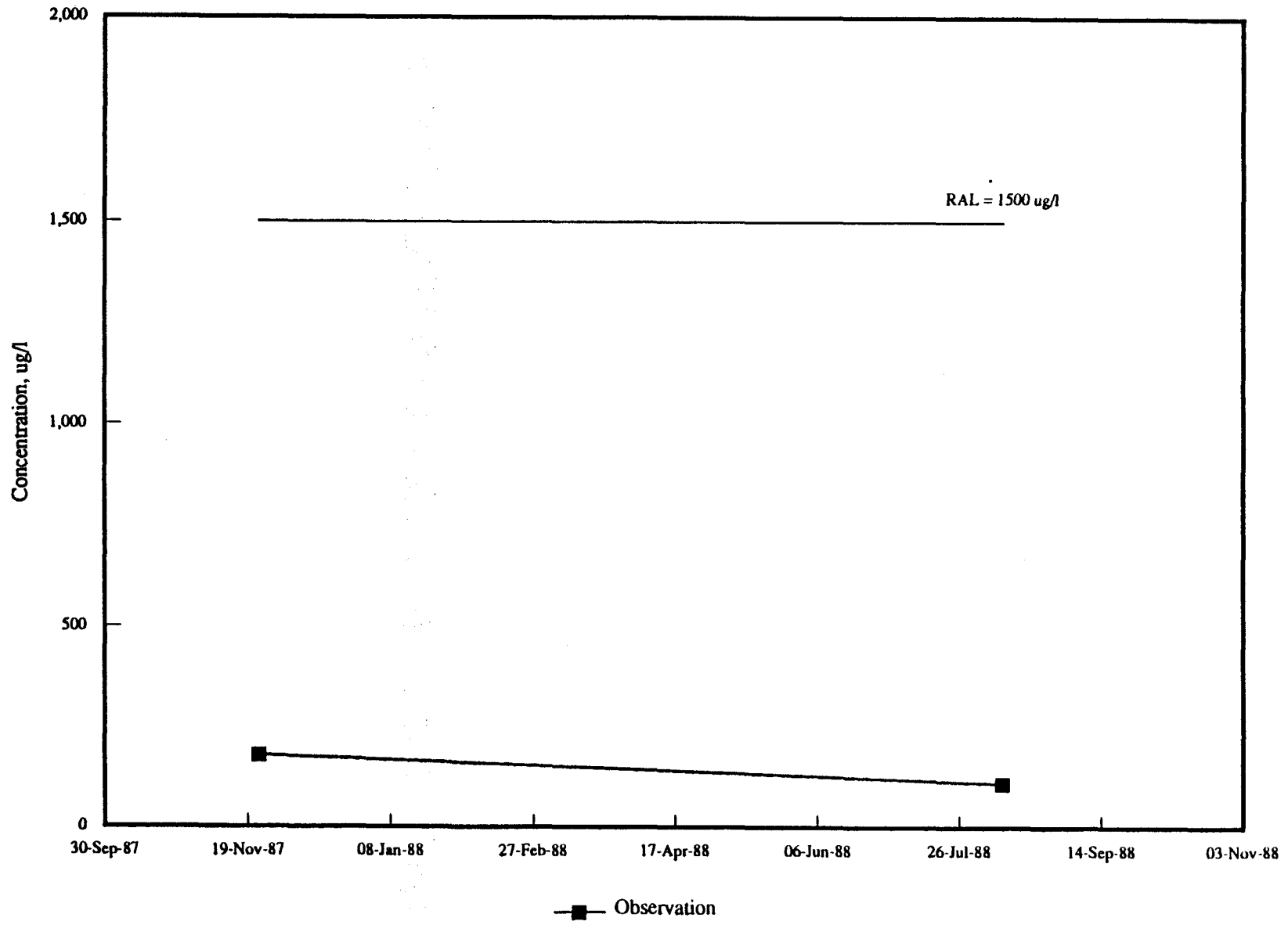
BARIUM - WELL 03L005



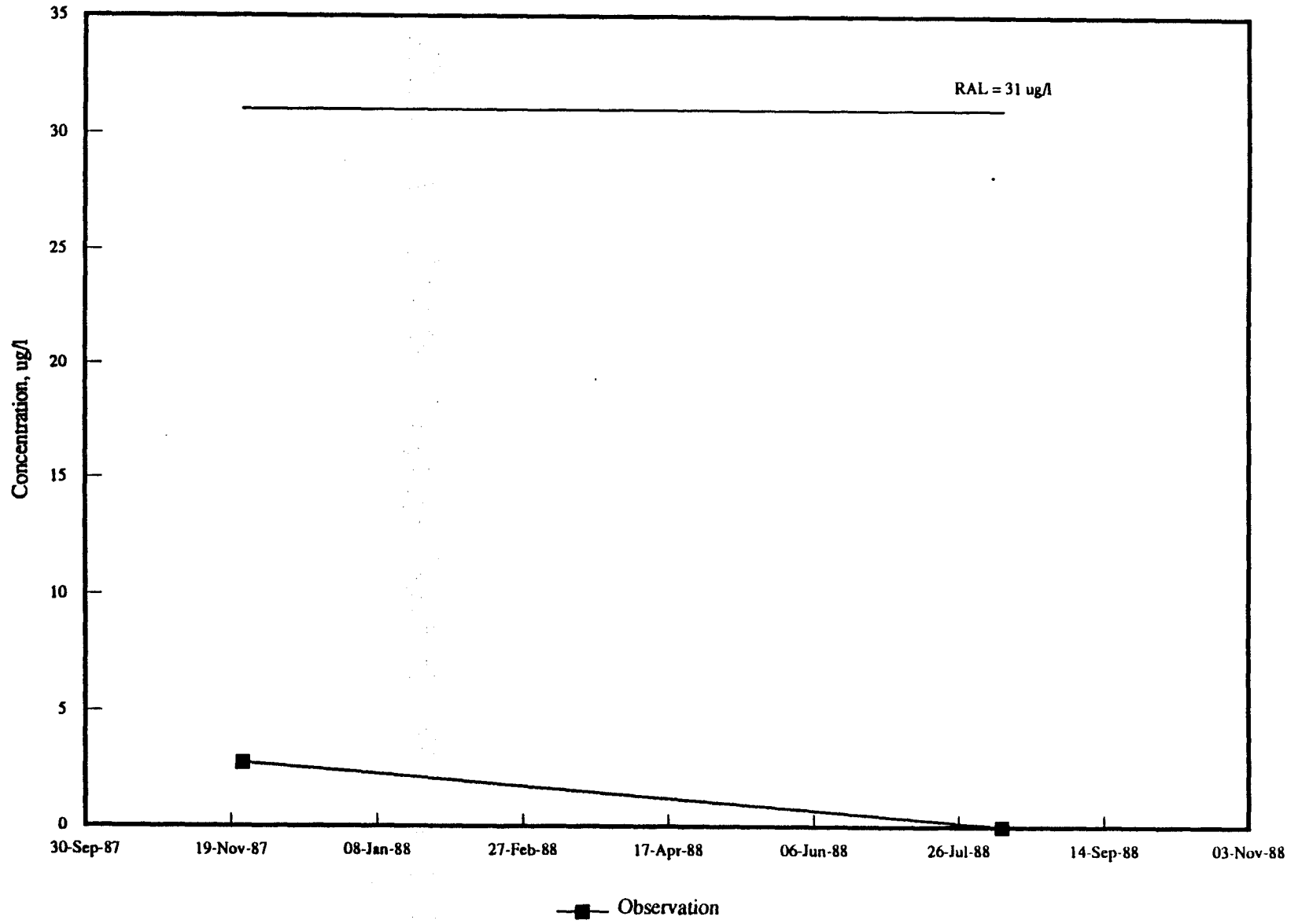
1,1,1-TRICHLOROETHANE - WELL 03L014



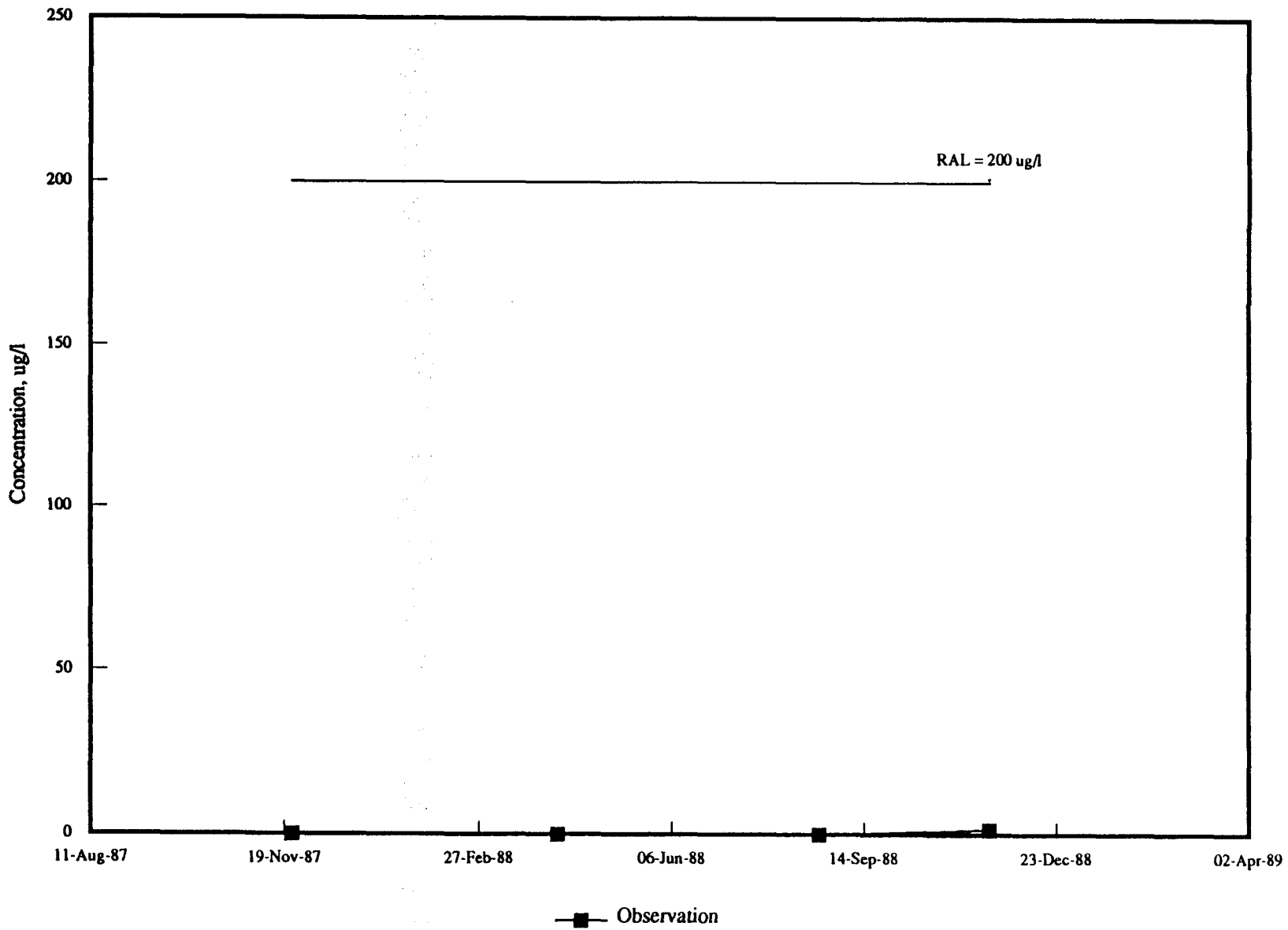
BARIUM - WELL 03L014



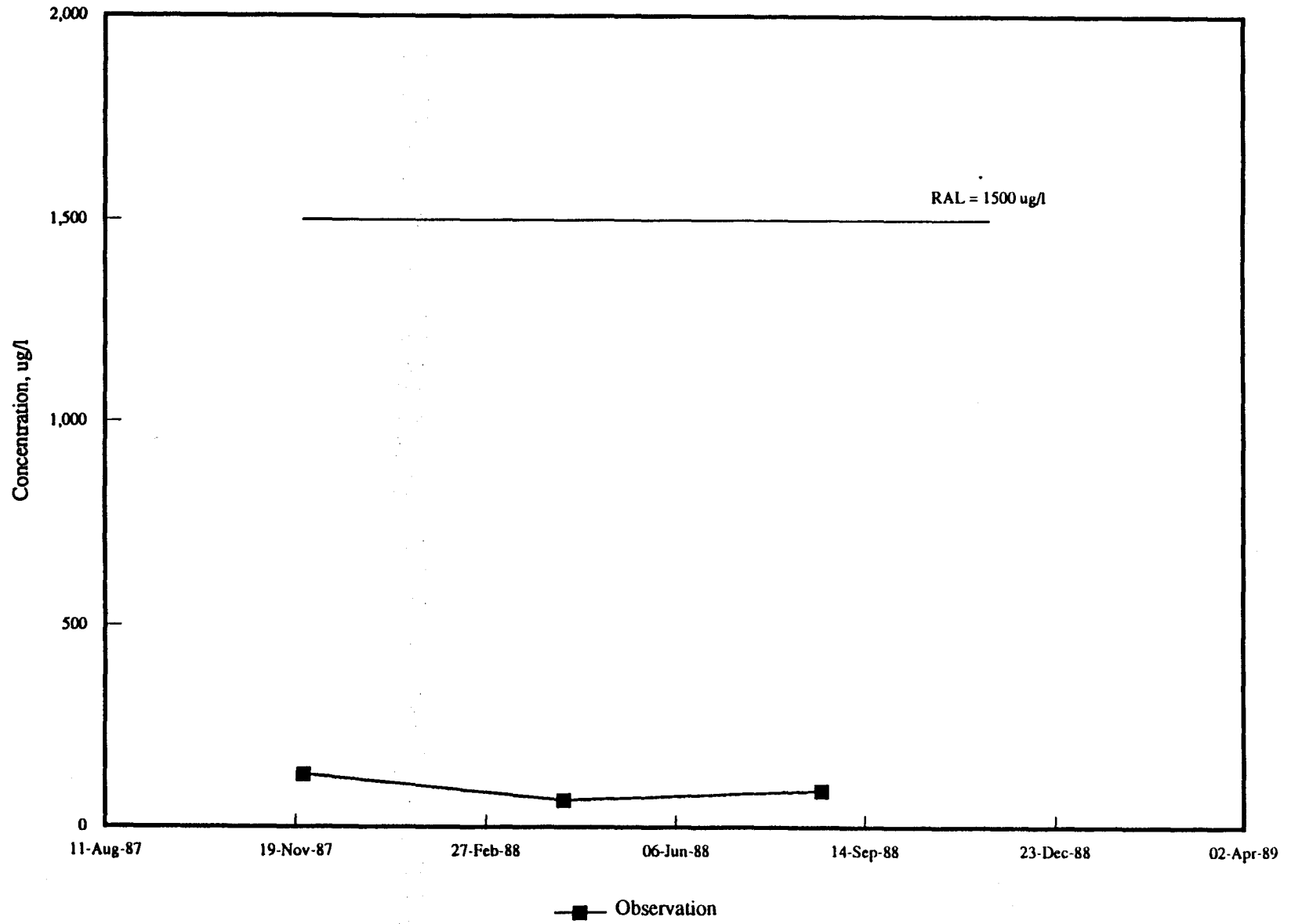
TRICHLOROETHENE - WELL 03L014



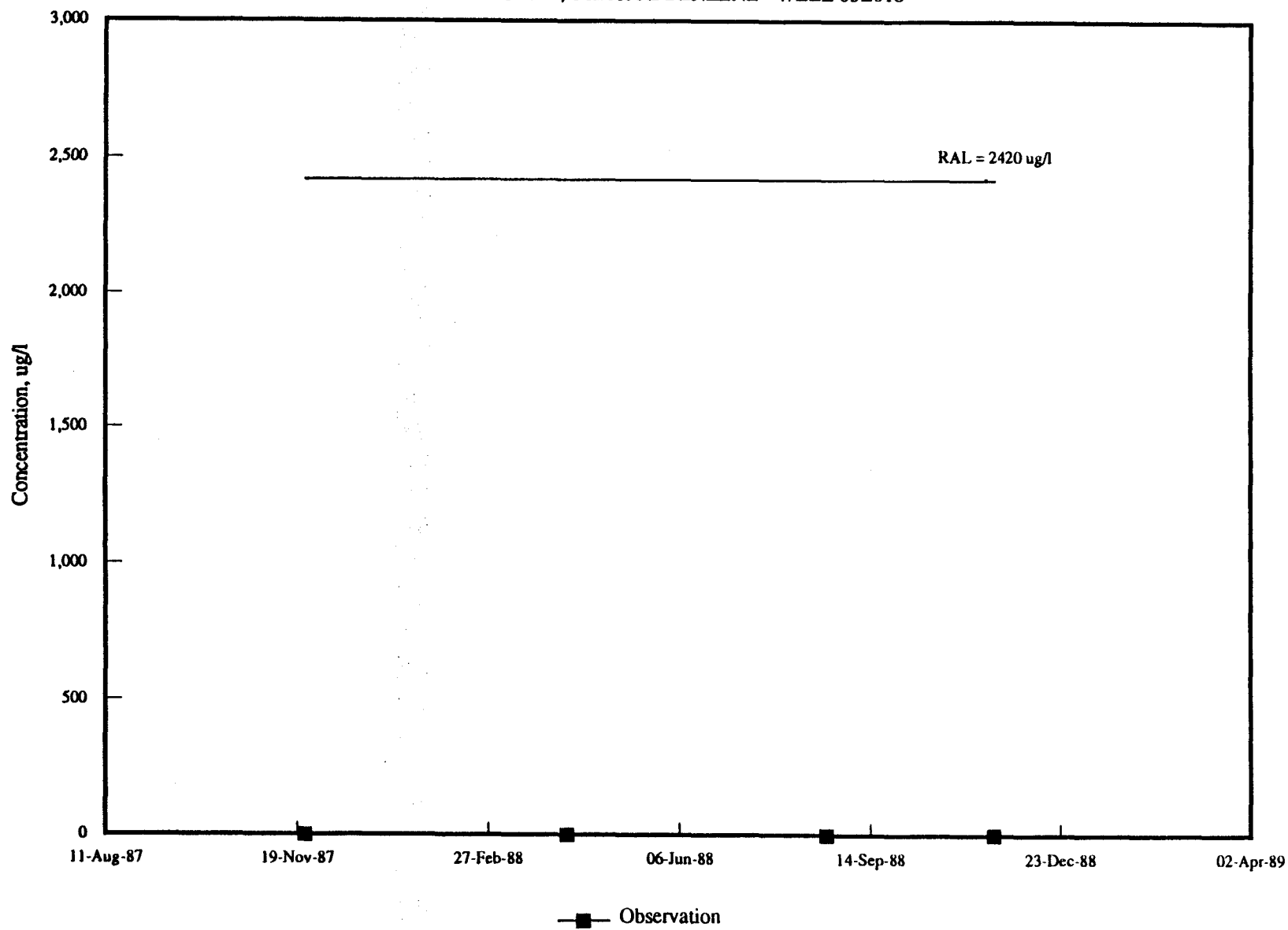
1,1,1-TRICHLOROETHANE - WELL 03L018



BARIUM - WELL 03L018

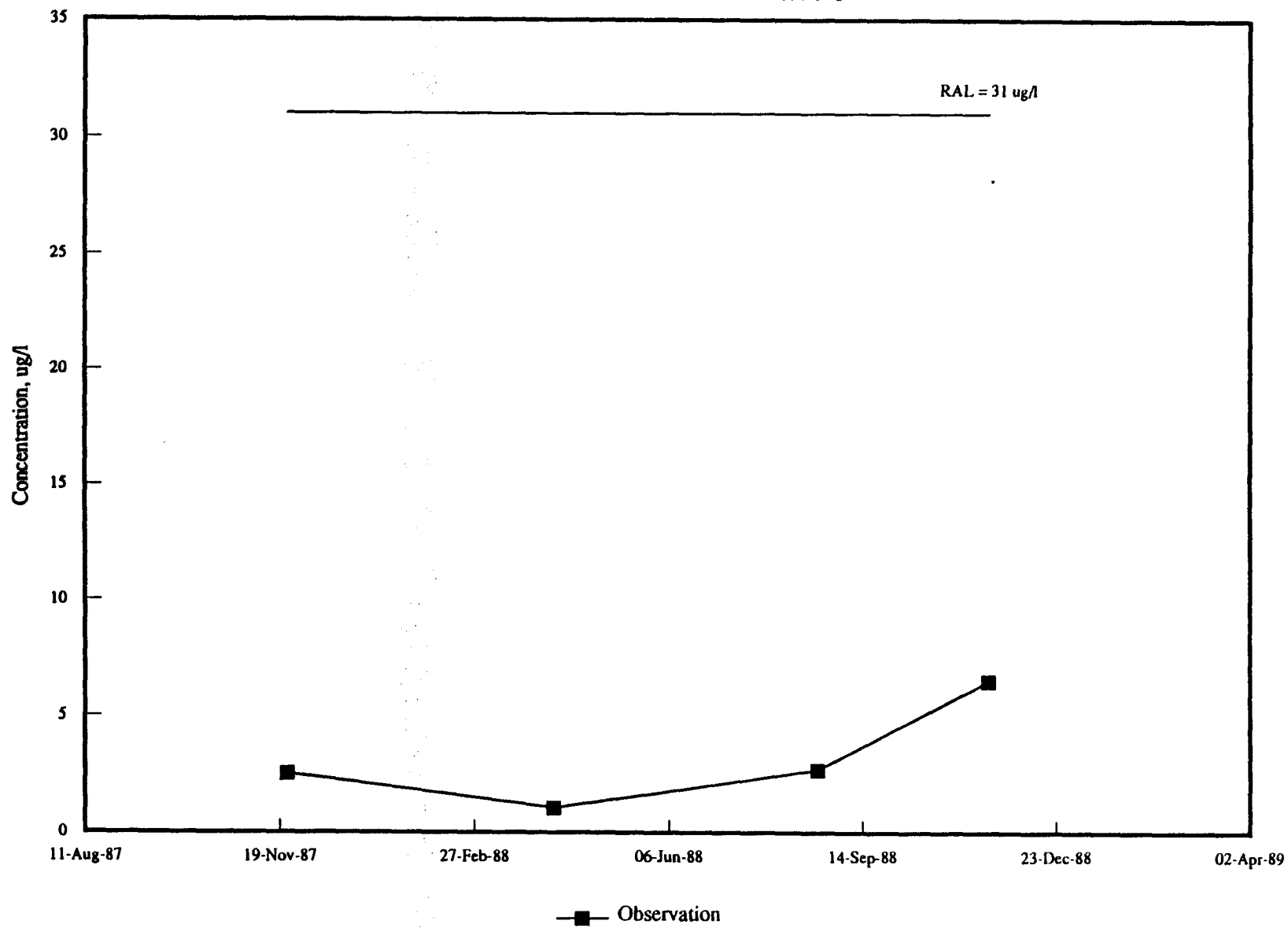


TOLUENE / METHYL BENZENE - WELL 03L018

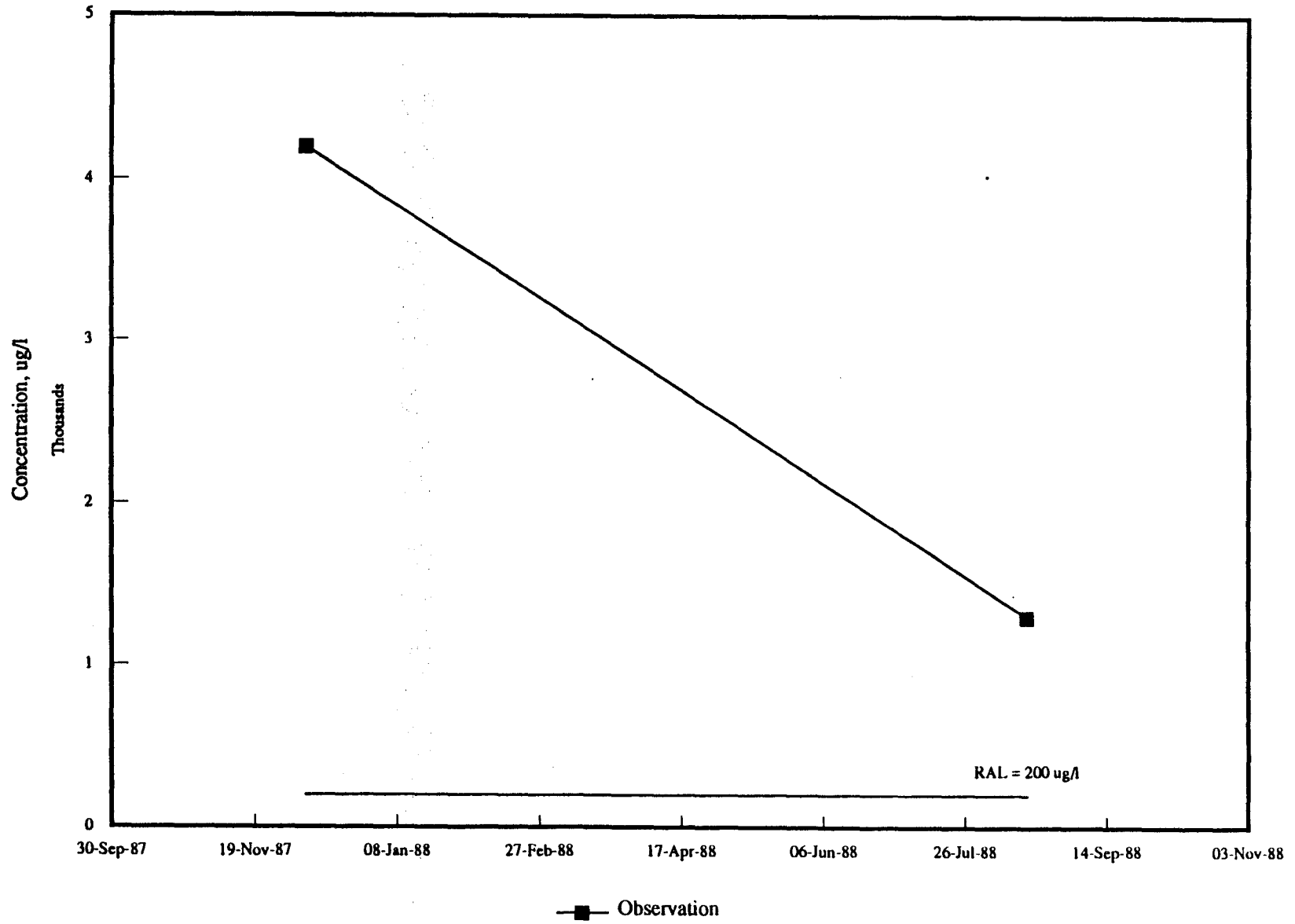




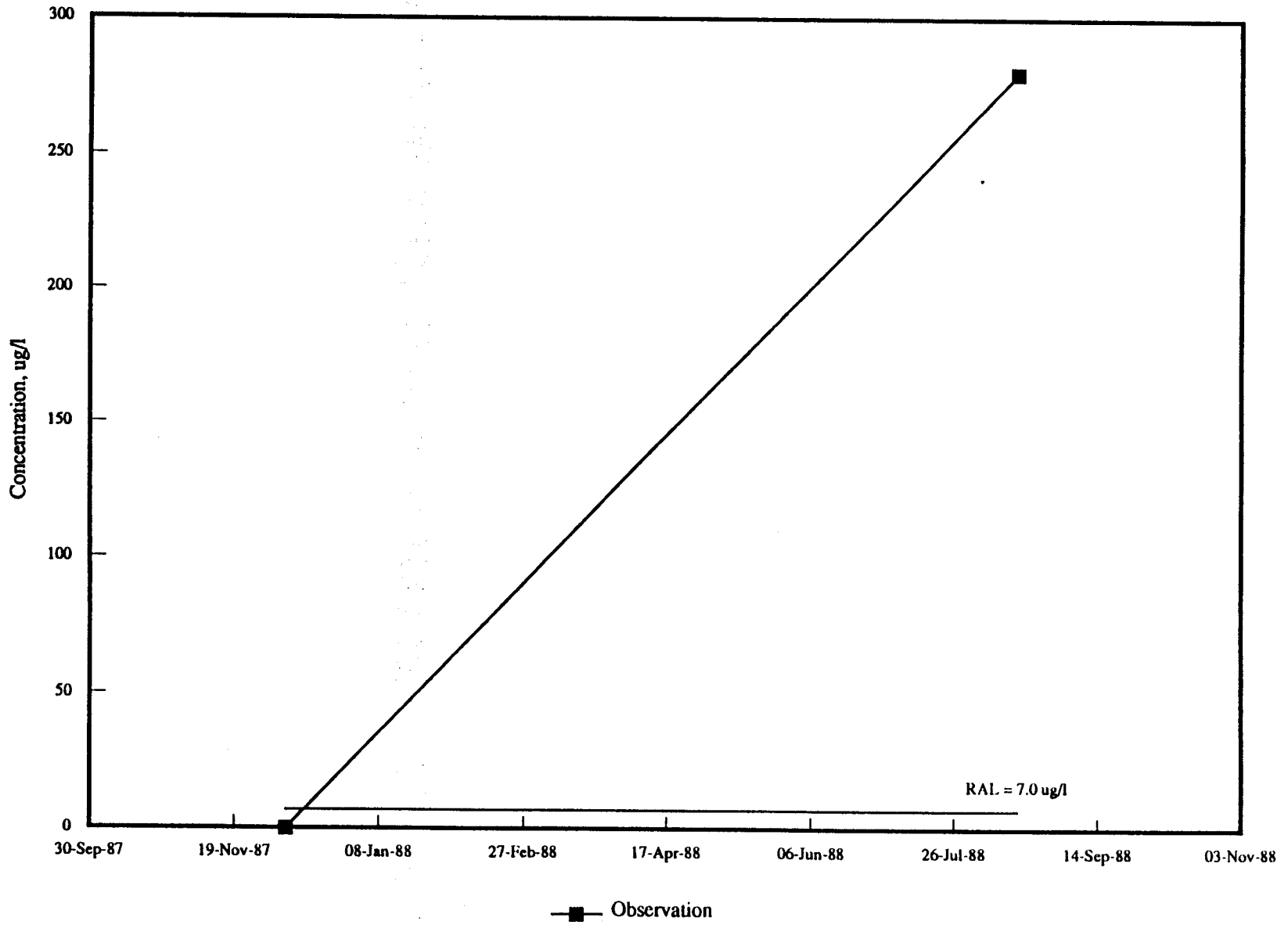
TRICHLOROETHENE - WELL 03L018



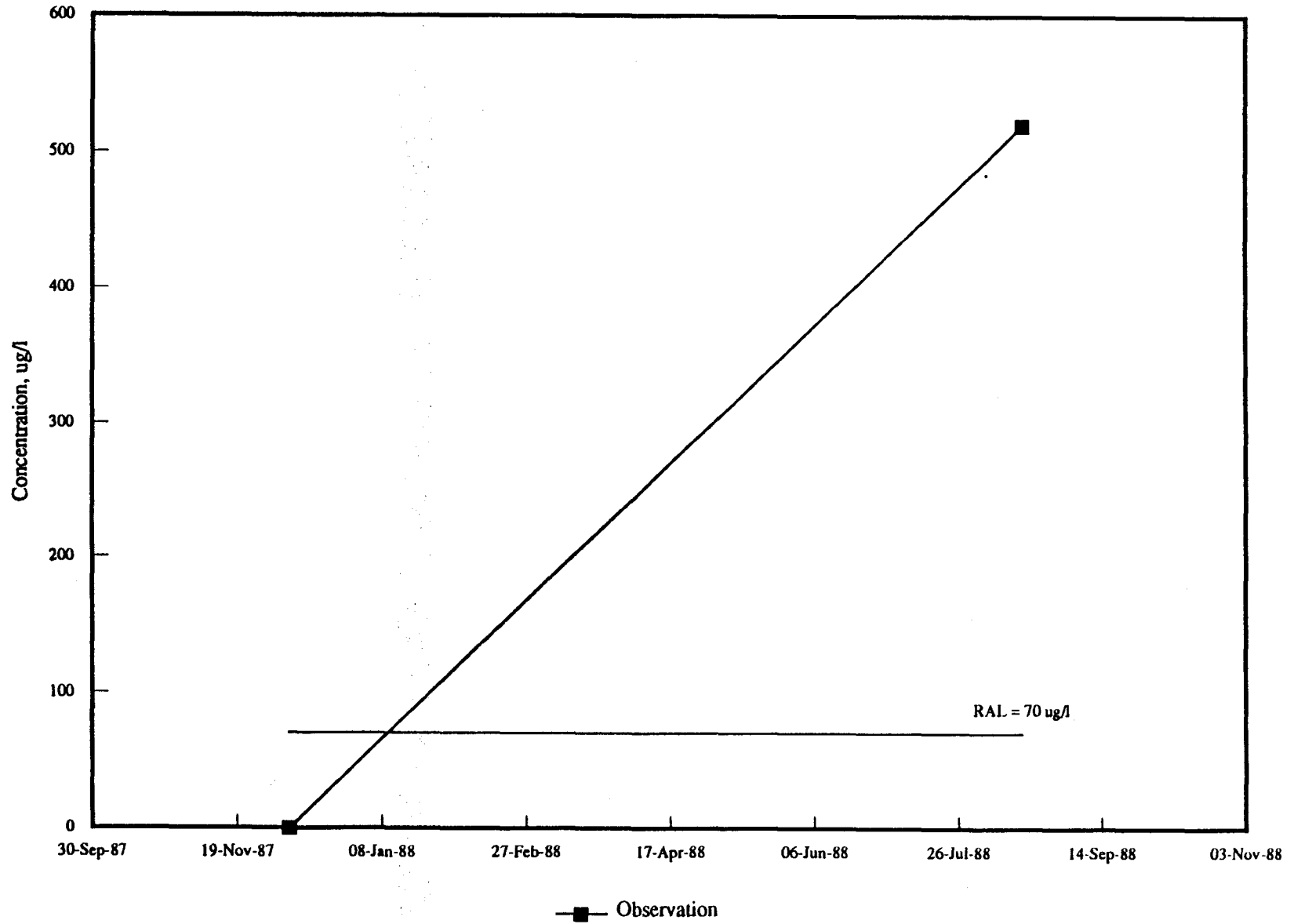
1,1,1-TRICHLOROETHANE - WELL 03L020



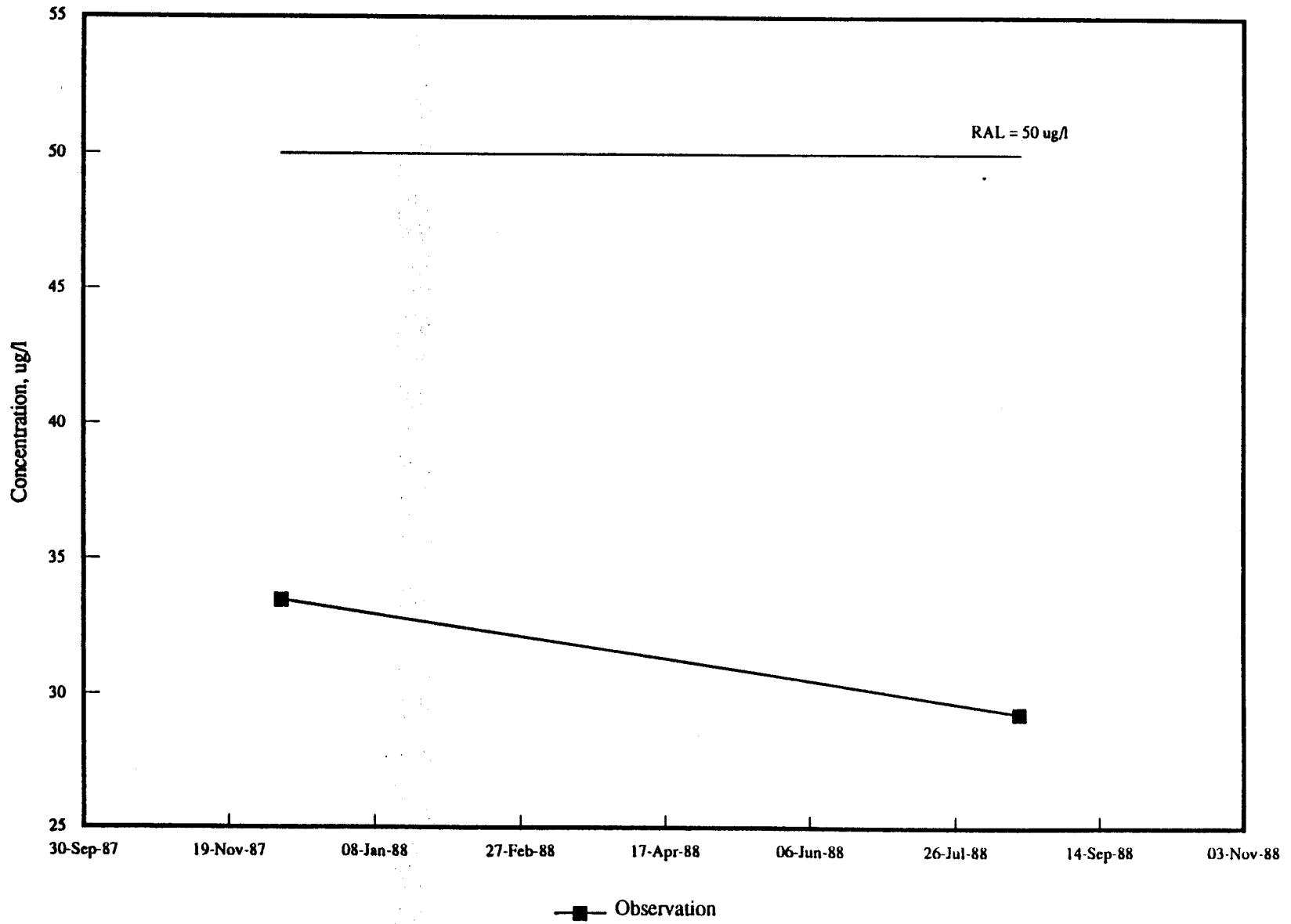
1,1-DICHLOROETHENE - WELL 03L020



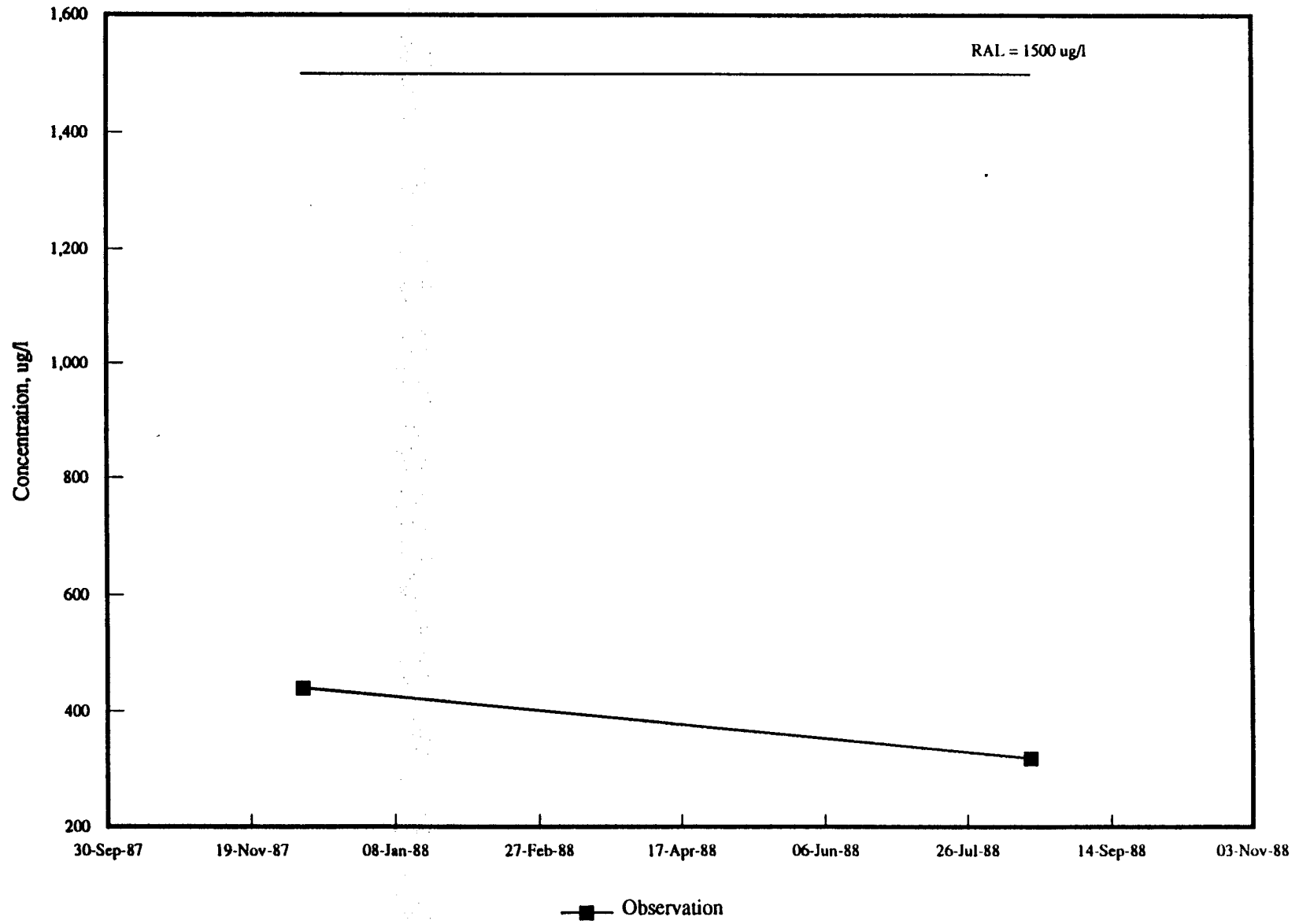
1,2-DICHLOROETHENE - WELL 03L020



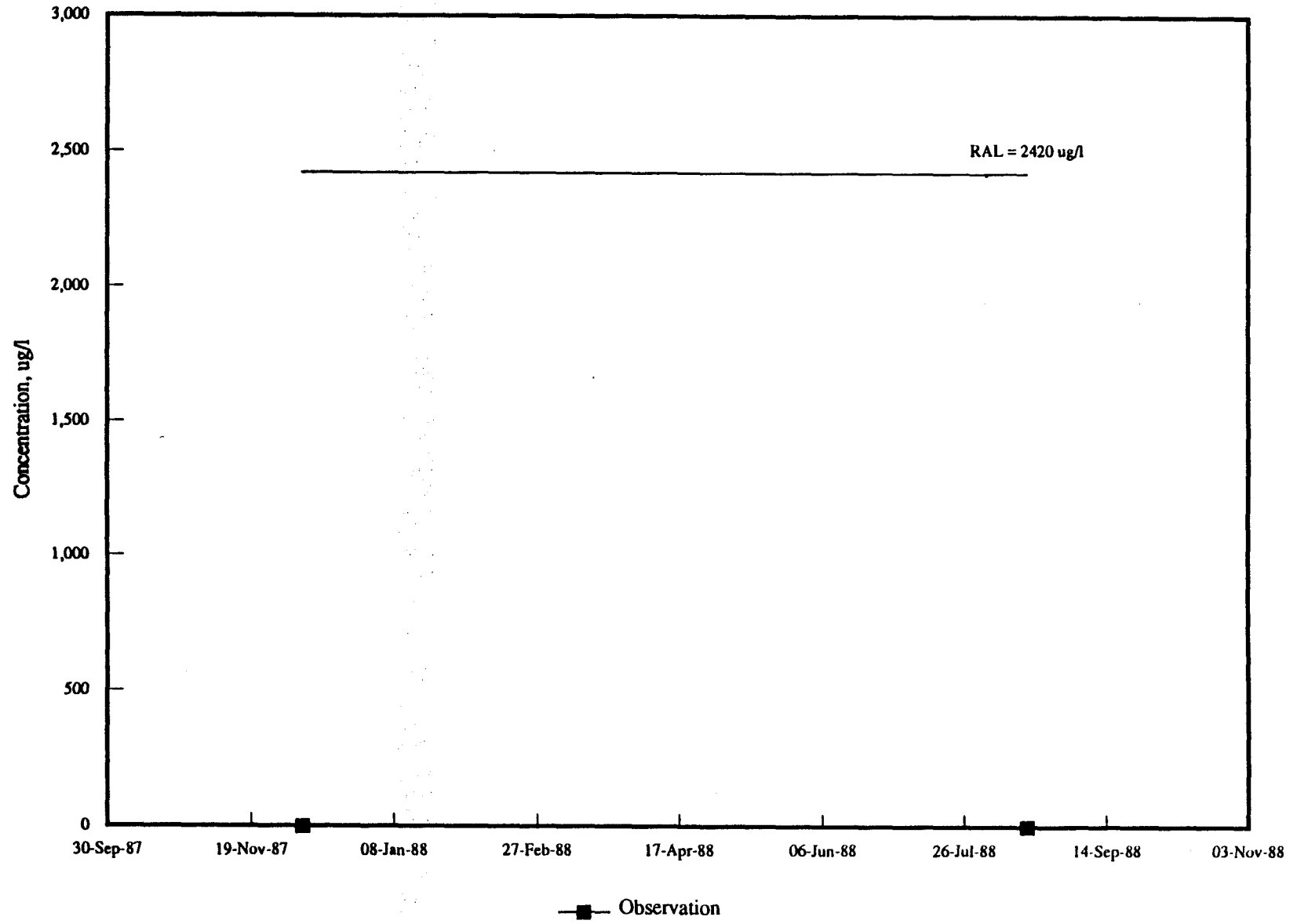
ARSENIC - WELL 03L020



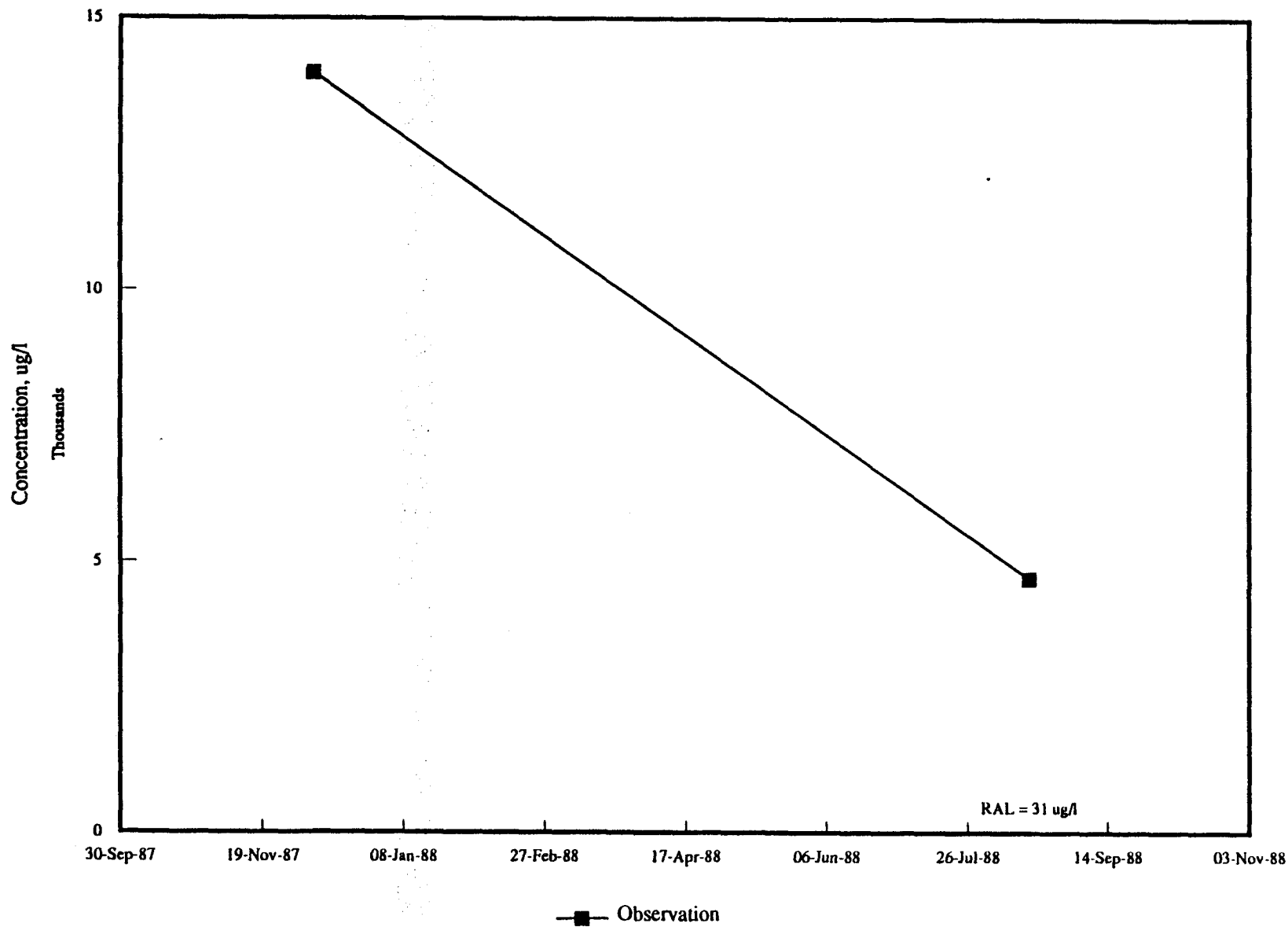
BARIUM - WELL 03L020



TOLUENE / METHYL BENZENE - WELL 03L020

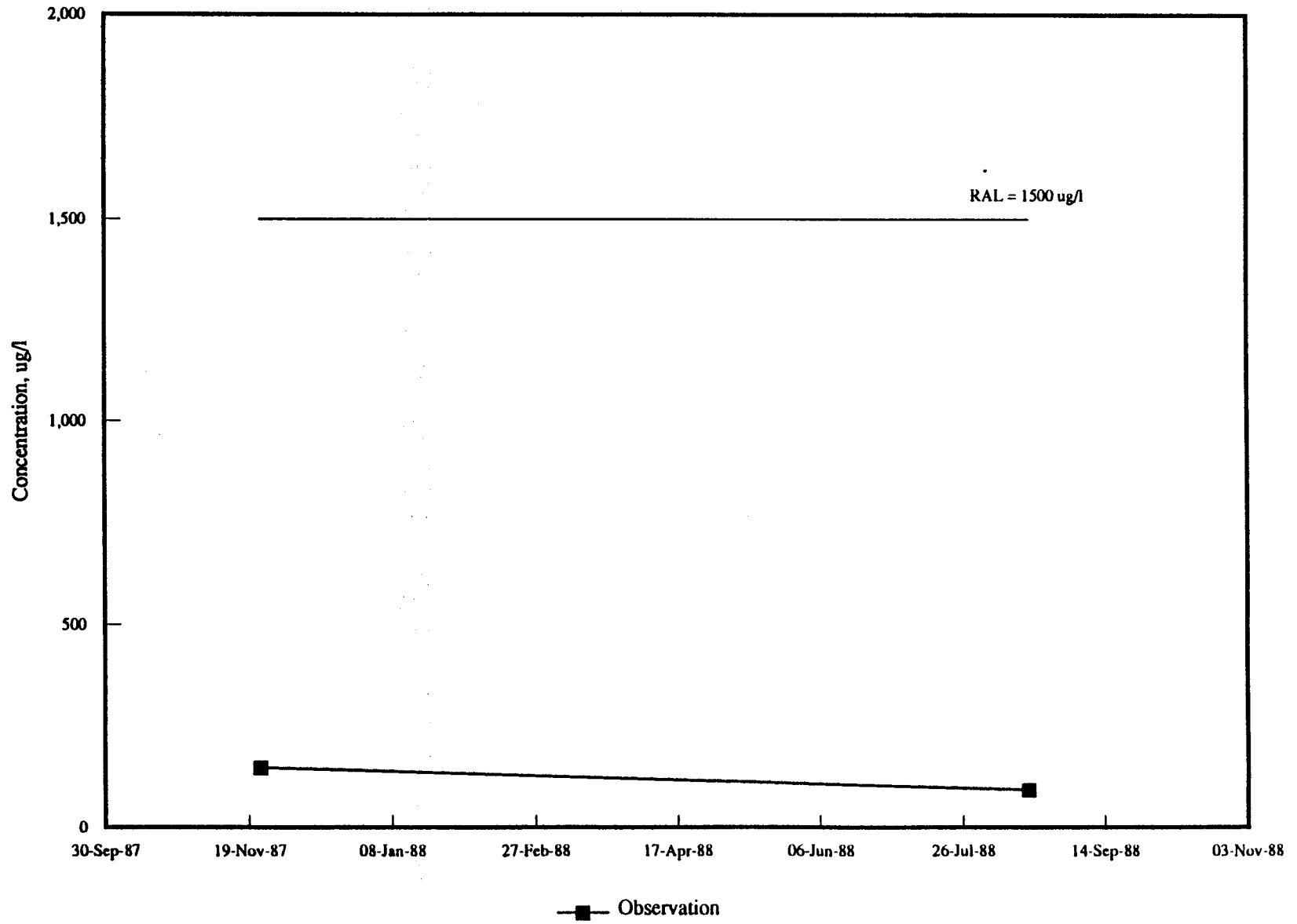


TRICHLOROETHENE - WELL 03L020

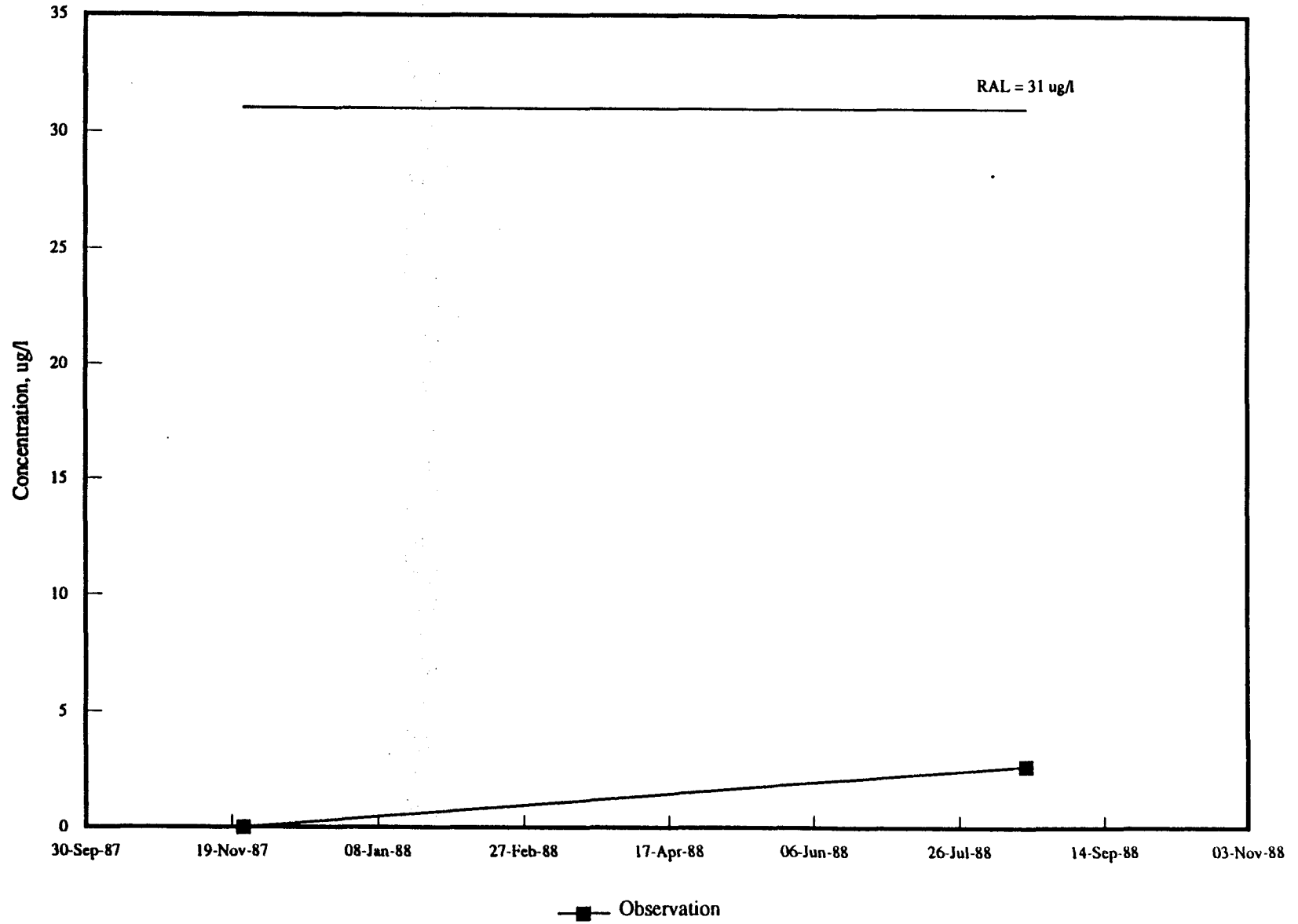




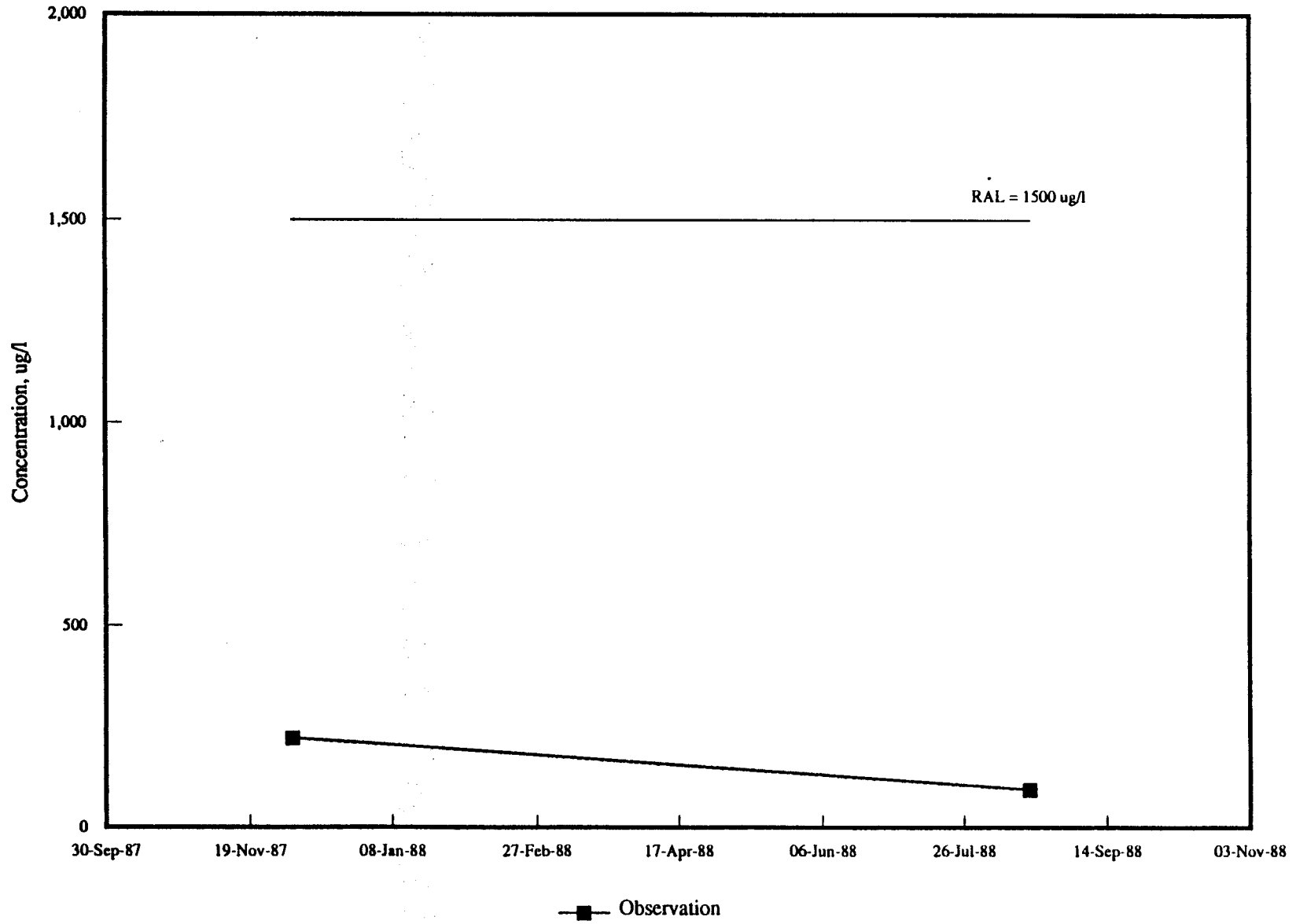
BARIUM - WELL 03L078



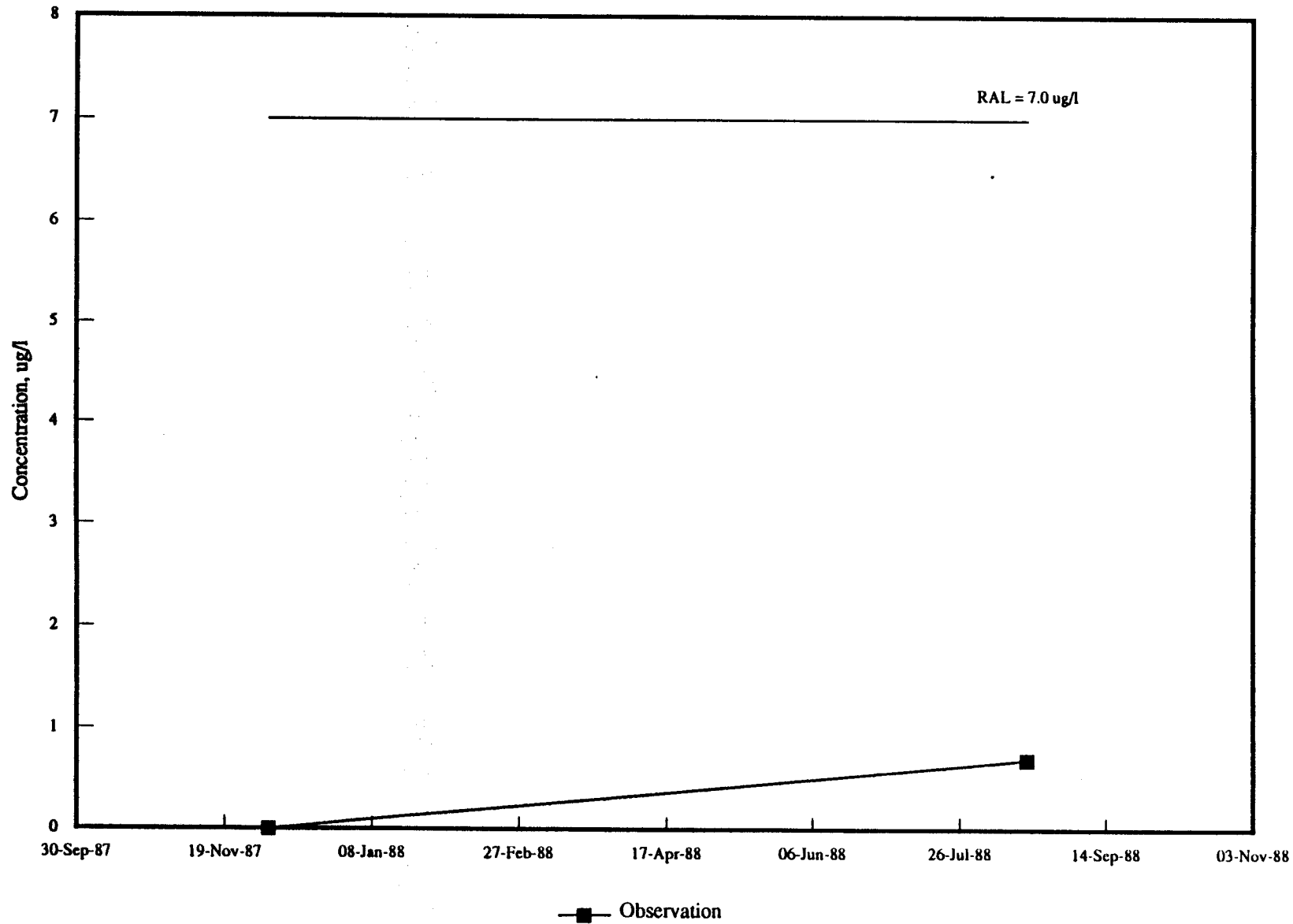
TRICHLOROETHENE - WELL 03L078



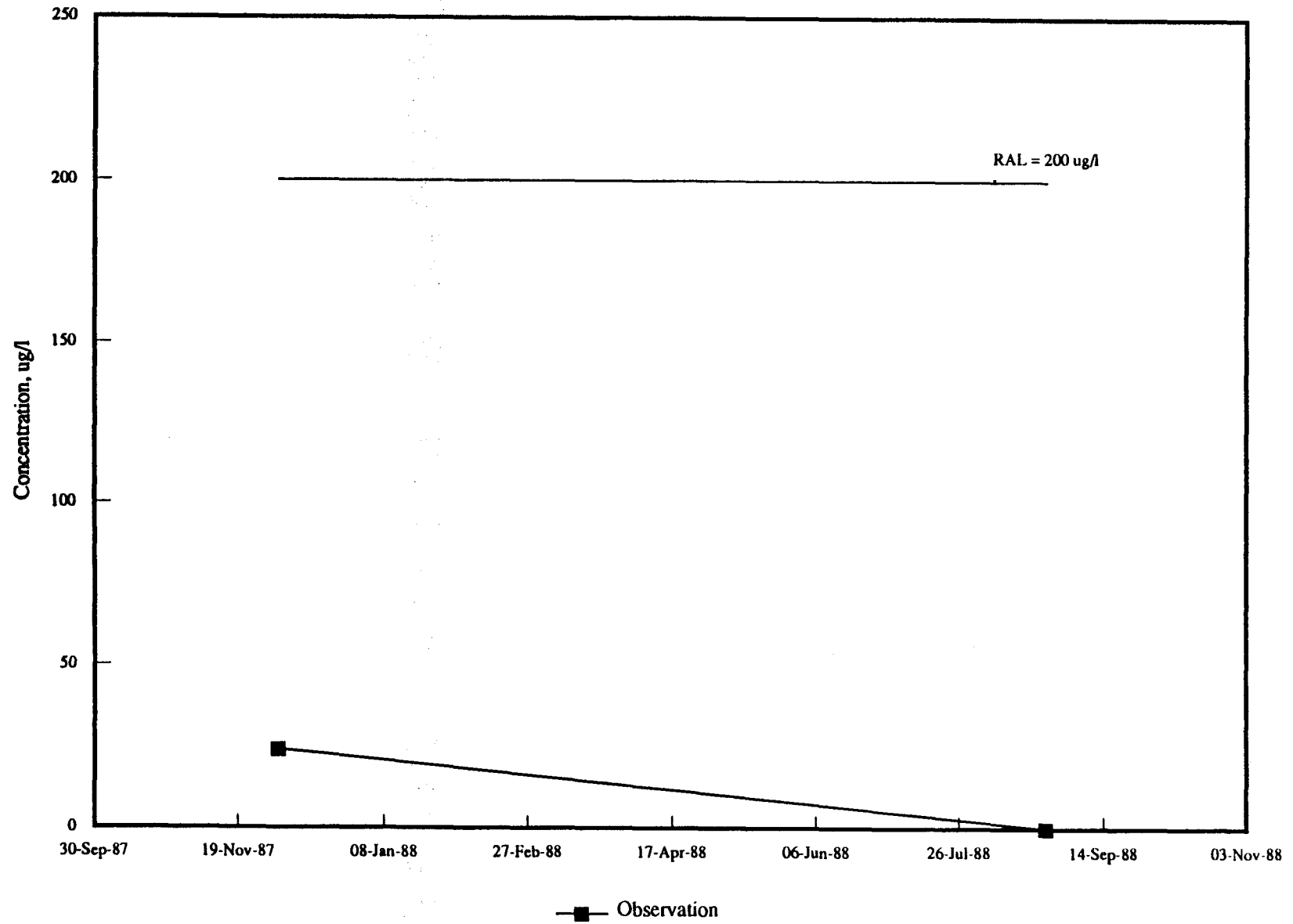
BARIUM - WELL 03L079



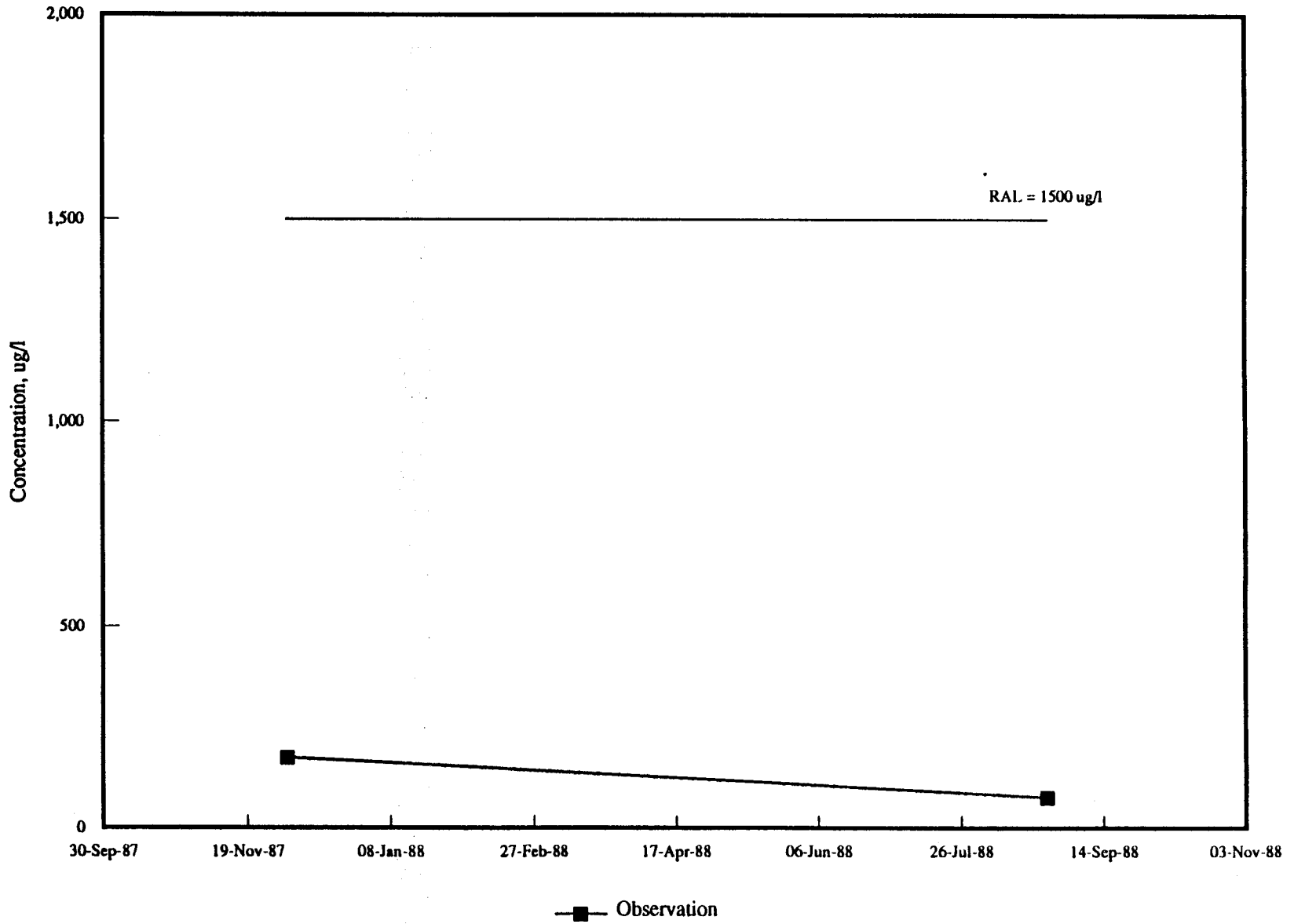
BENZENE - WELL 03L079



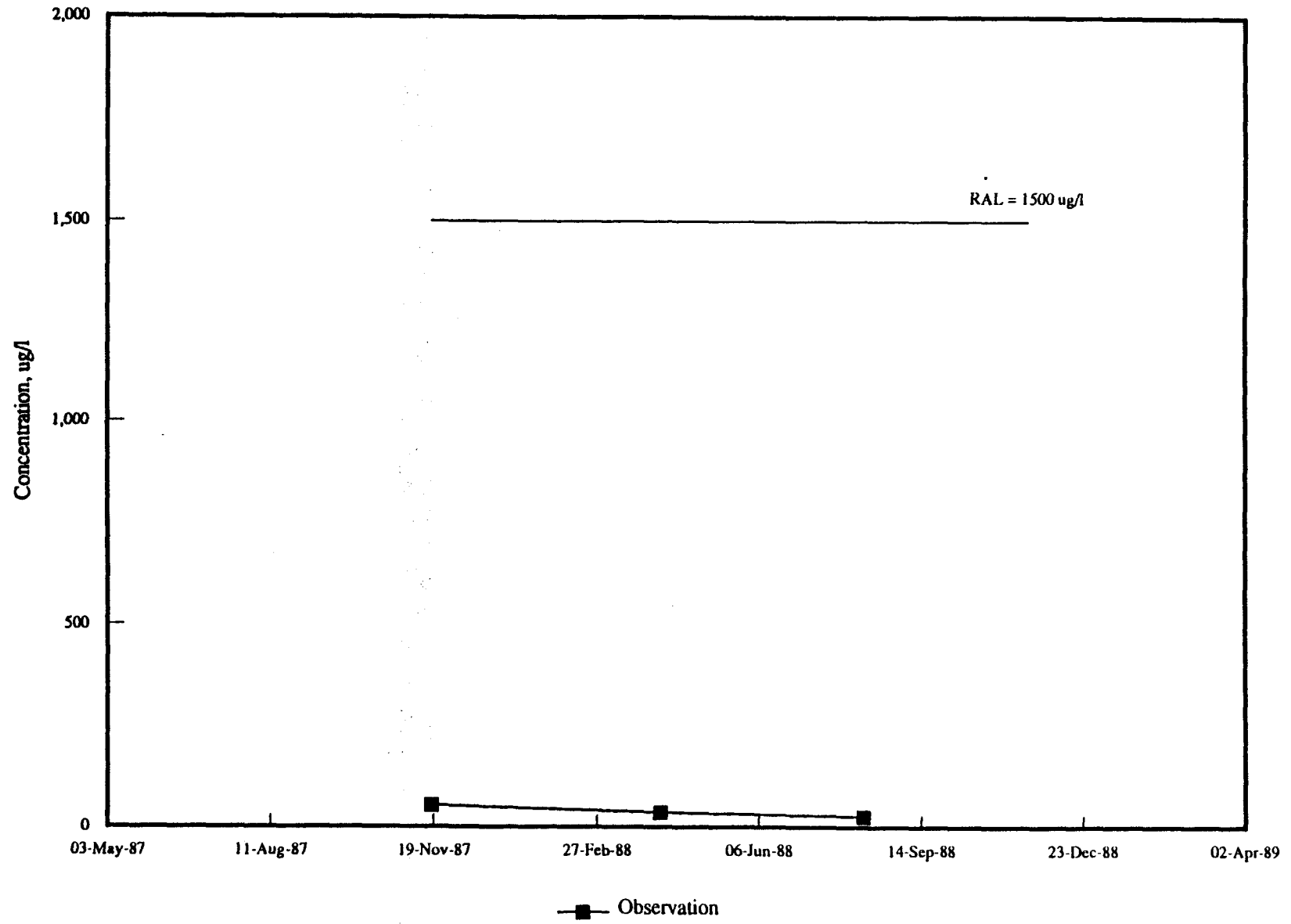
1,1,1-TRICHLOROETHANE - WELL 03L091



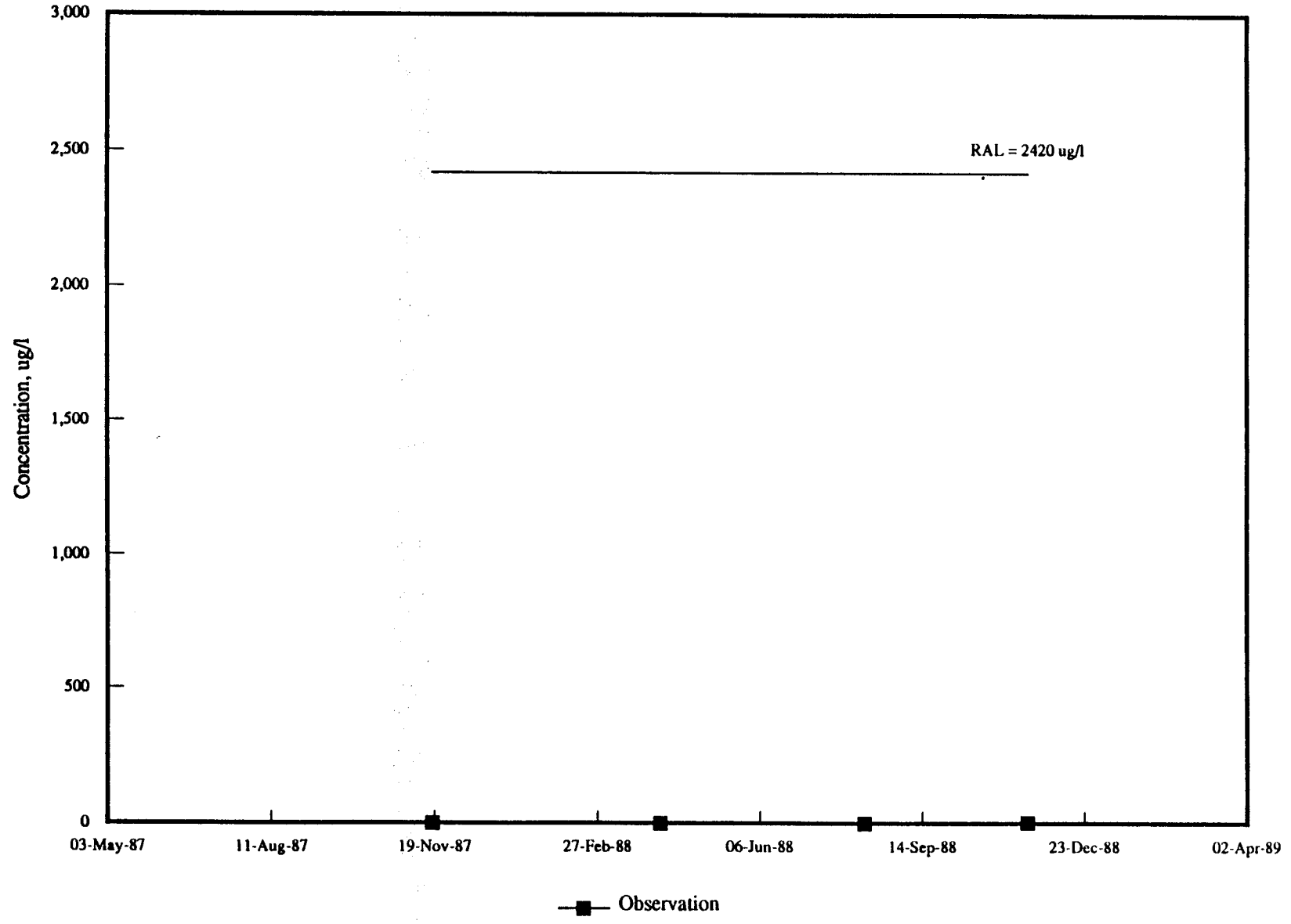
BARIUM - WELL 03L091



BARIUM - WELL 03U113

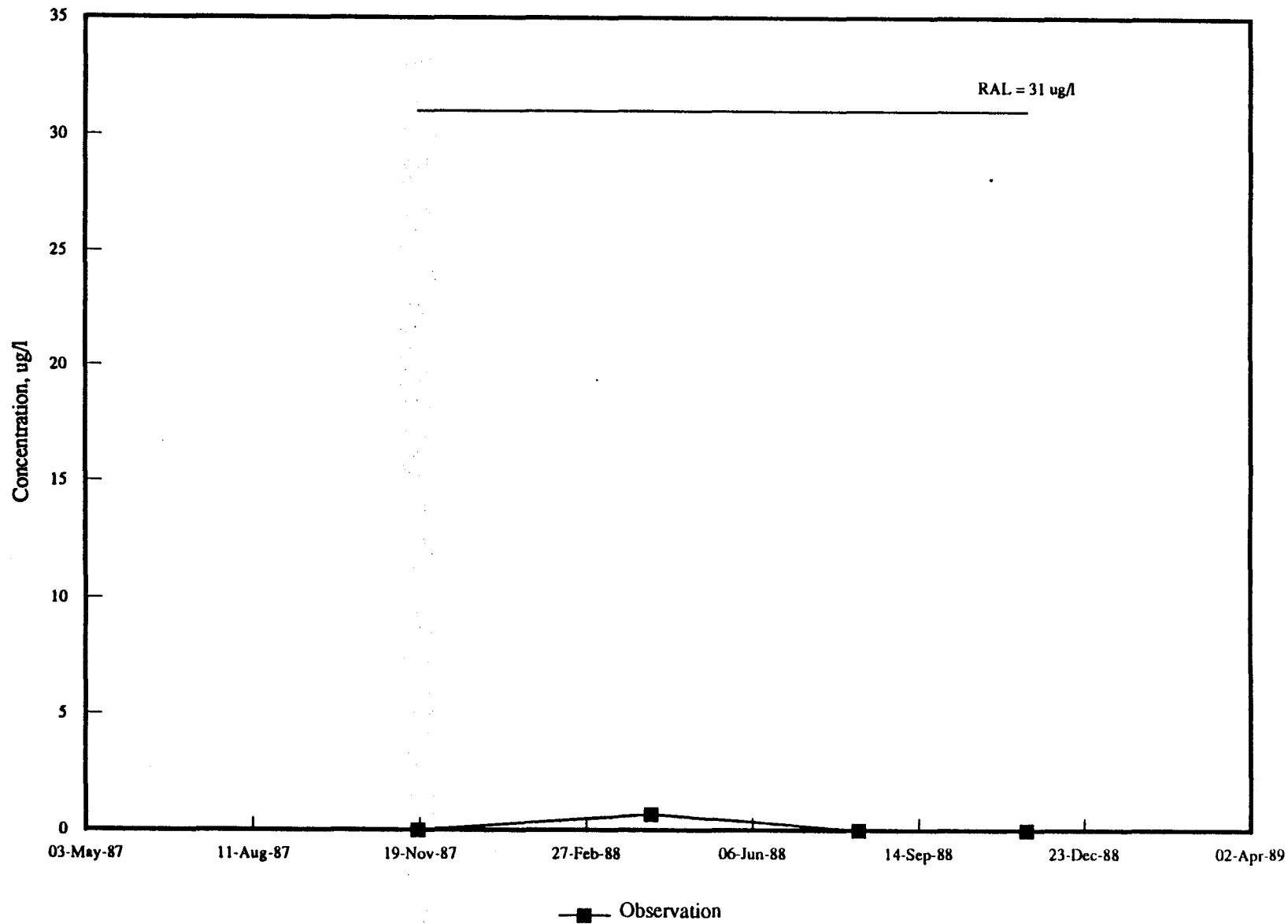


TOLUENE / METHYL BENZENE - WELL 03U113

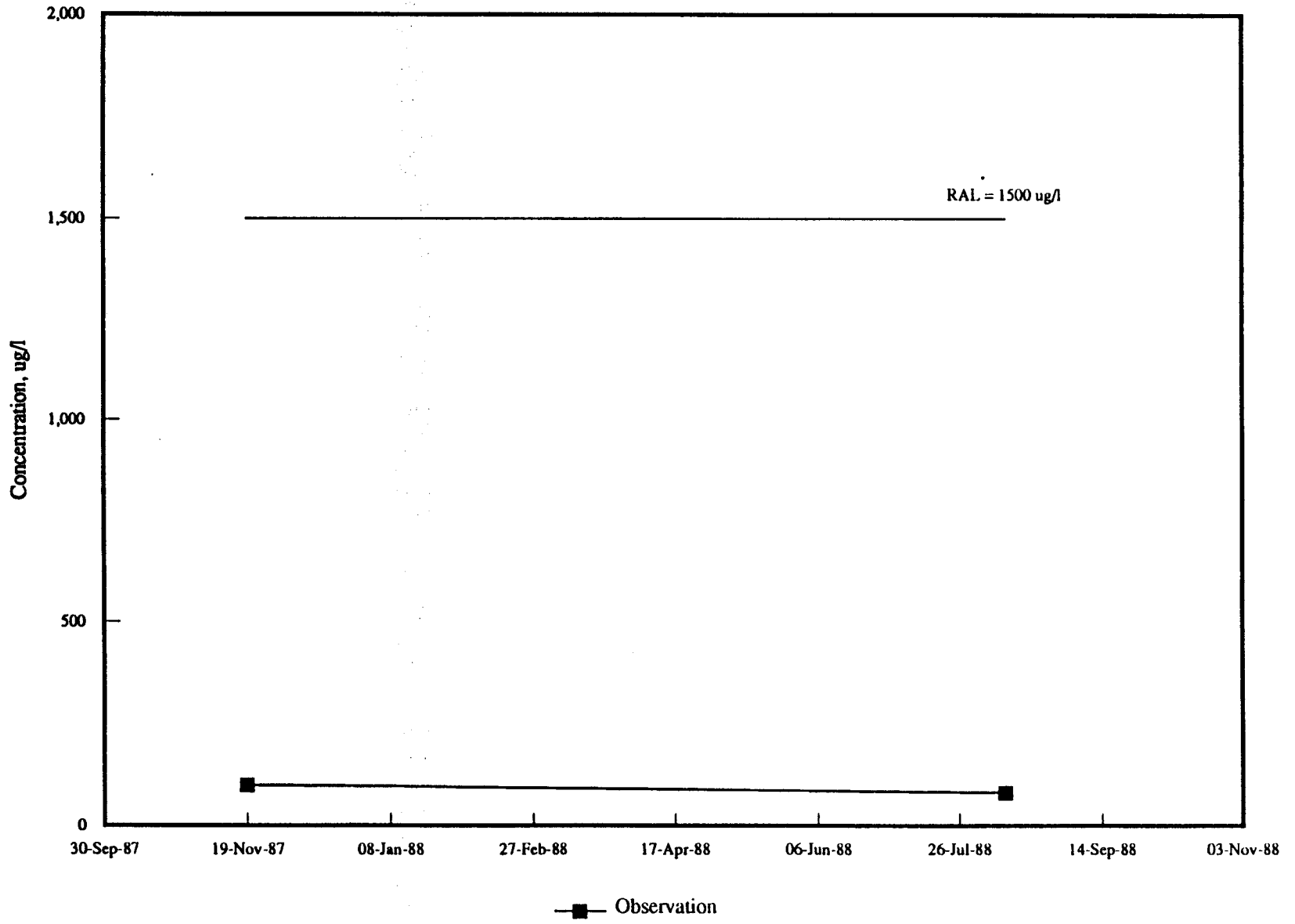




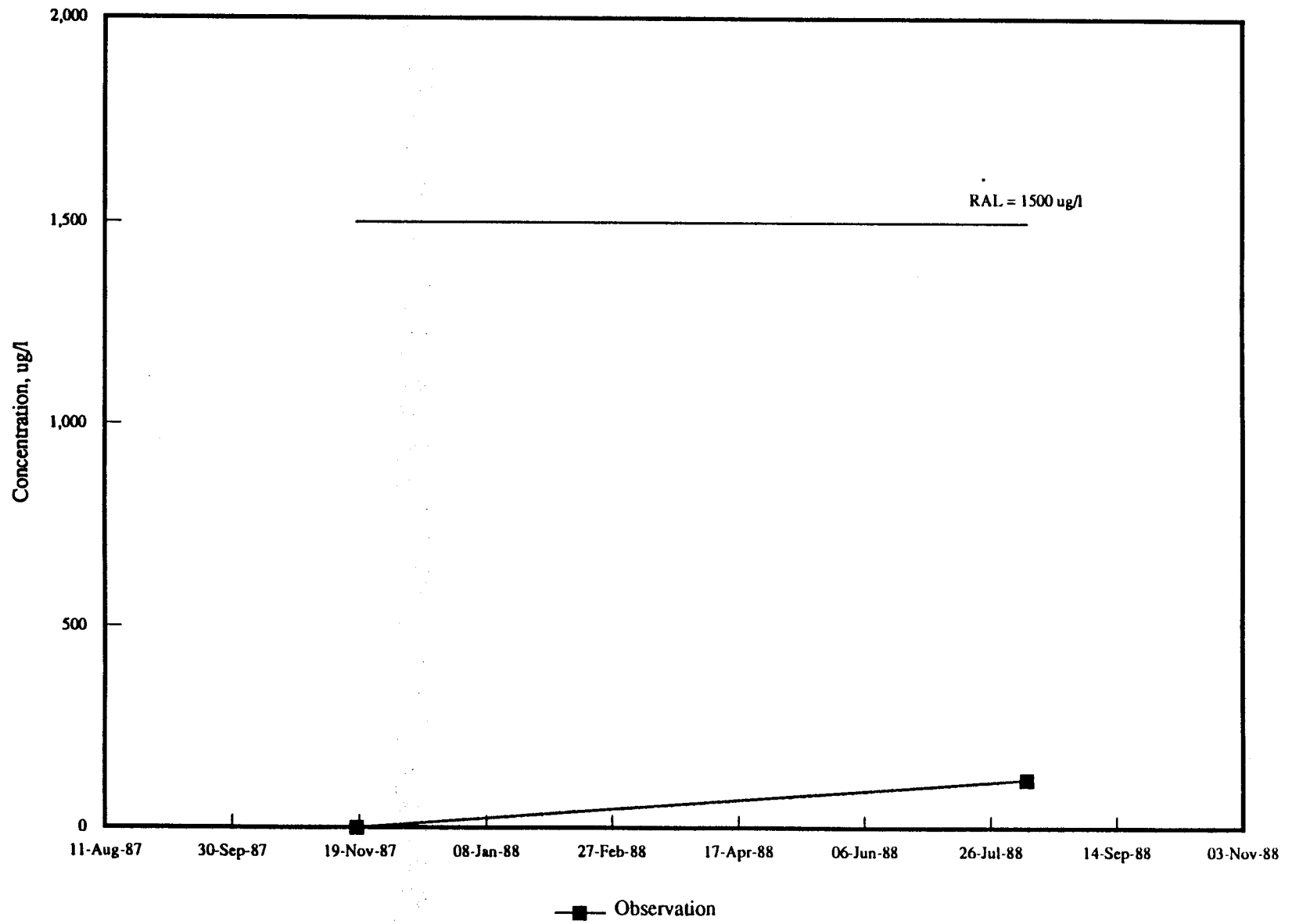
TRICHLOROETHENE - WELL 03U113



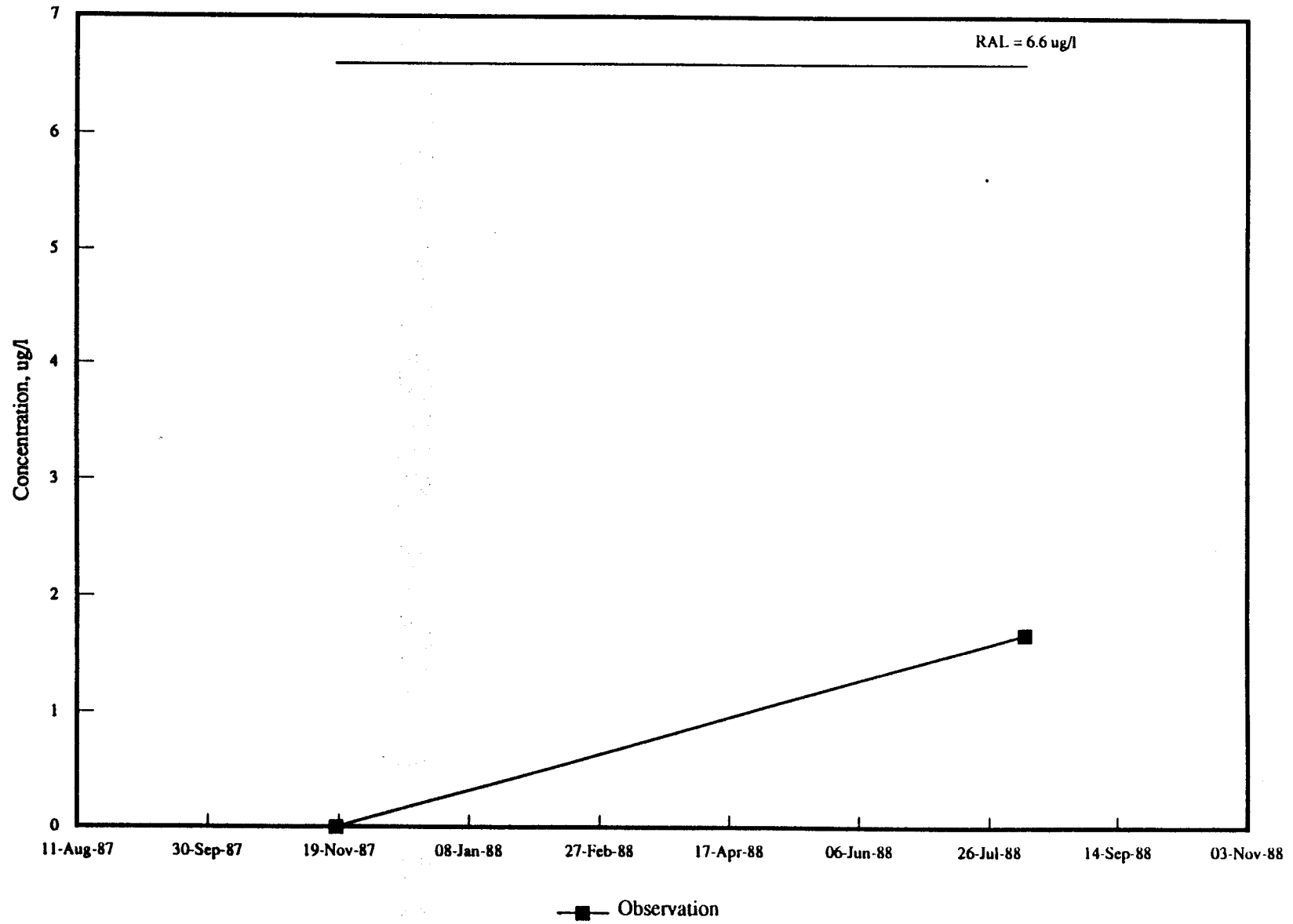
BARIUM - WELL 03M003



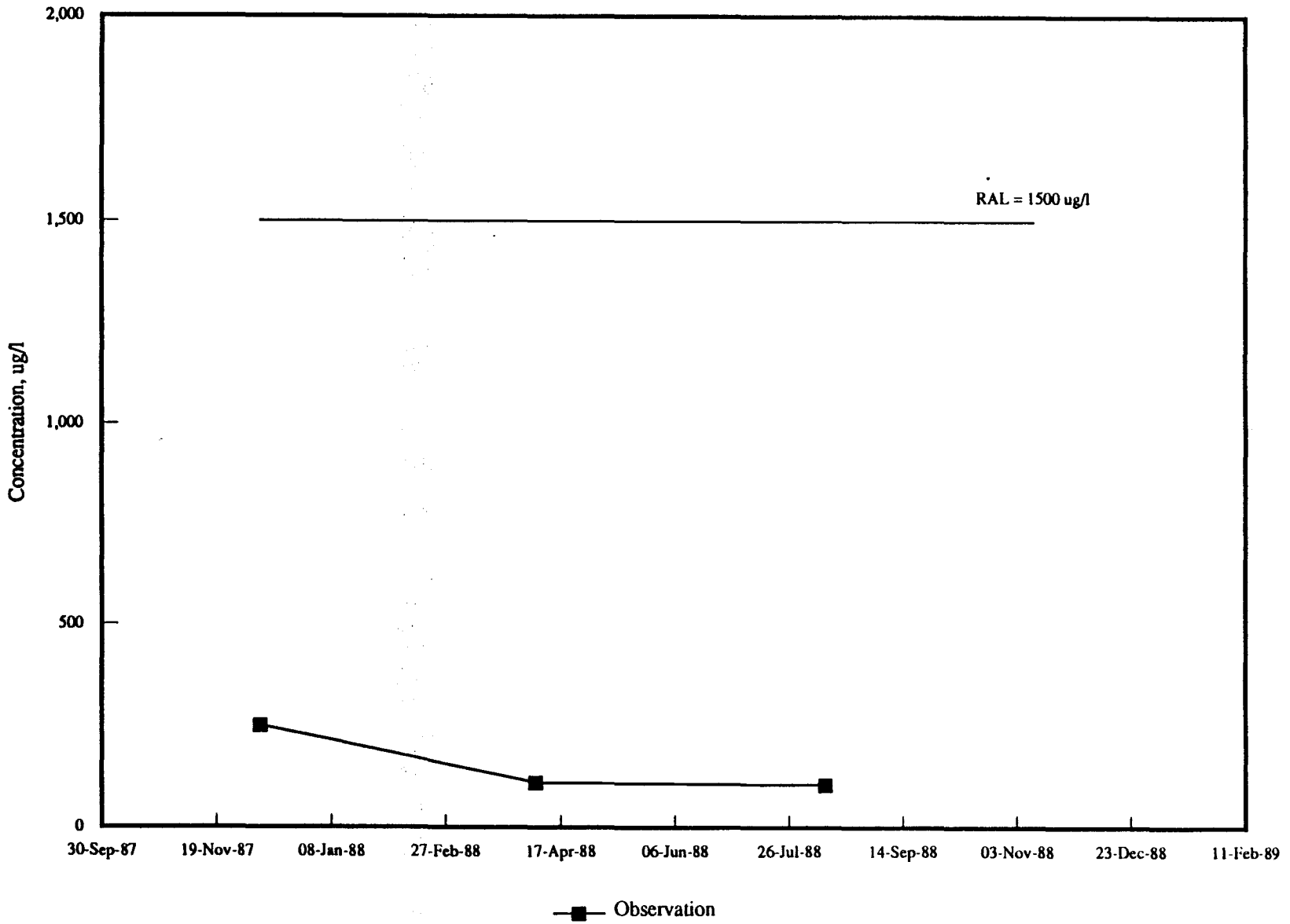
BARIUM - WELL 03M004



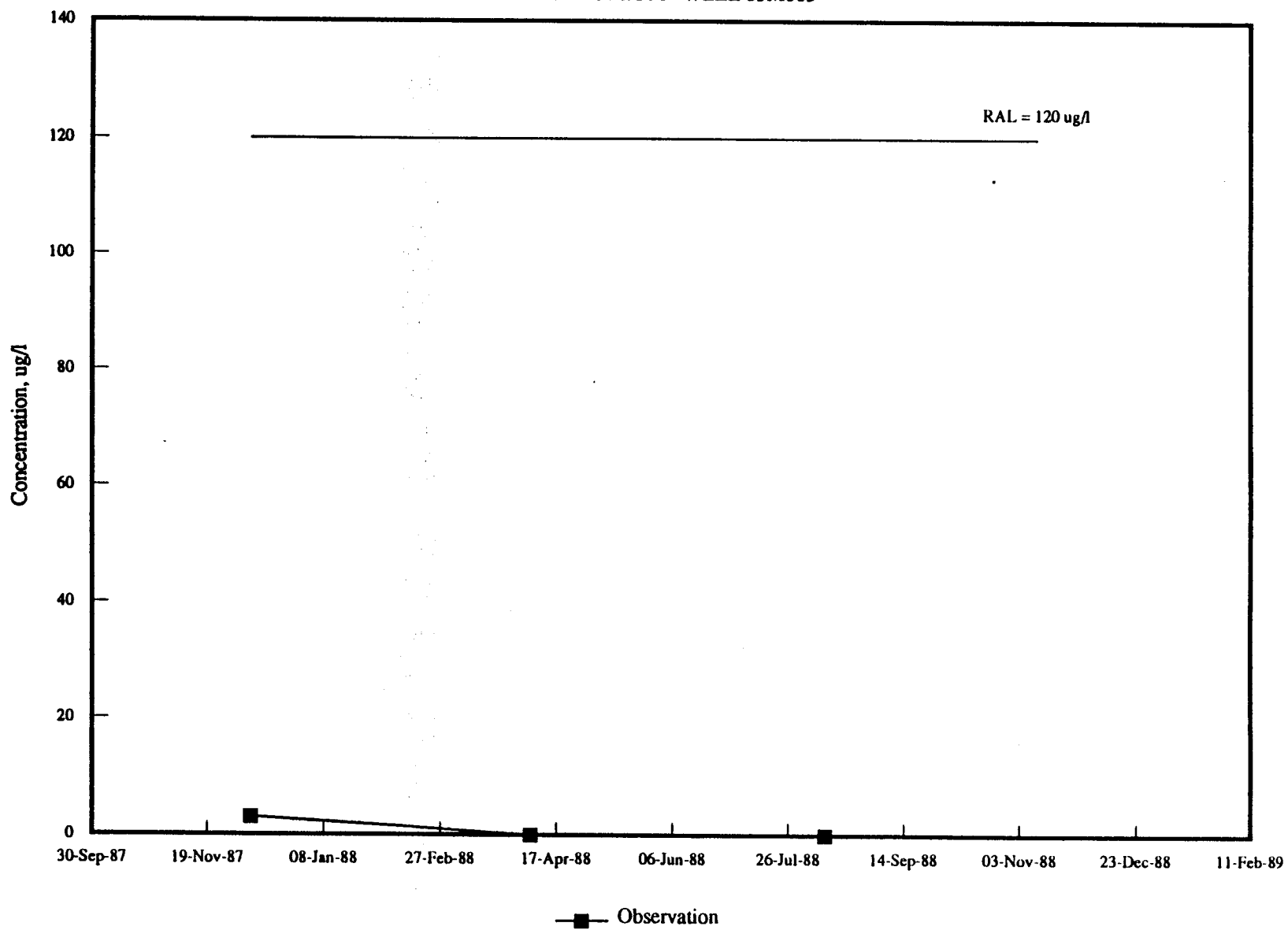
TETRACHLOROETHENE - WELL 03M004



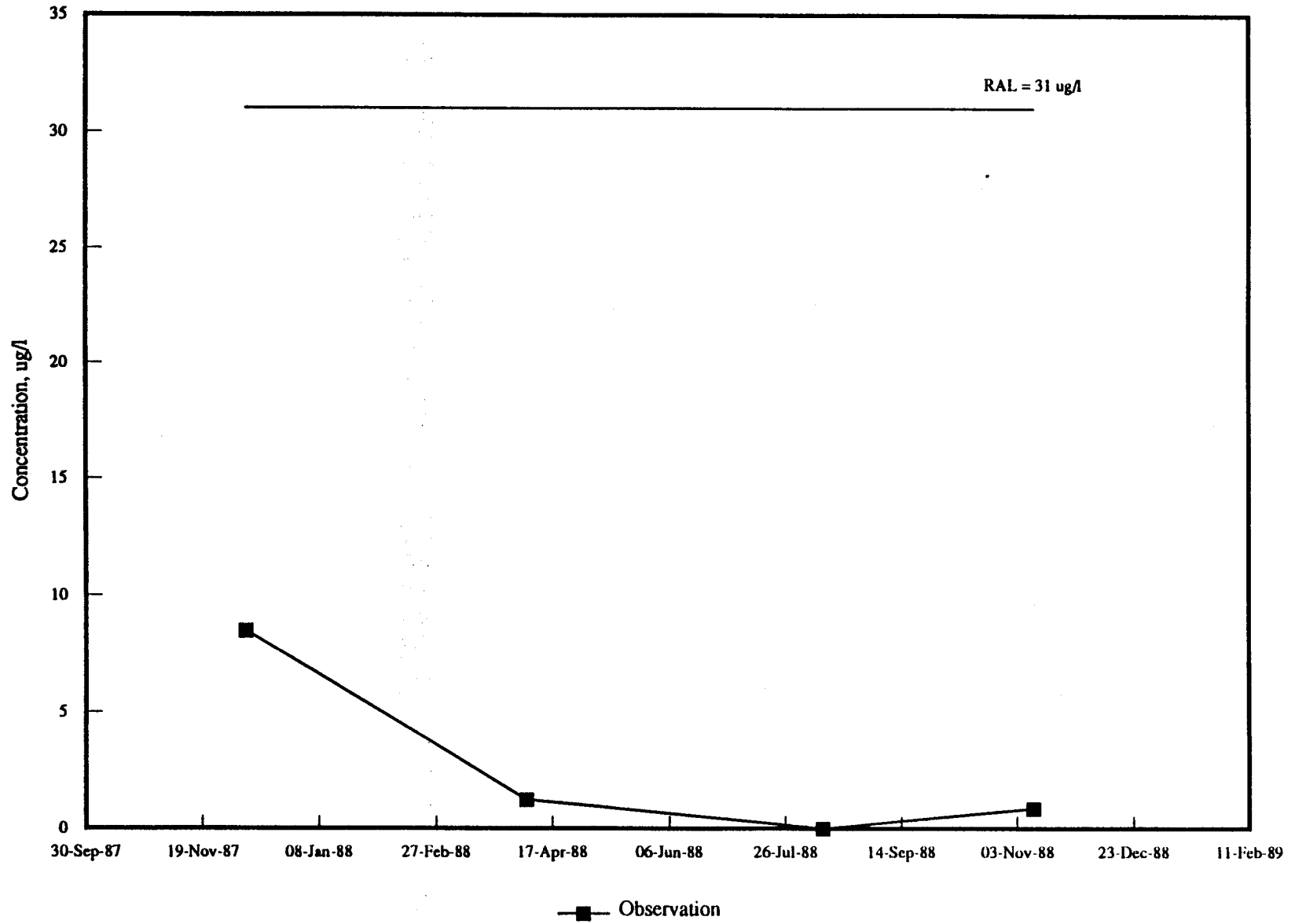
BARIUM - WELL 03M005



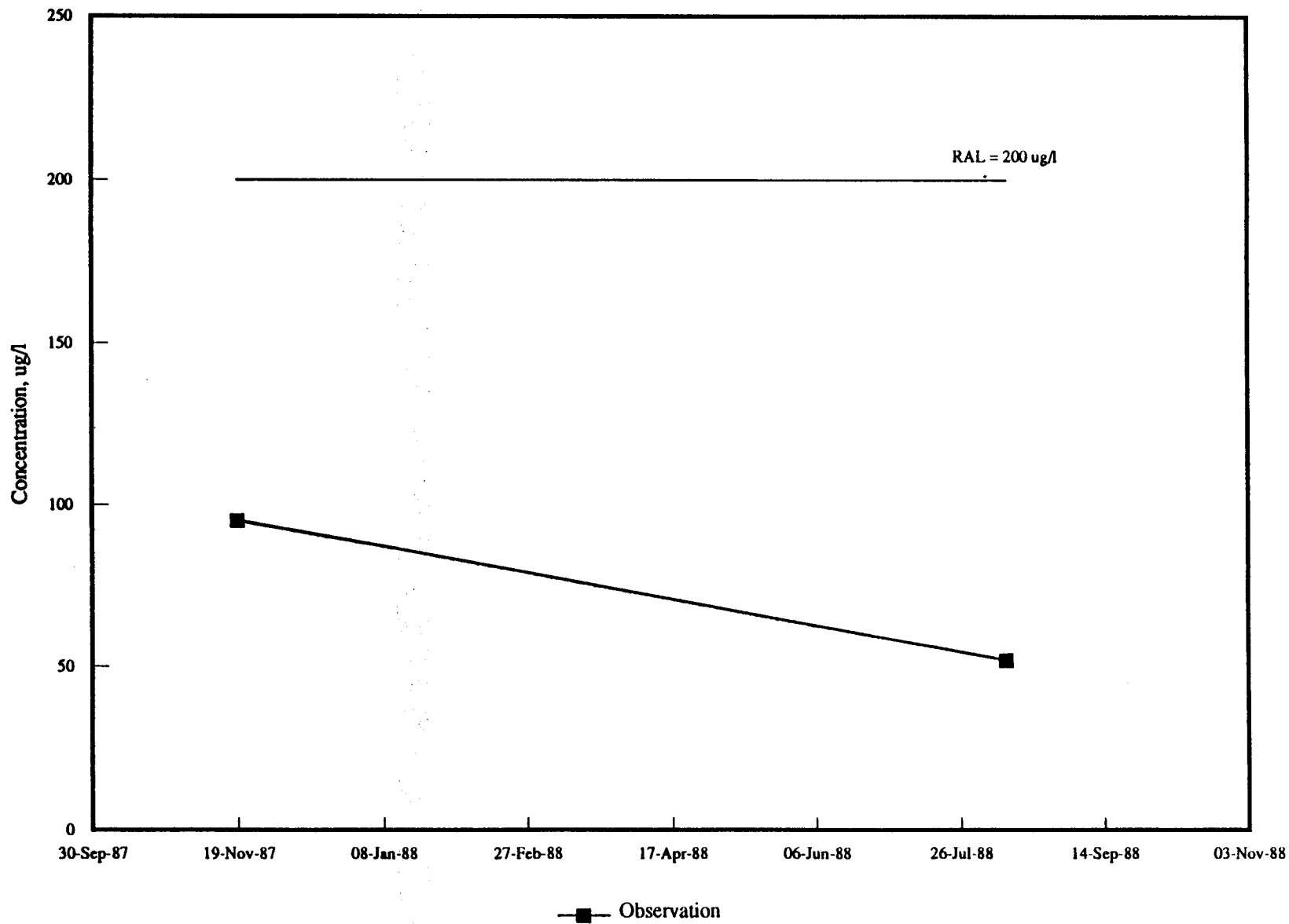
CHROMIUM - WELL 03M005



TRICHLOROETHENE - WELL 03M005

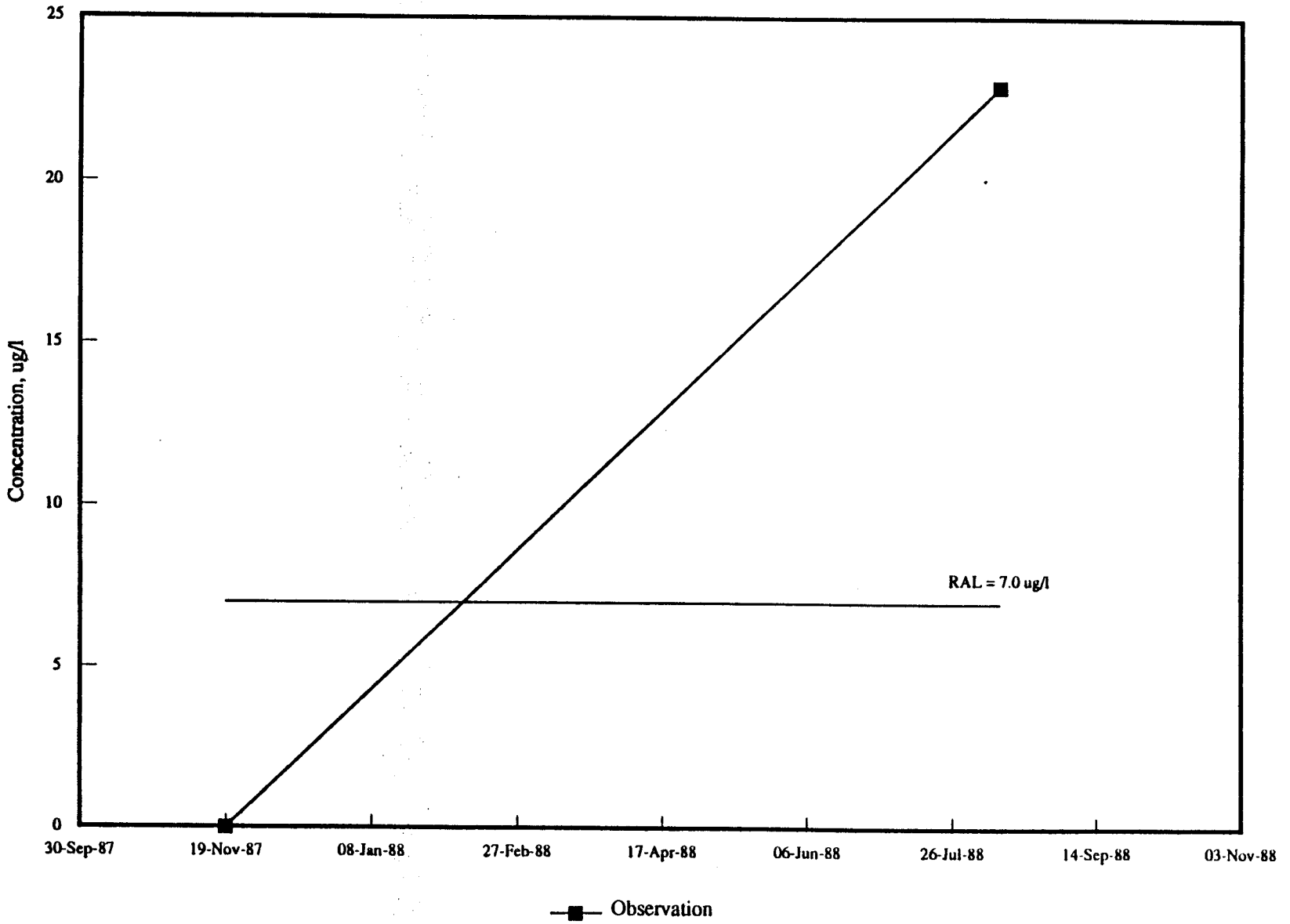


1,1,1-TRICHLOROETHANE - WELL 03U003

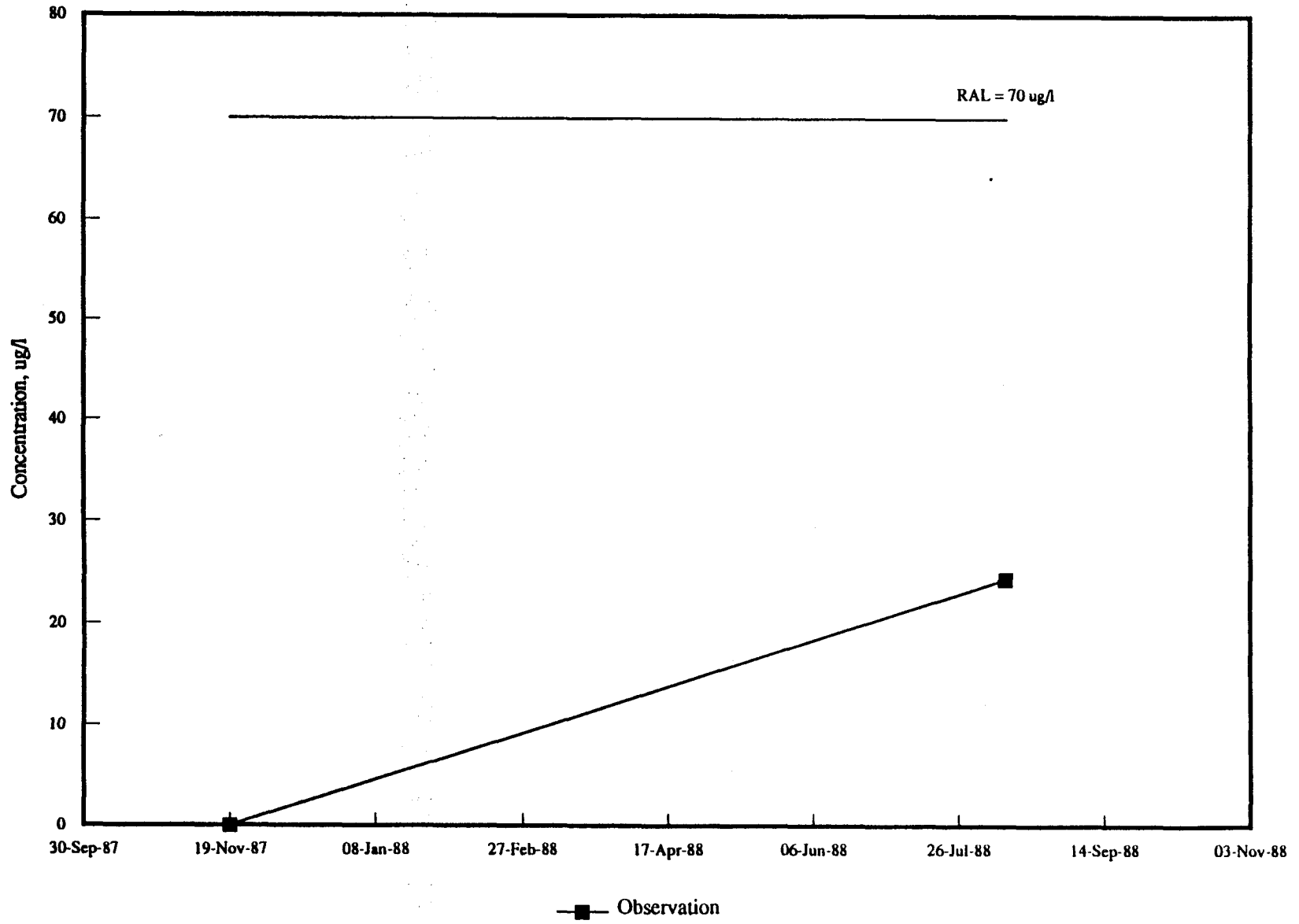




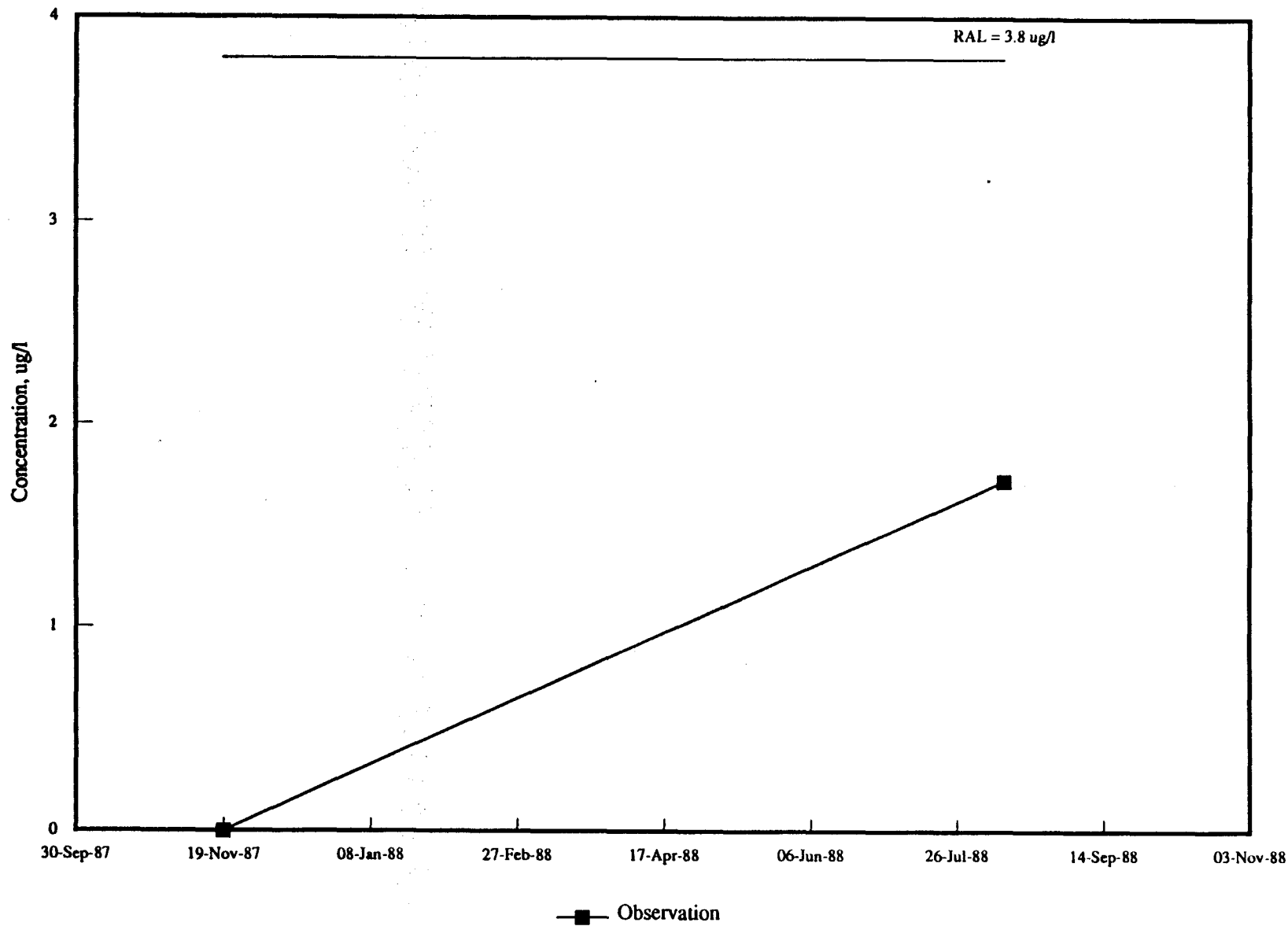
1,1-DICHLOROETHENE - WELL 03U003



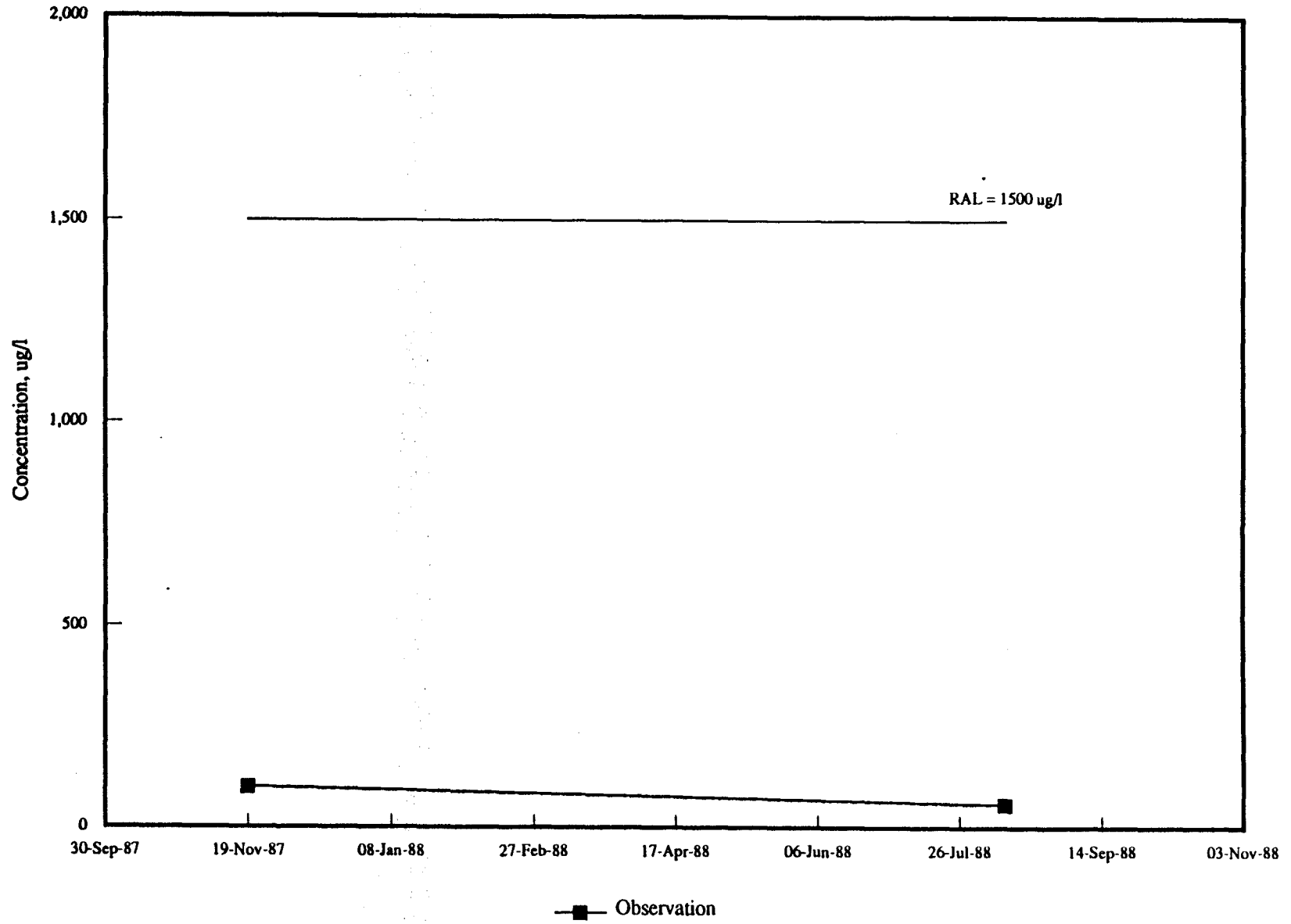
1,2-DICHLOROETHENE - WELL 03U003



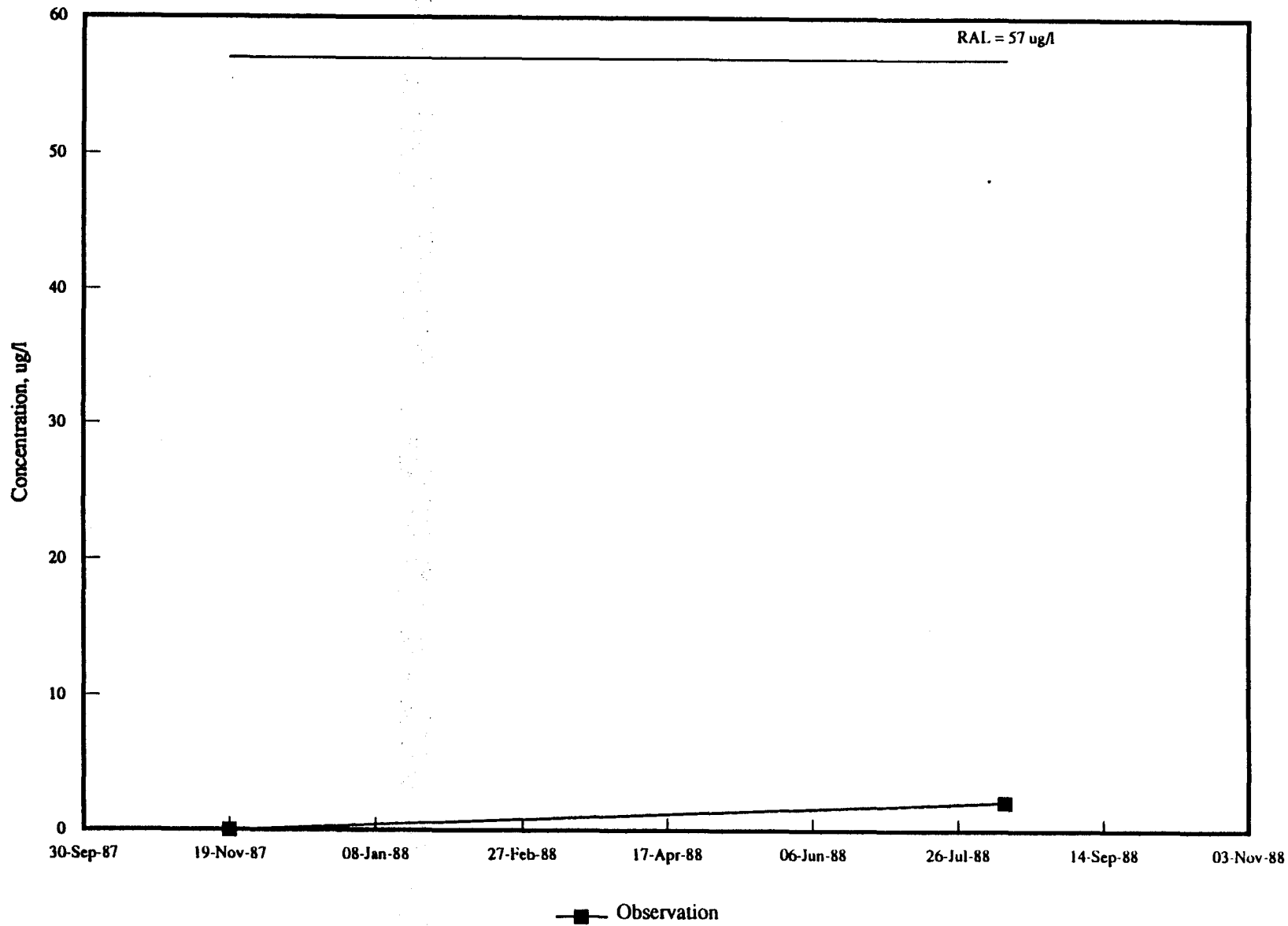
1,2-DICHLOROETHANE - WELL 03U003



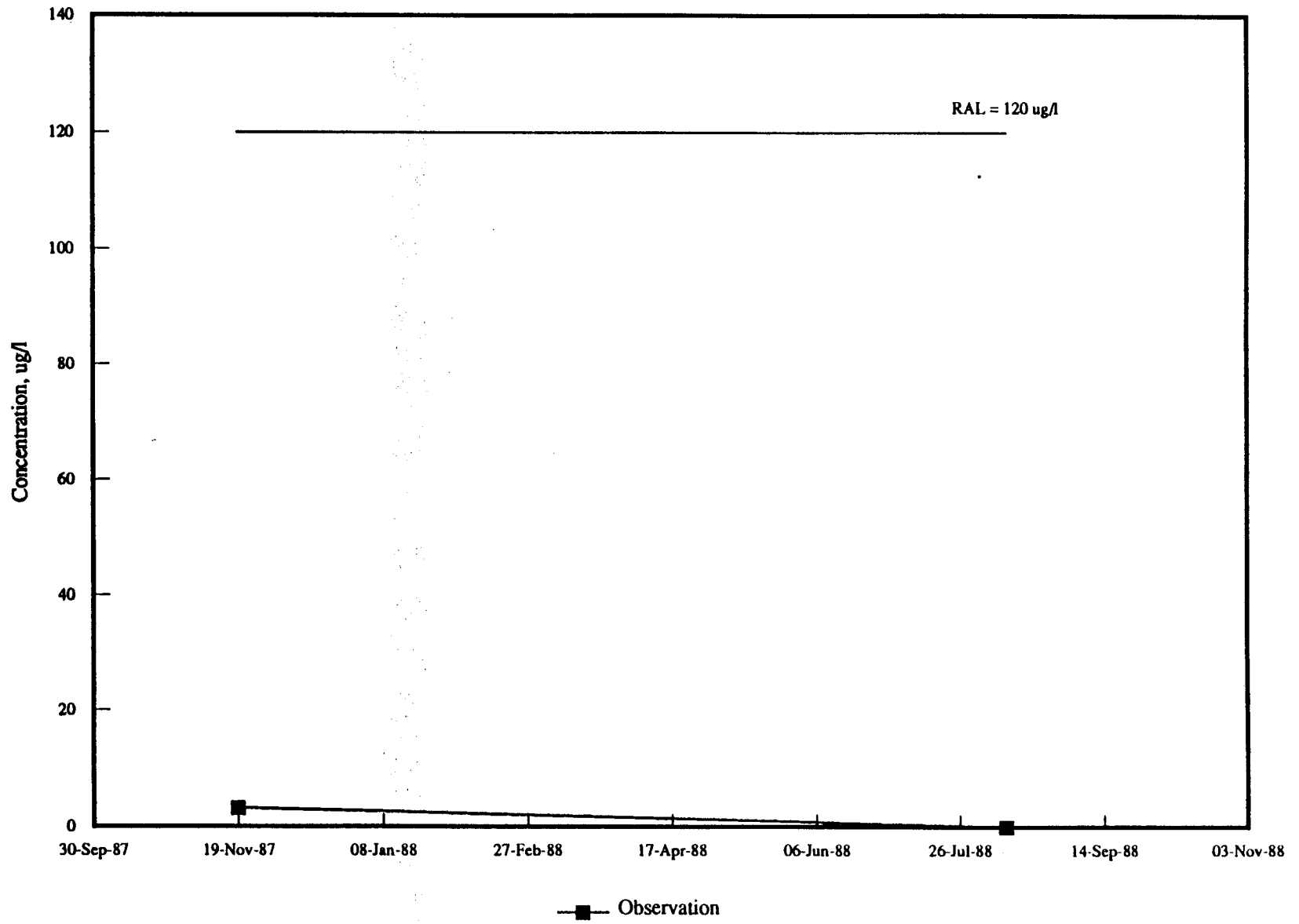
BARIUM - WELL 03U003



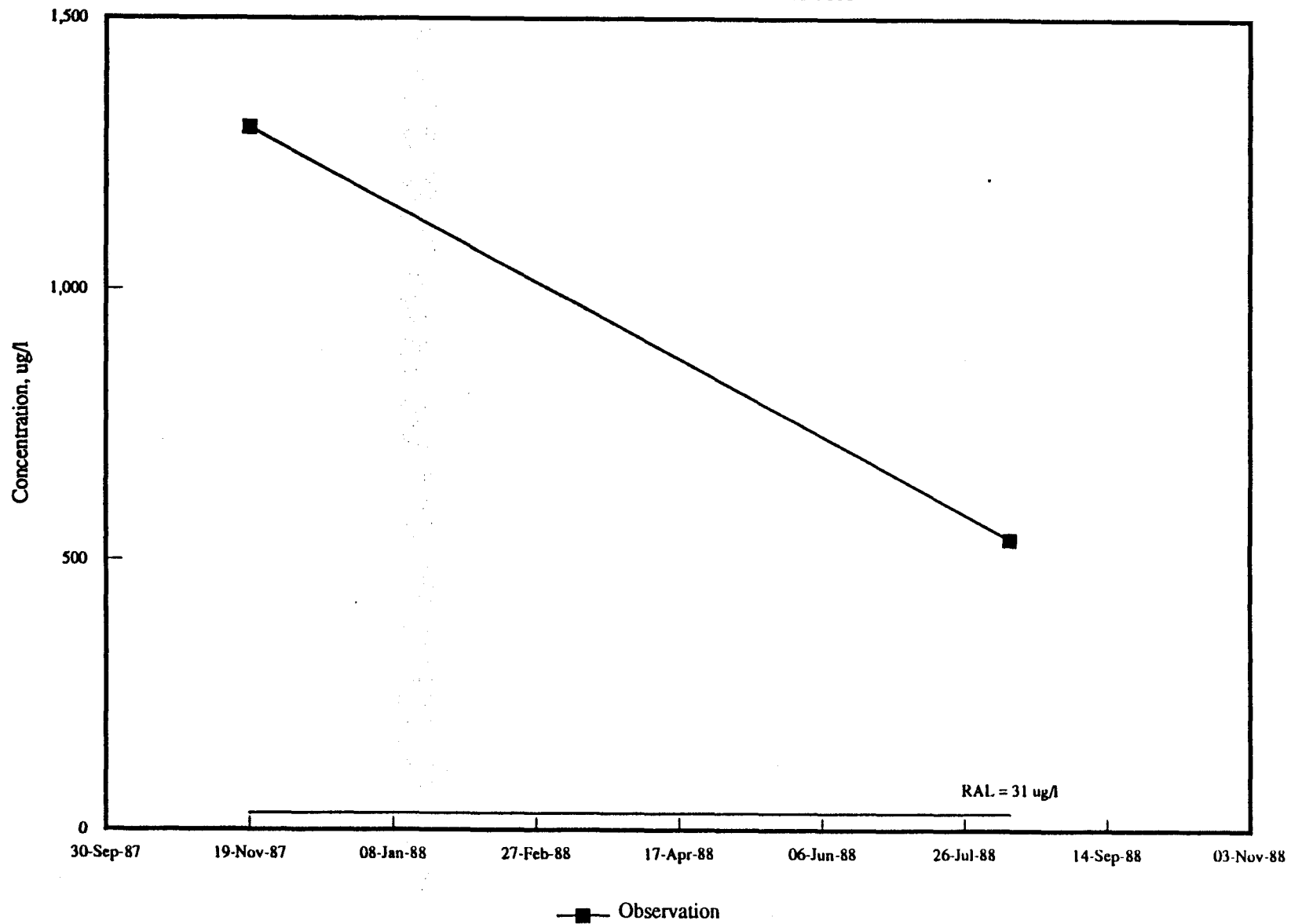
CHLOROFORM - WELL 03U003



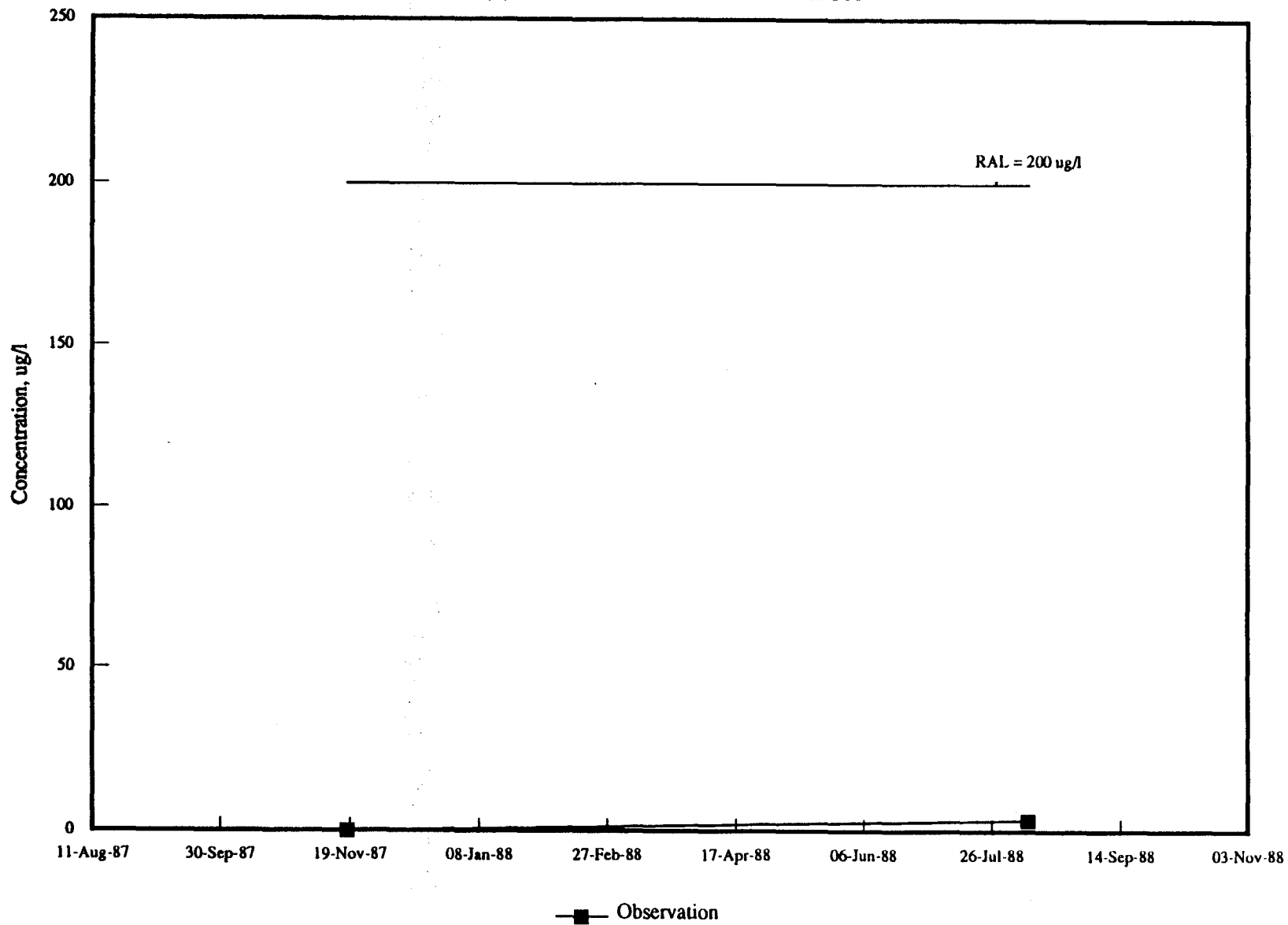
CHROMIUM - WELL 03U003



TRICHLOROETHENE - WELL 03U003

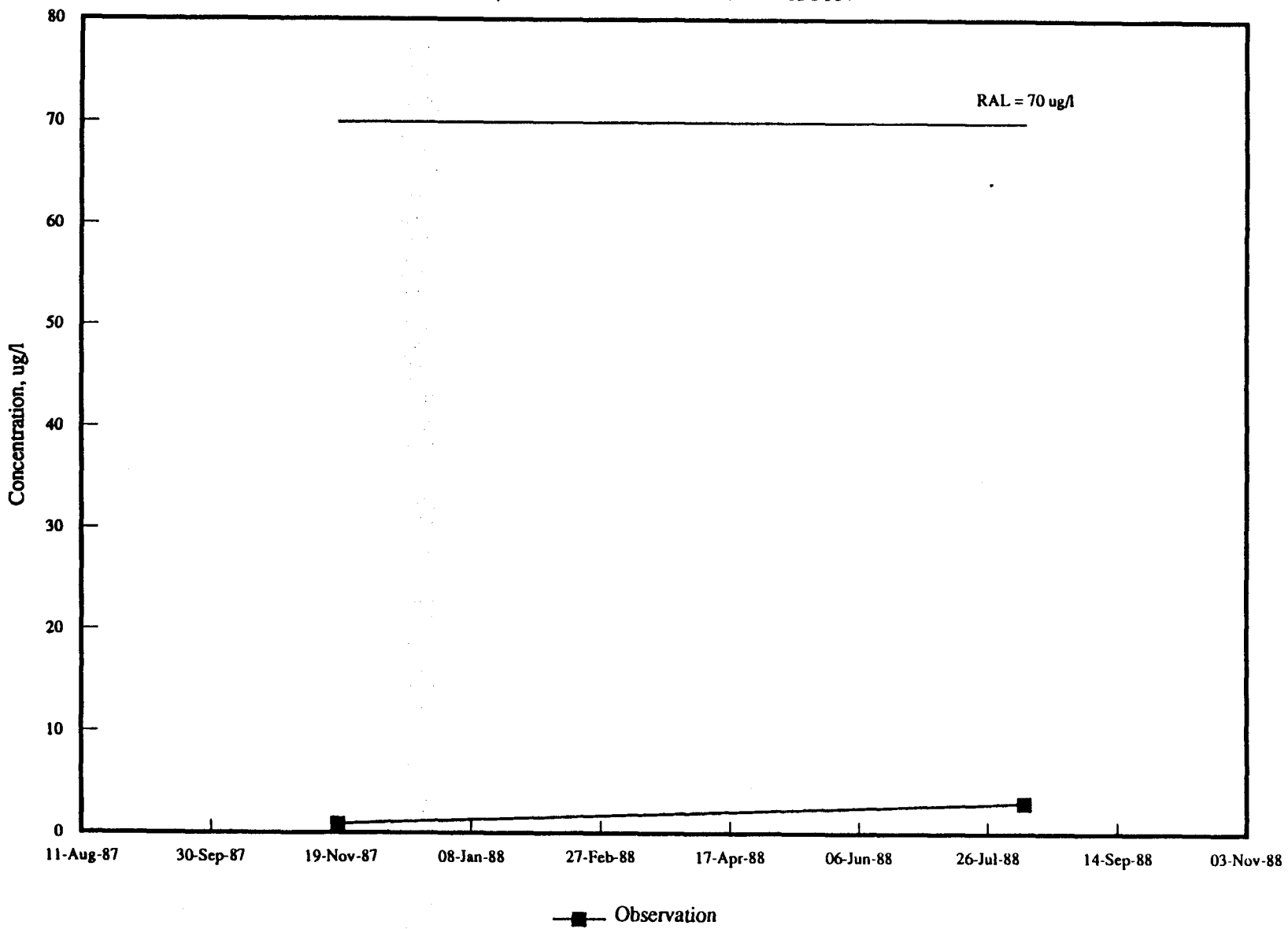


1,1,1-TRICHLOROETHANE - WELL 03U004

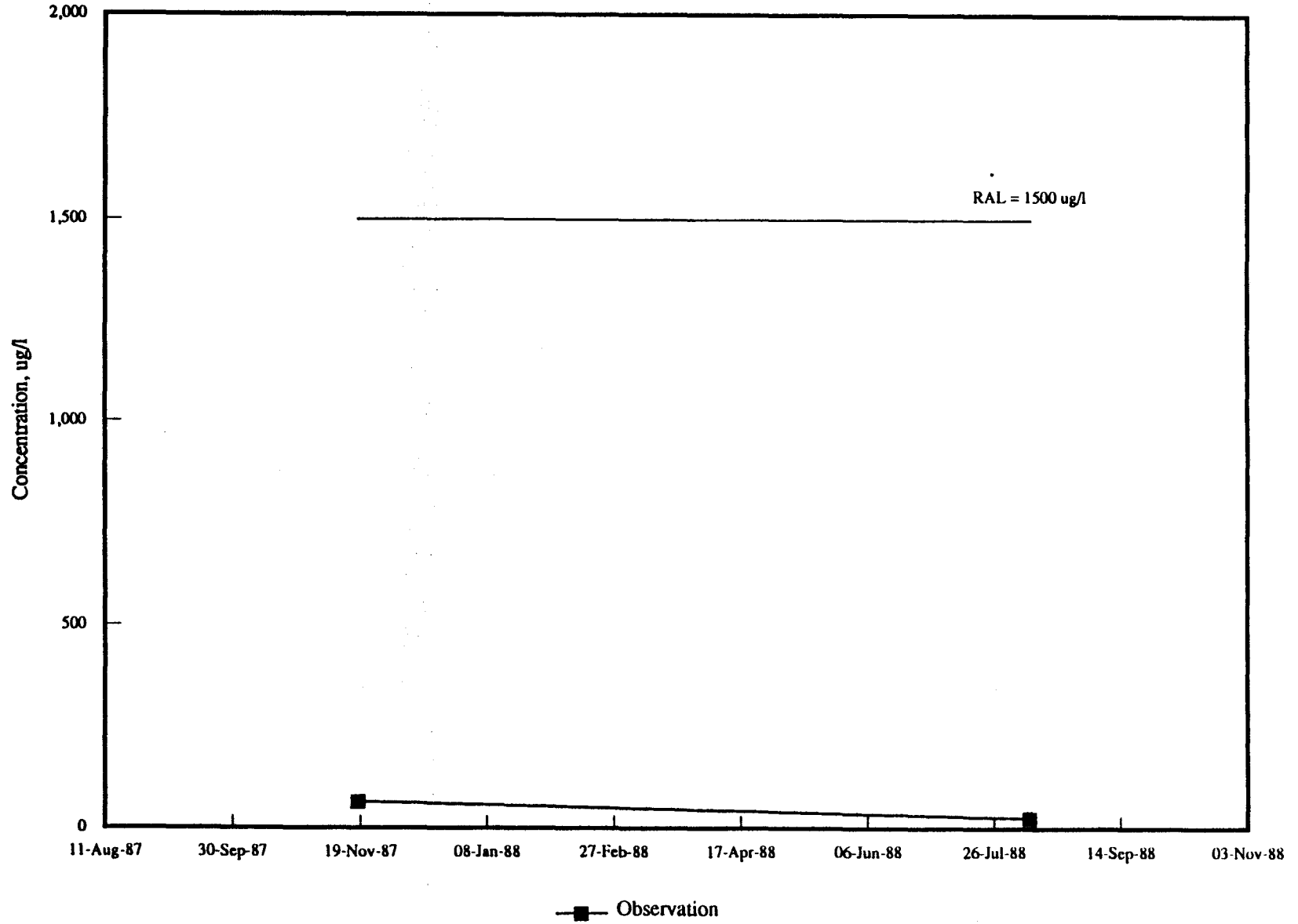




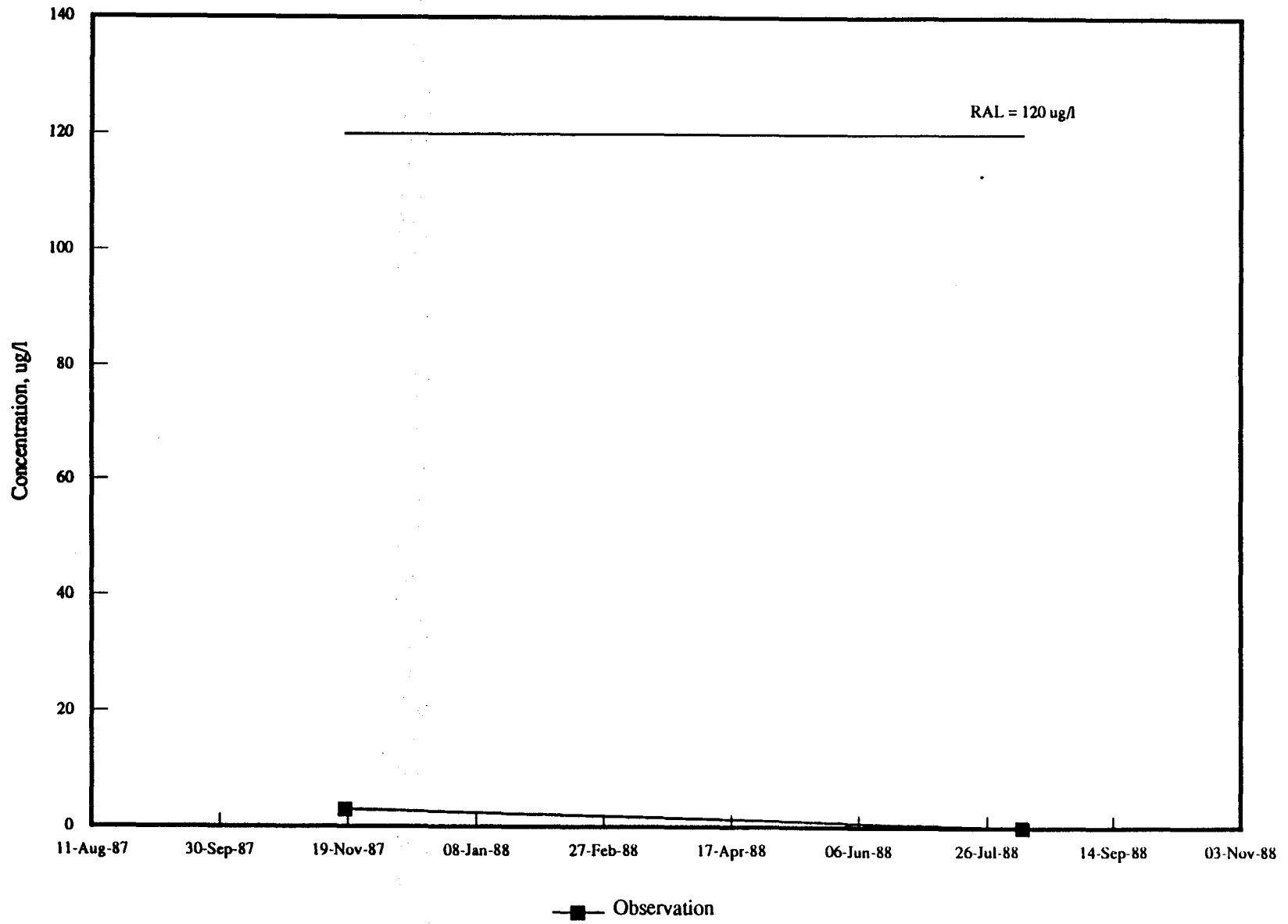
1,2-DICHLOROETHENE - WELL 03U004



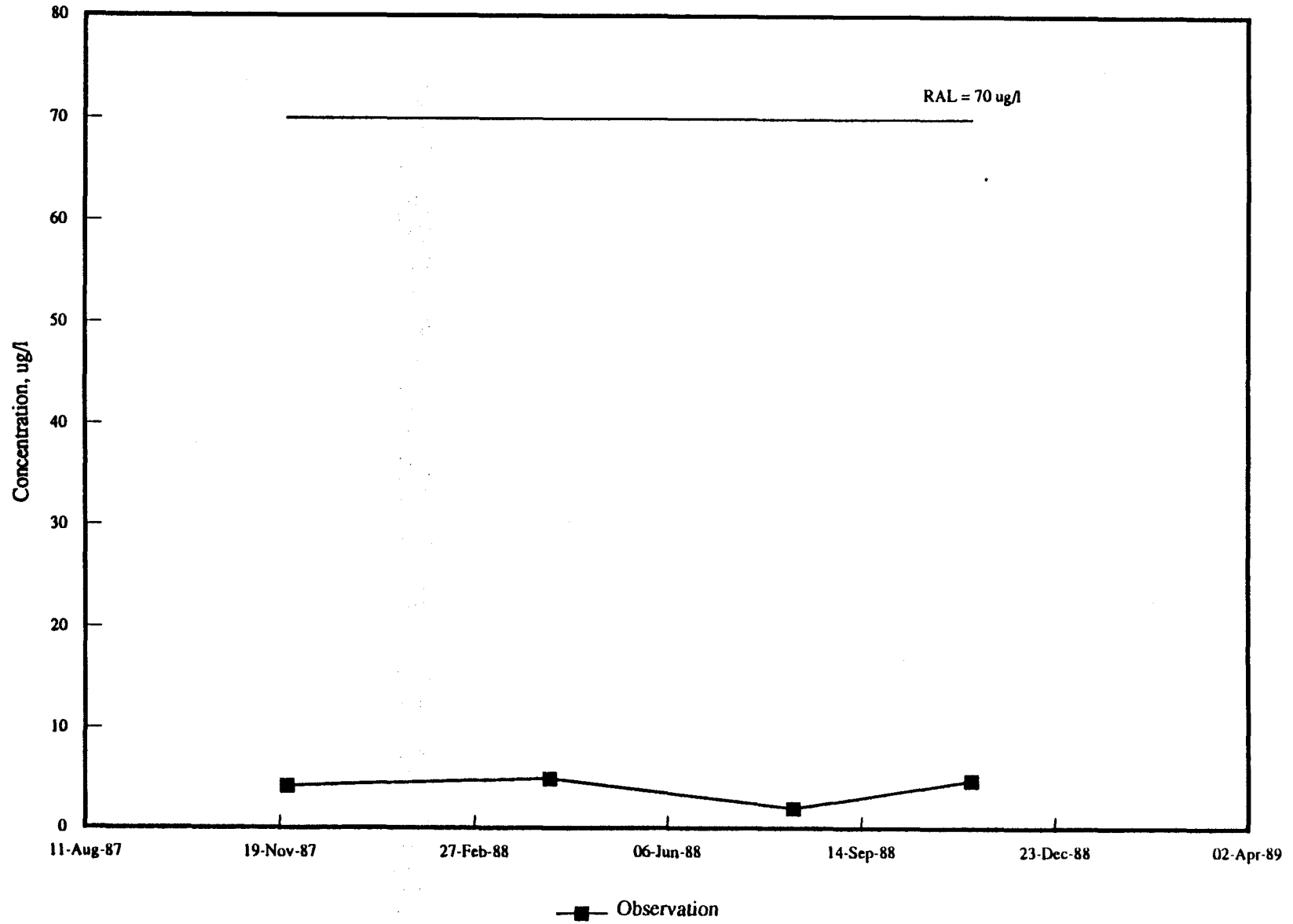
BARIUM - WELL 03U004



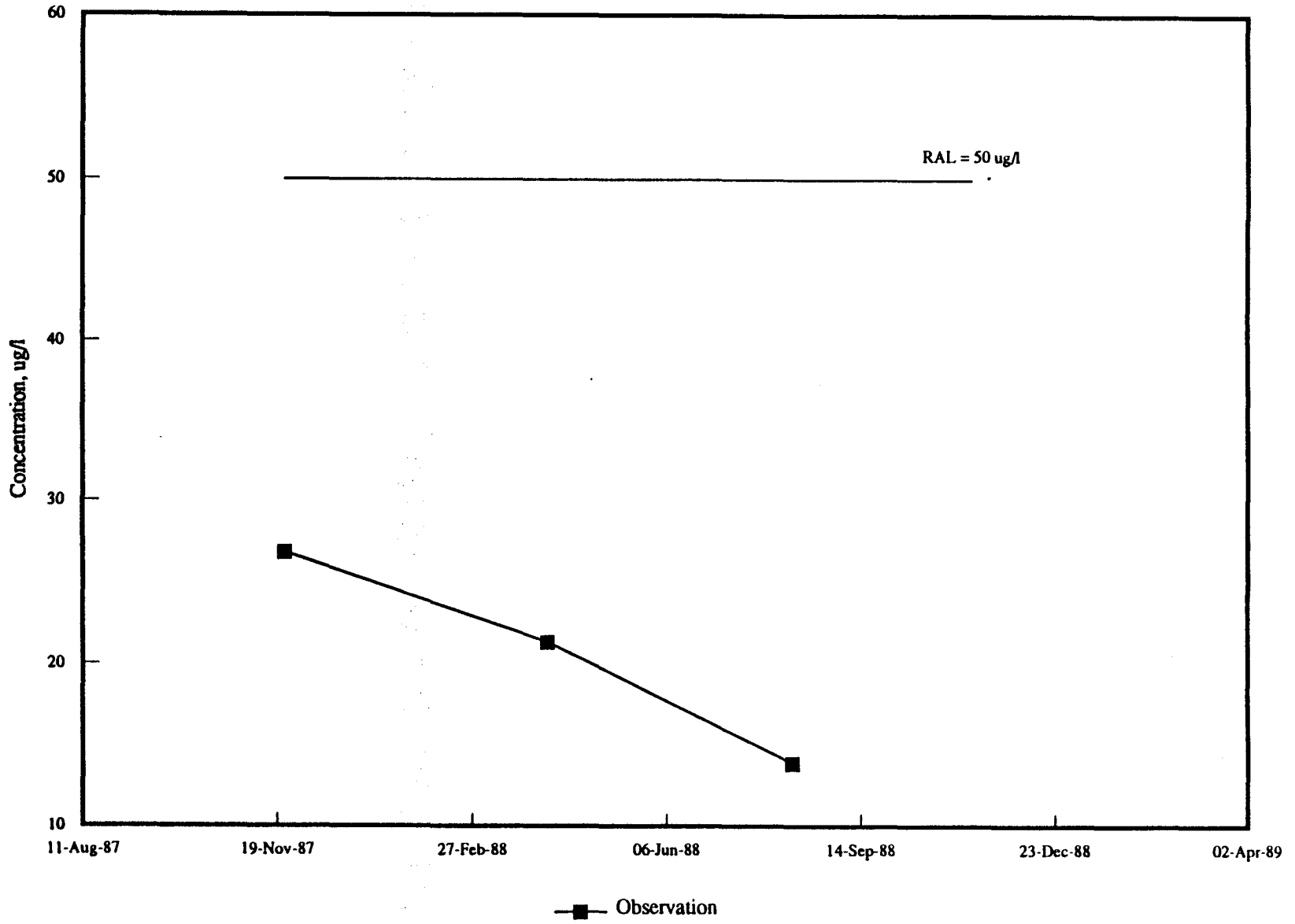
CHROMIUM - WELL 03U004



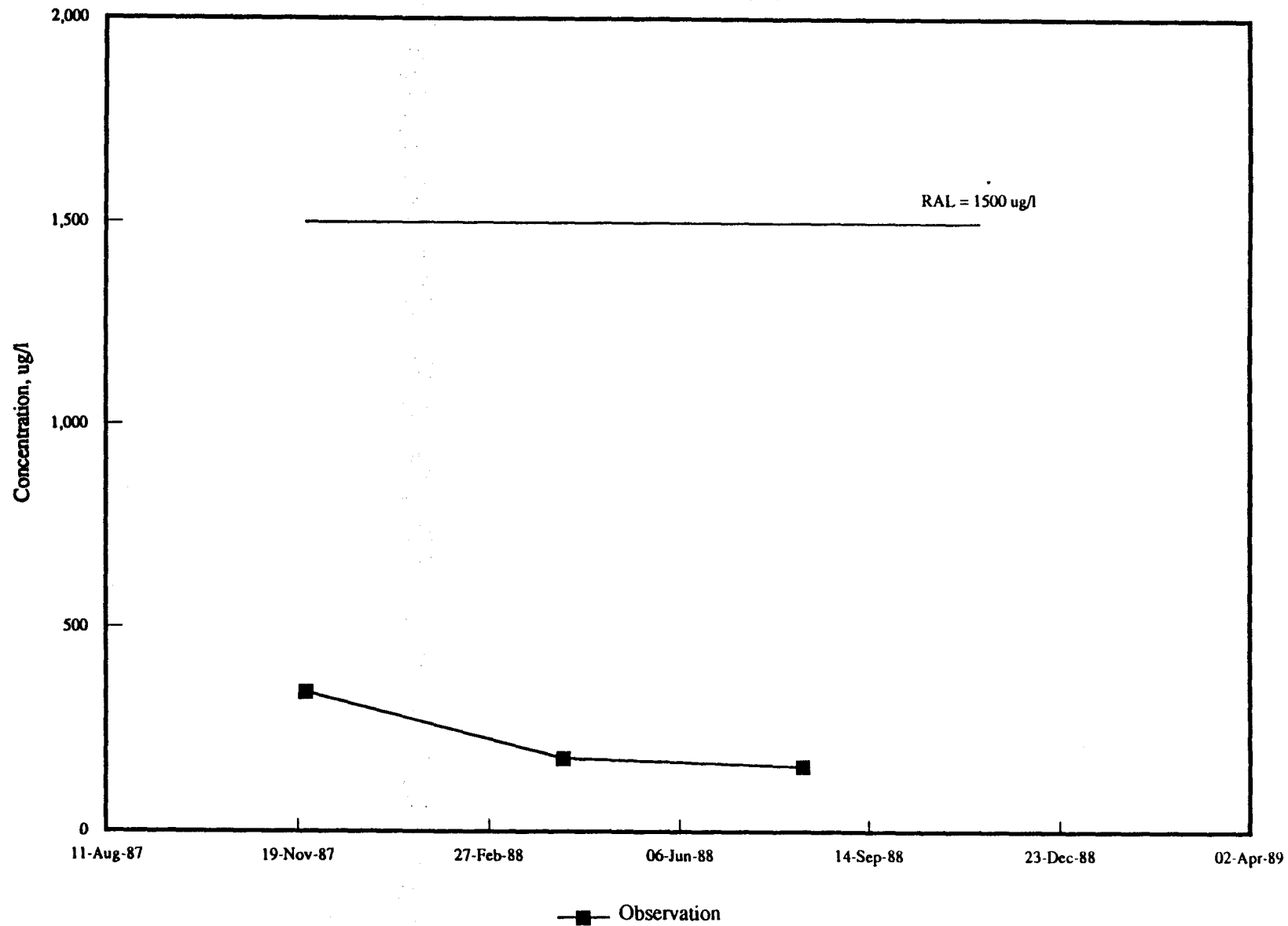
1,2-DICHLOROETHENE - WELL 03U005



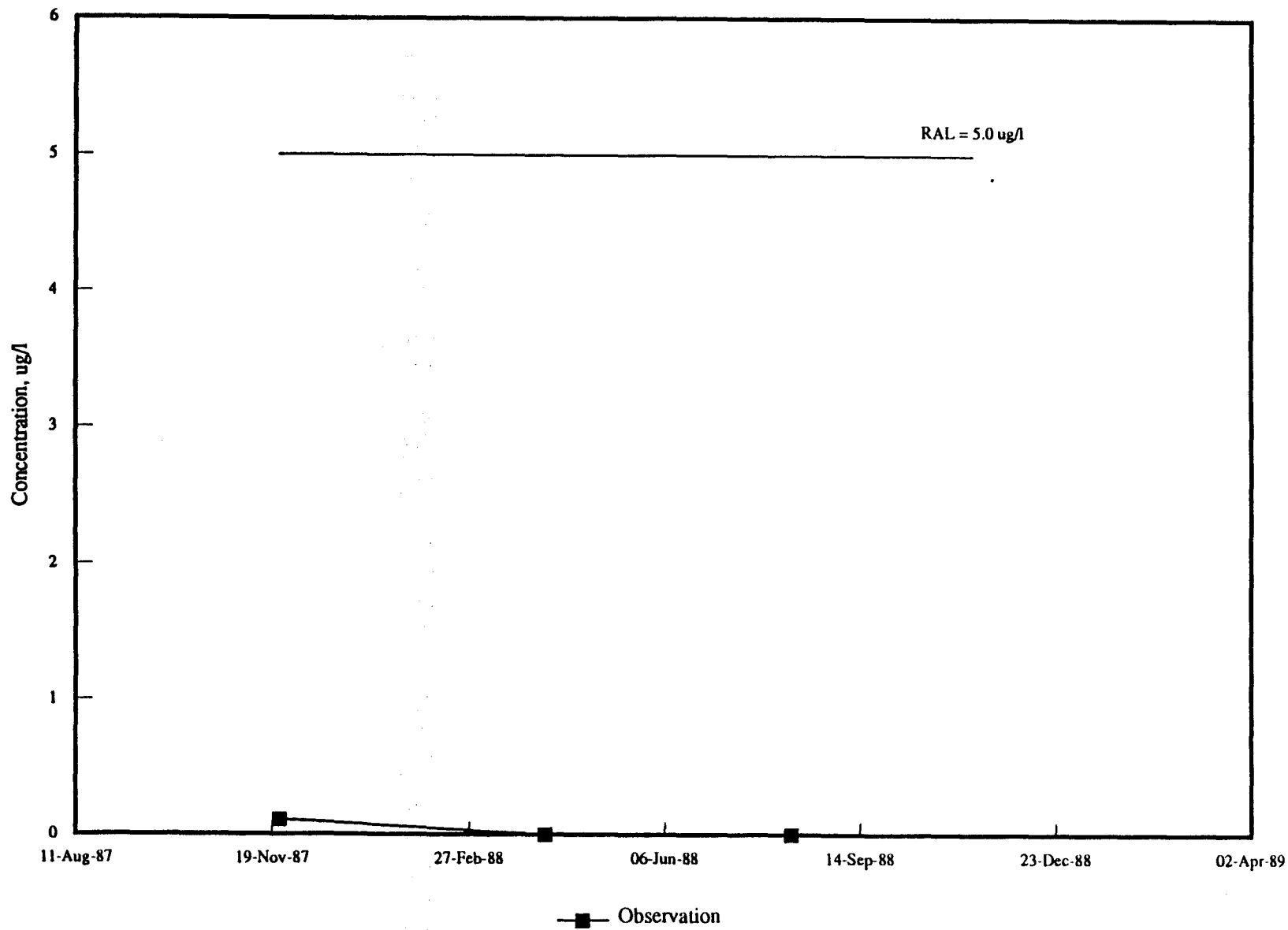
ARSENIC - WELL 03U005



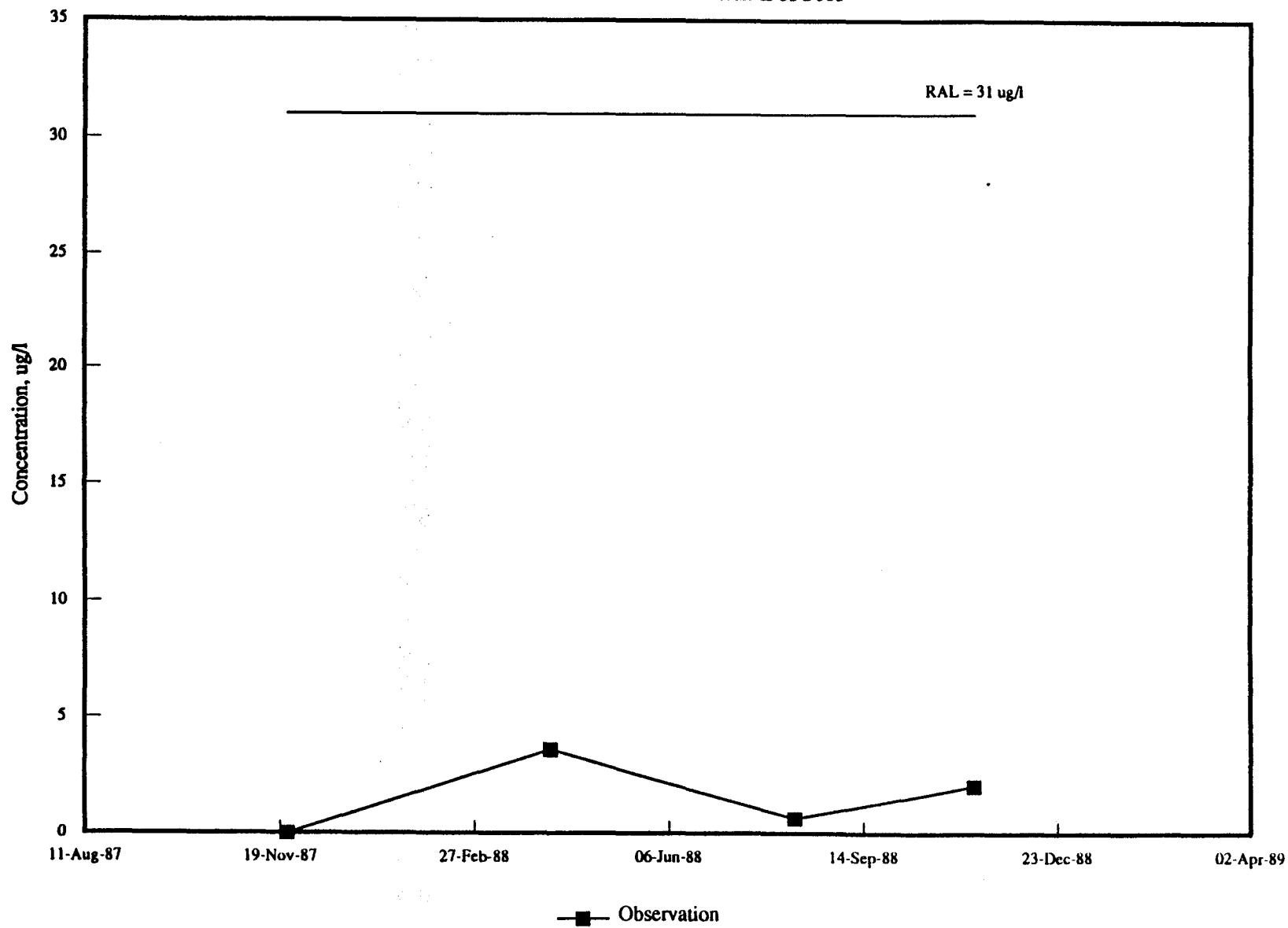
BARIUM - WELL 03U005



CADMIUM - WELL 03U005

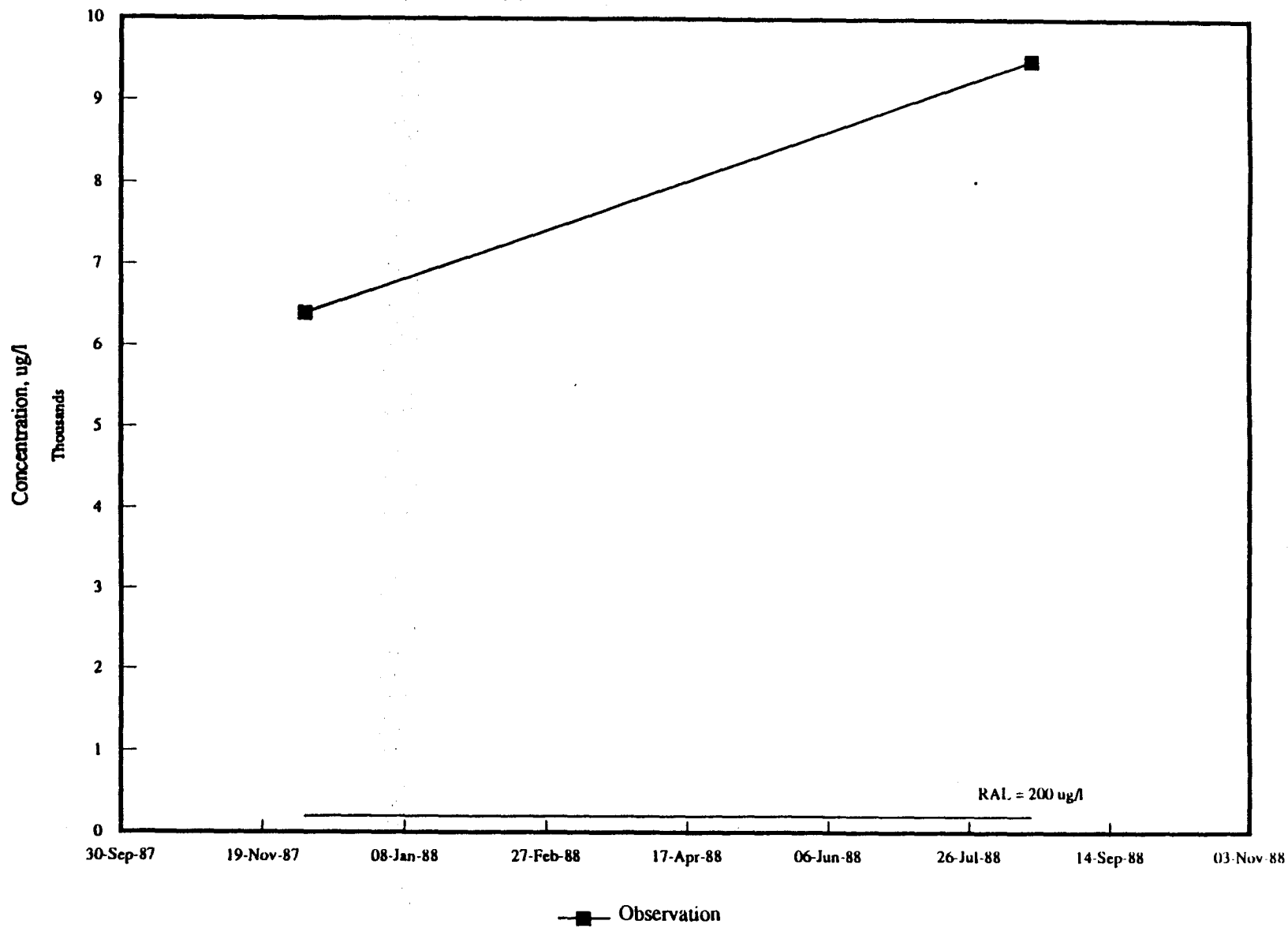


TRICHLOROETHENE - WELL 03U005

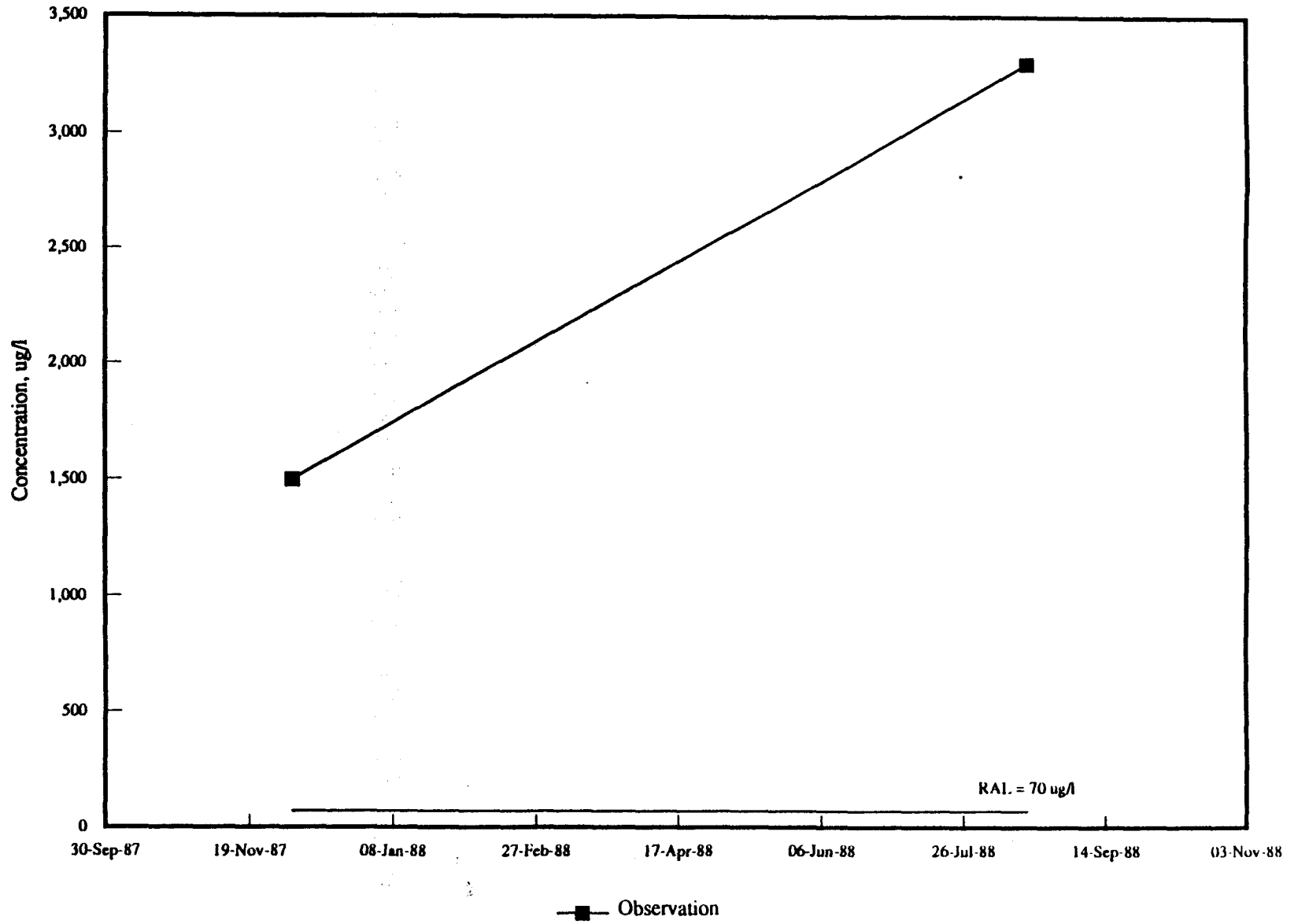




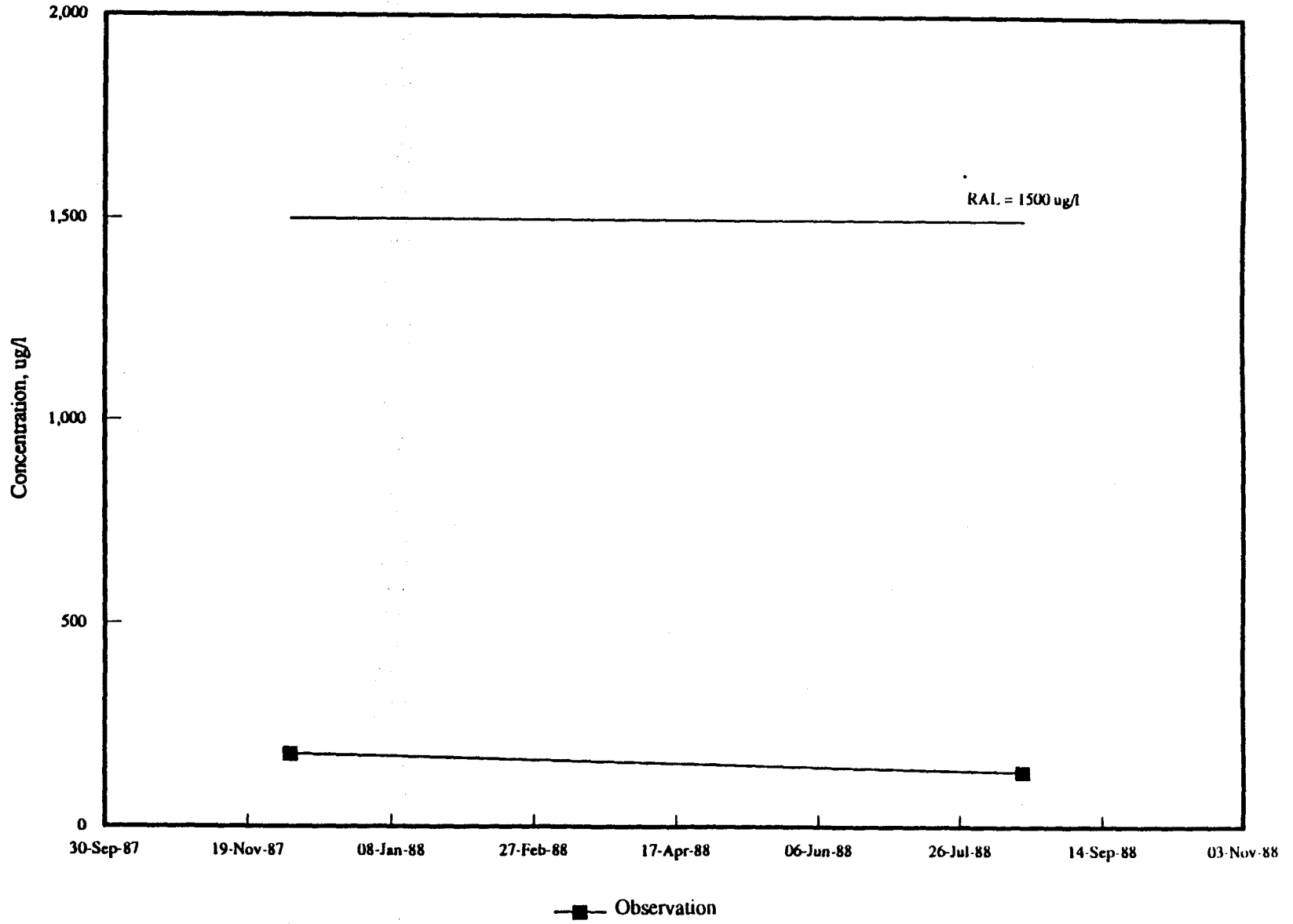
1,1,1-TRICHLOROETHANE - WELL 03U014



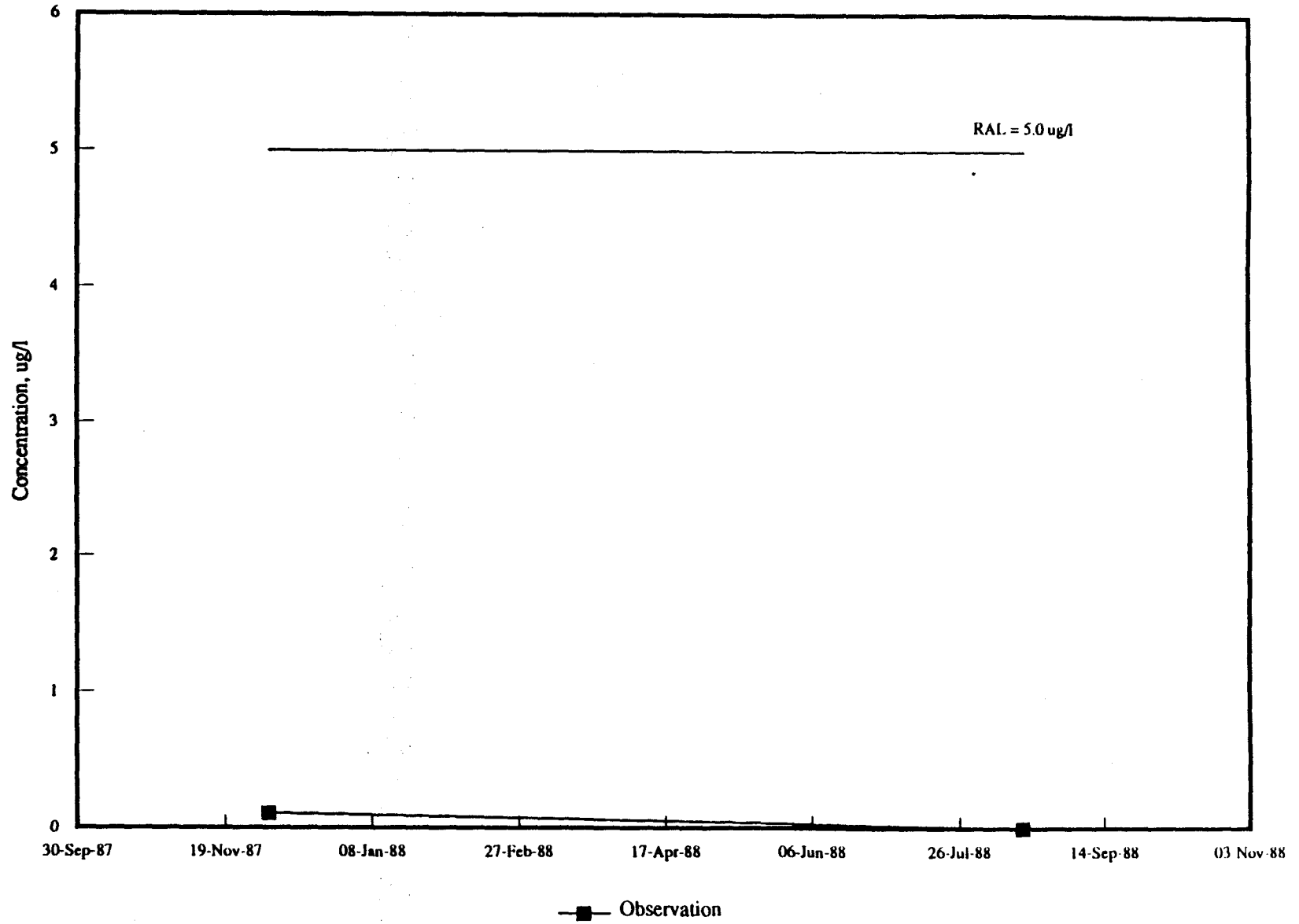
1,2-DICHLOROETHENE - WELL 03U014



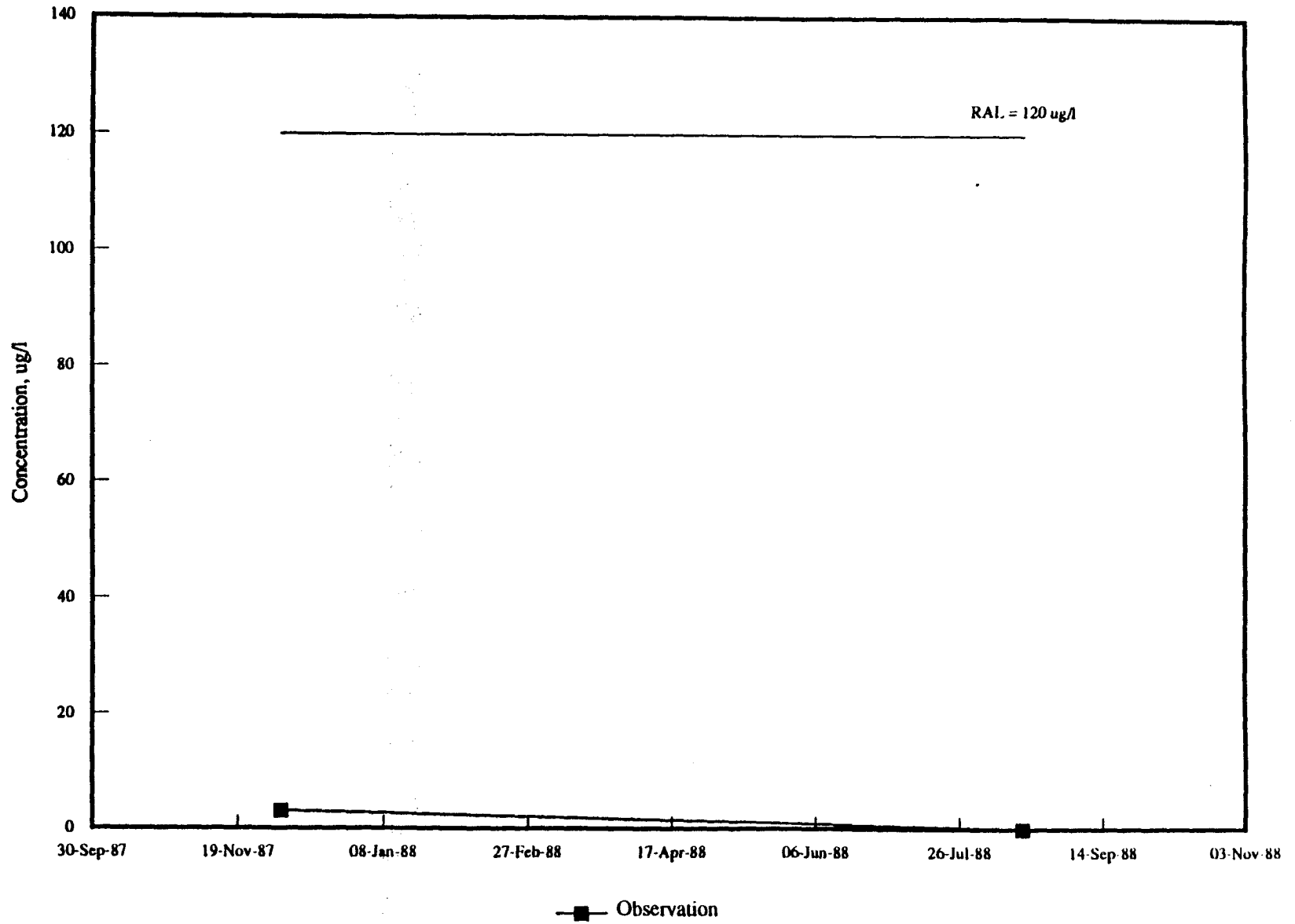
BARIUM - WELL 03U014



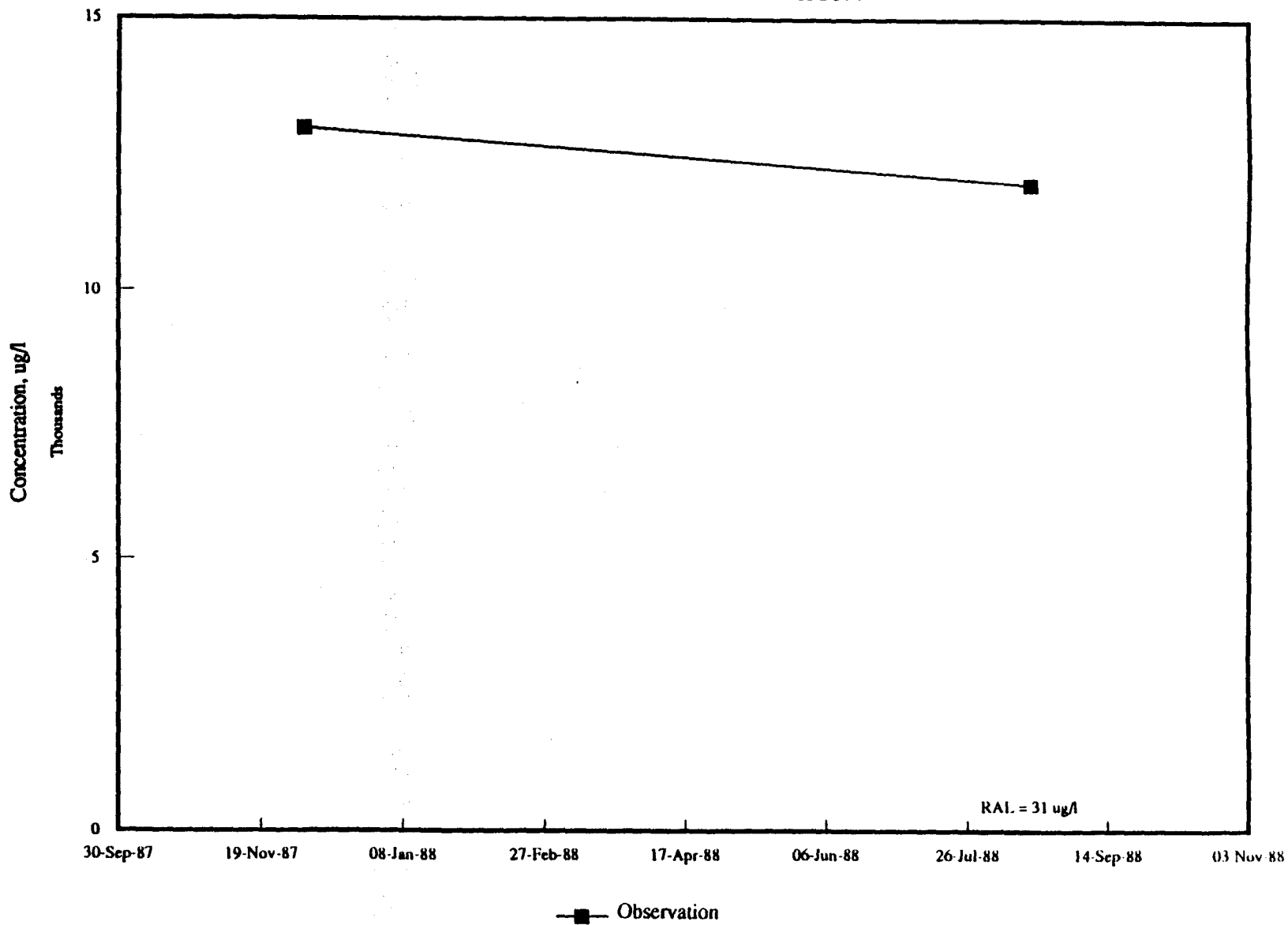
CADMIUM - WELL 03U014



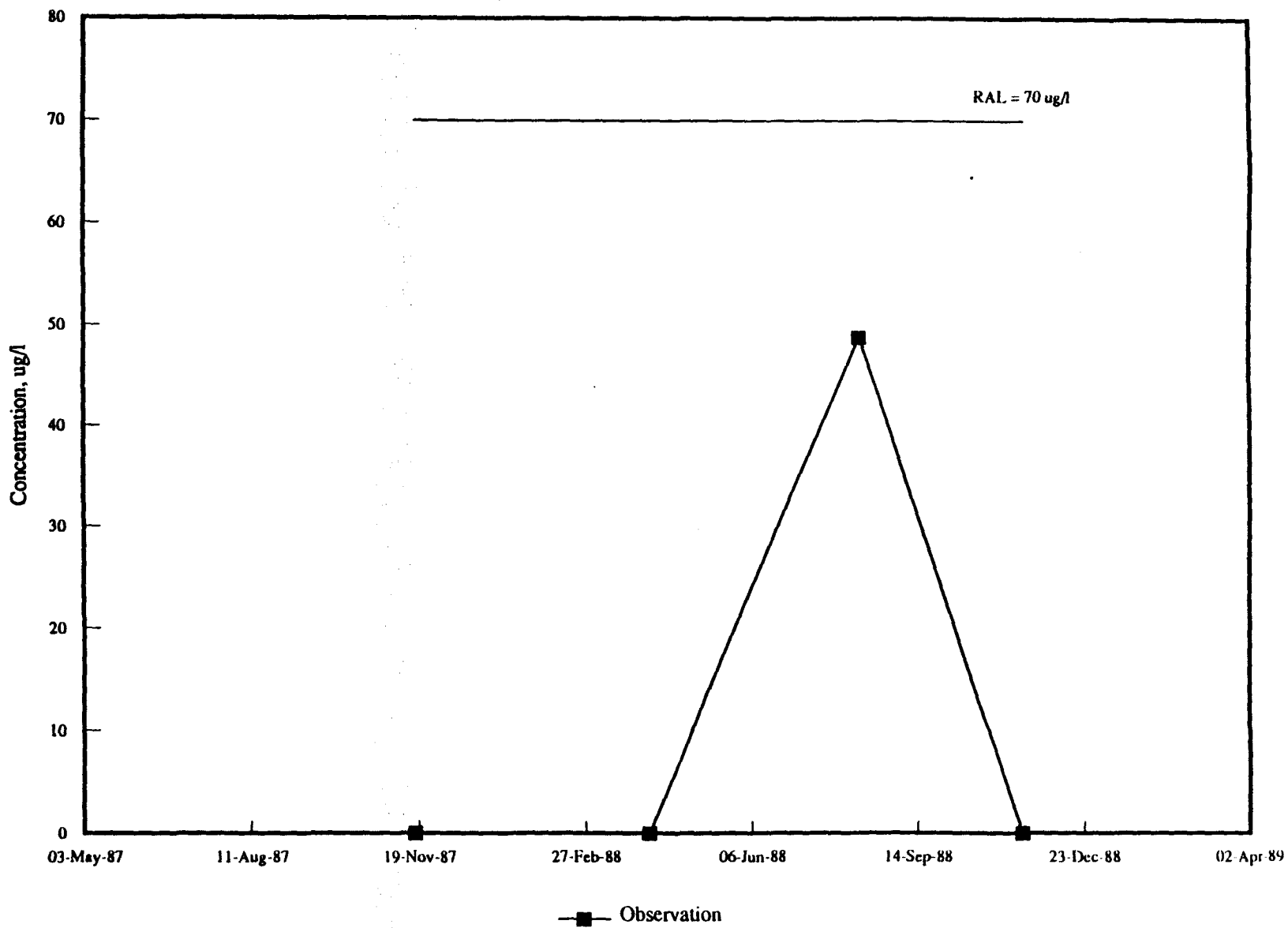
CHROMIUM - WELL 03U014



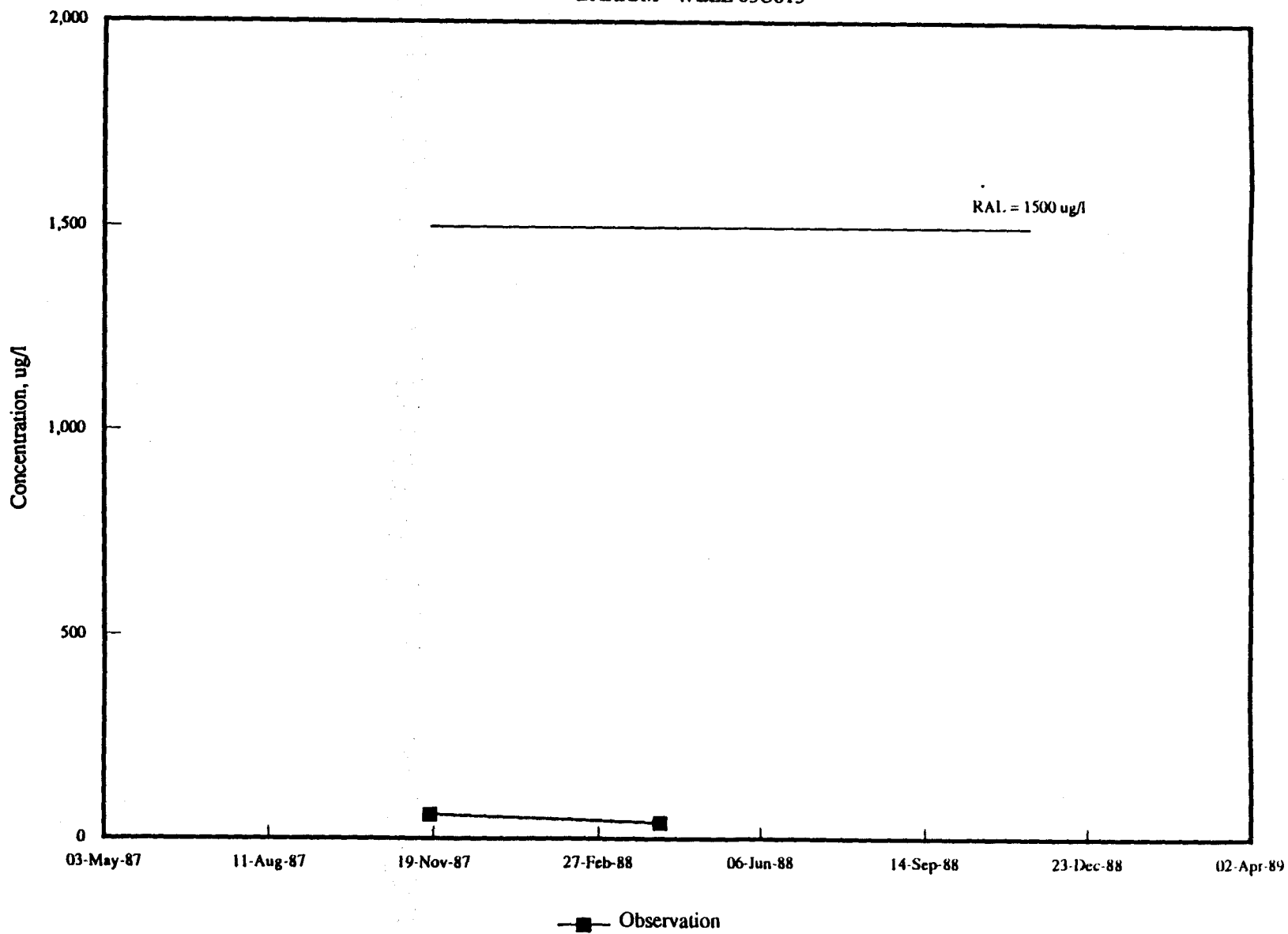
TRICHLOROETHENE - WELL 03U014



1,2-DICHLOROETHENE - WELL 03U015

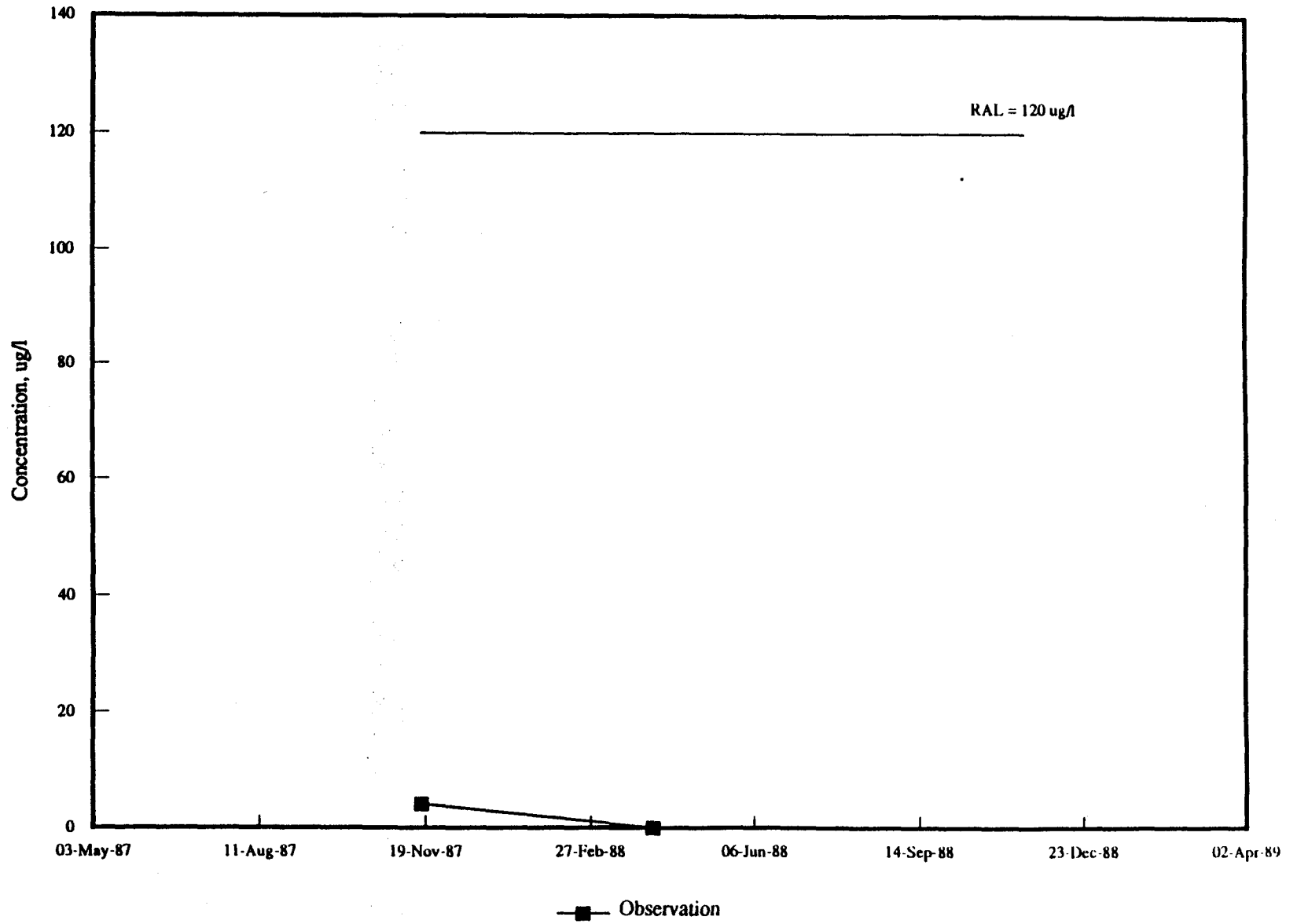


BARIUM - WELL 03U015

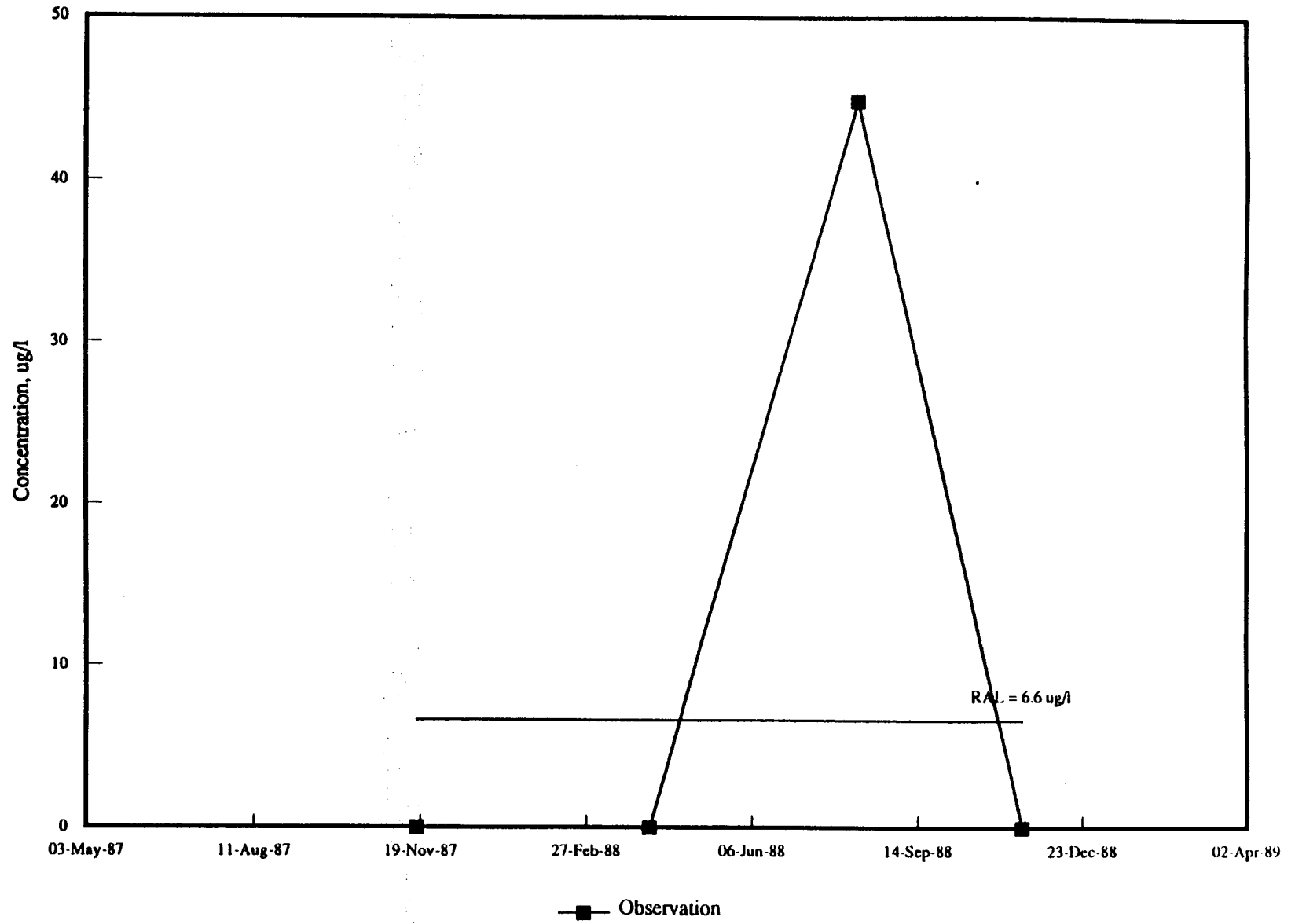




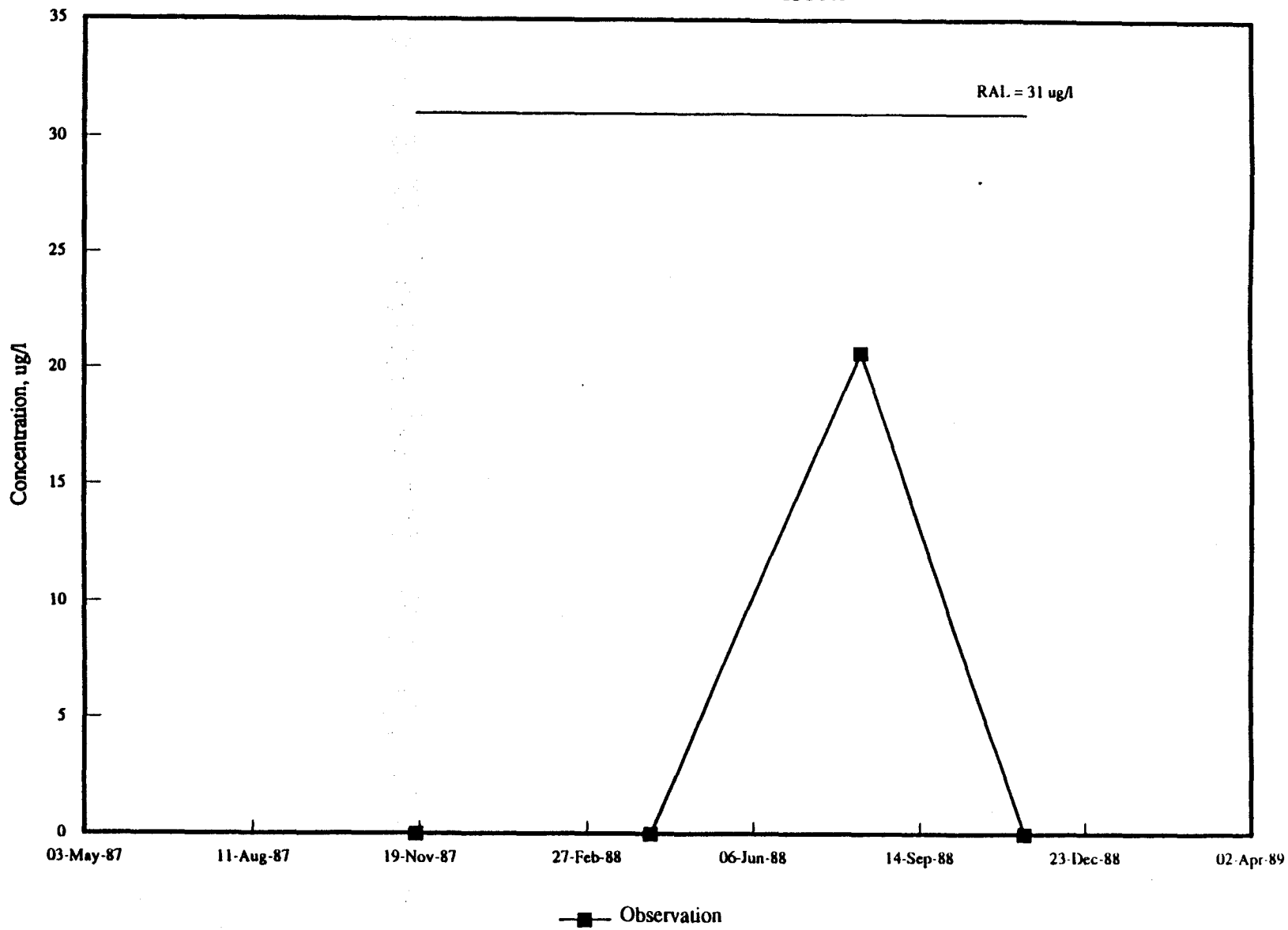
CHROMIUM - WELL 03U015



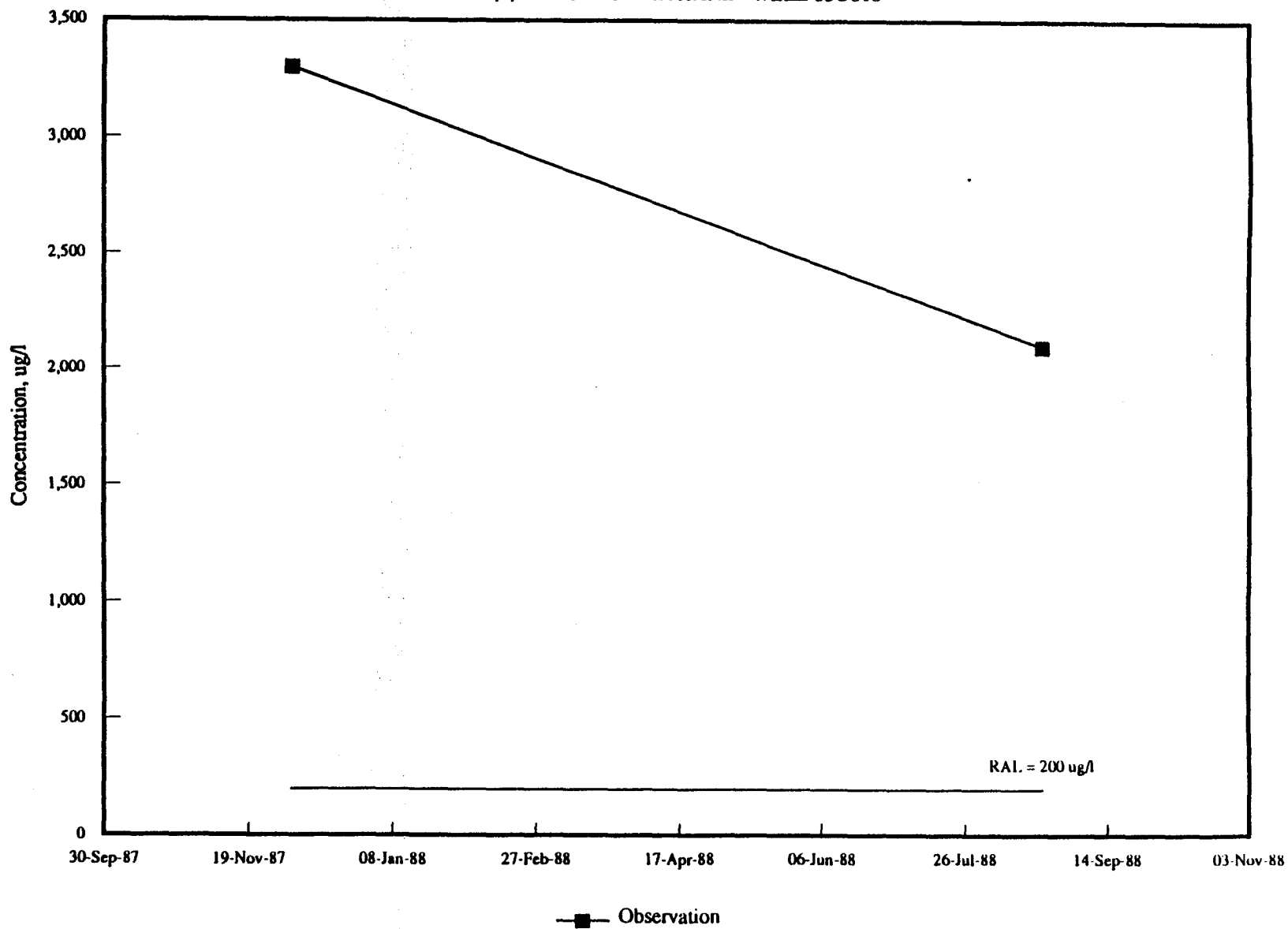
TETRACHLOROETHENE - WELL 03U015



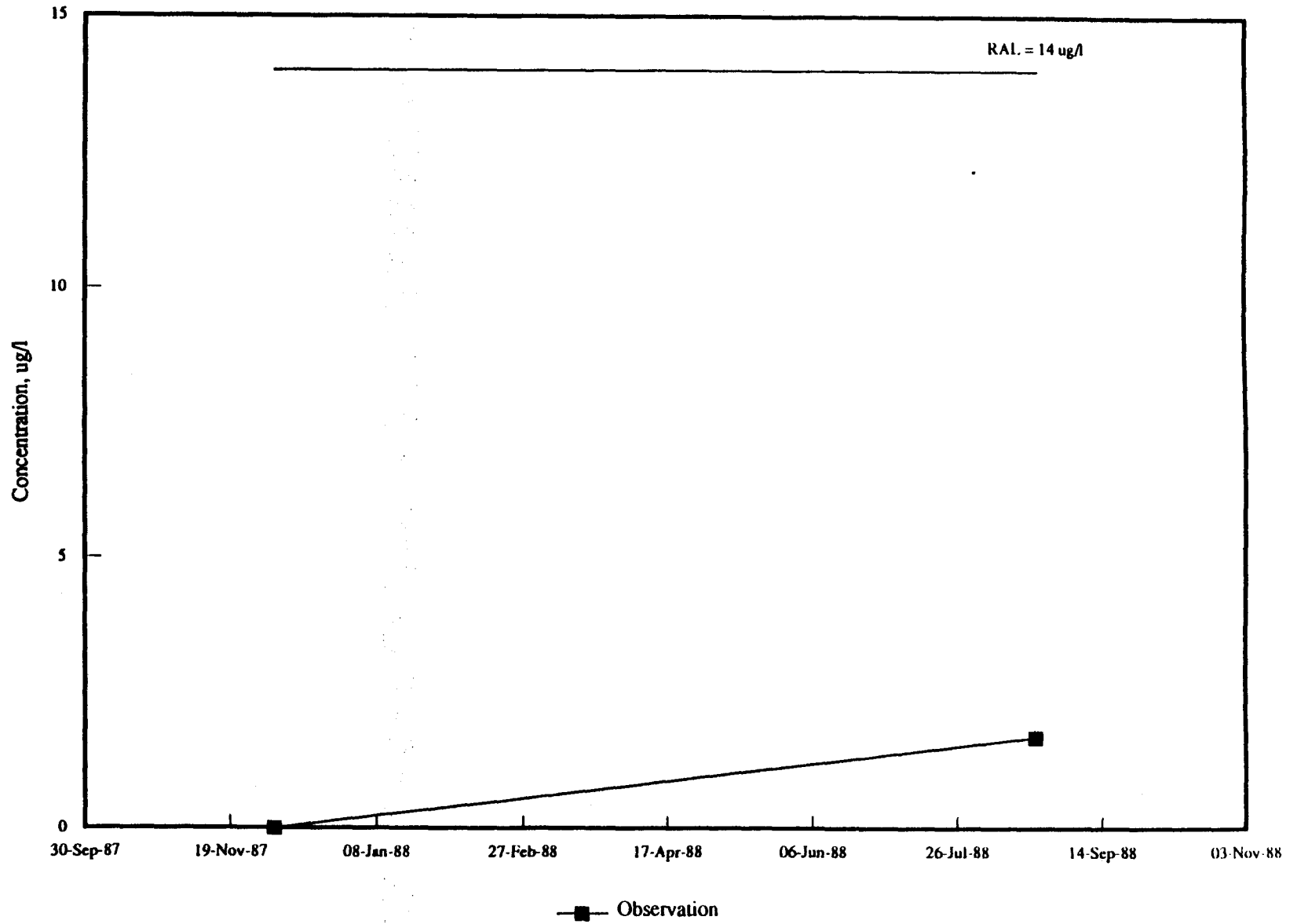
TRICHLOROETHENE - WELL 03U015



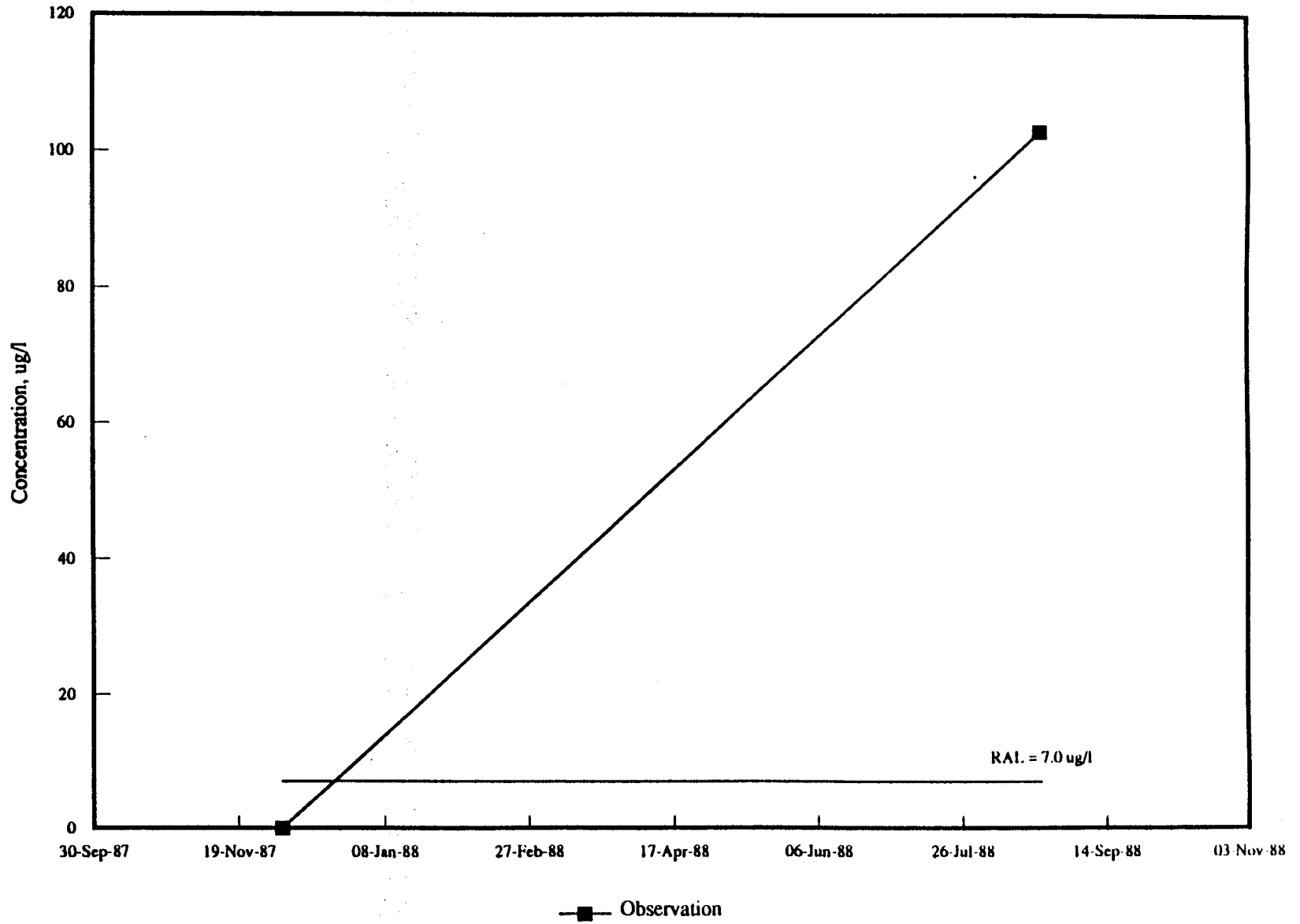
1,1,1-TRICHLOROETHANE - WELL 03U018



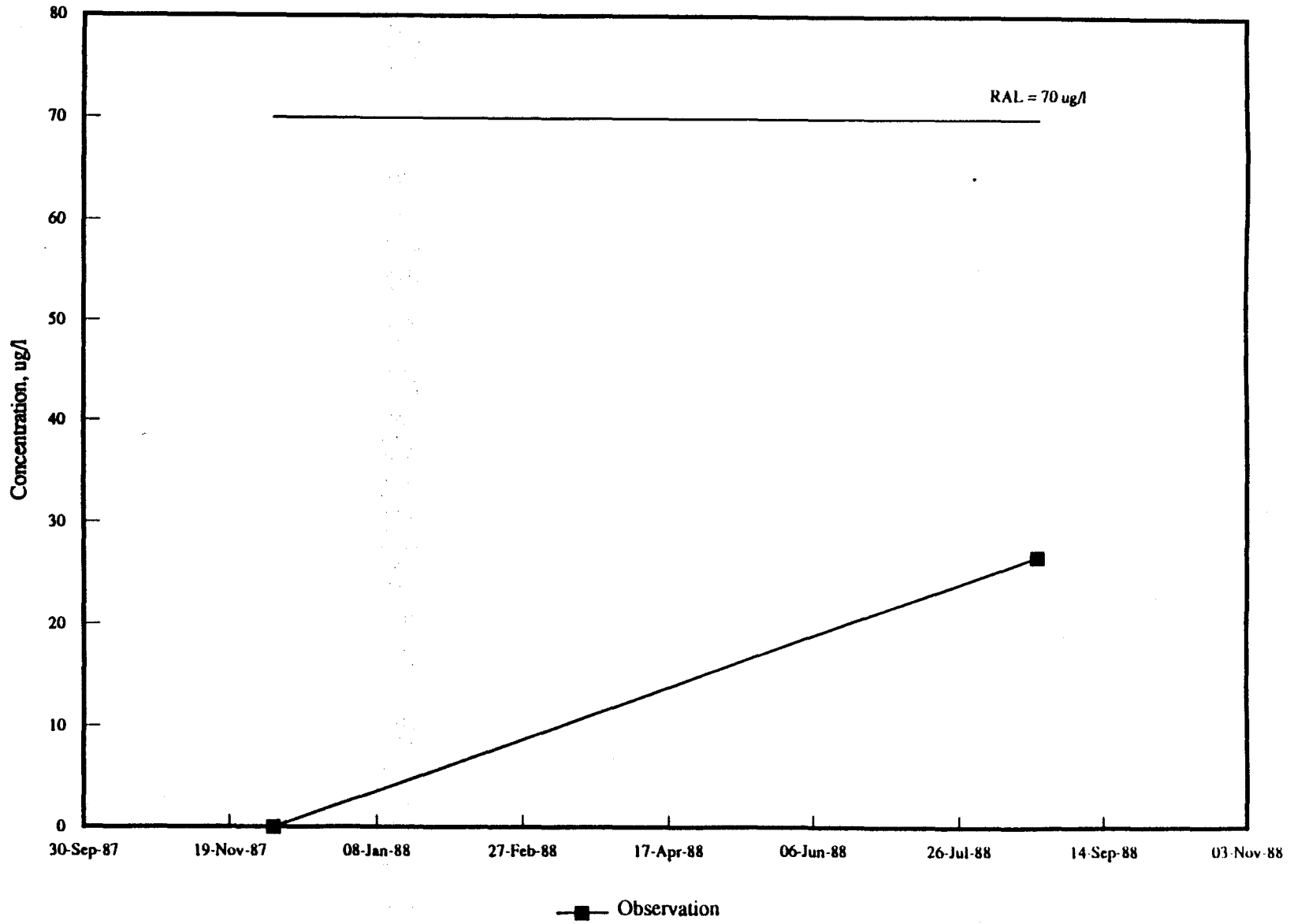
1,1,2-TRICHLOROETHANE - WELL 03U018



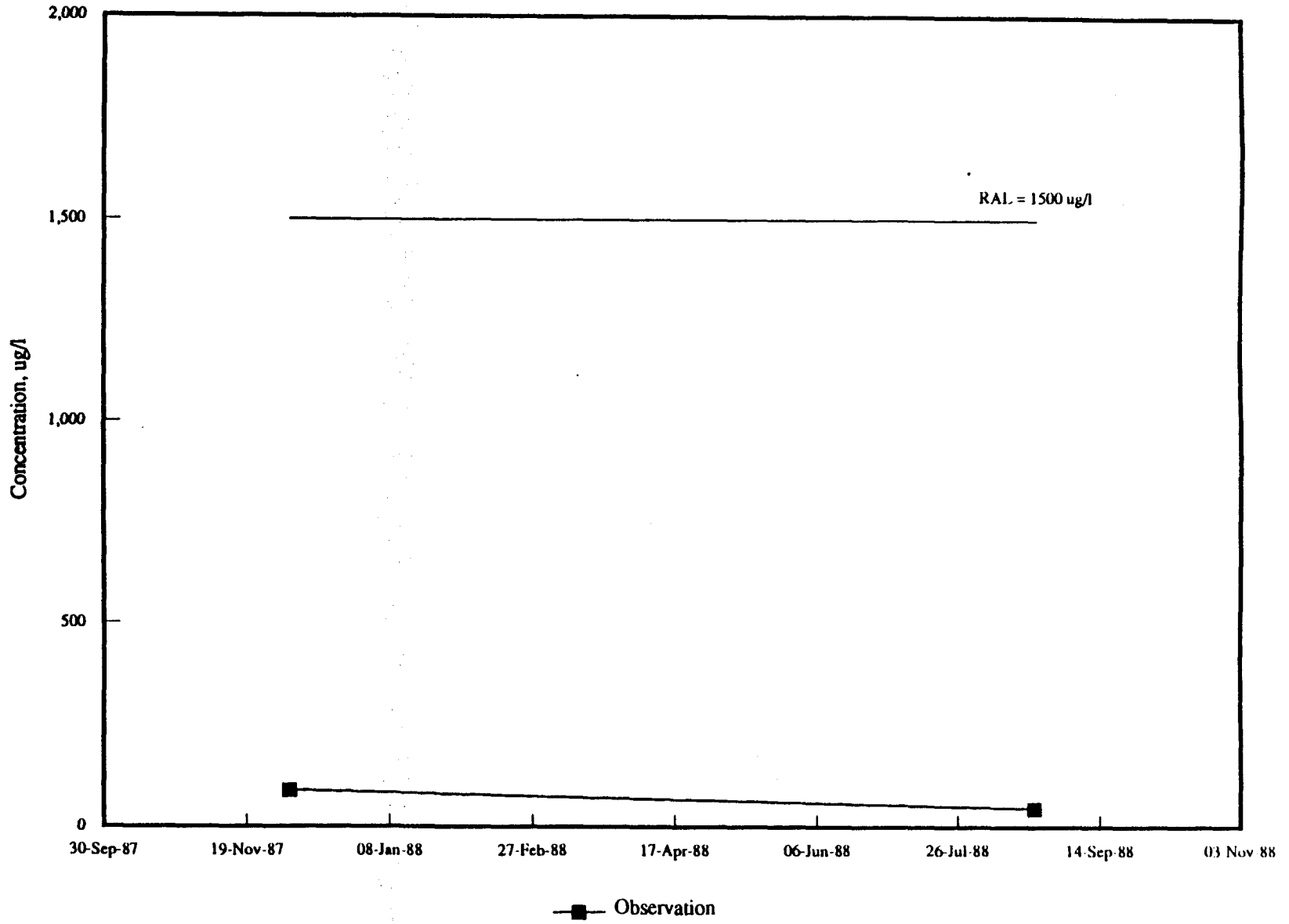
1,1-DICHLOROETHENE - WELL 03U018



1,2-DICHLOROETHENE - WELL 03U018

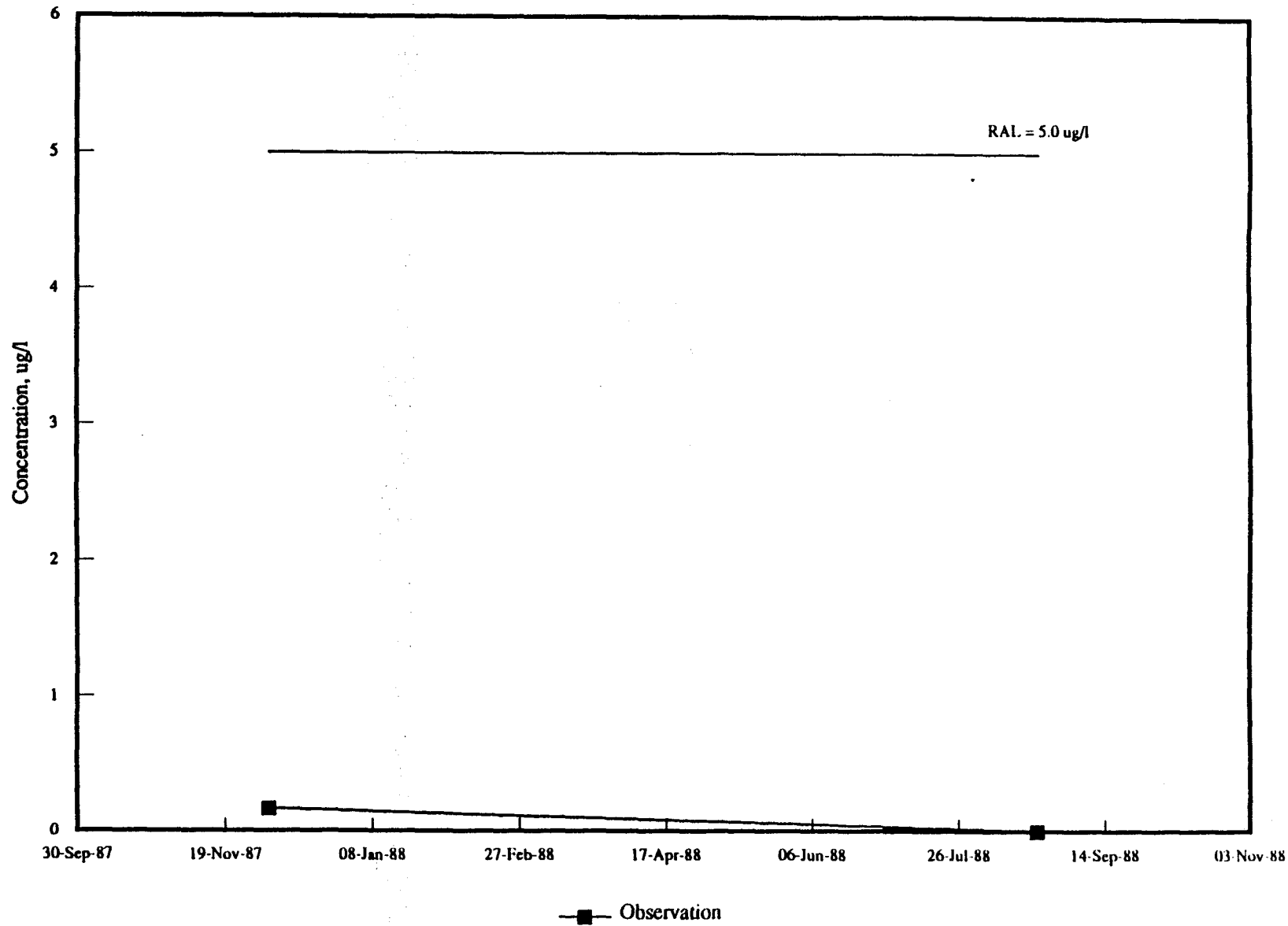


BARIUM - WELL 03U018

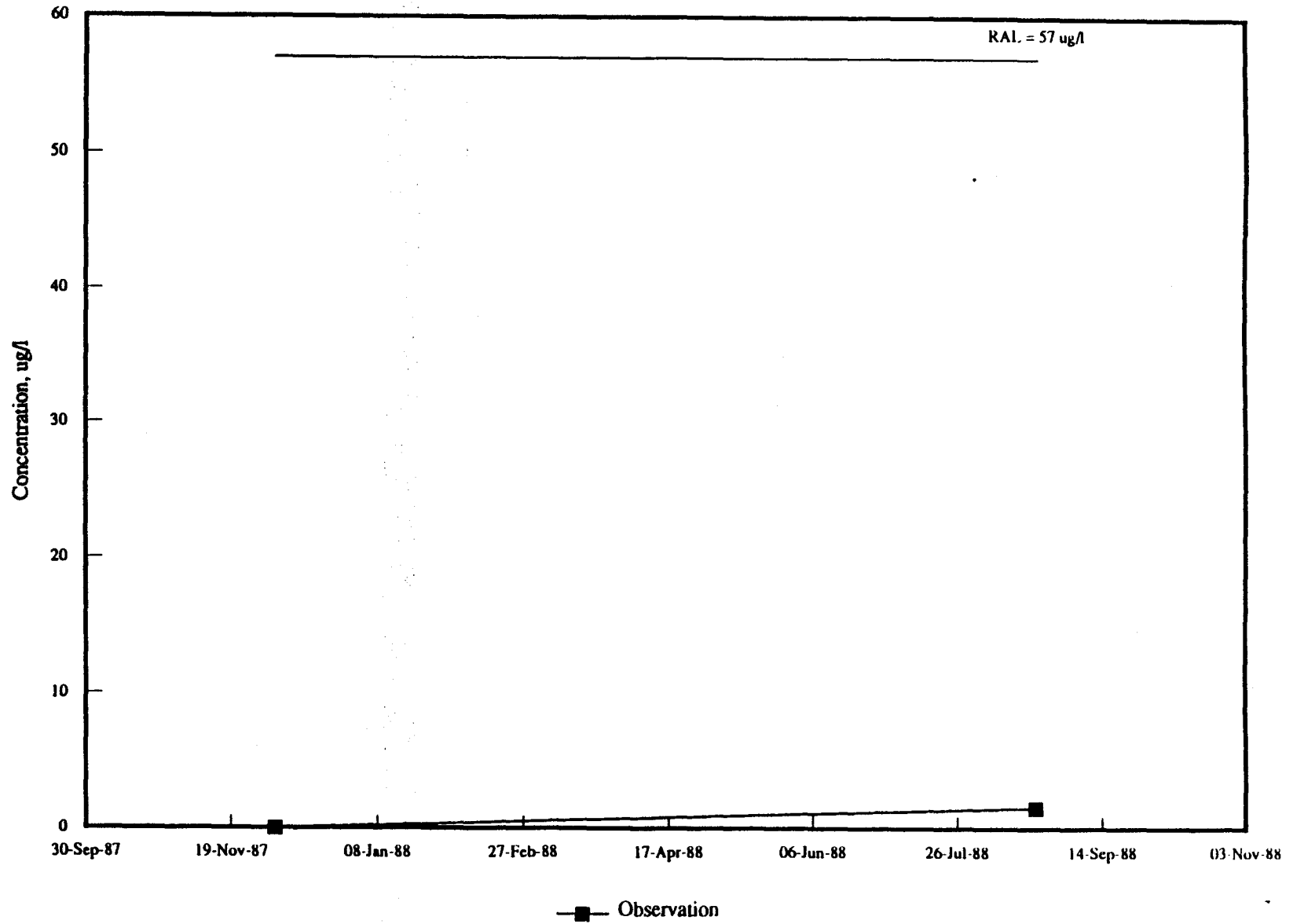




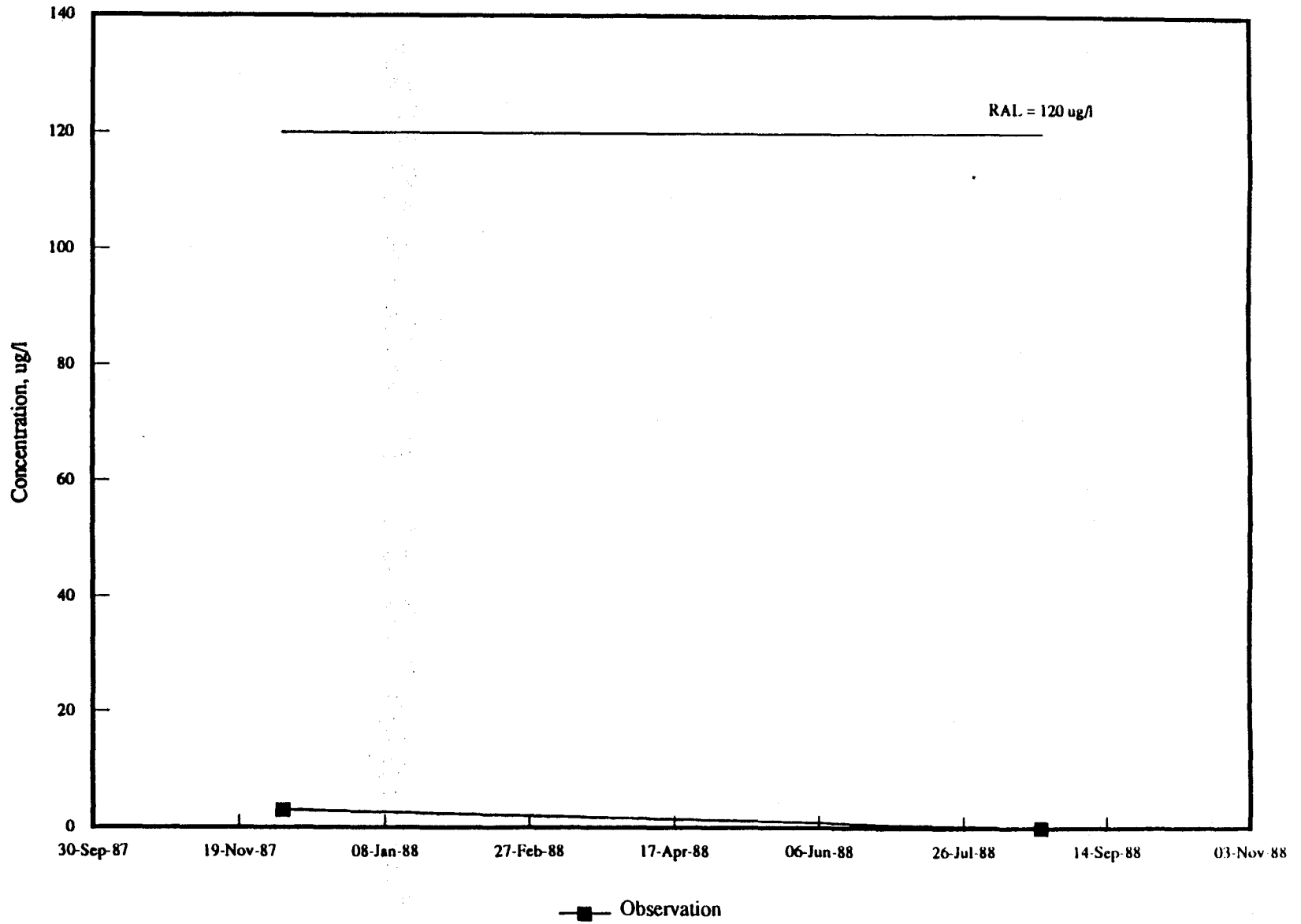
CADMIUM - WELL 03U018



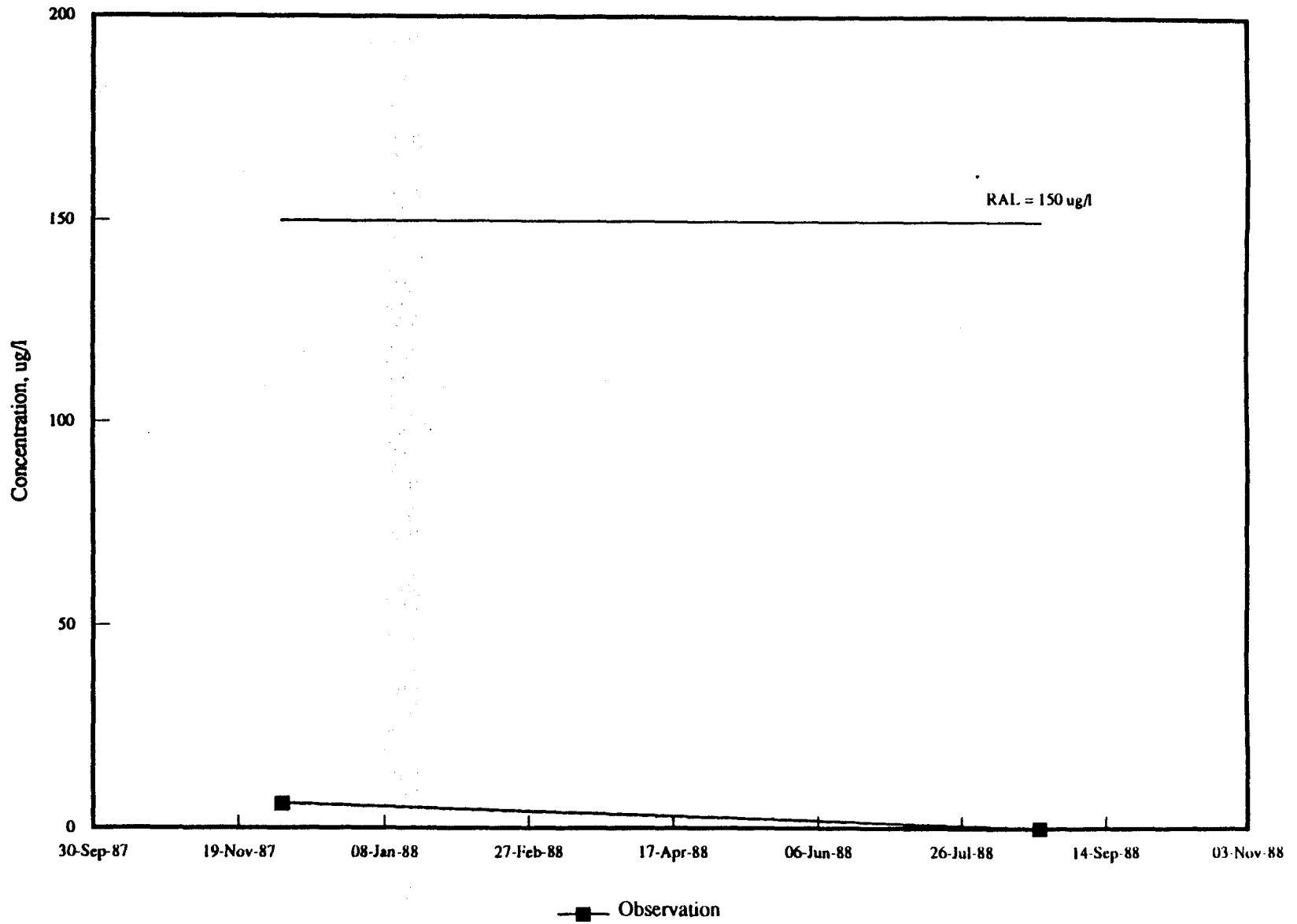
CHLOROFORM - WELL 03U018



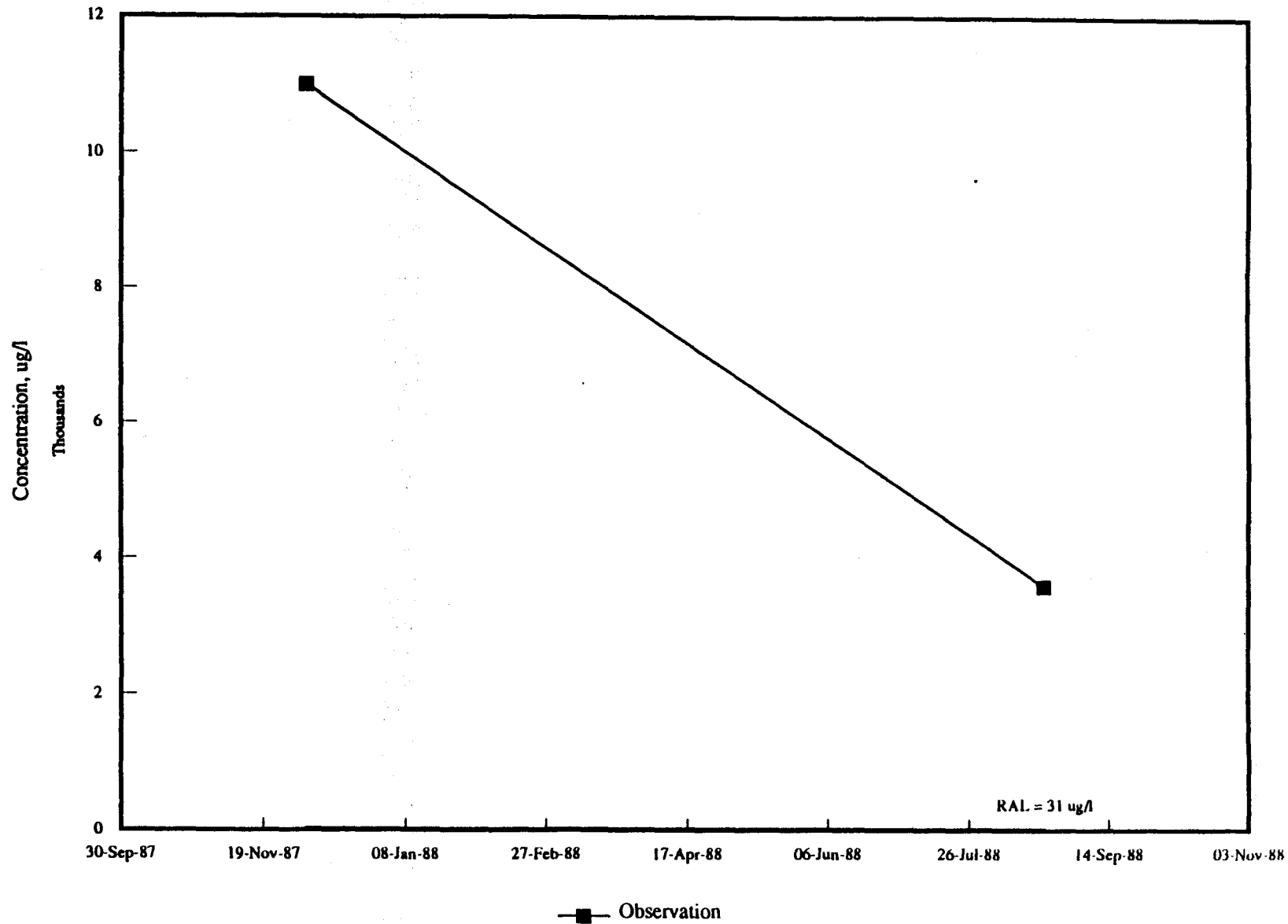
CHROMIUM - WELL 03U018



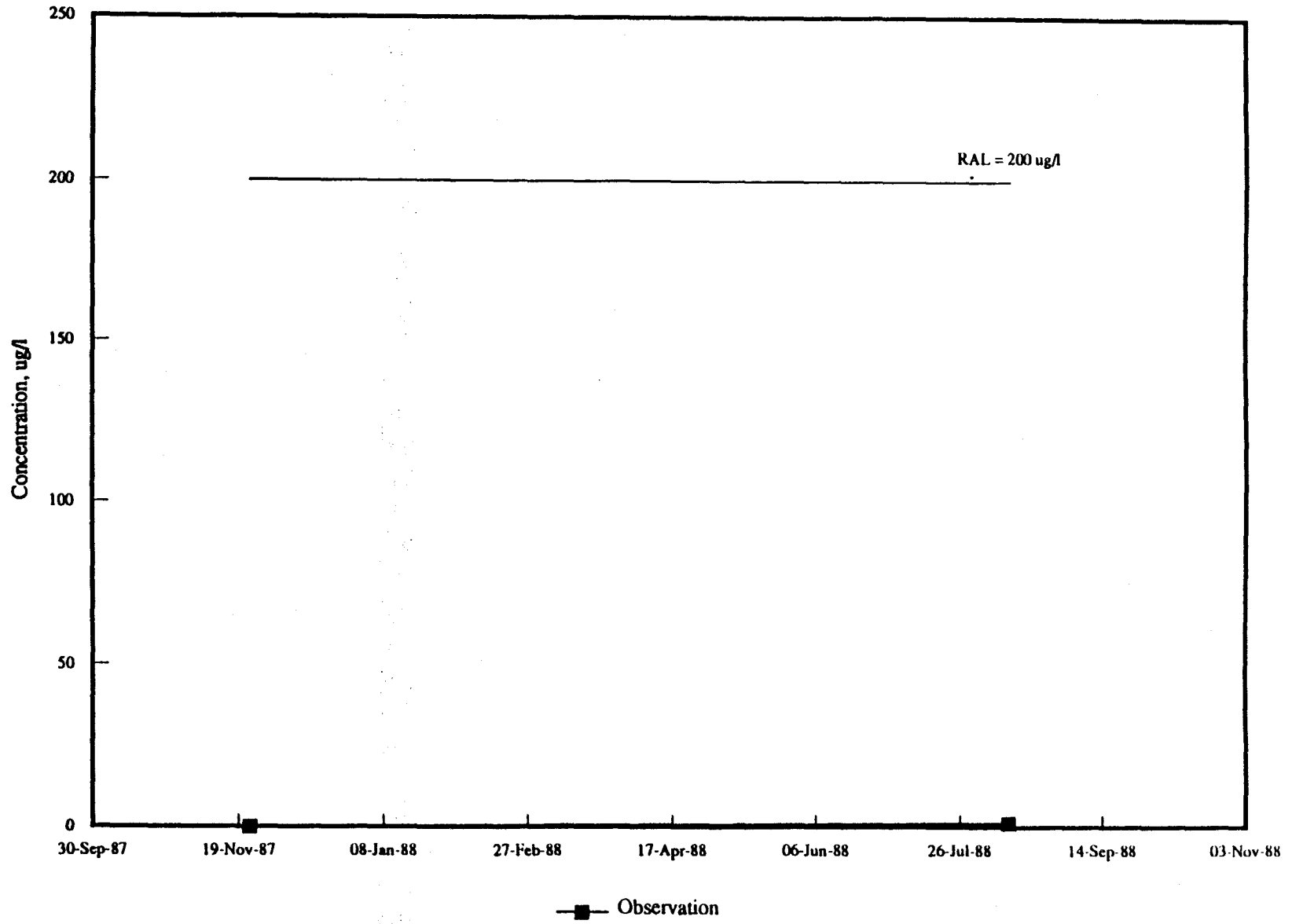
NICKEL - WELL 03U018



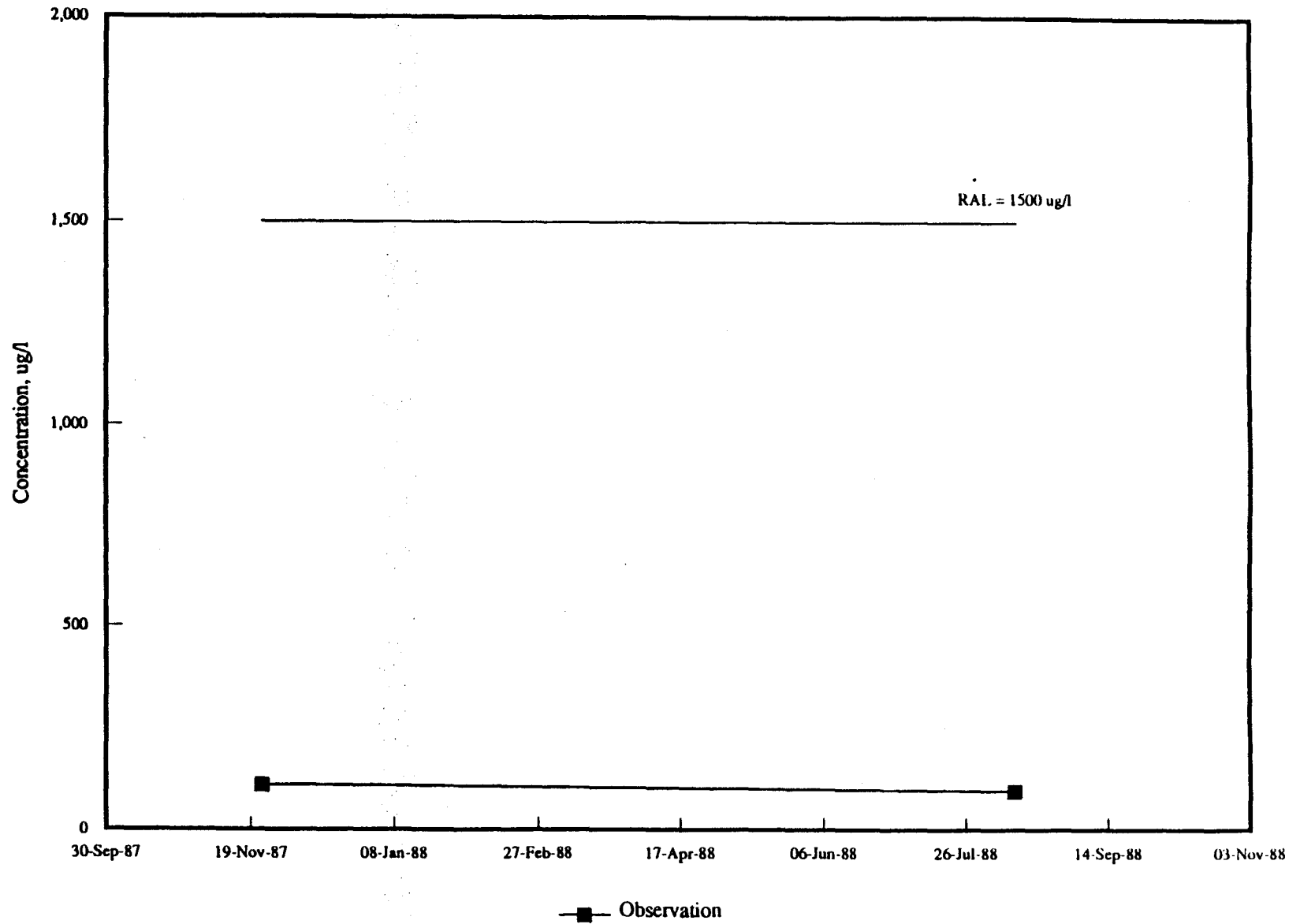
TRICHLOROETHENE - WELL 03U018



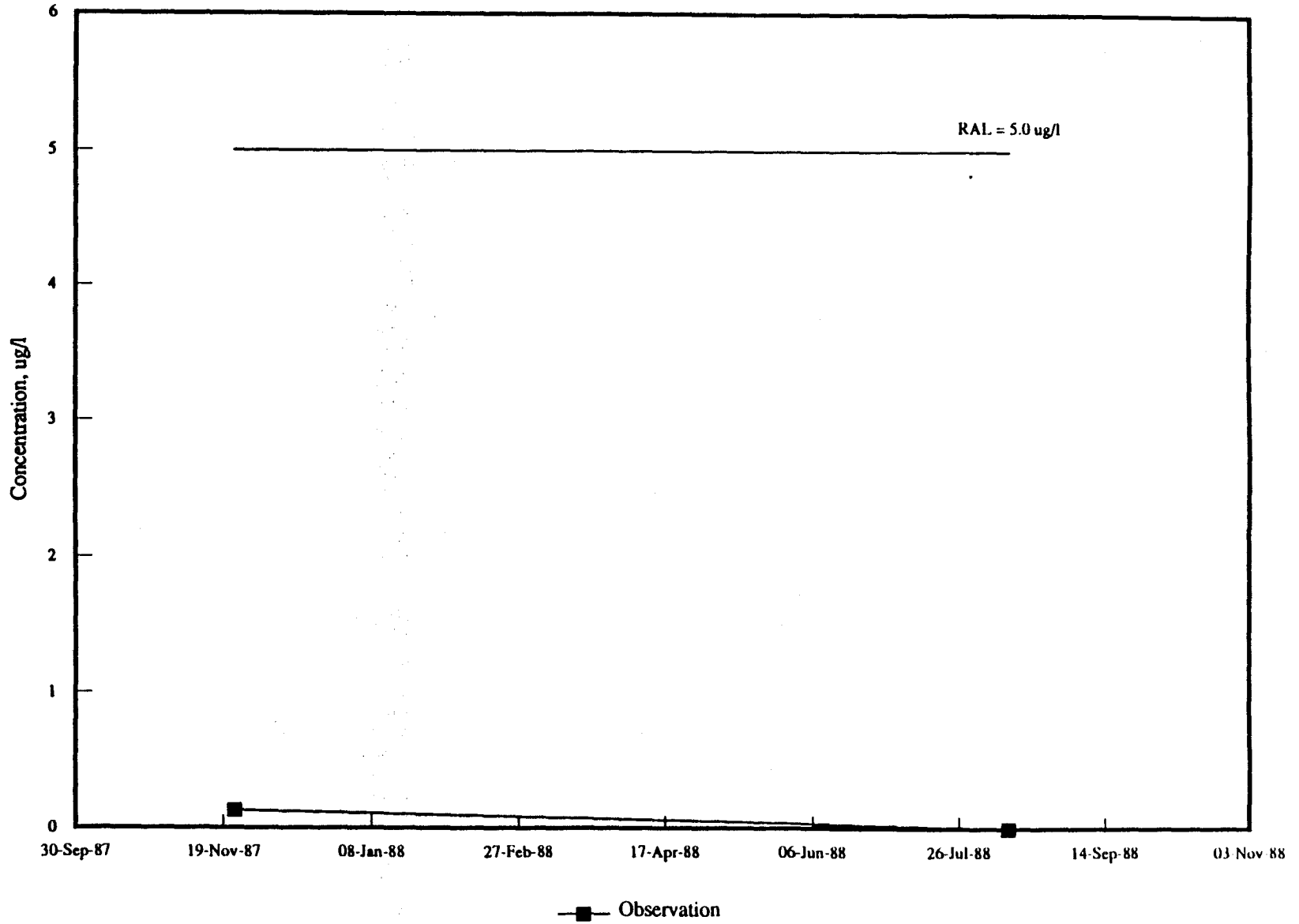
1,1,1-TRICHLOROETHANE - WELL 03U019



BARIUM - WELL 03U019

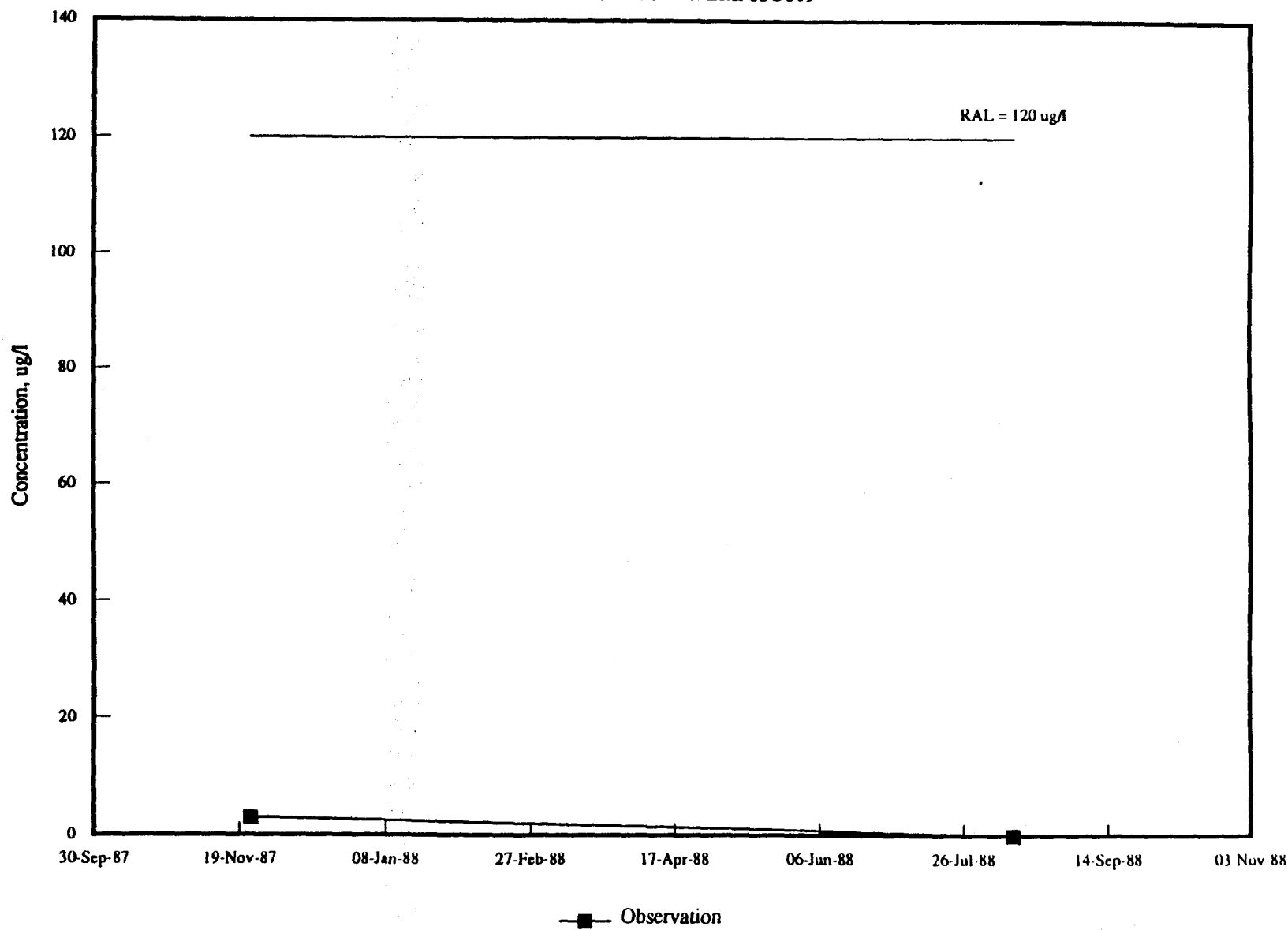


CADMIUM - WELL 03U019

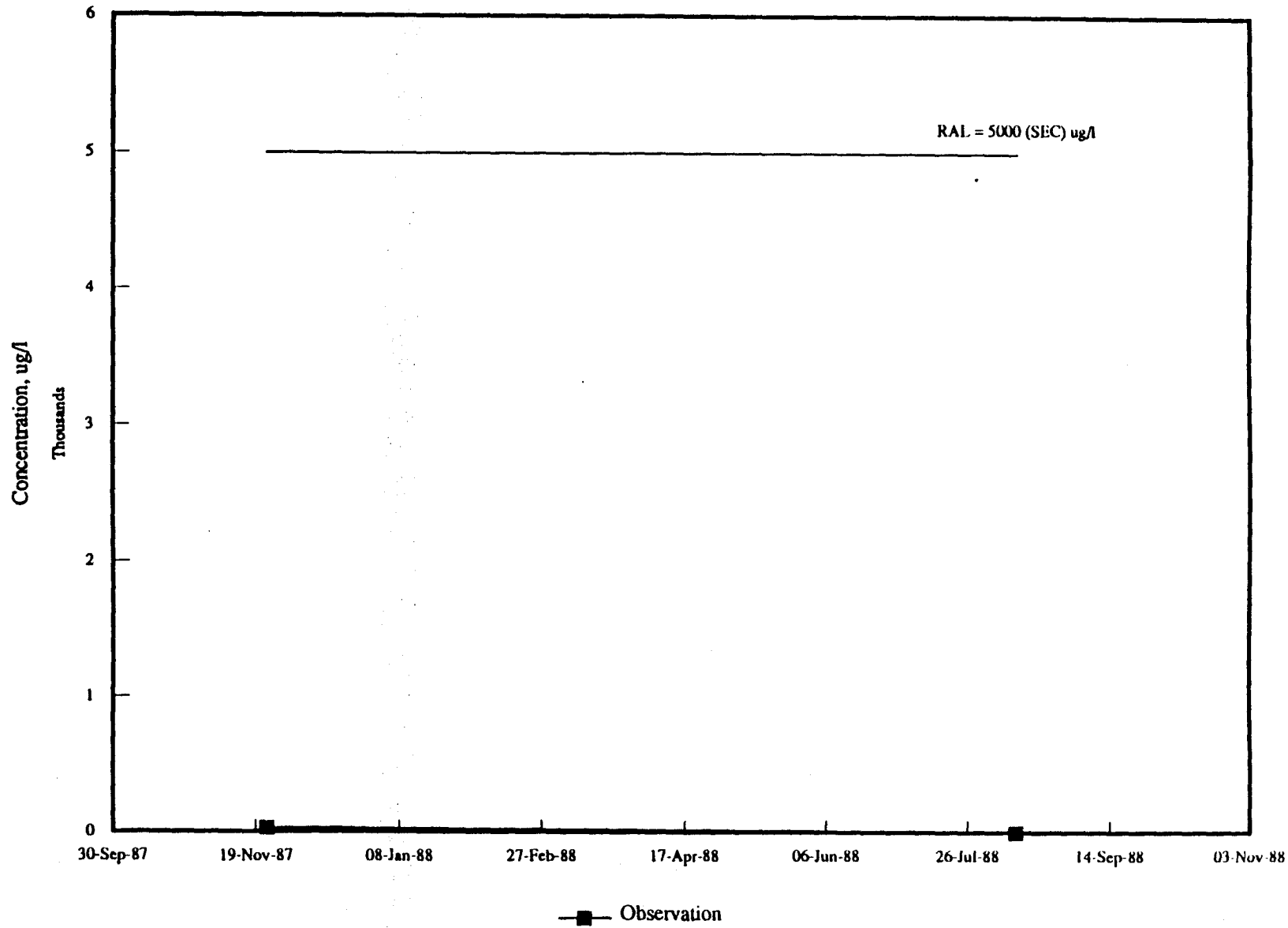




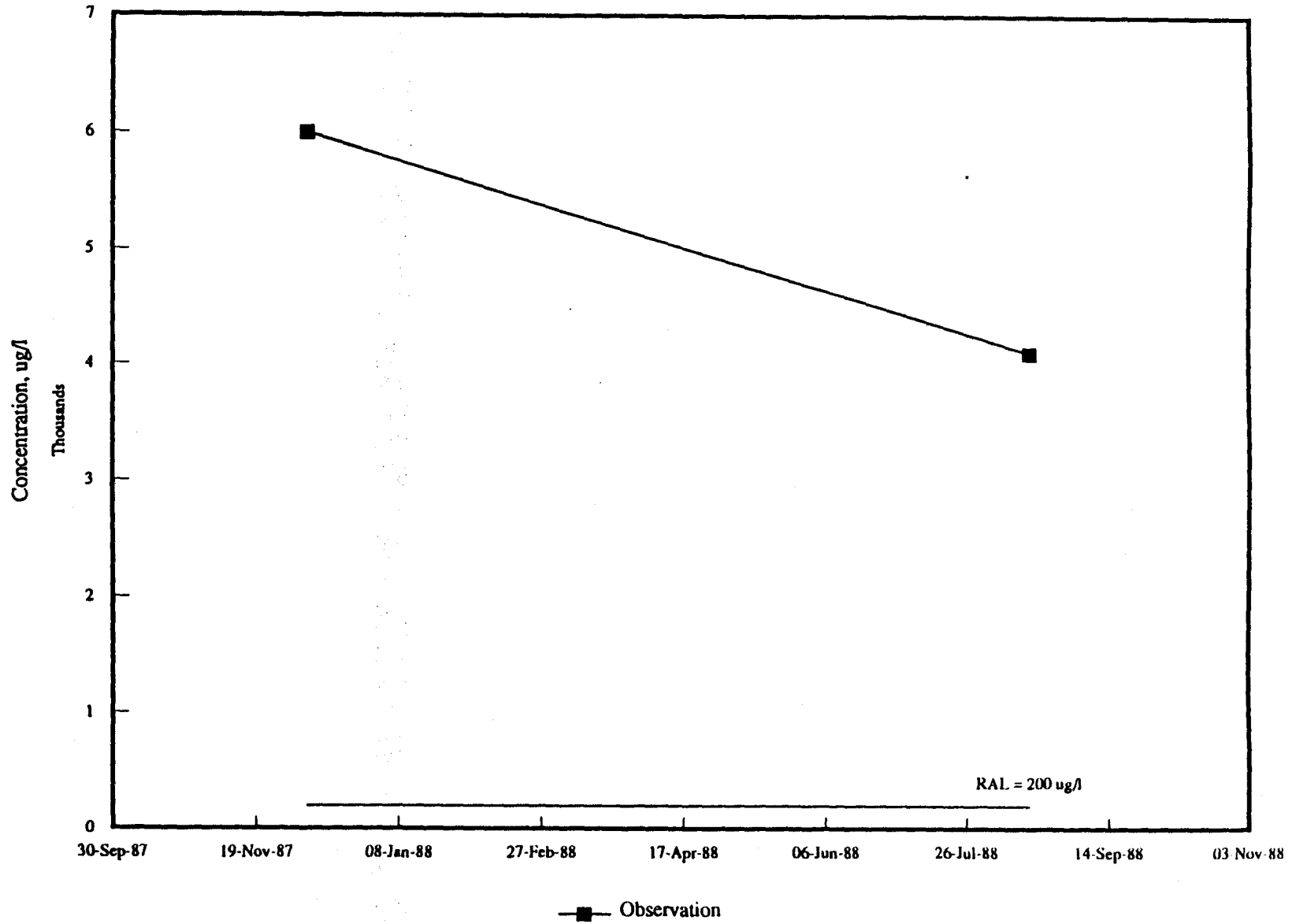
CHROMIUM - WELL 03U019



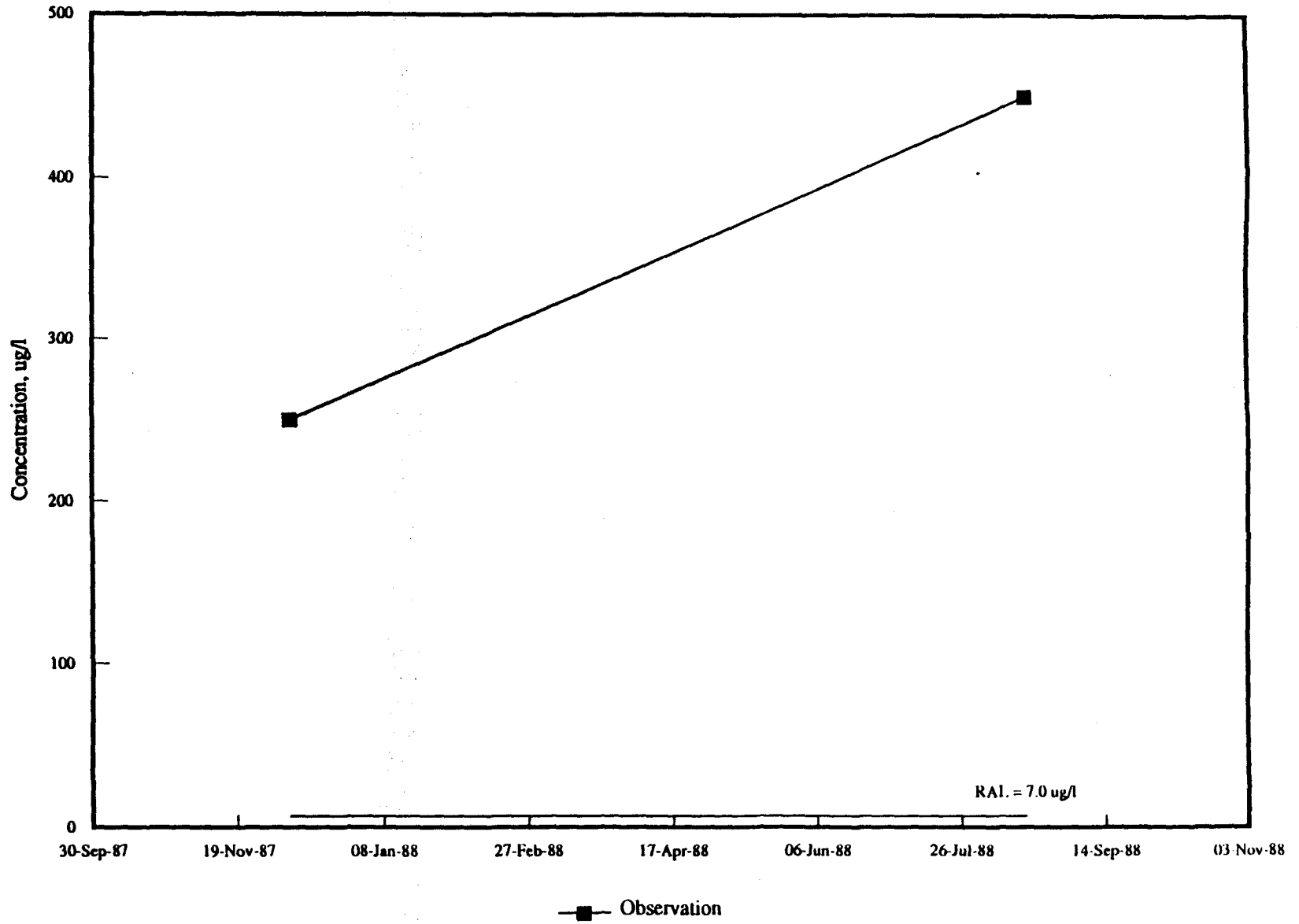
ZINC - WELL 03U019



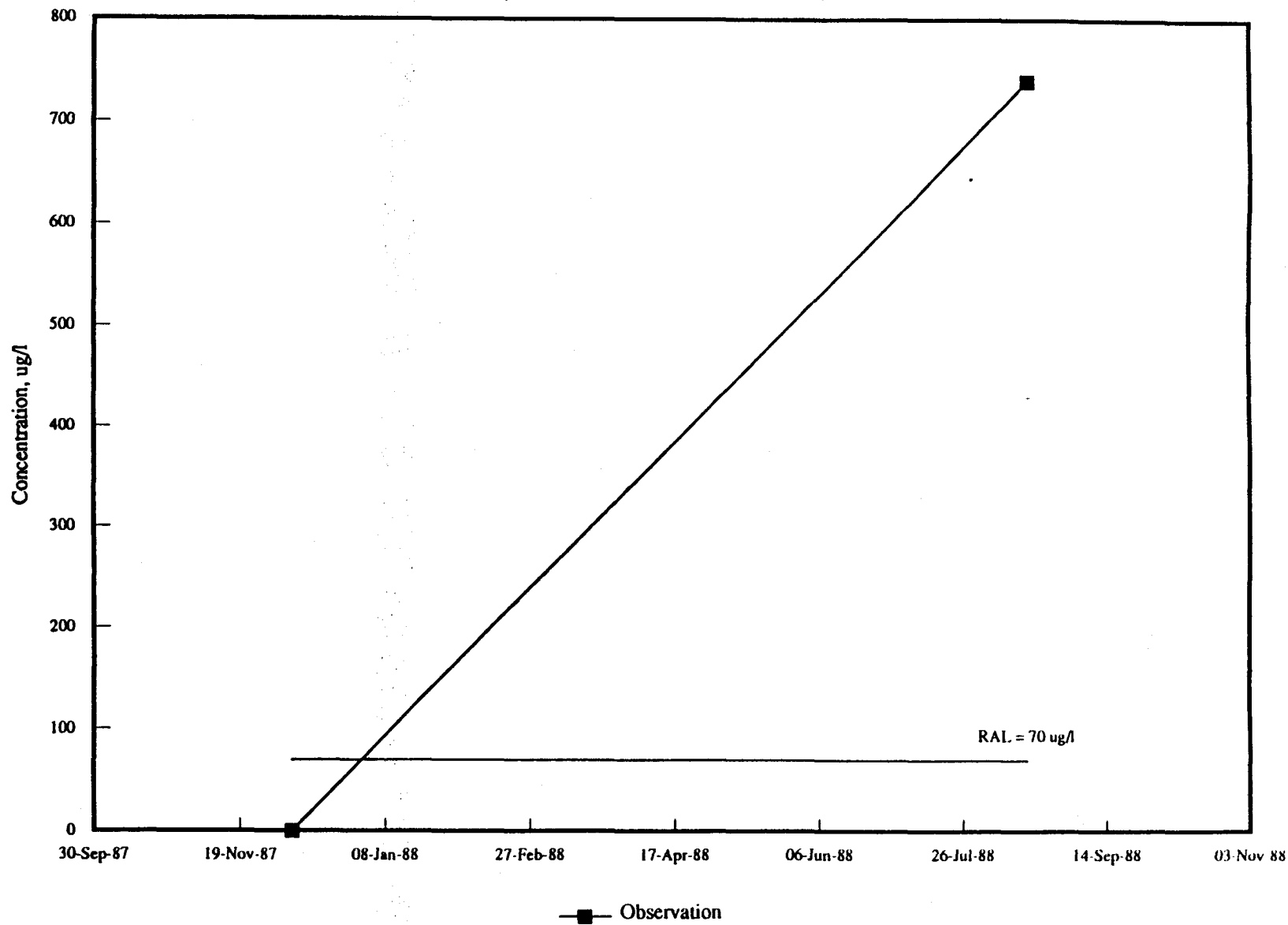
1,1,1-TRICHLOROETHANE - WELL 03U020



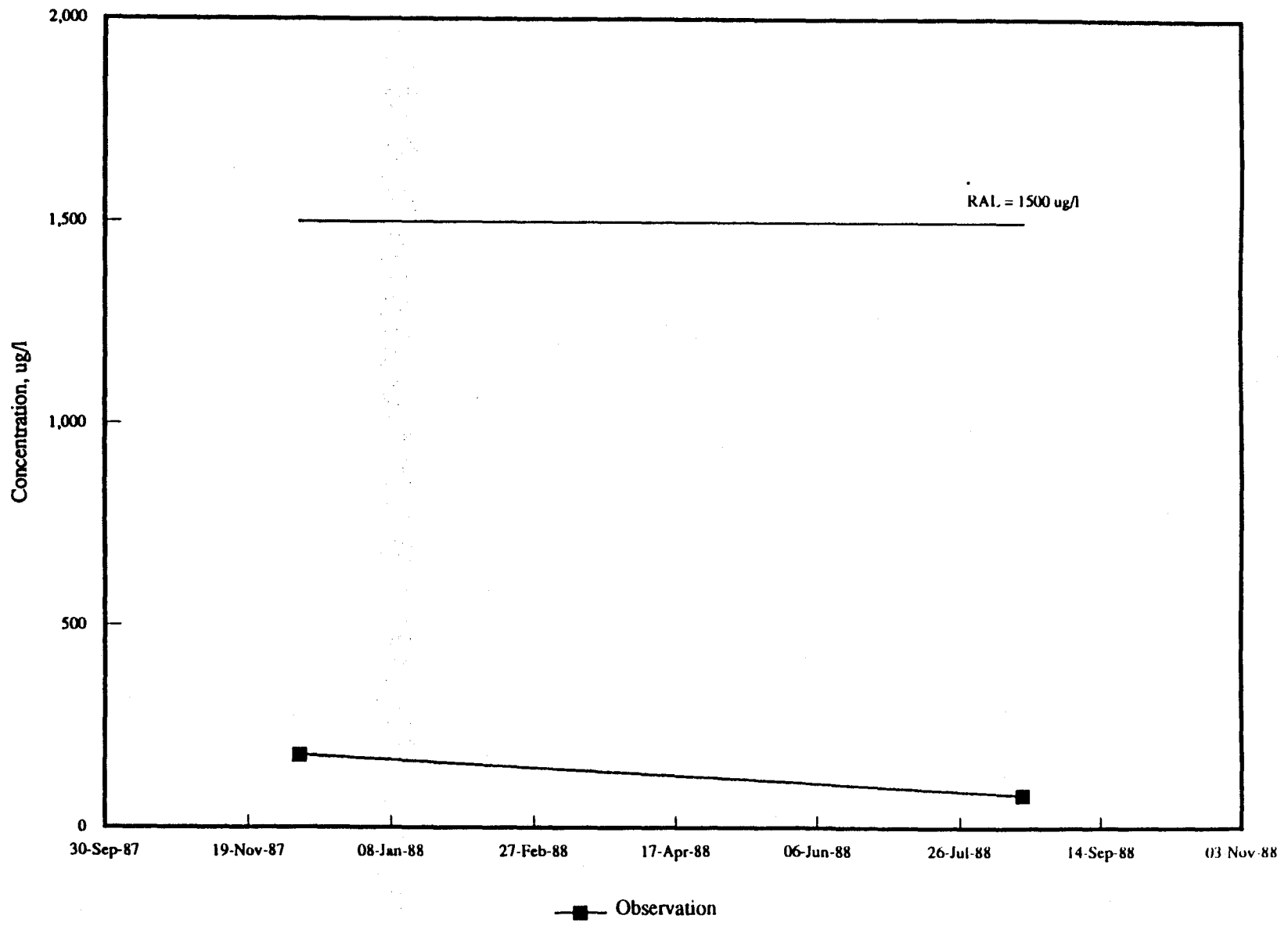
1,1-DICHLOROETHENE - WELL 03U020



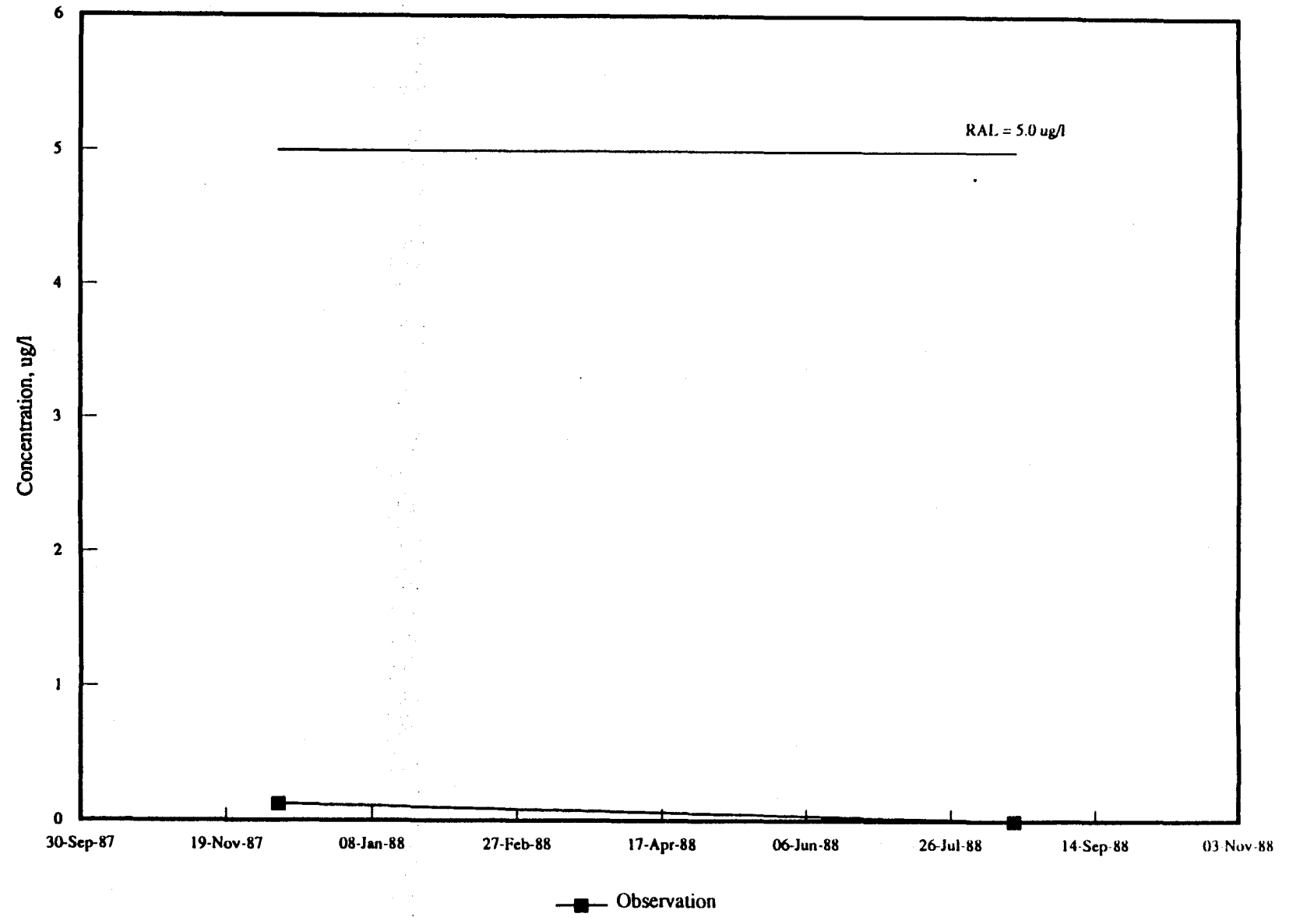
1,2-DICHLOROETHENE - WELL 03U020



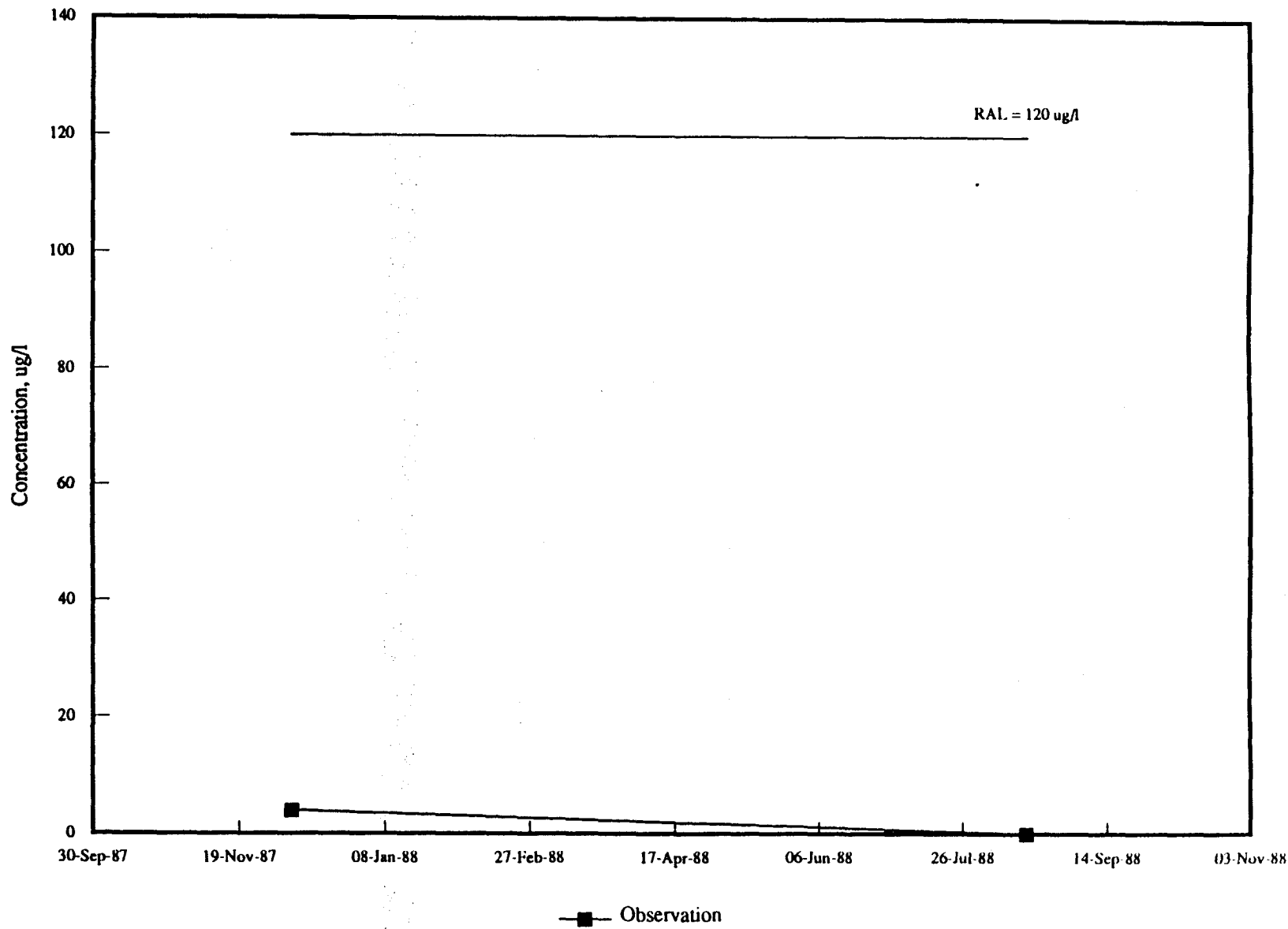
BARIUM - WELL 03U020



CADMIUM - WELL 03U020

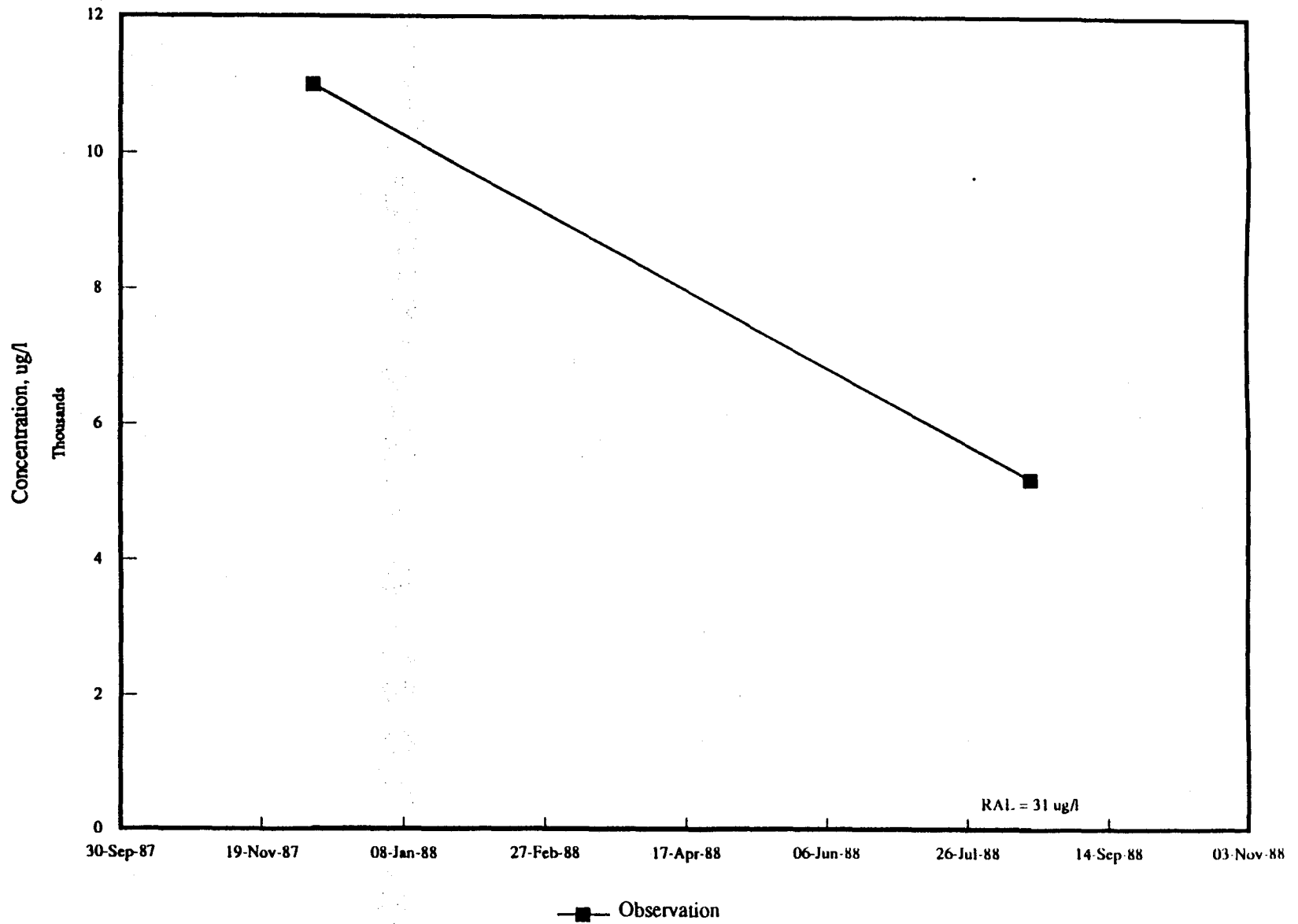


CHROMIUM - WELL 03U020

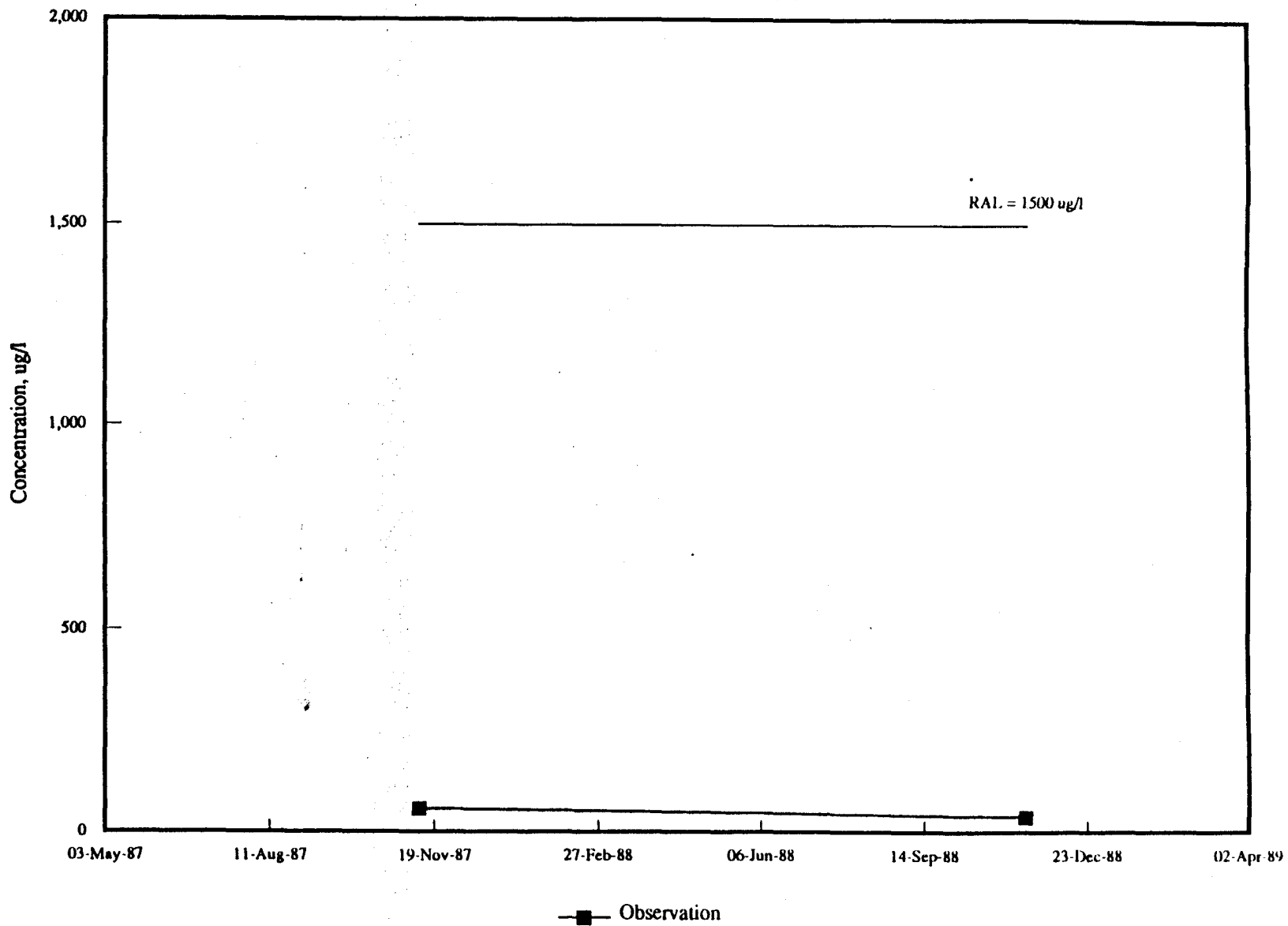




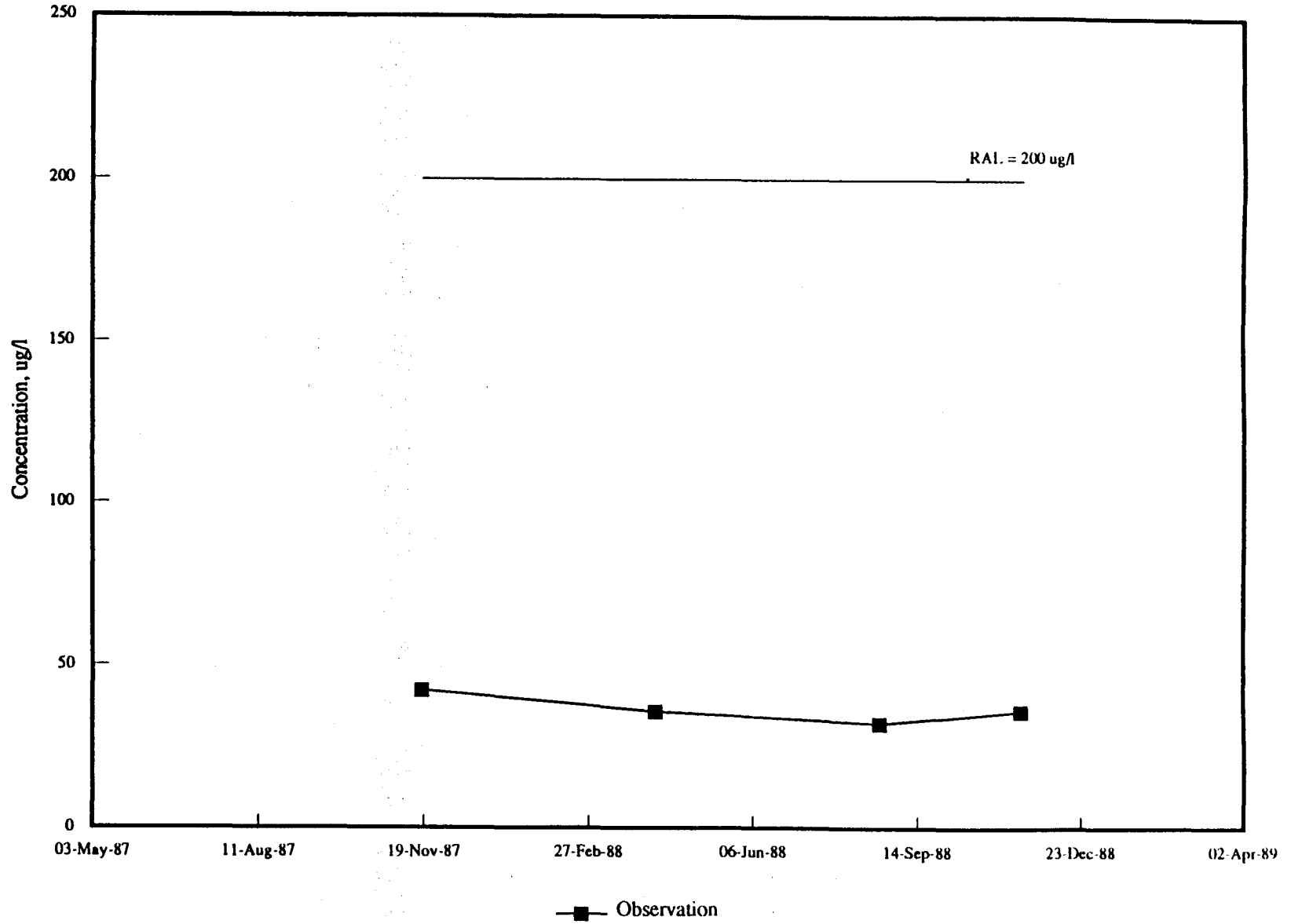
TRICHLOROETHENE - WELL 03U020



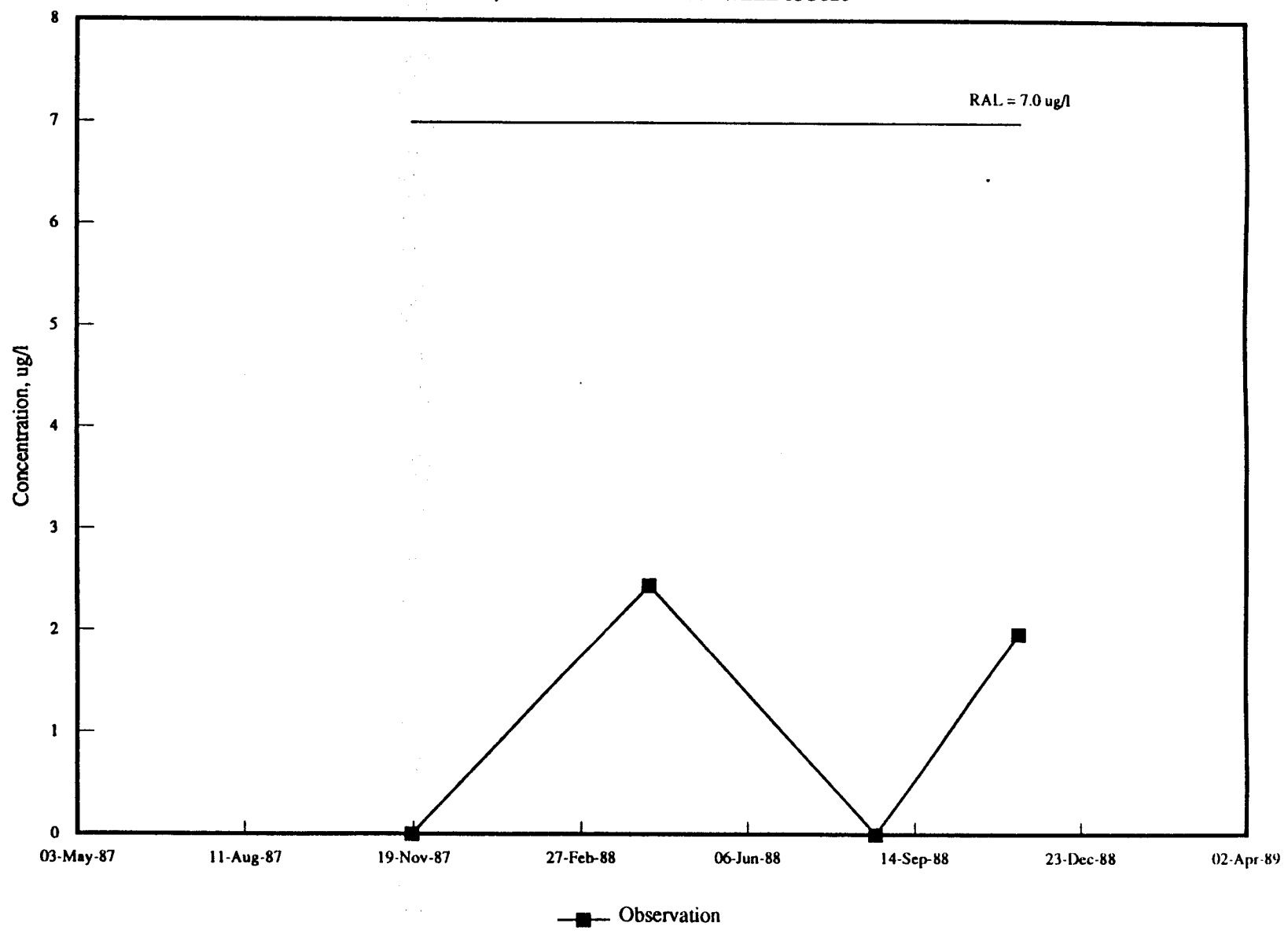
BARIUM - WELL 03U023



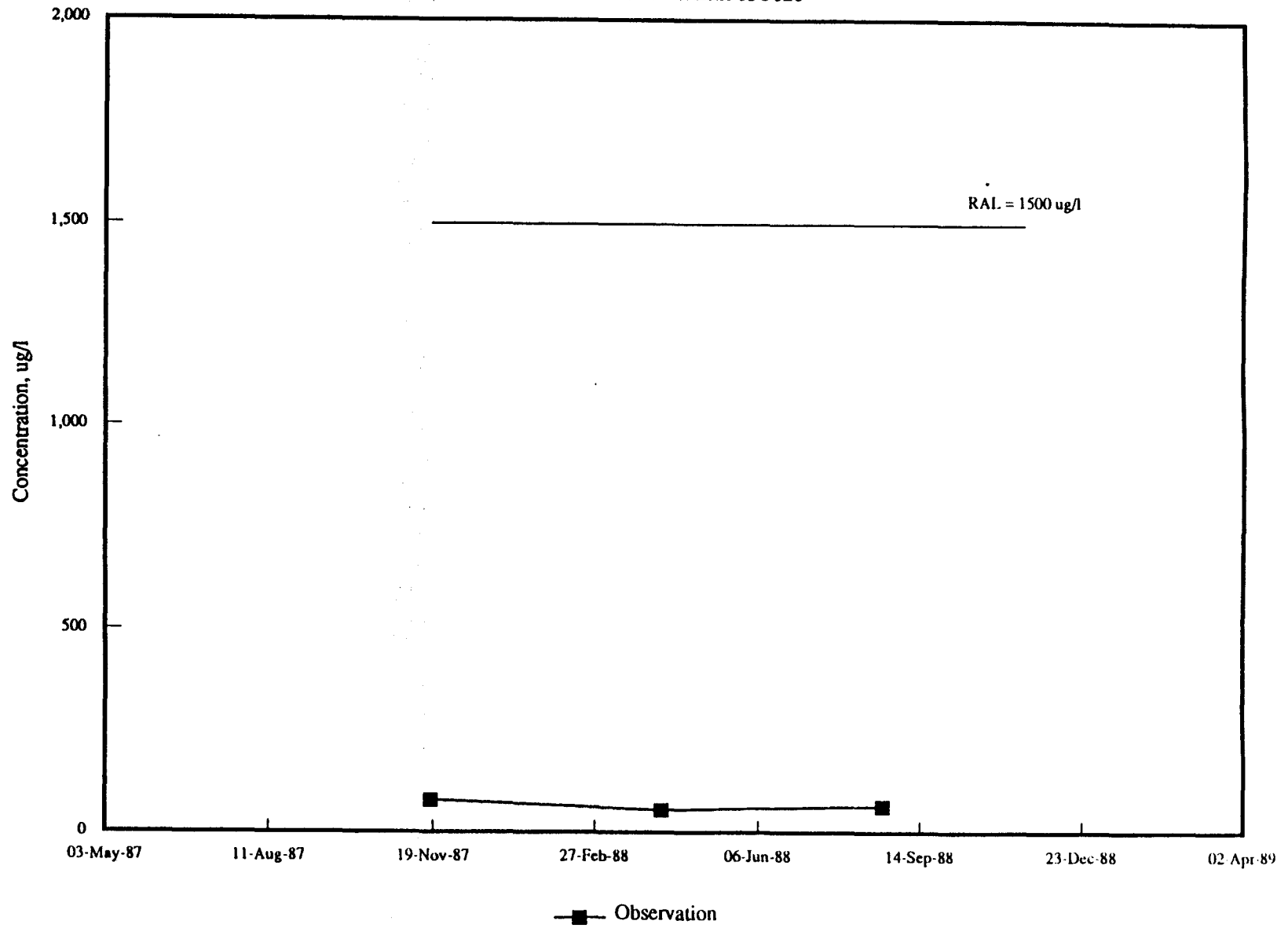
1,1,1-TRICHLOROETHANE - WELL 03U026



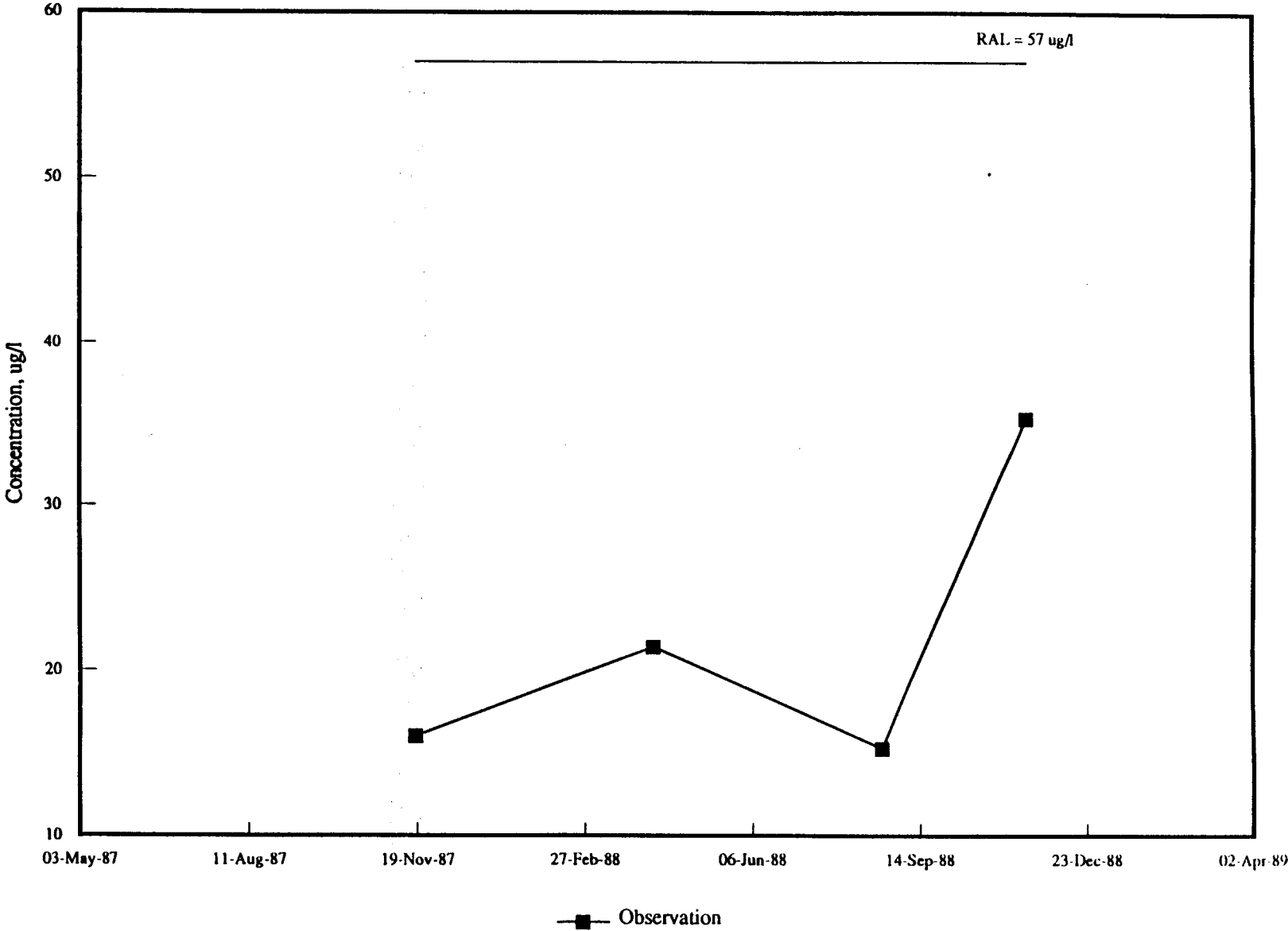
1,1-DICHLOROETHENE - WELL 03U026



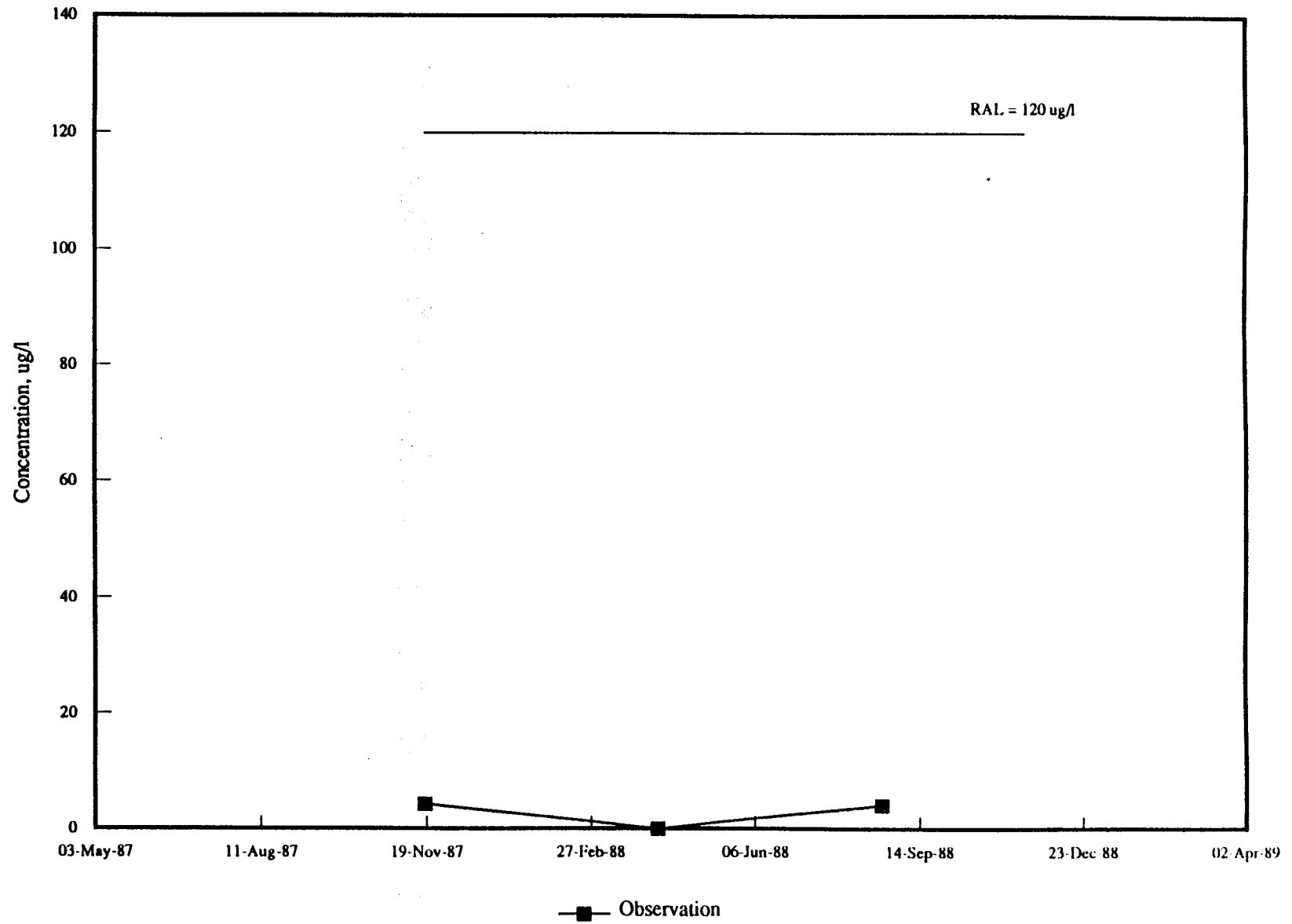
BARIUM - WELL 03U026



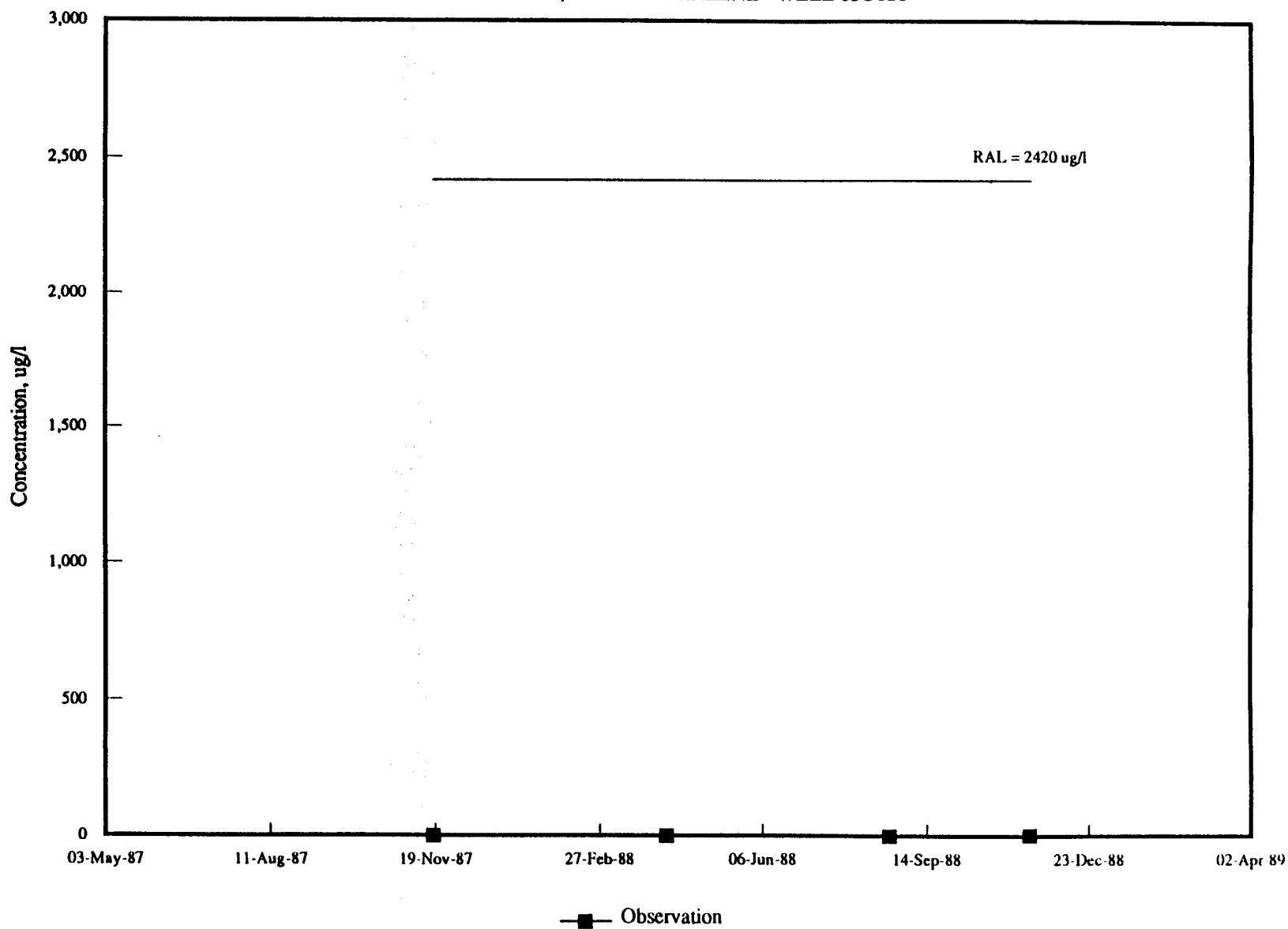
CHLOROFORM - WELL 03U026



CHROMIUM - WELL 03U026

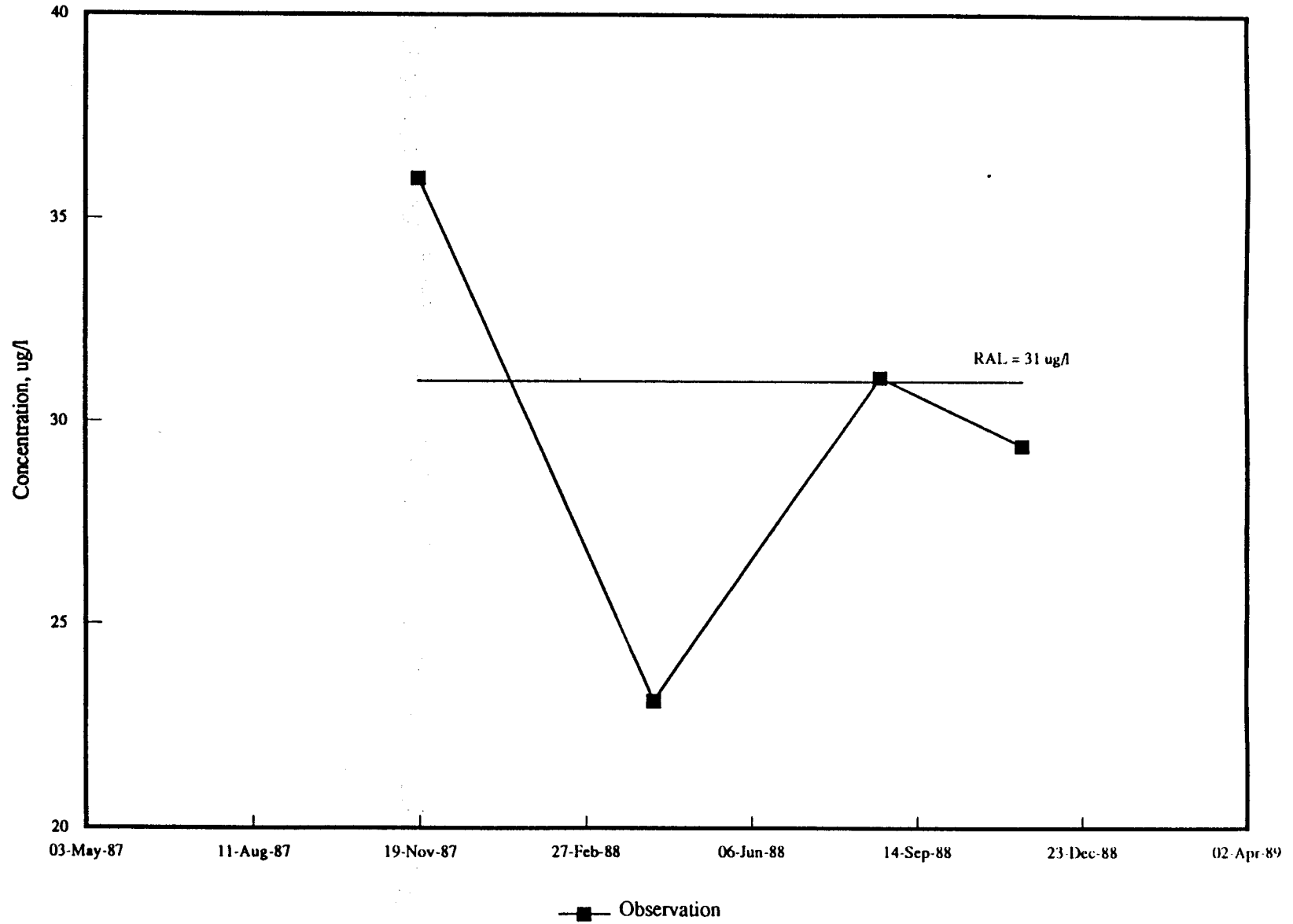


TOLUENE / METHYL BENZENE - WELL 03U026

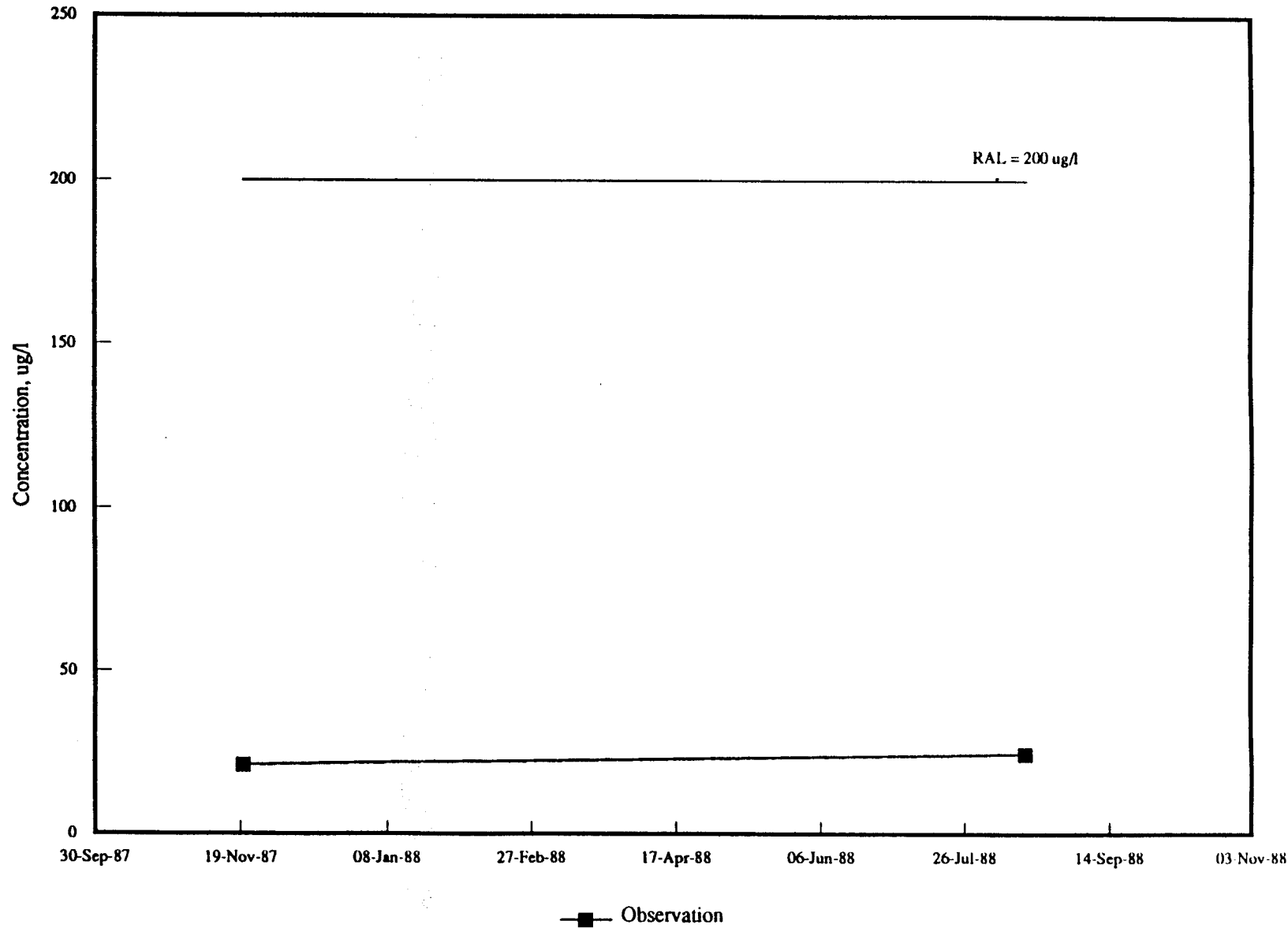




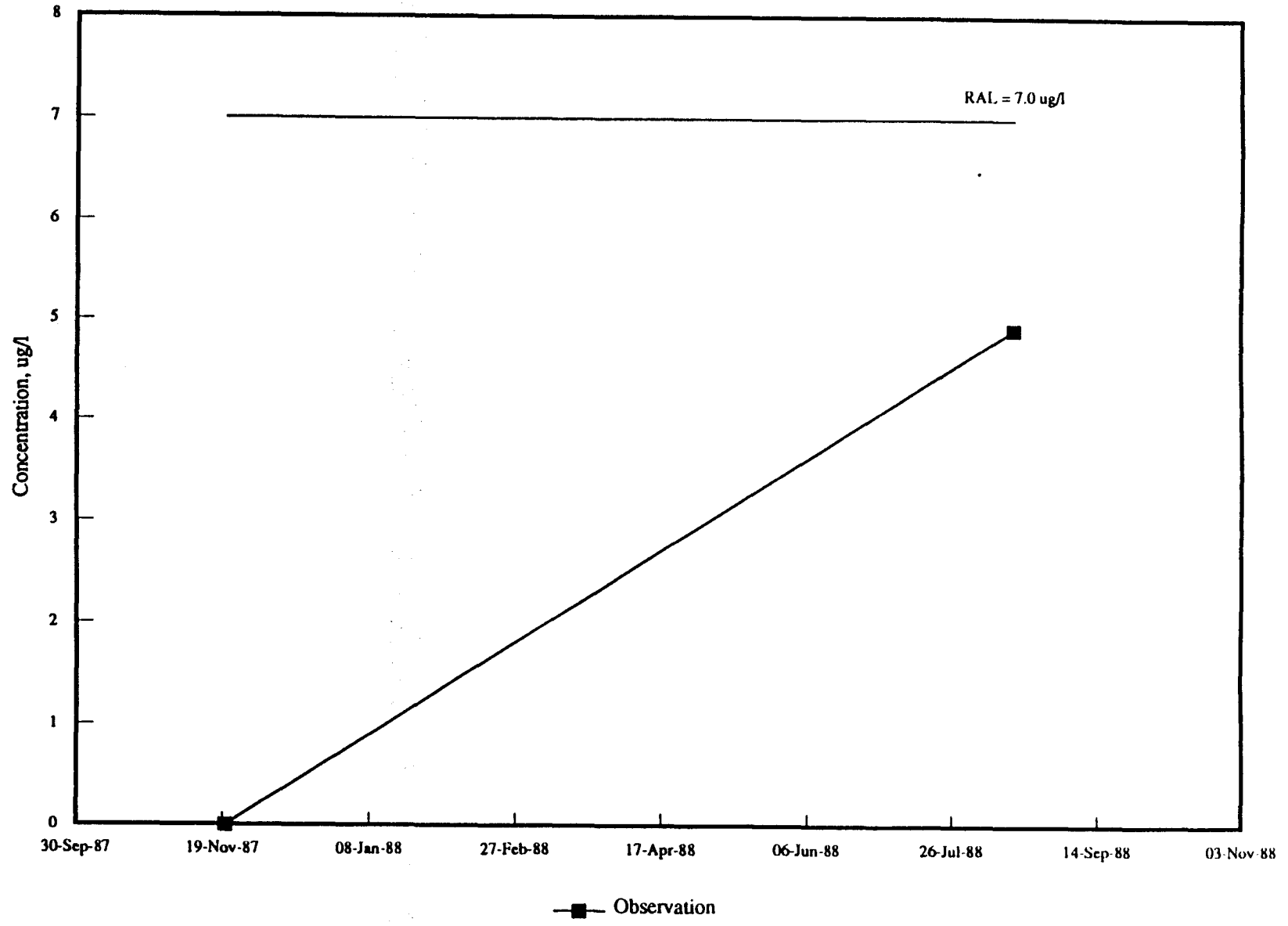
TRICHLOROETHENE - WELL 03U026



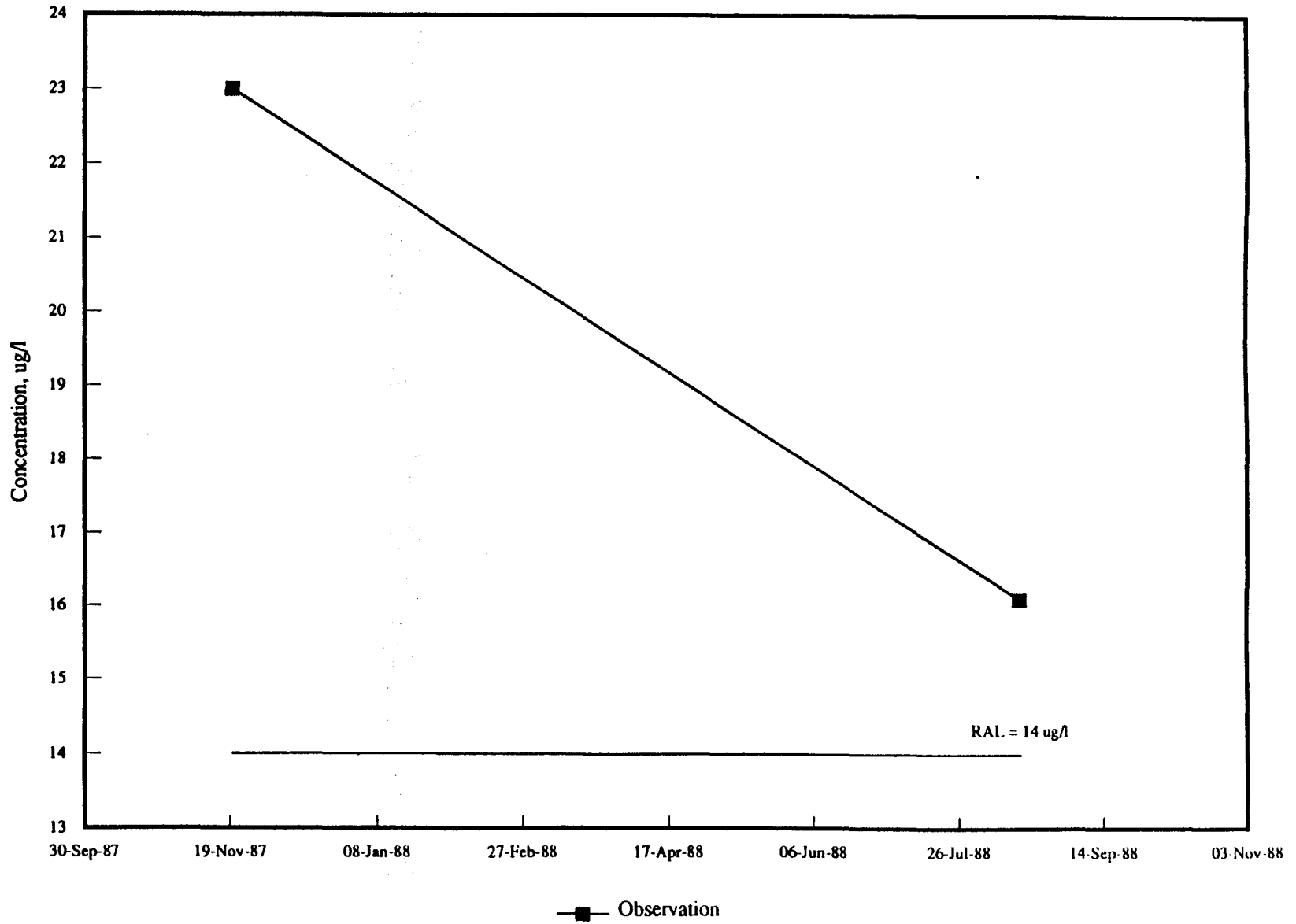
1,1,1-TRICHLOROETHANE - WELL 03U027



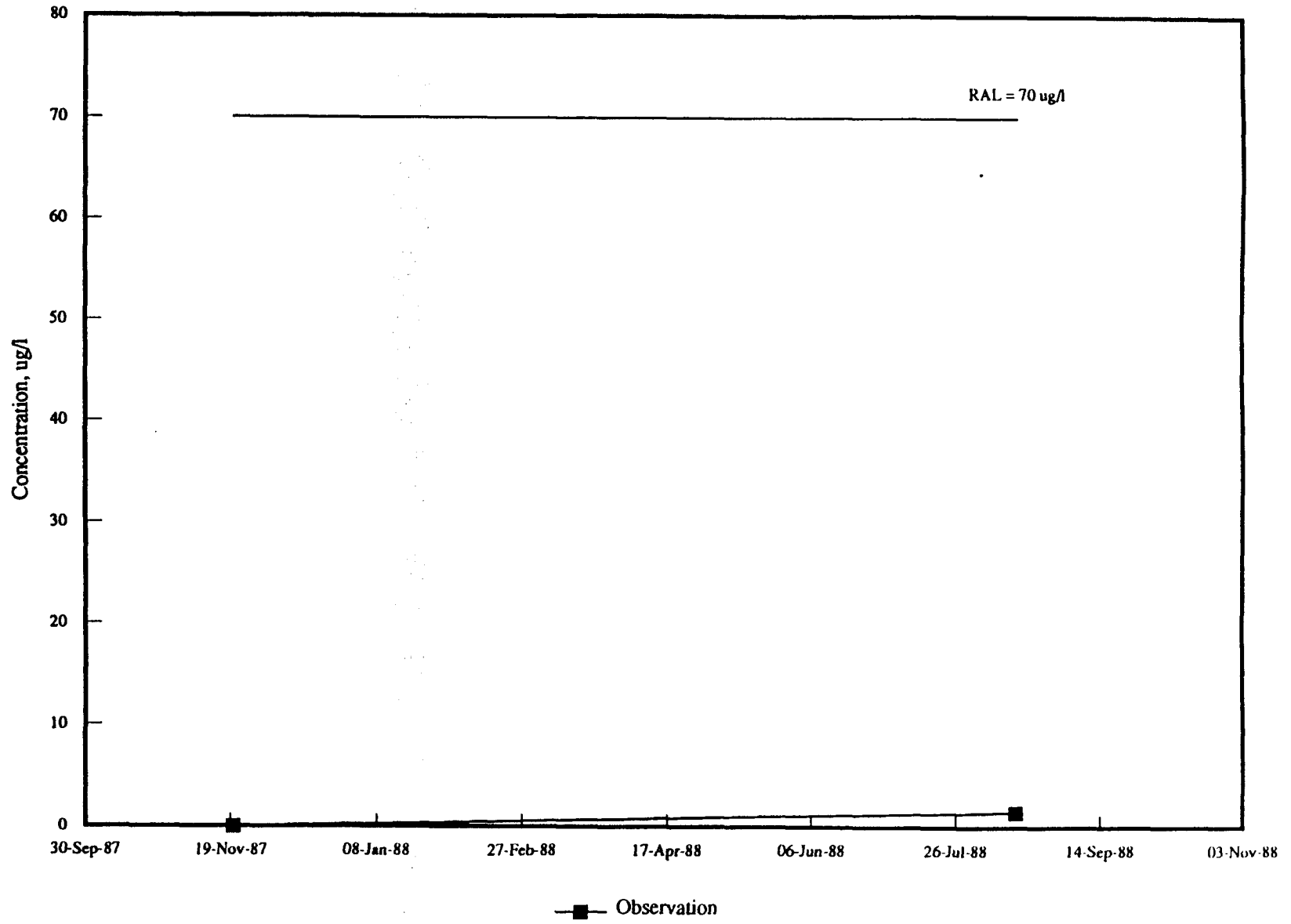
1,1-DICHLOROETHENE - WELL 03U027



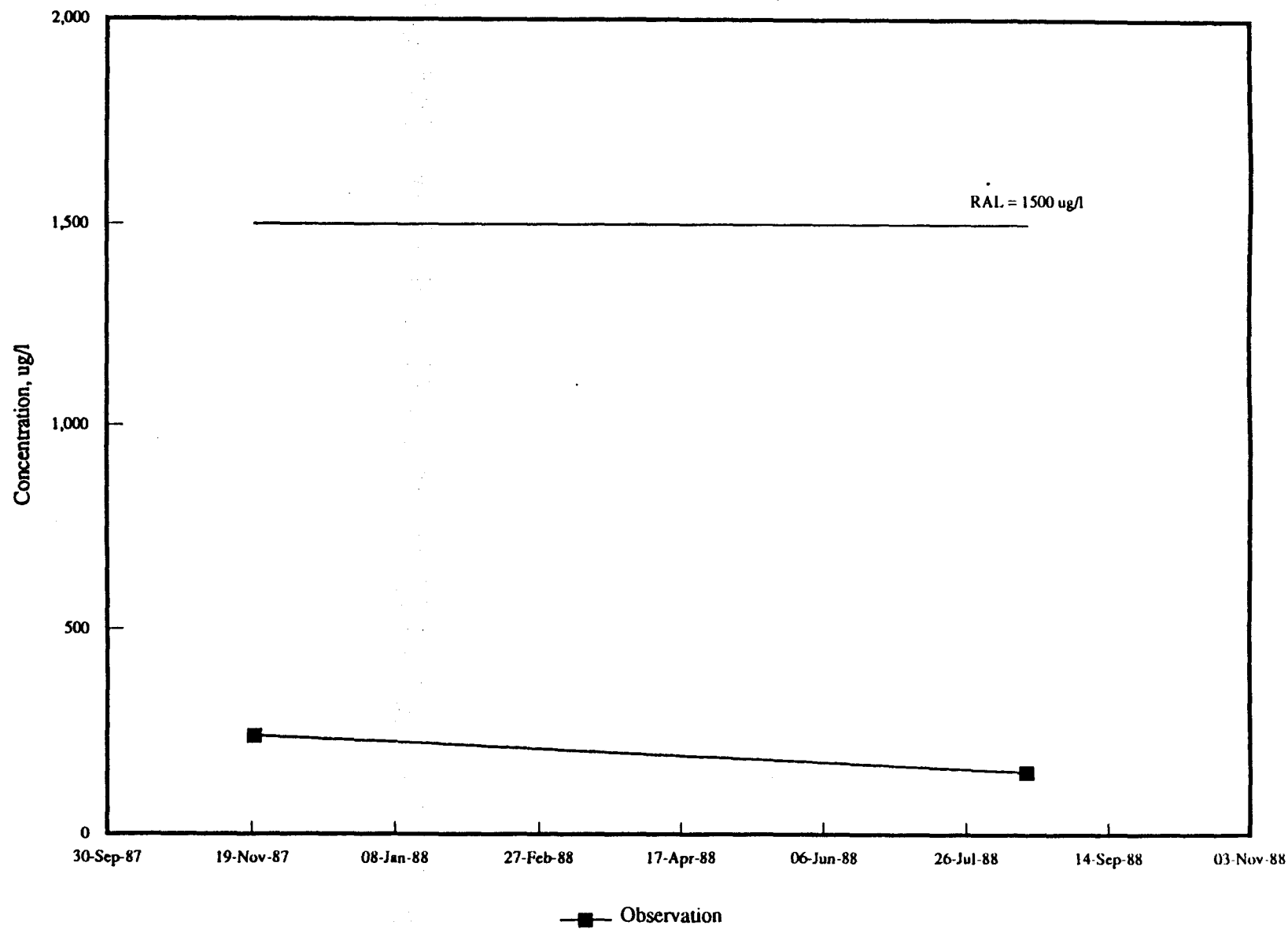
1,1,2-TRICHLOROETHANE - WELL 03U027



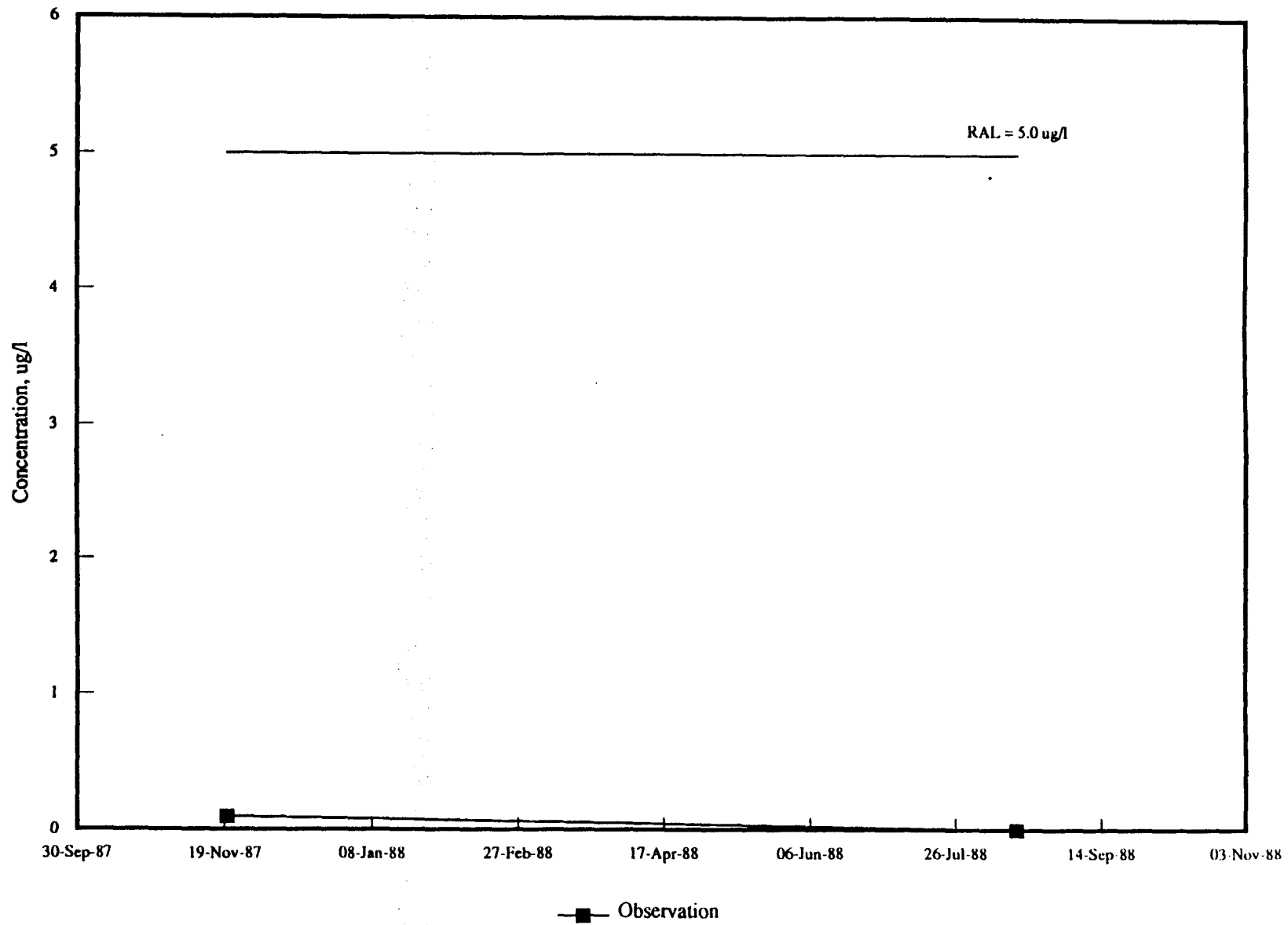
1,2-DICHLOROETHENE - WELL 03U027



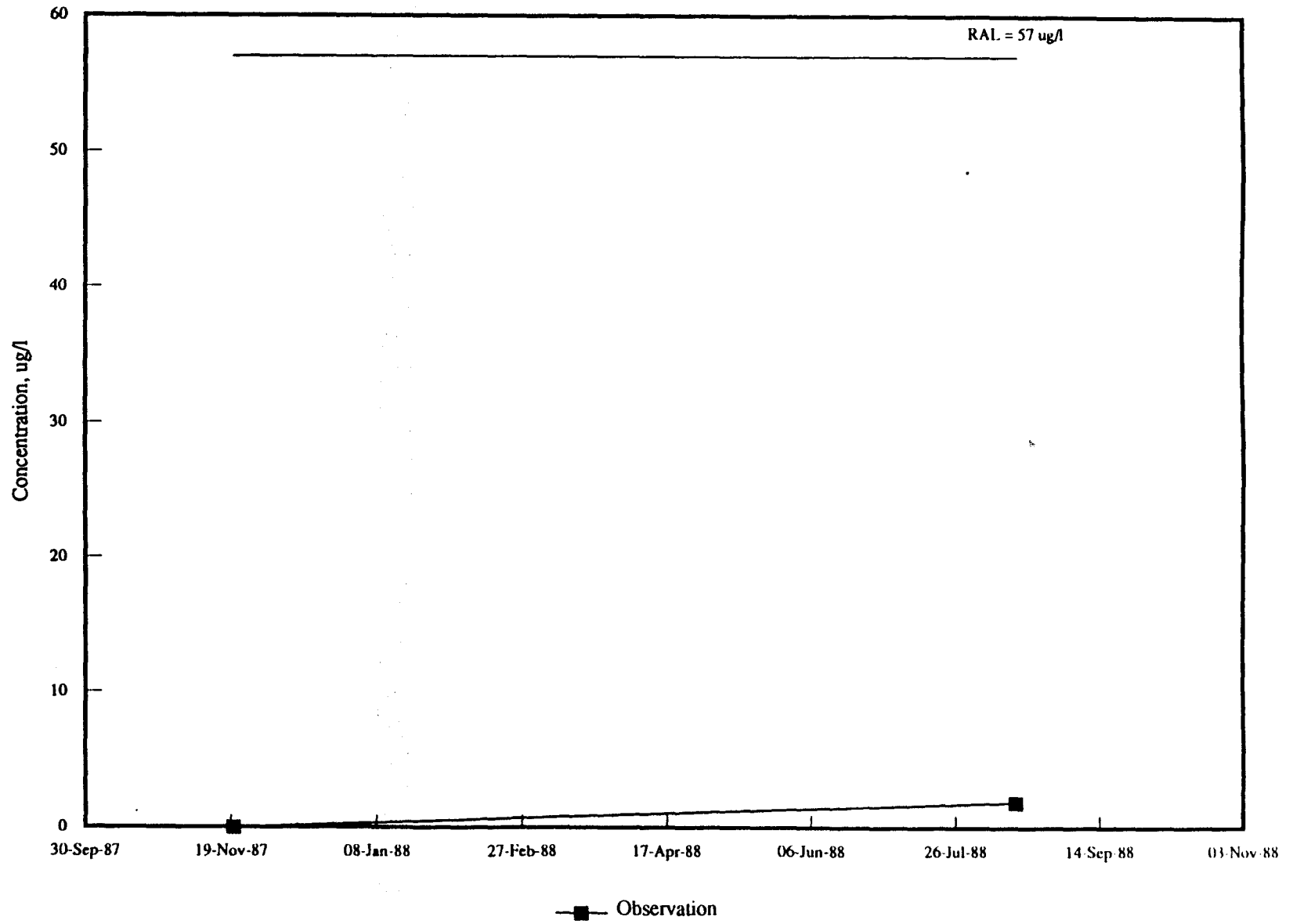
BARIUM - WELL 03U027



CADMIUM - WELL 03U027

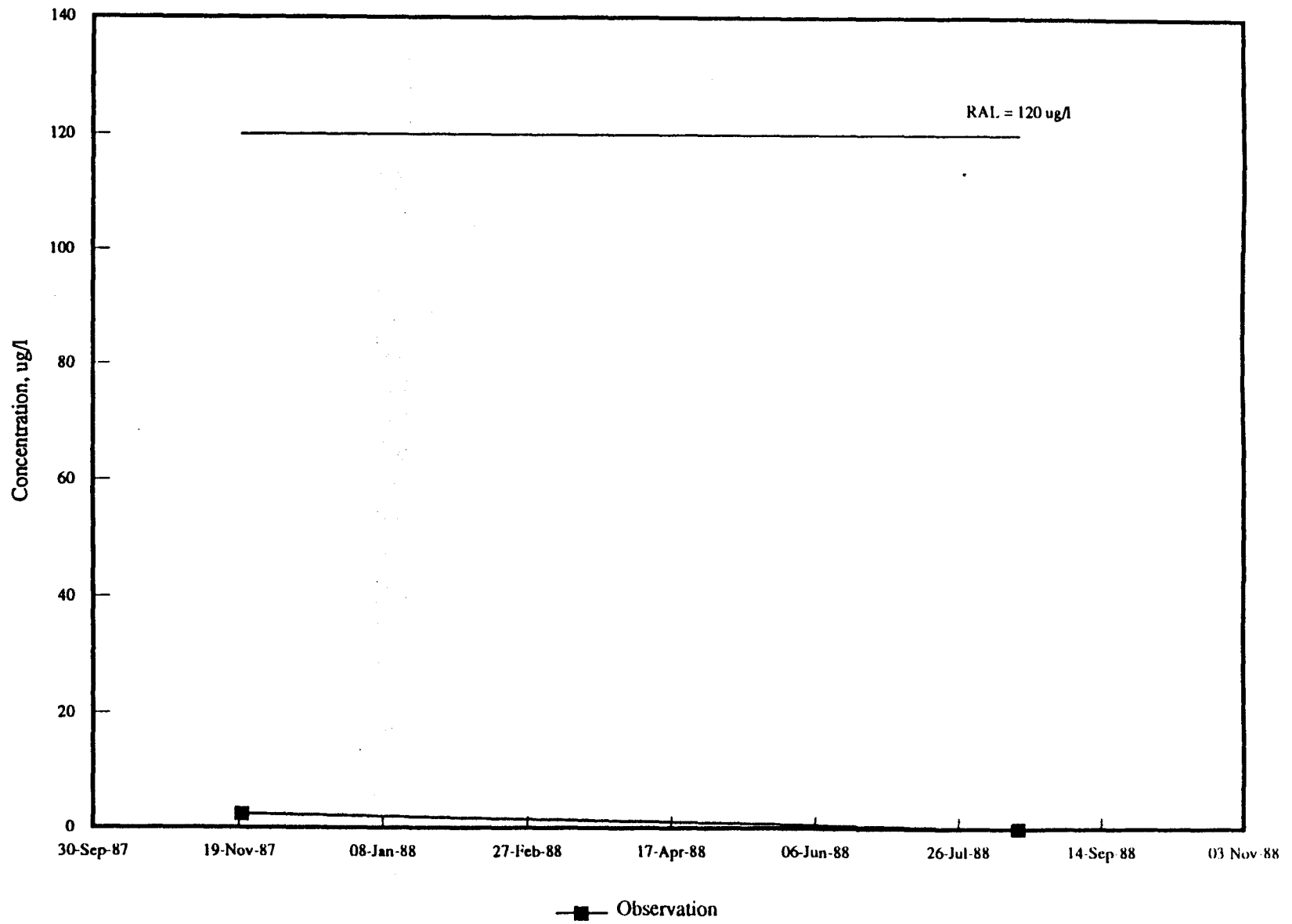


CHLOROFORM - WELL 03U027

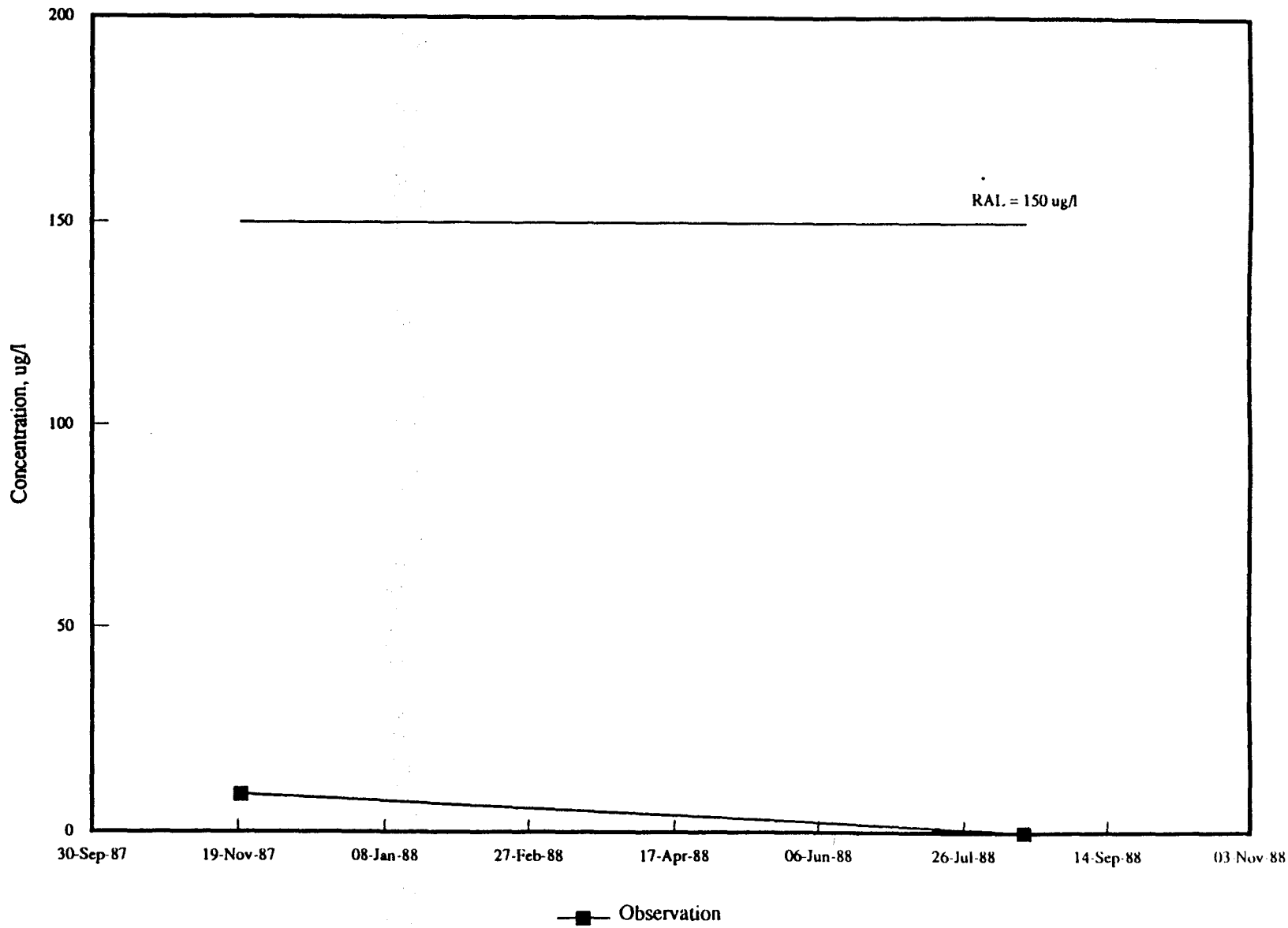




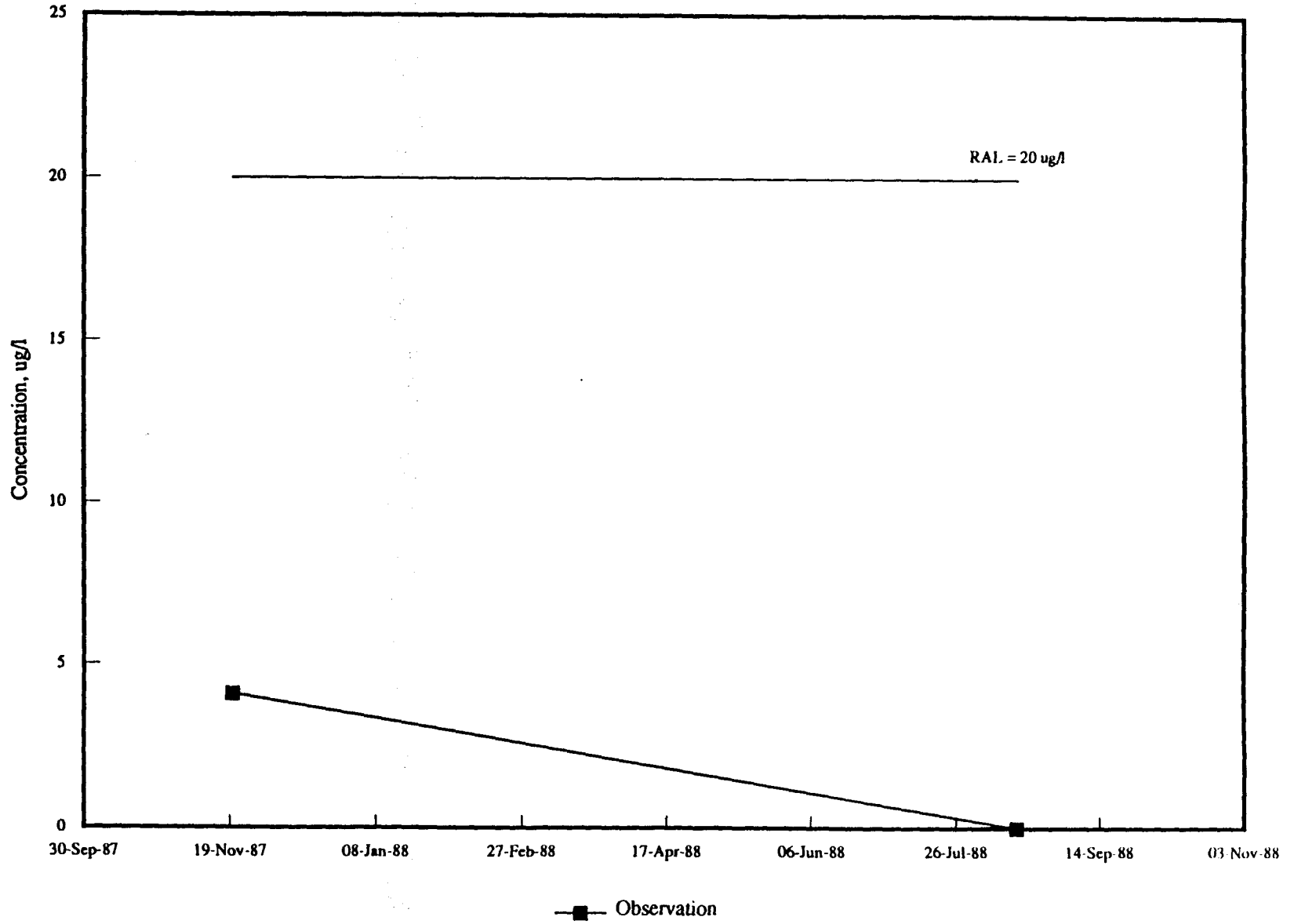
CHROMIUM - WELL 03U027



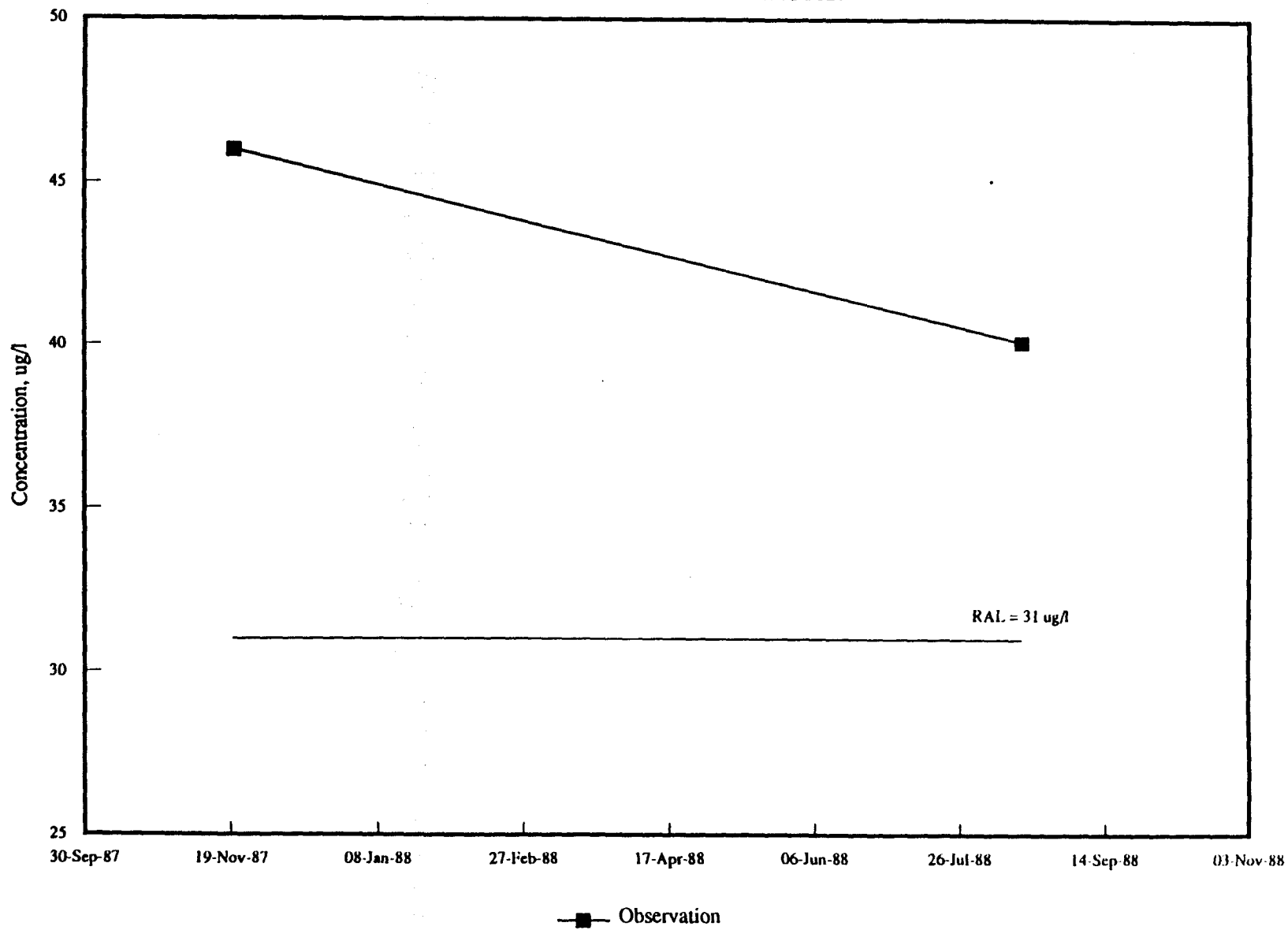
NICKEL - WELL 03U027



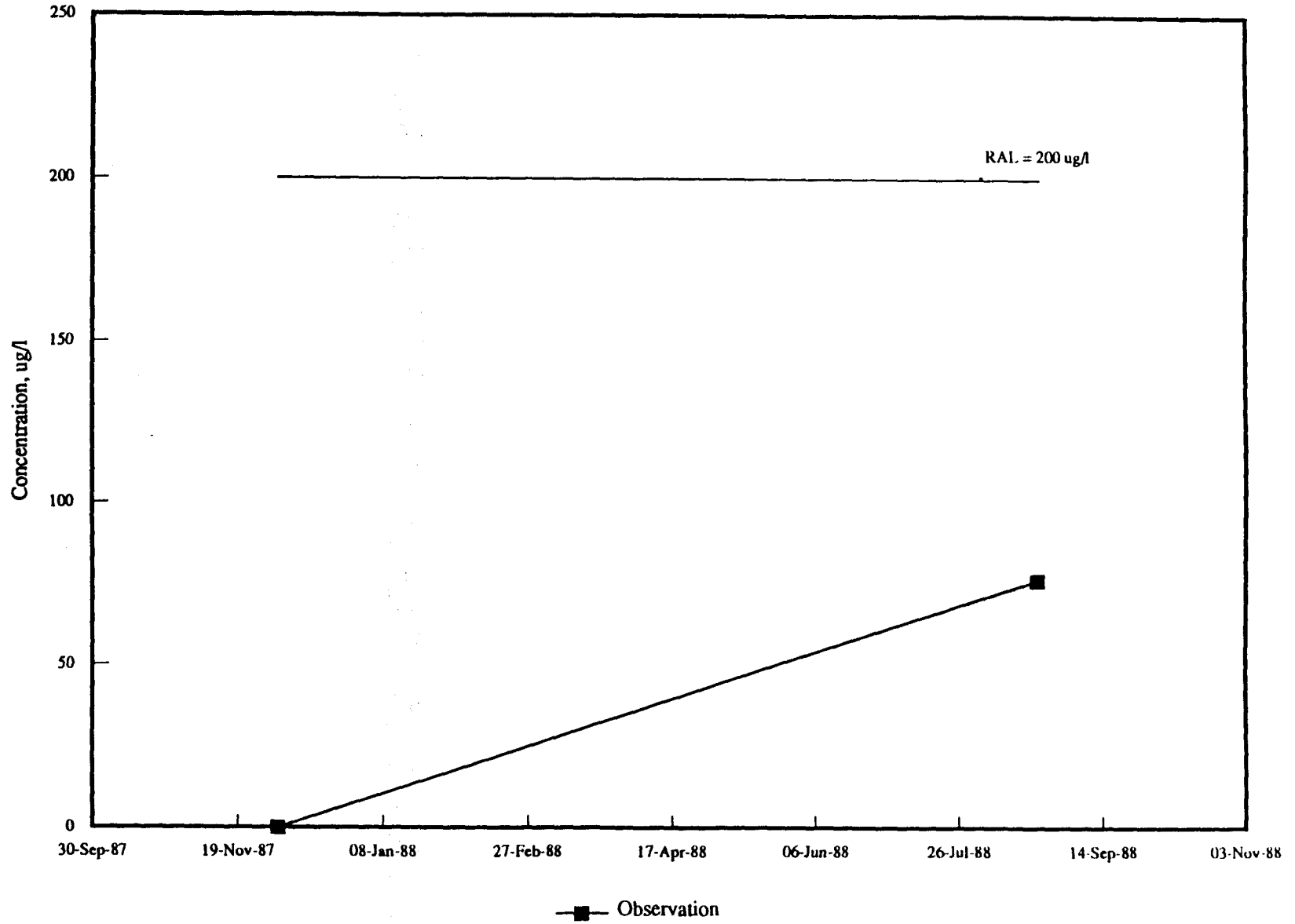
LEAD - WELL 03U027



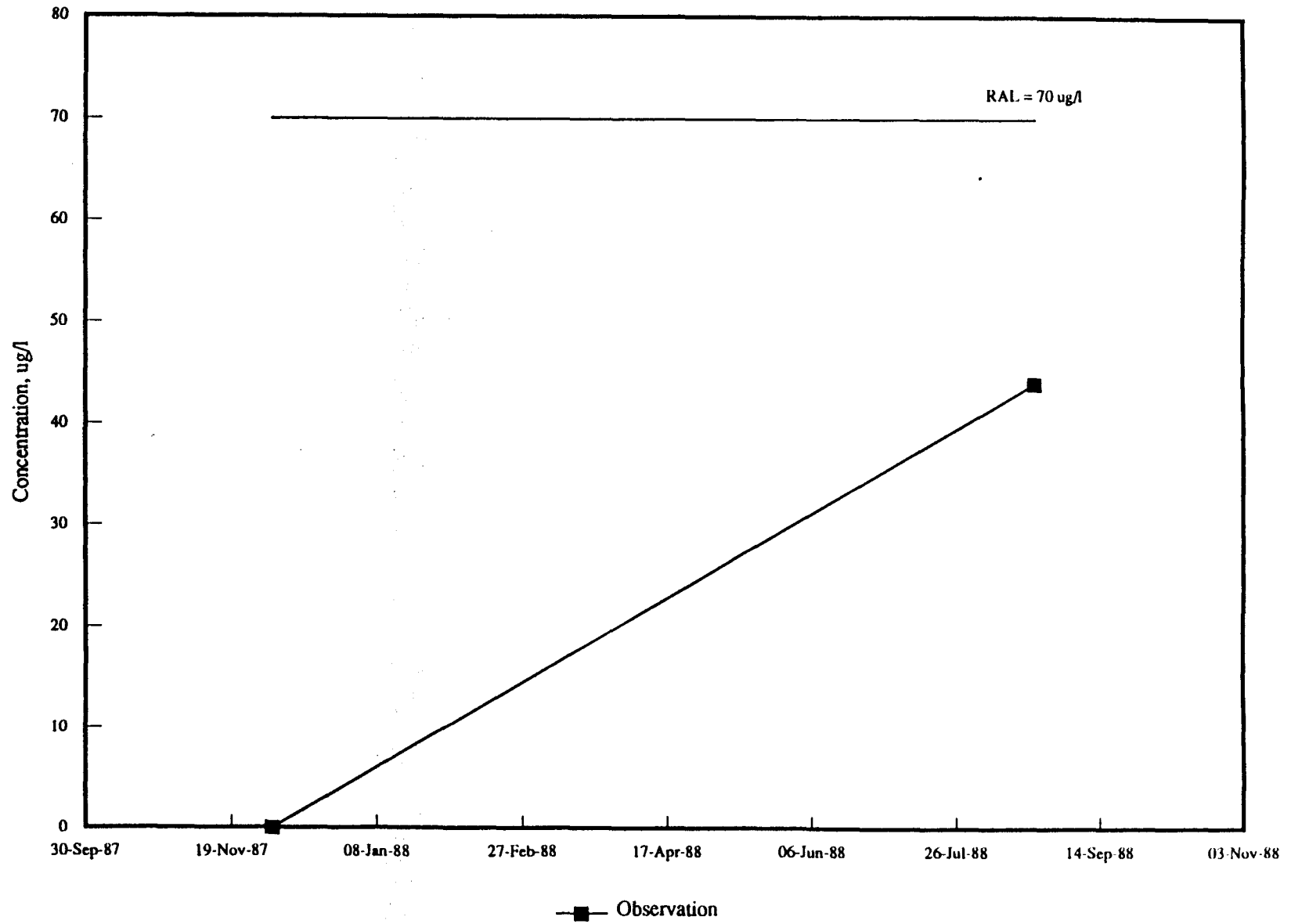
TRICHLOROETHENE - WELL 03U027



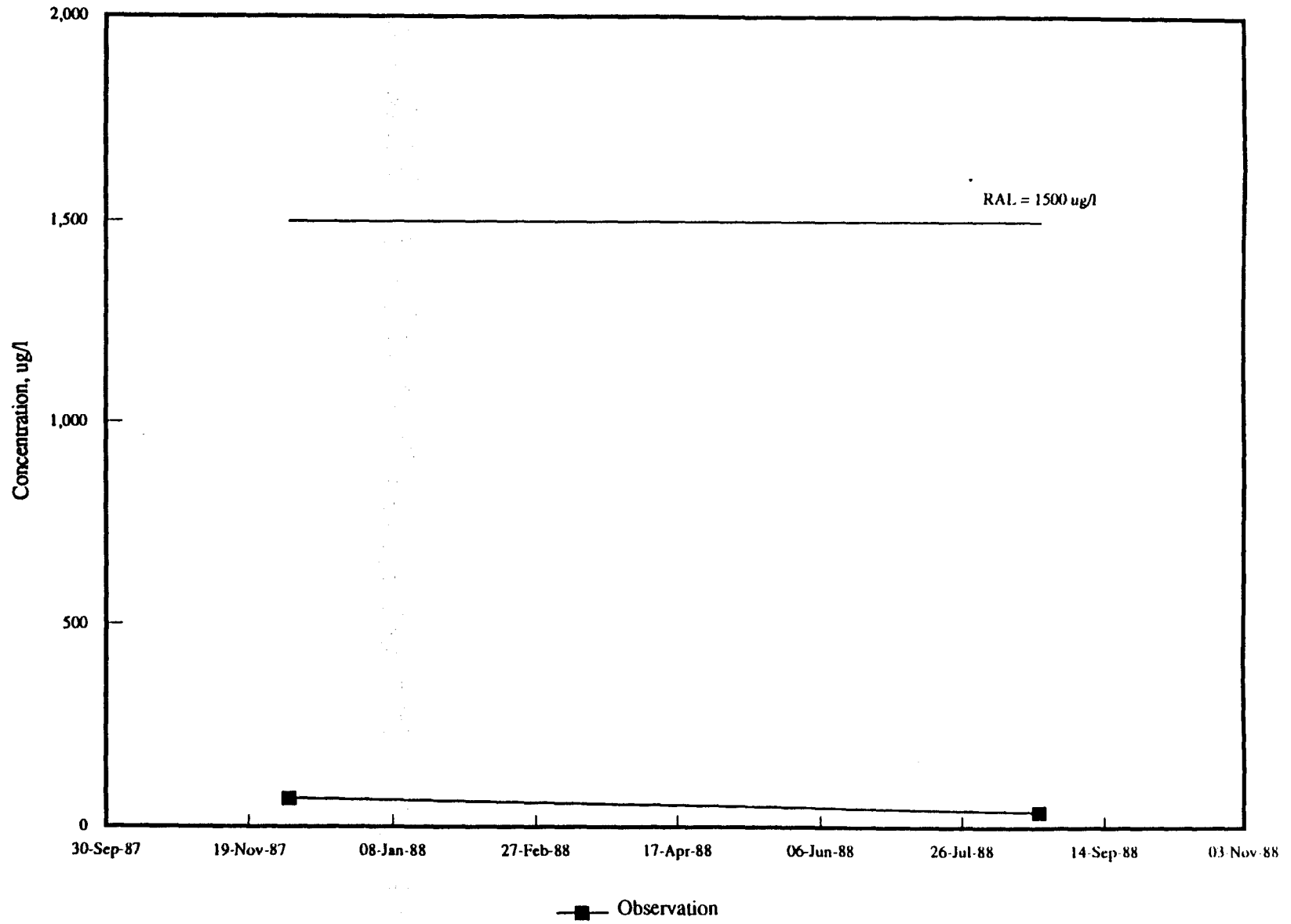
1,1,1-TRICHLOROETHANE - WELL 03U028



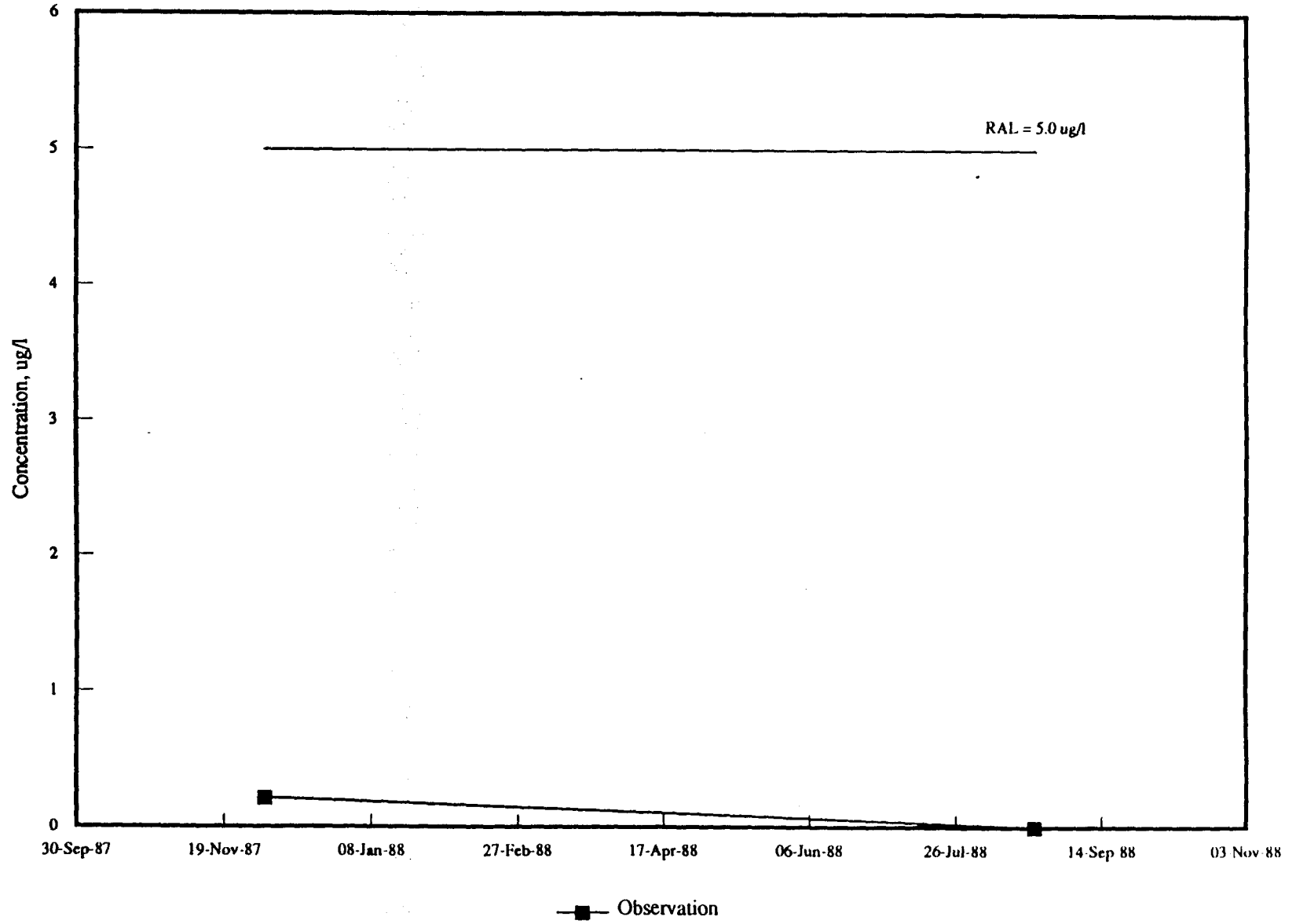
1,2-DICHLOROETHENE - WELL 03U028



BARIUM - WELL 03U028

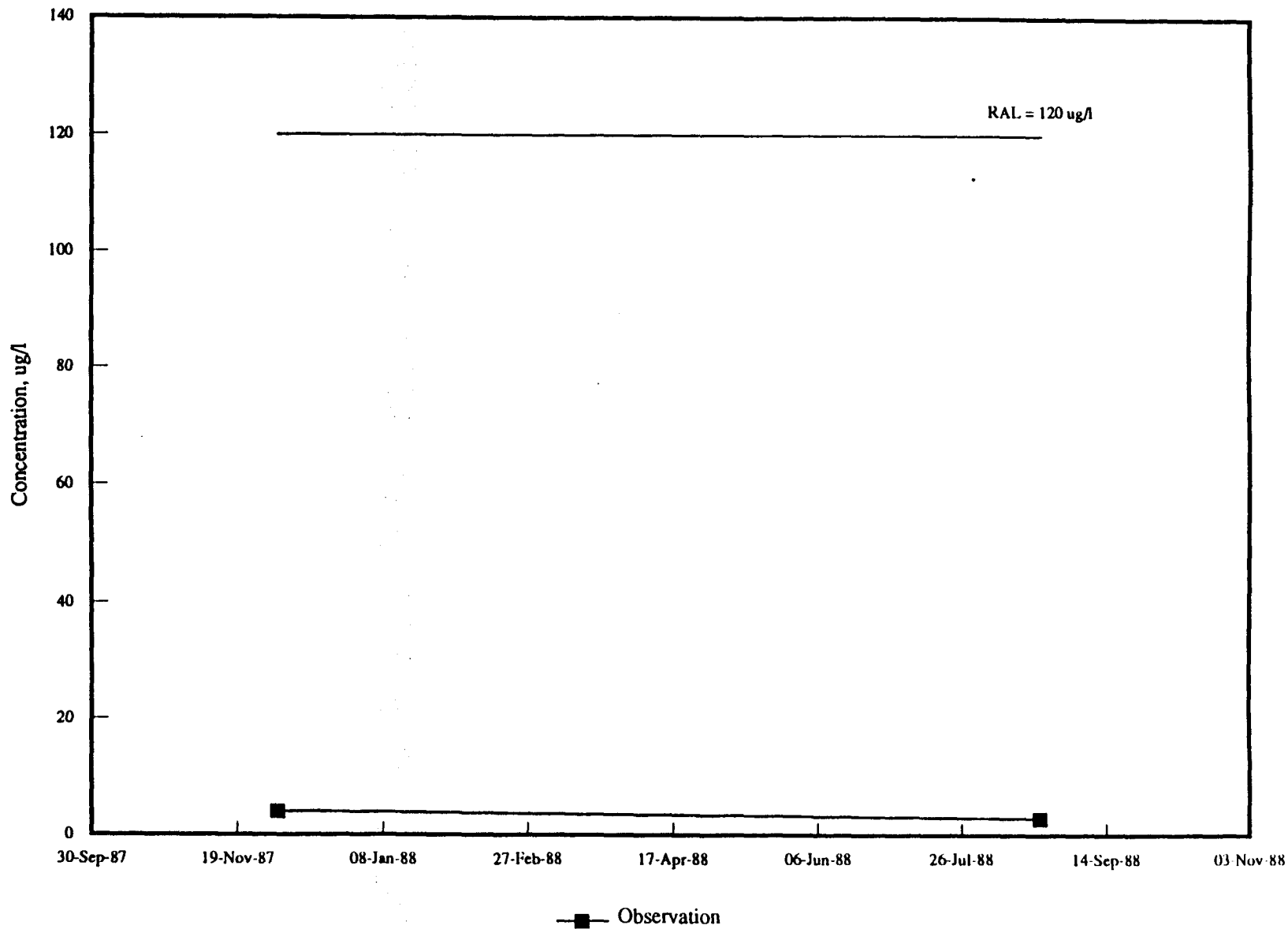


CADMIUM - WELL 03U028

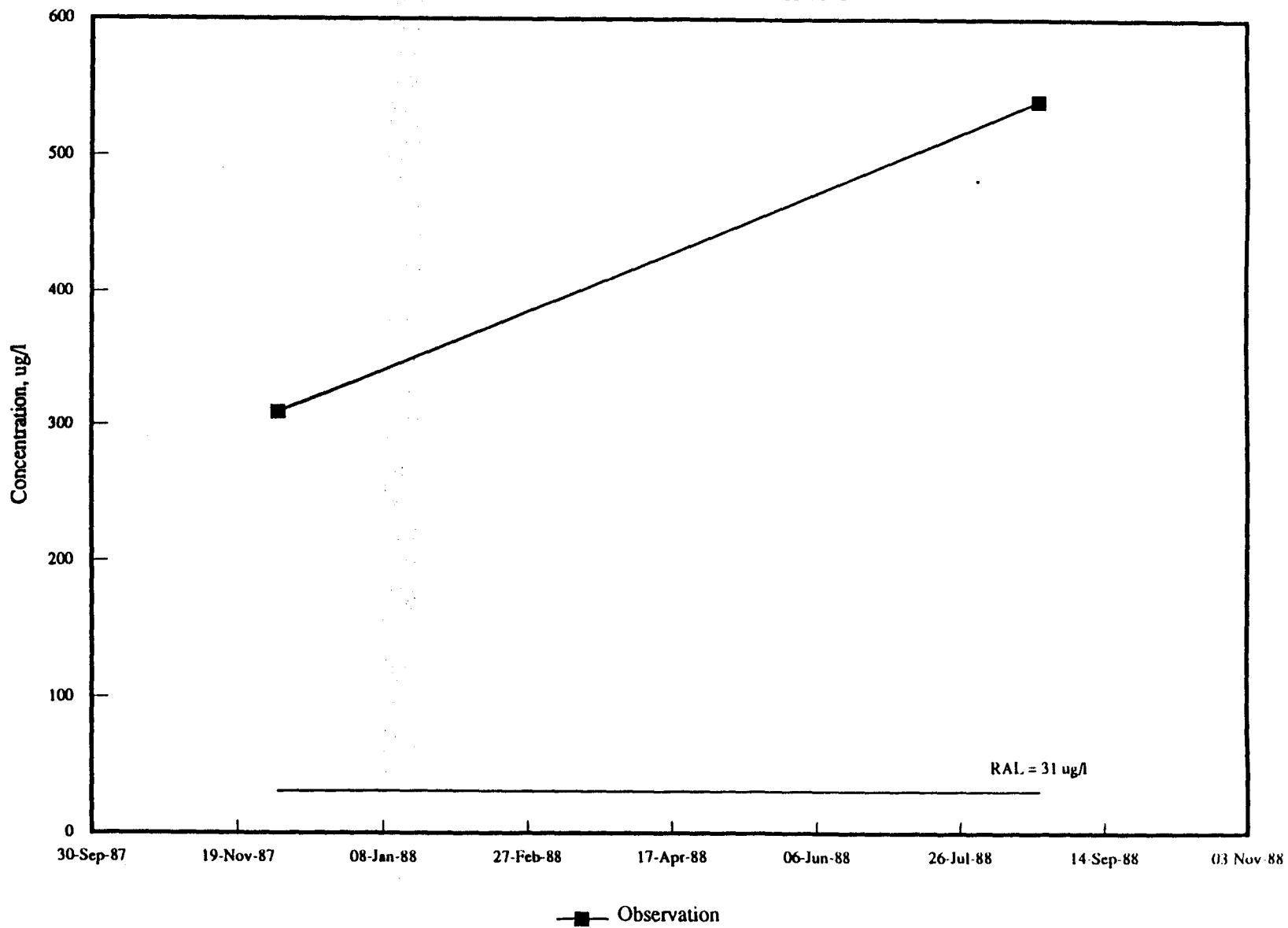




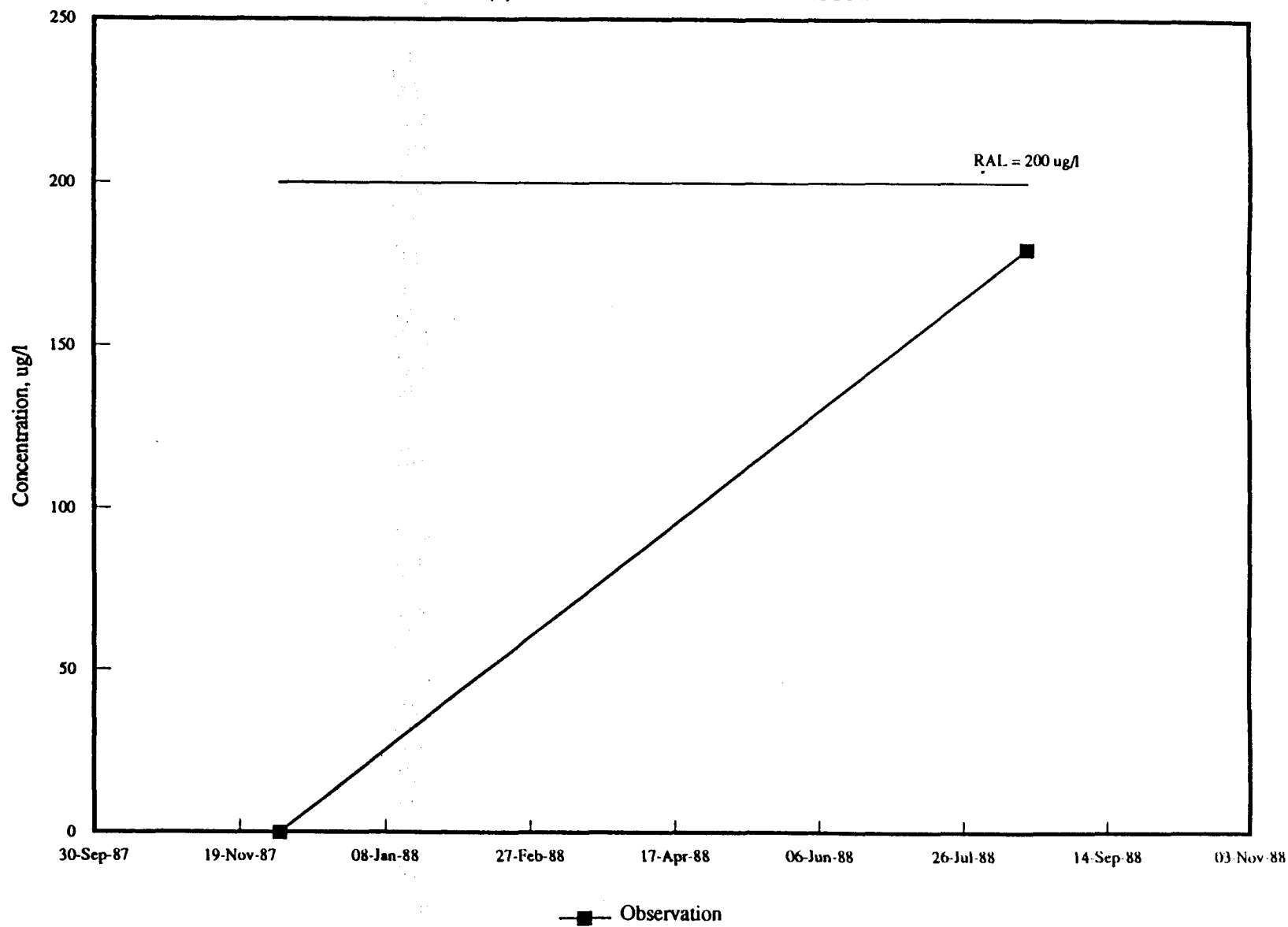
CHROMIUM - WELL 03U028



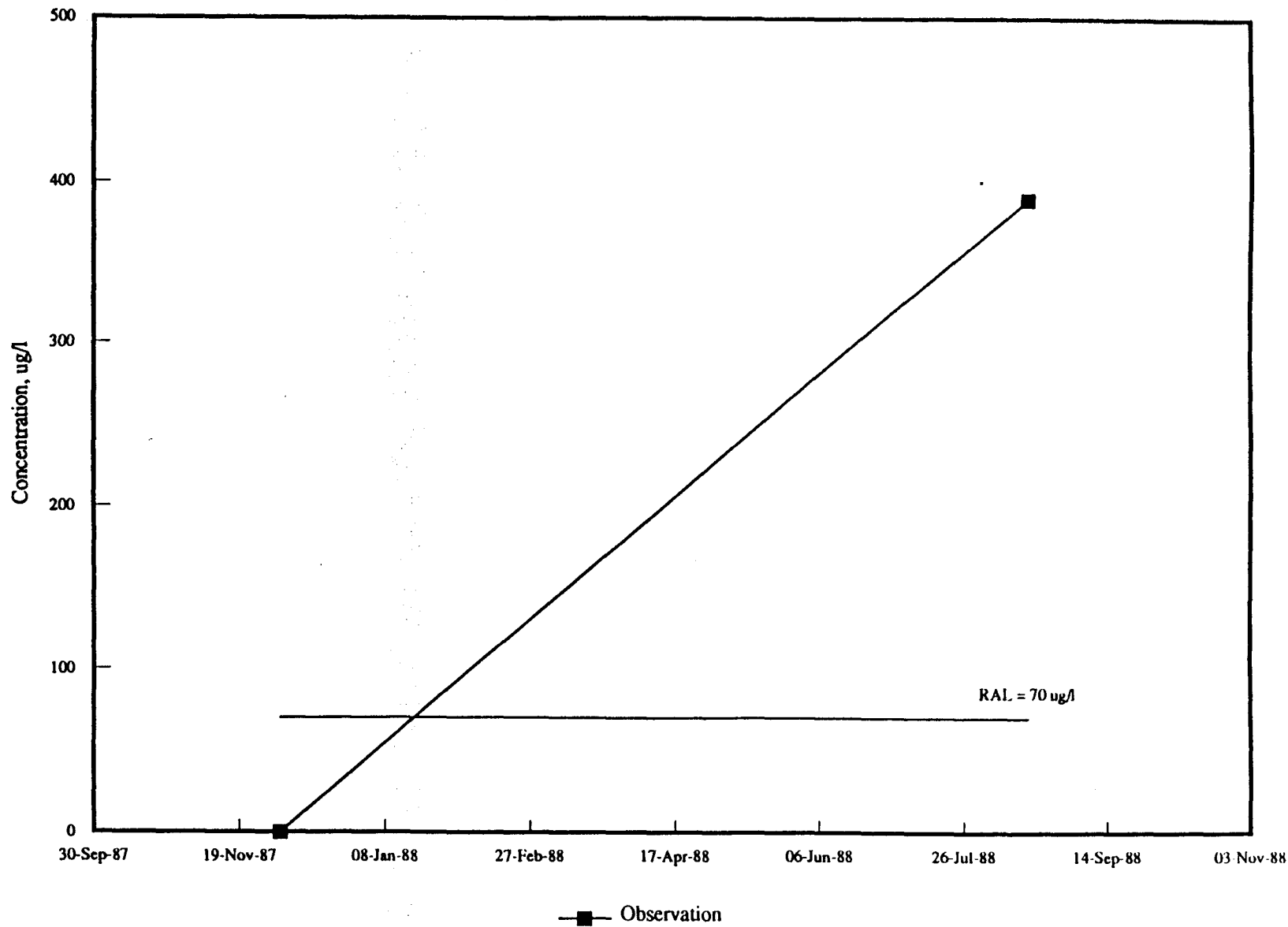
TRICHLOROETHENE - WELL 03U028



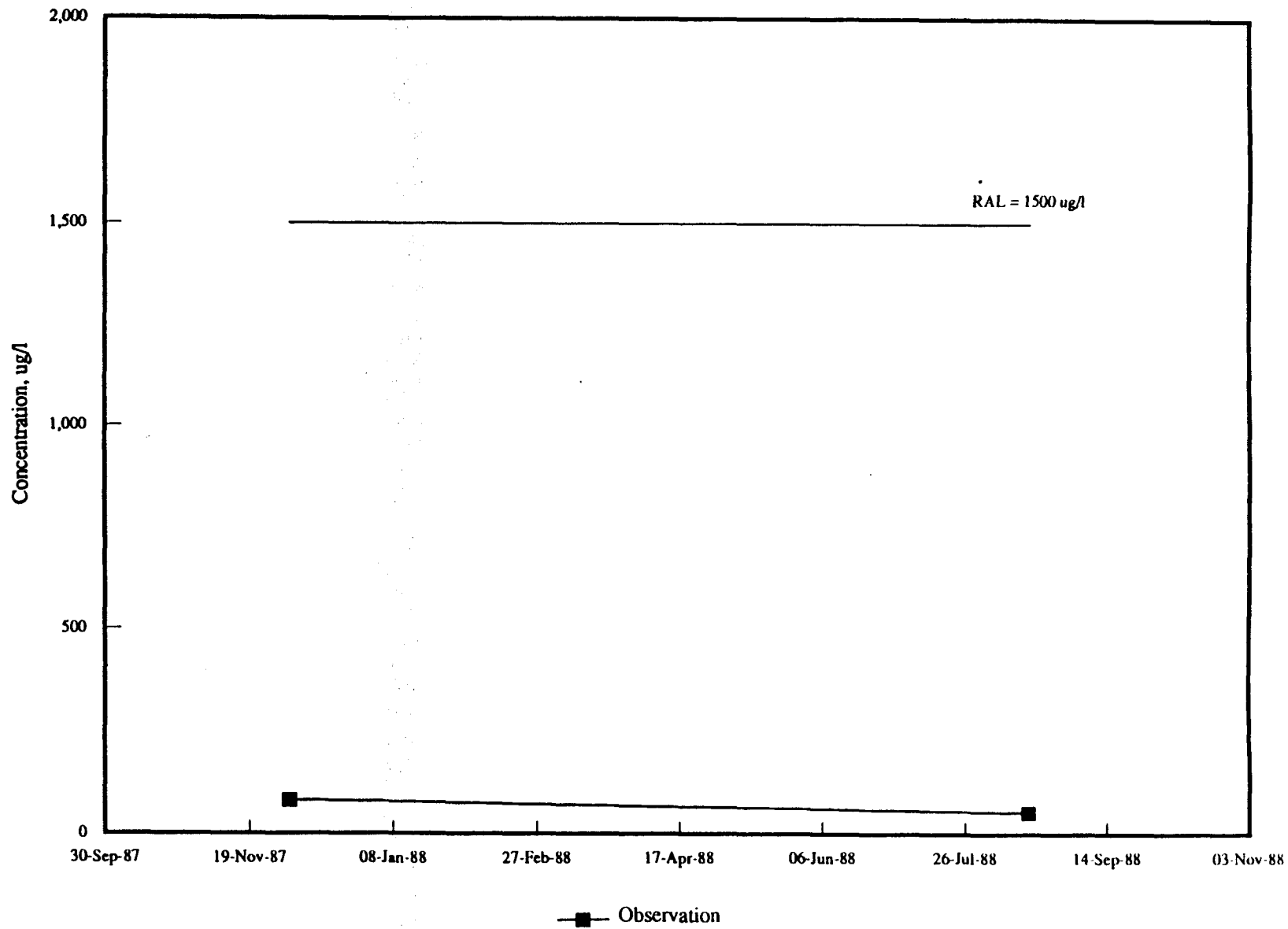
1,1,1-TRICHLOROETHANE - WELL 03U029



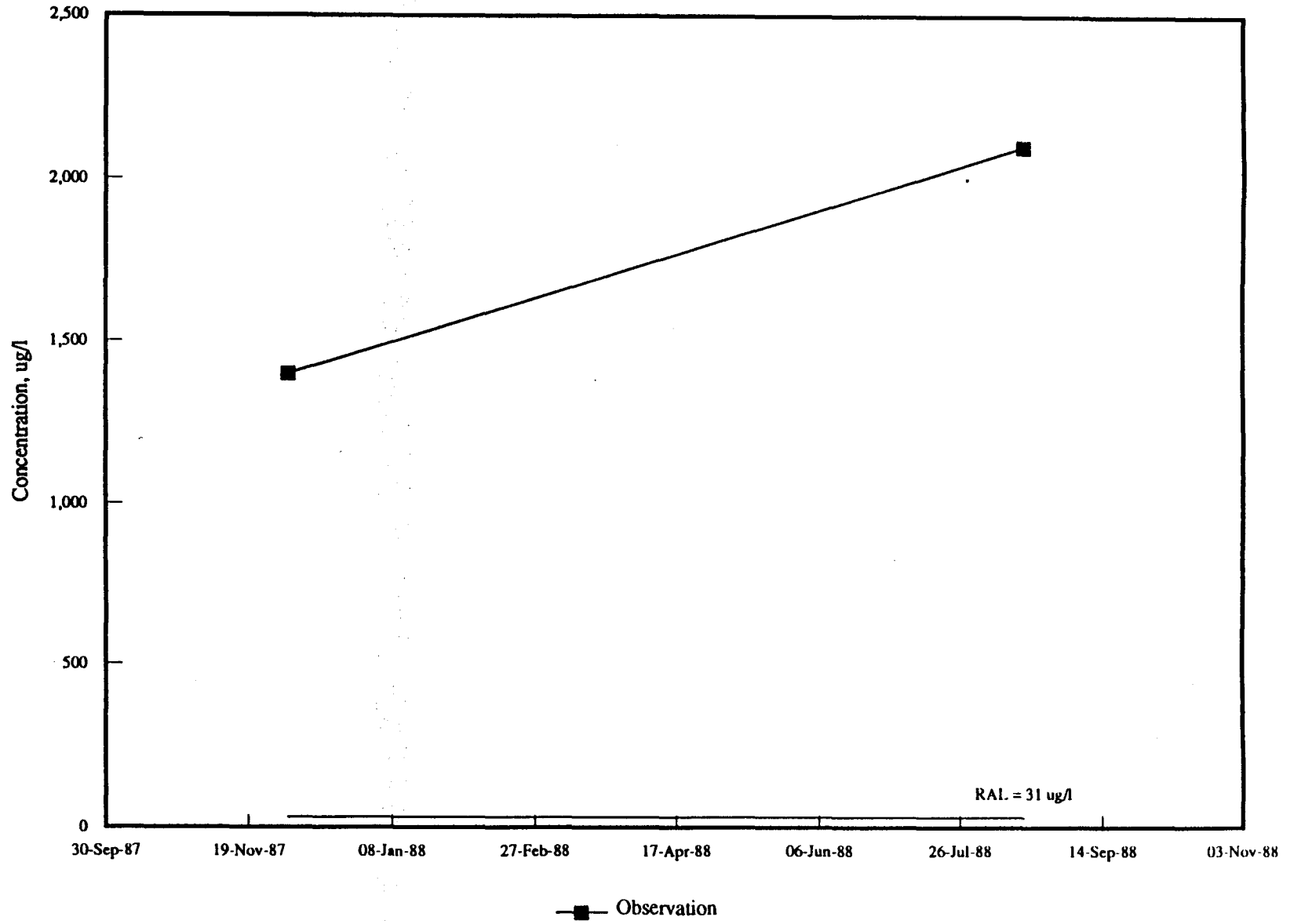
1,2-DICHLOROETHENE - WELL 03U029



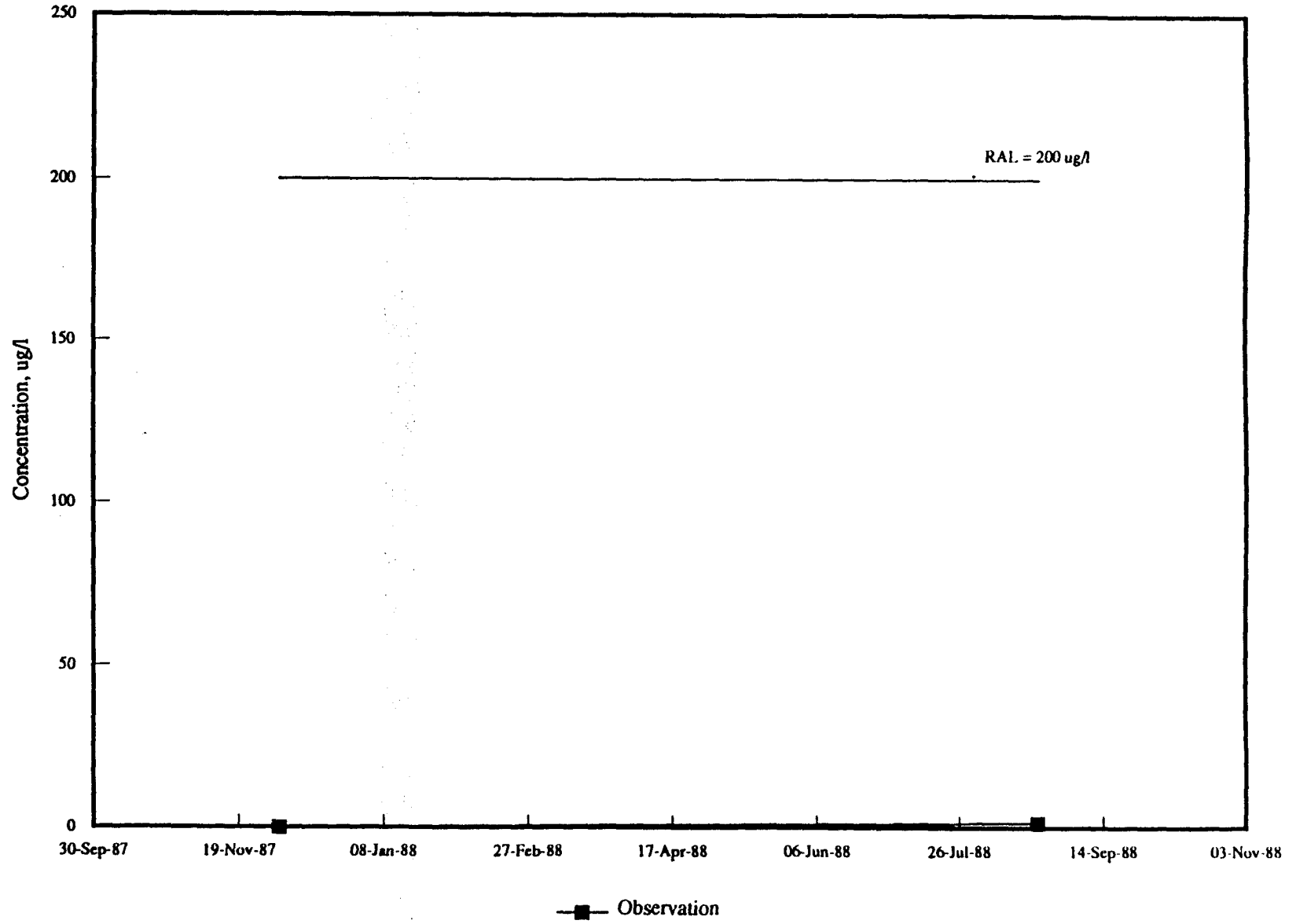
BARIUM - WELL 03U029



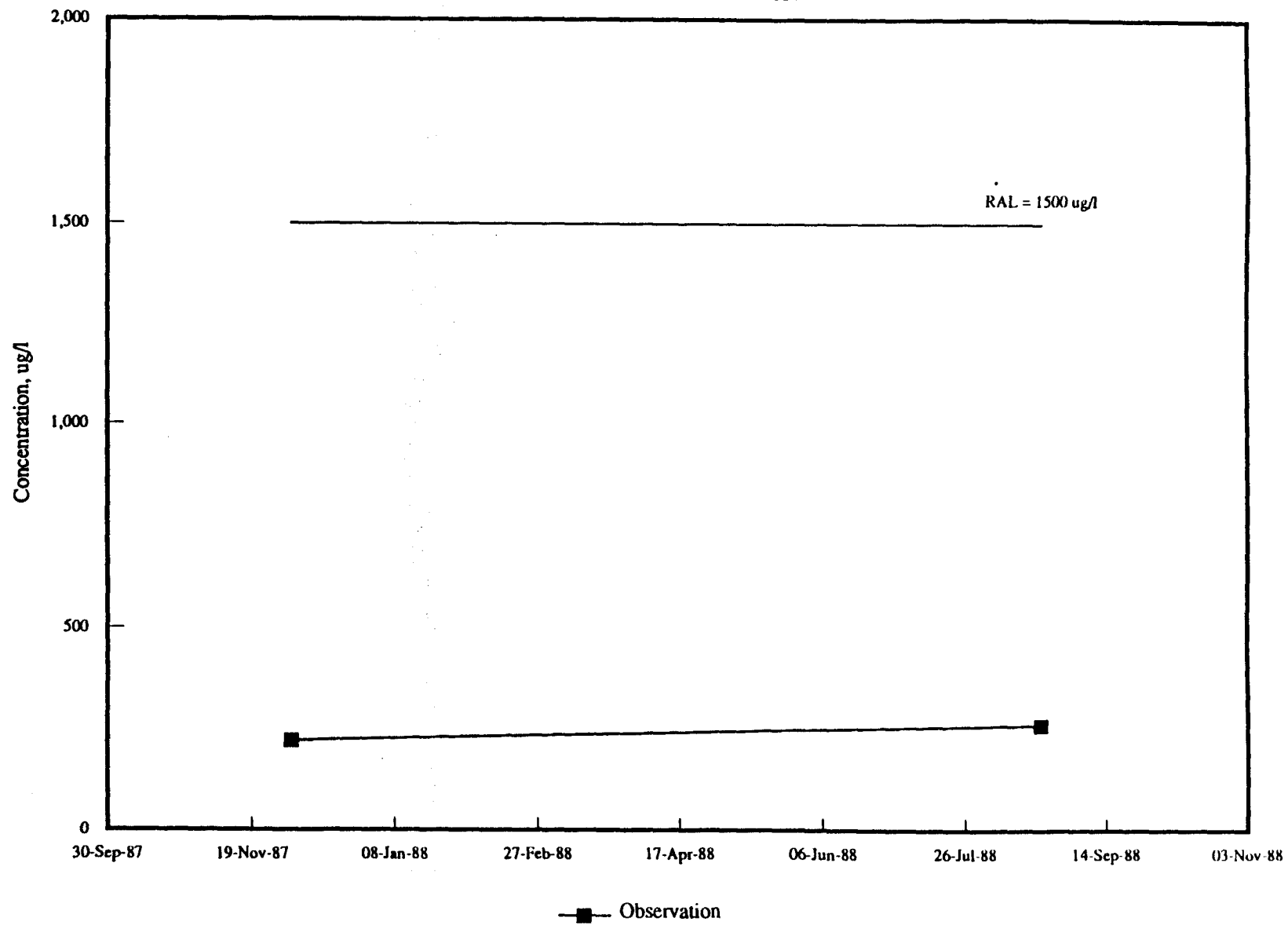
TRICHLOROETHENE - WELL 03U029



1,1,1-TRICHLOROETHANE - WELL 03U030

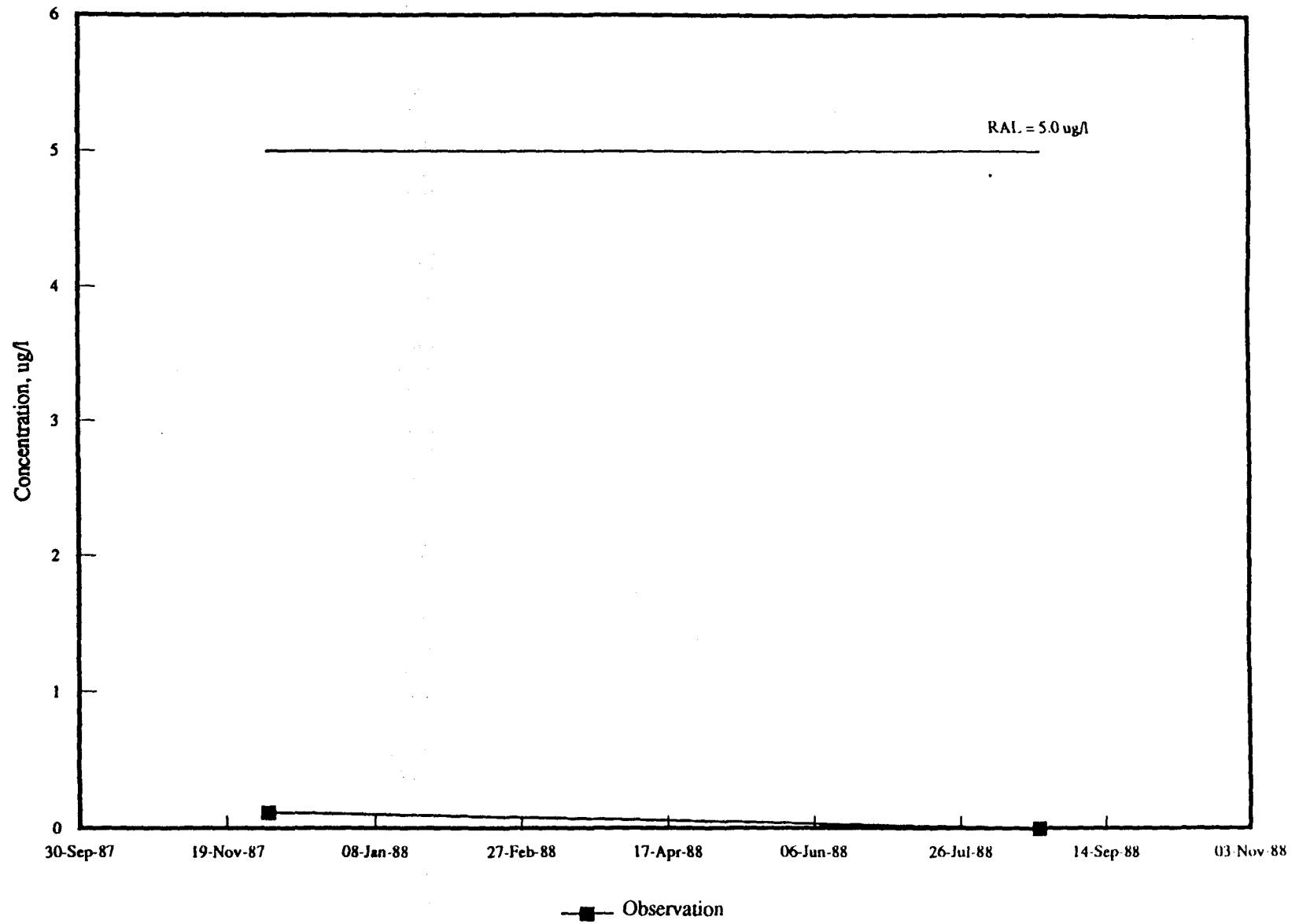


BARIUM - WELL 03U030

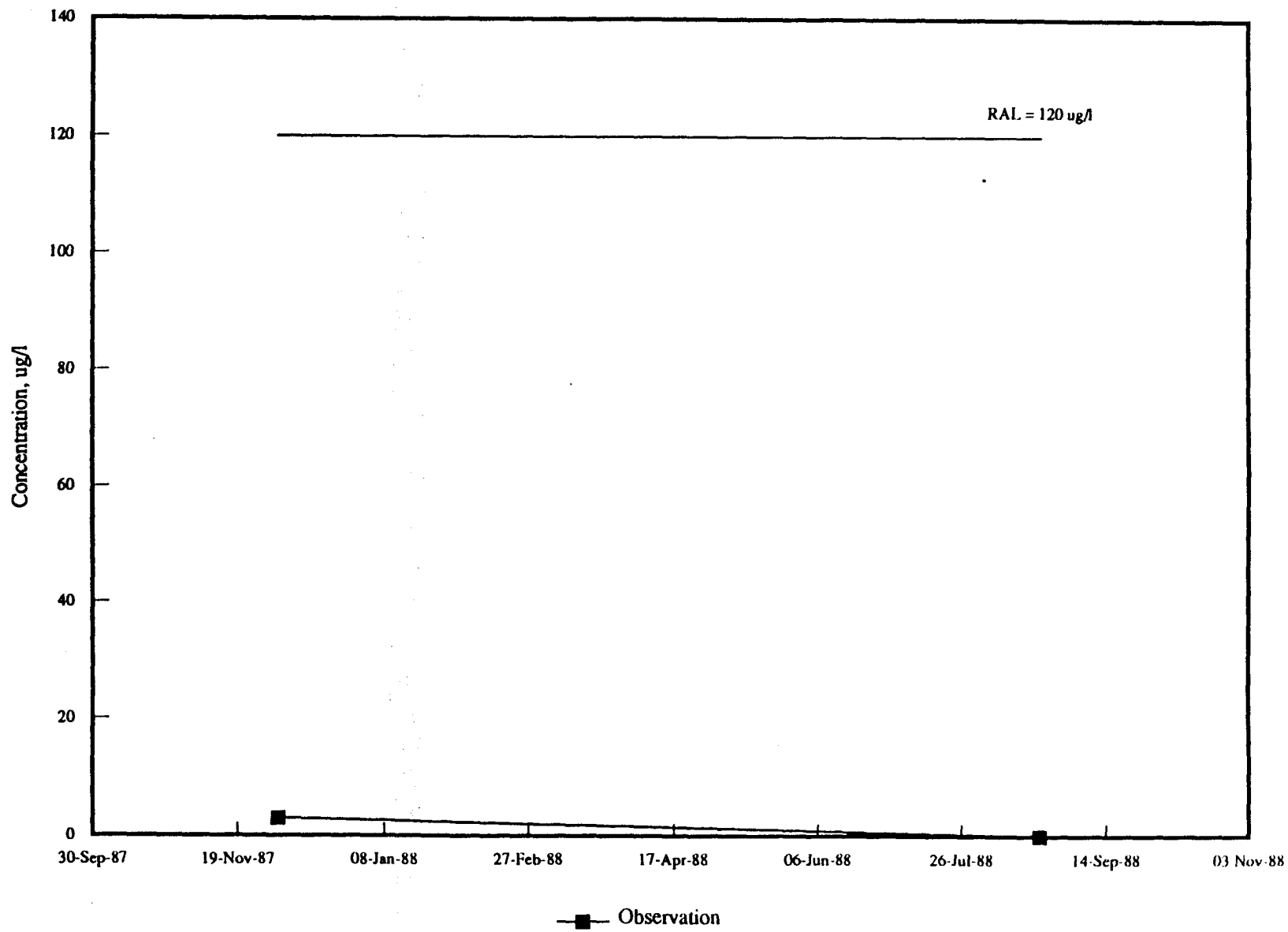




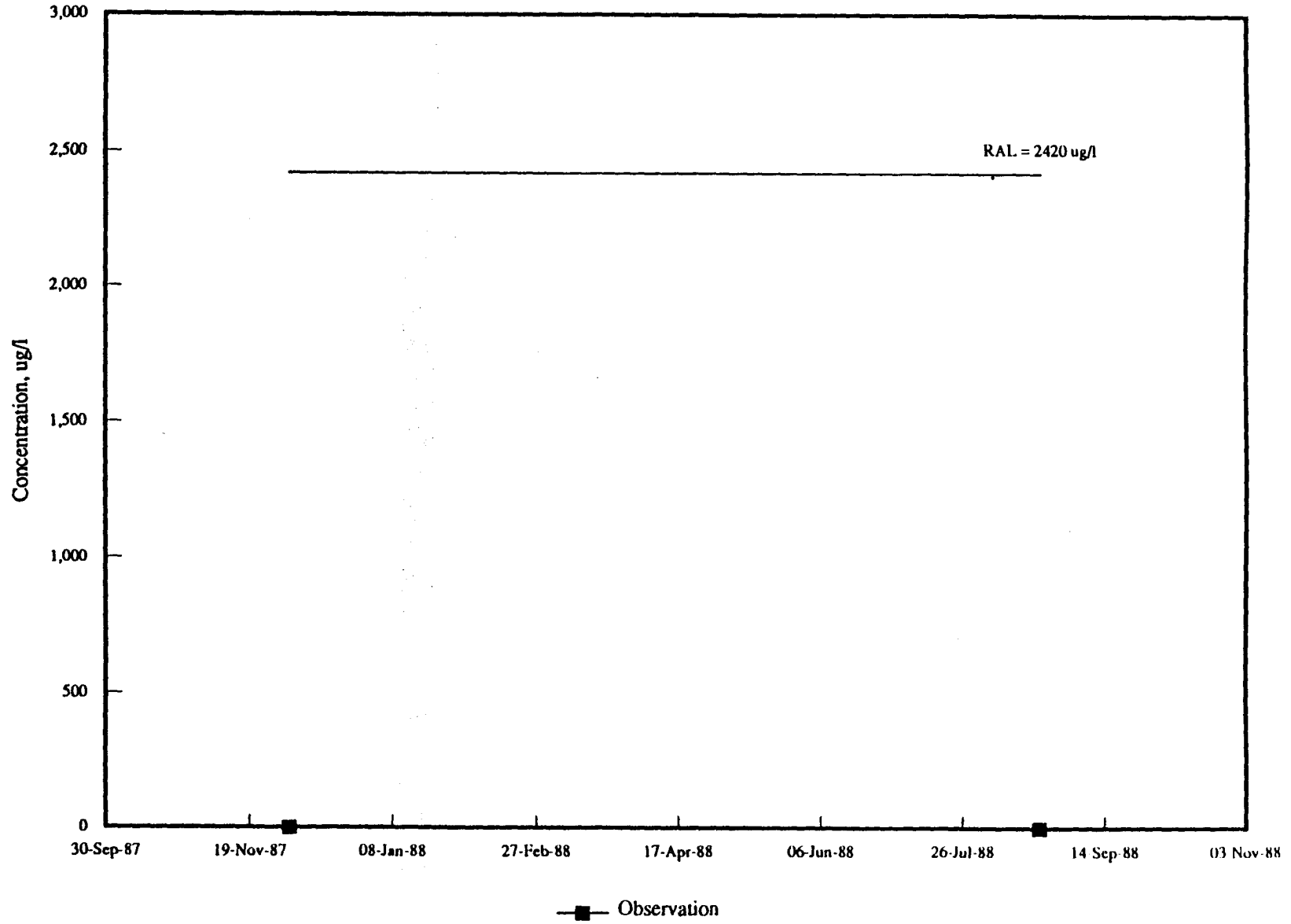
CADMIUM - WELL 03U030



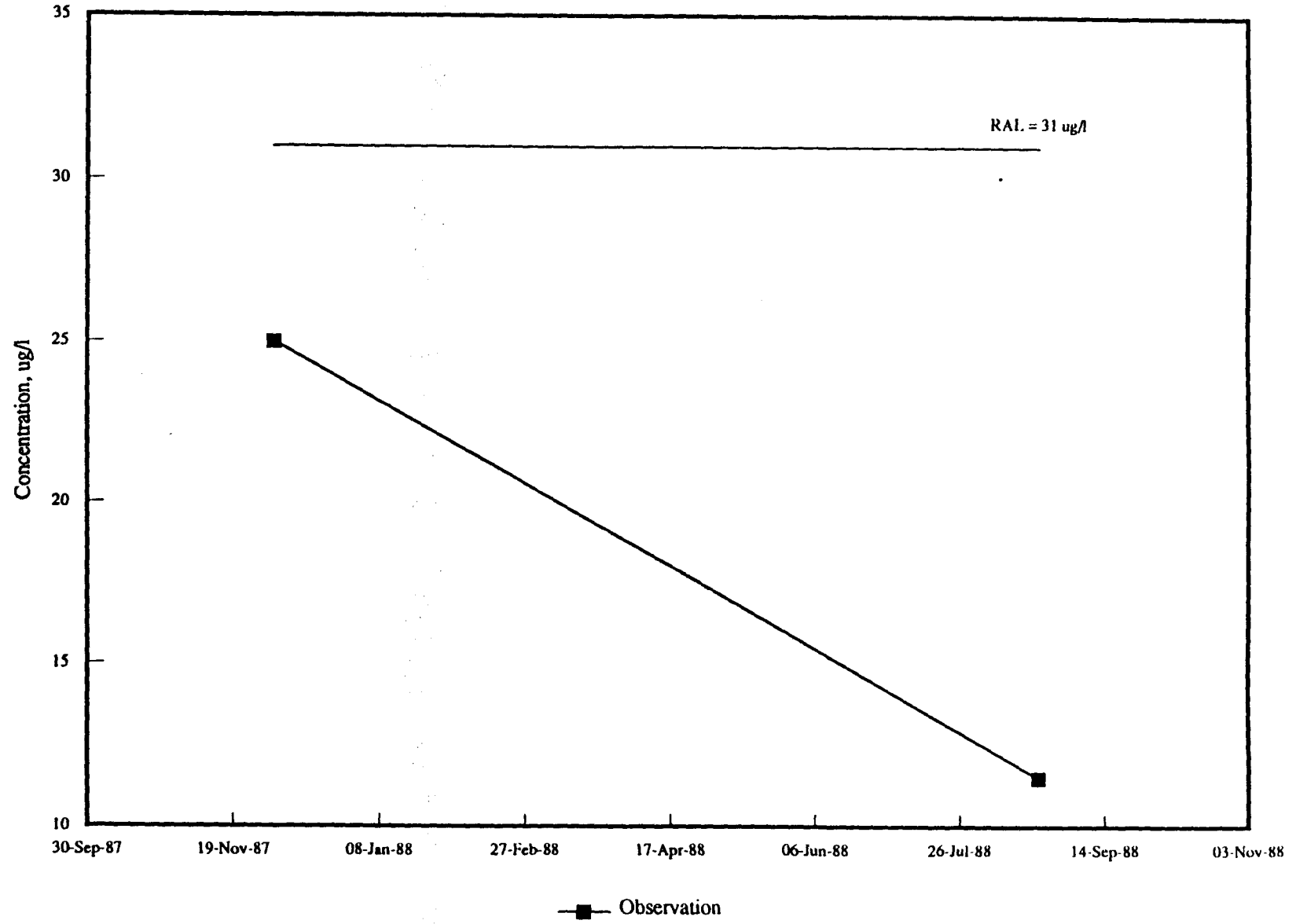
CHROMIUM - WELL 03U030



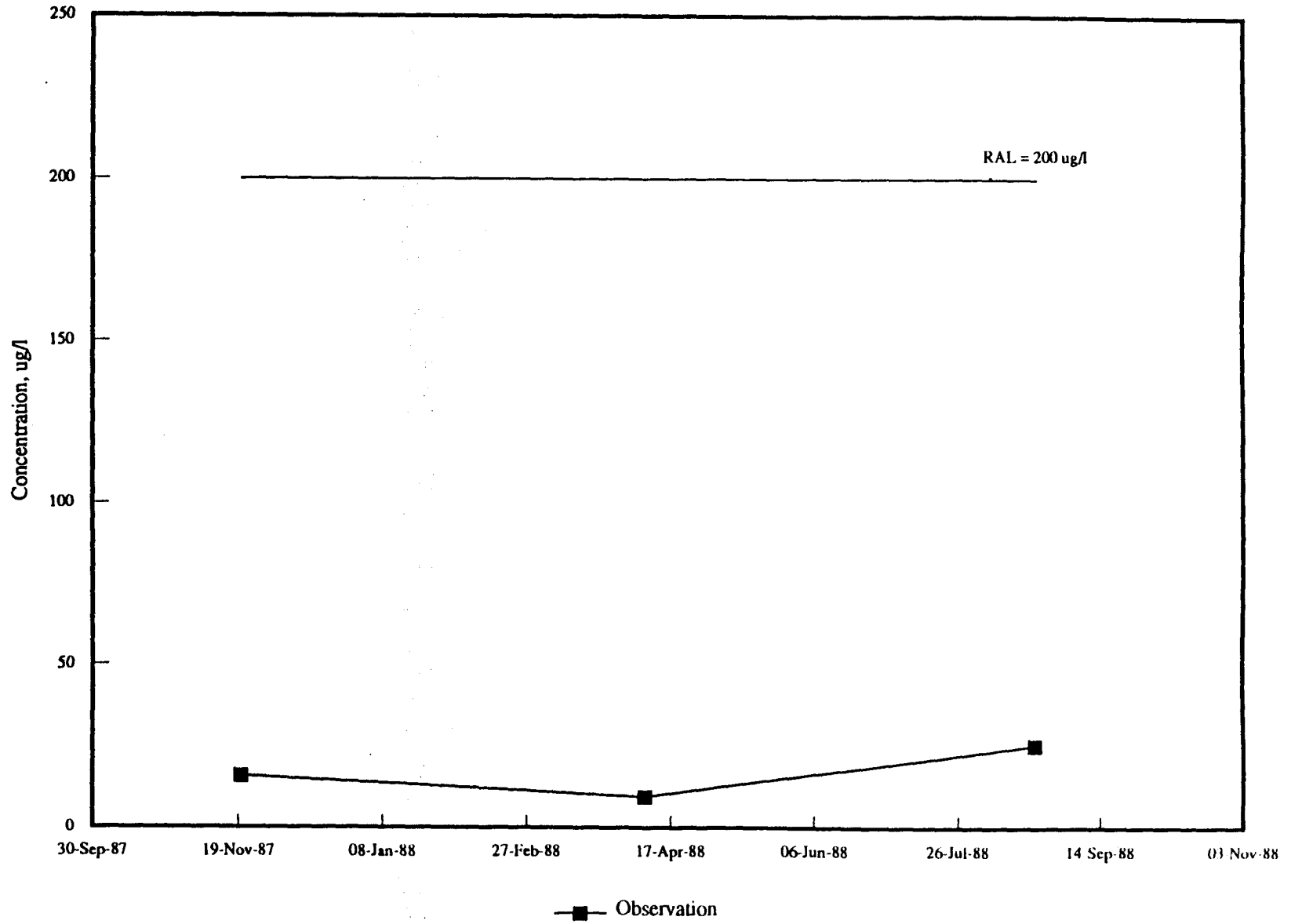
TOLUENE / METHYL BENZENE - WELL 03U030



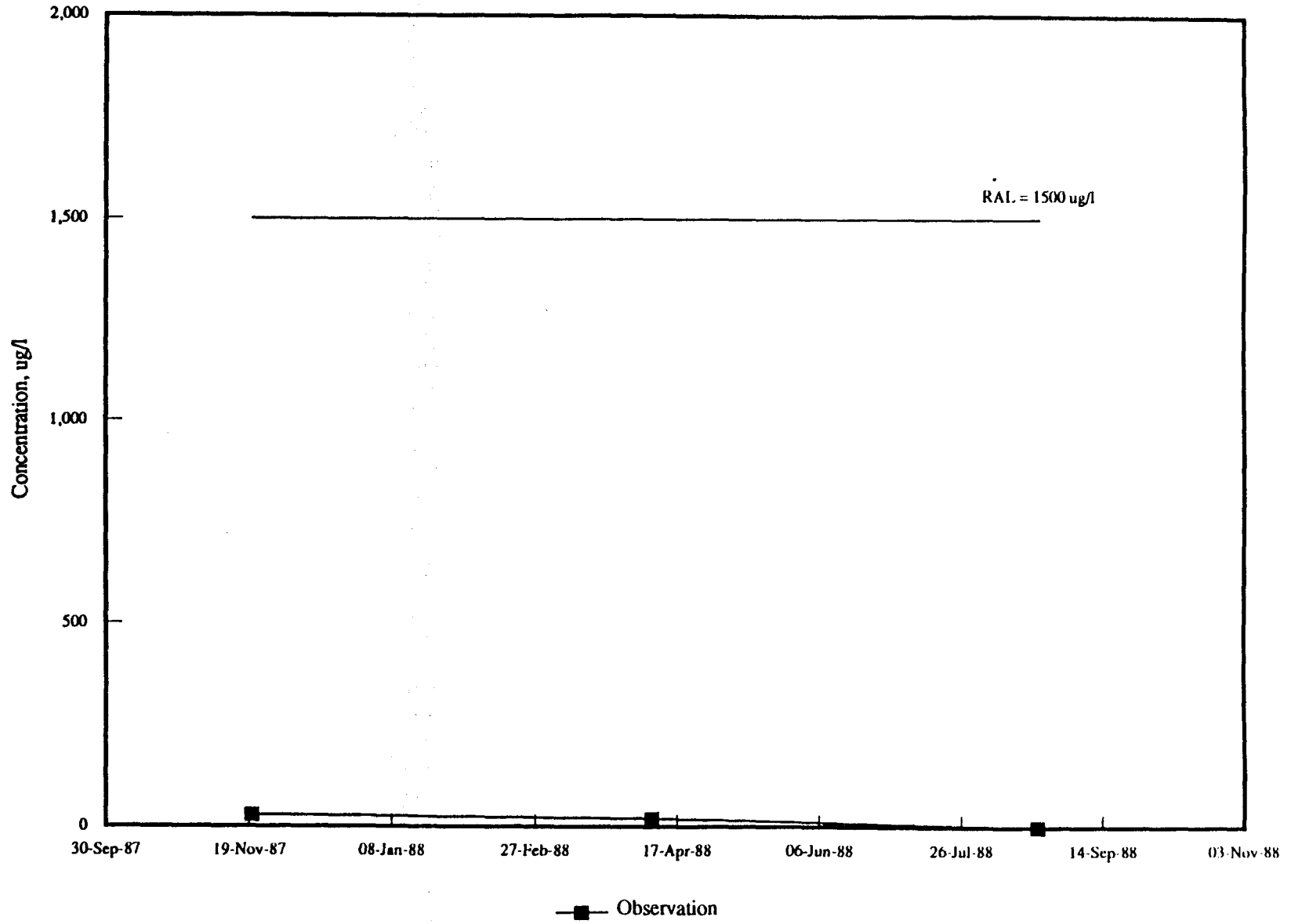
TRICHLOROETHENE - WELL 03U030



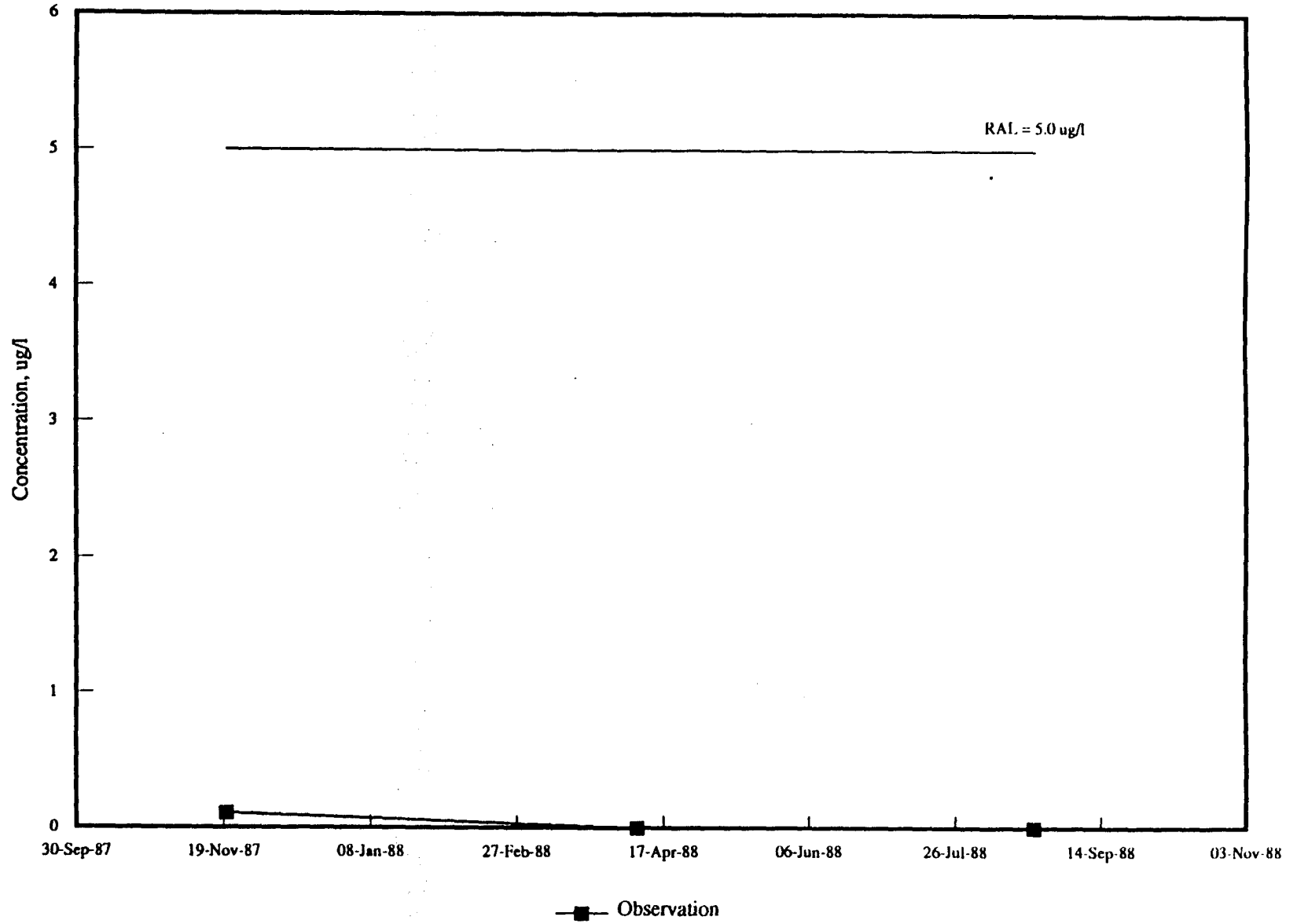
1,1,1-TRICHLOROETHANE - WELL 03U032



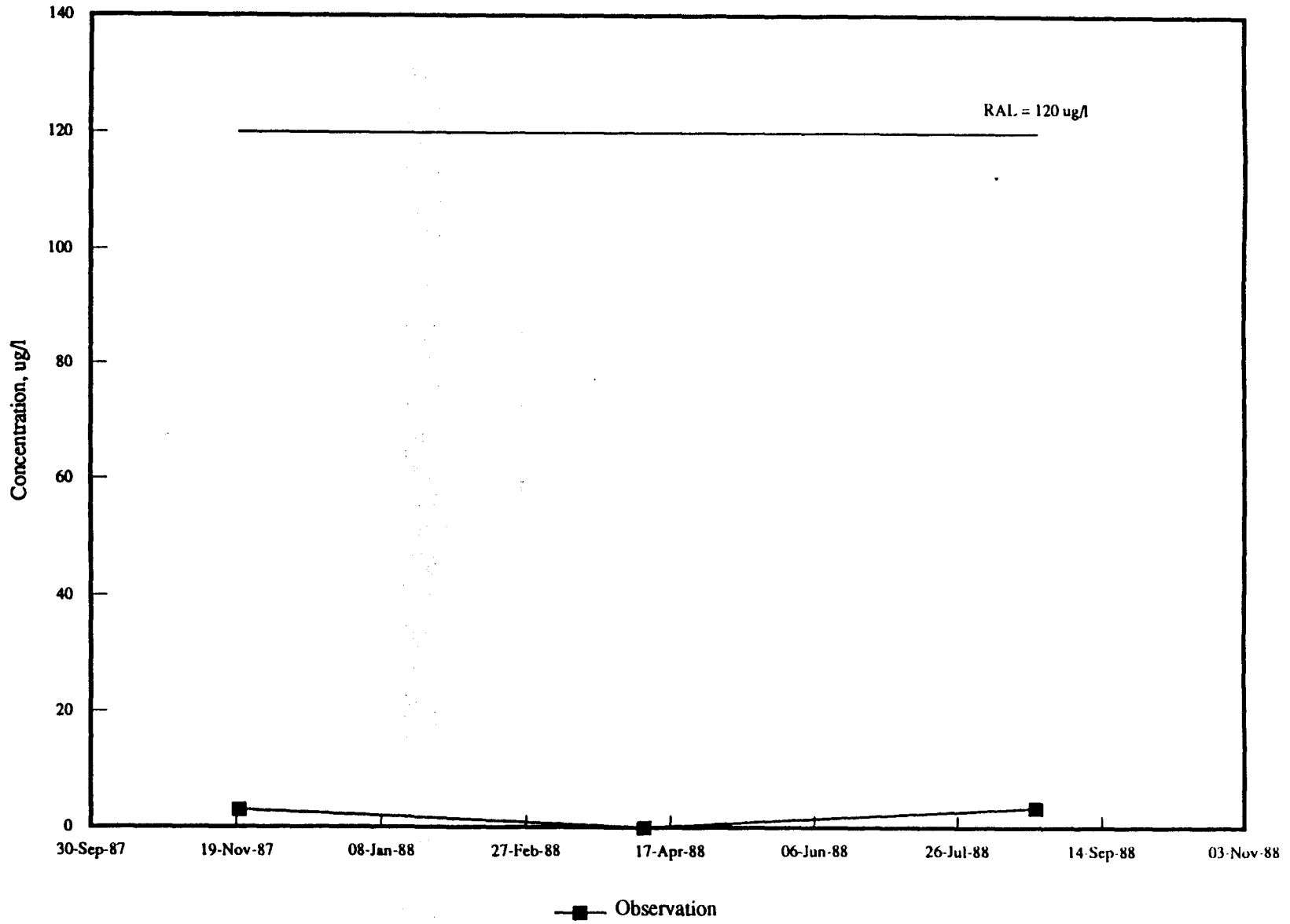
BARIUM - WELL 03U032



CADMIUM - WELL 03U032

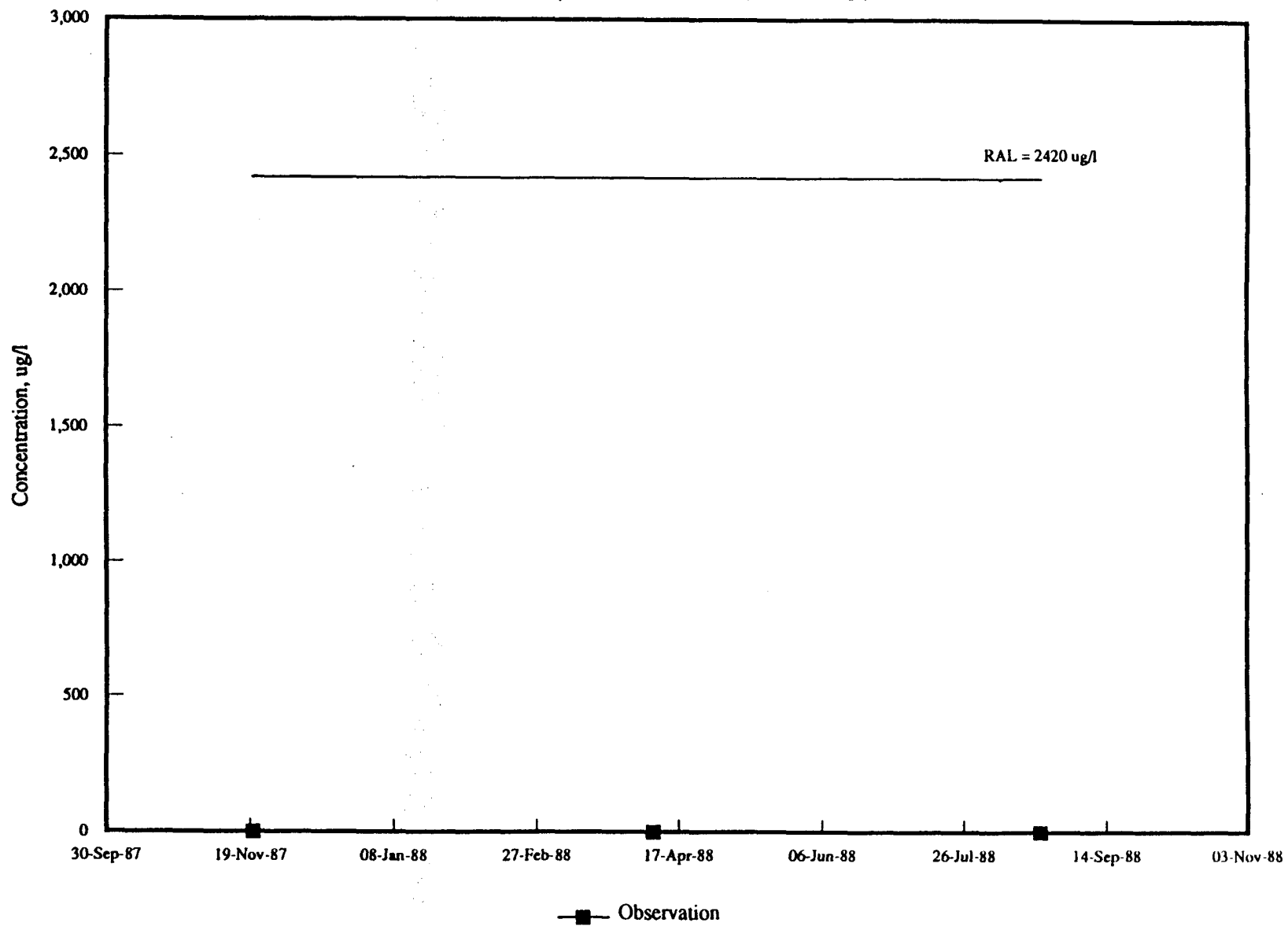


CHROMIUM - WELL 03U032

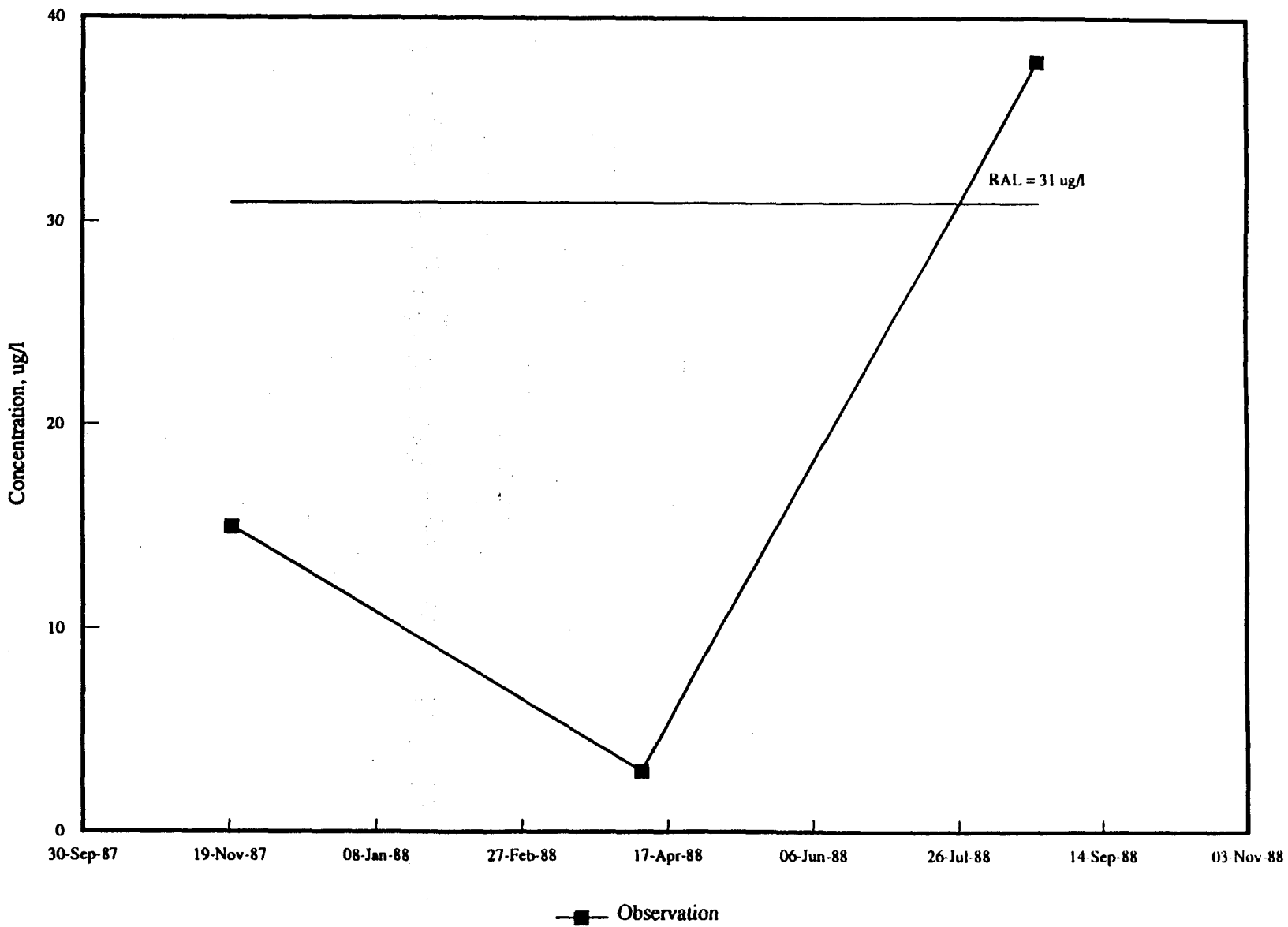




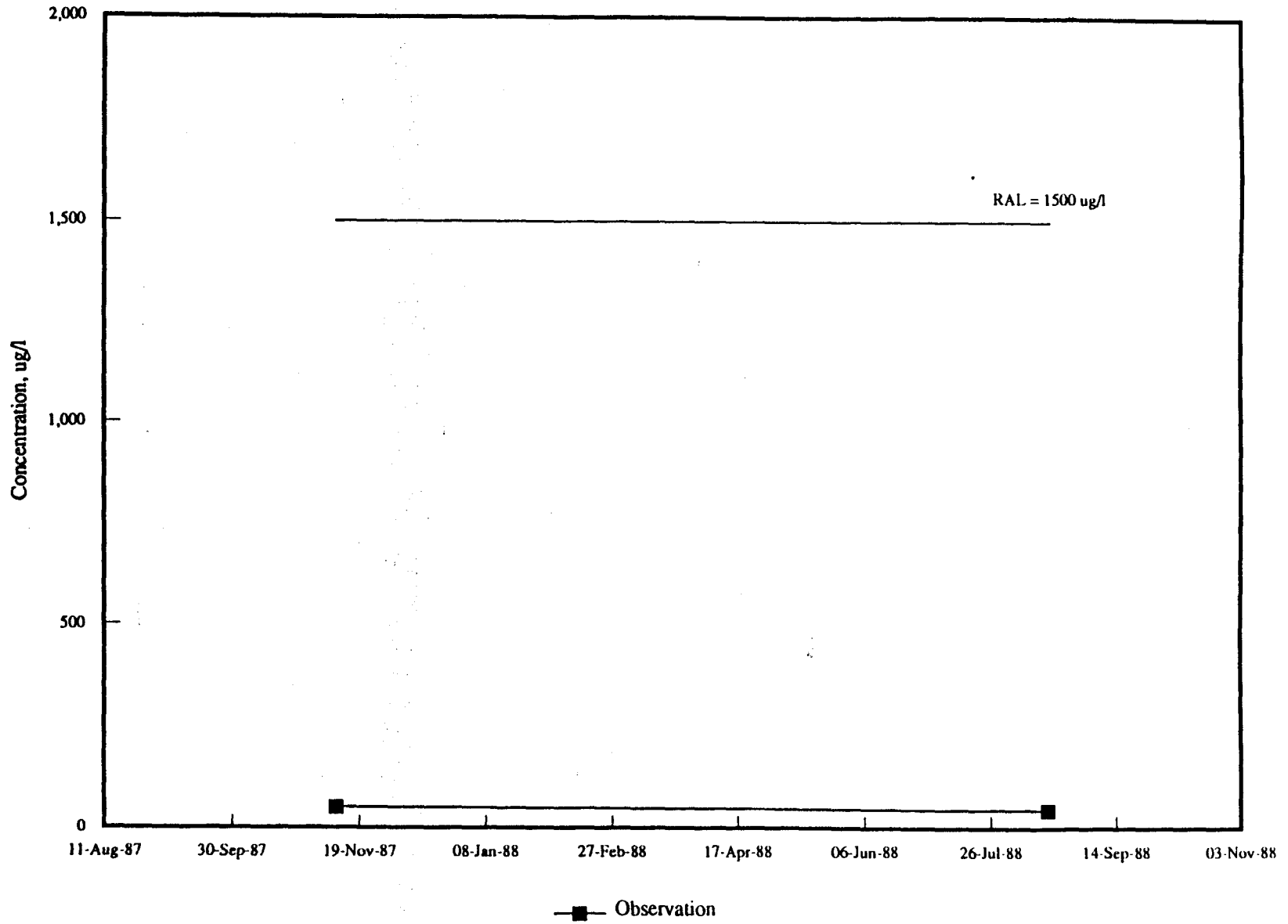
TOLUENE / METHYL BENZENE - WELL 03U032



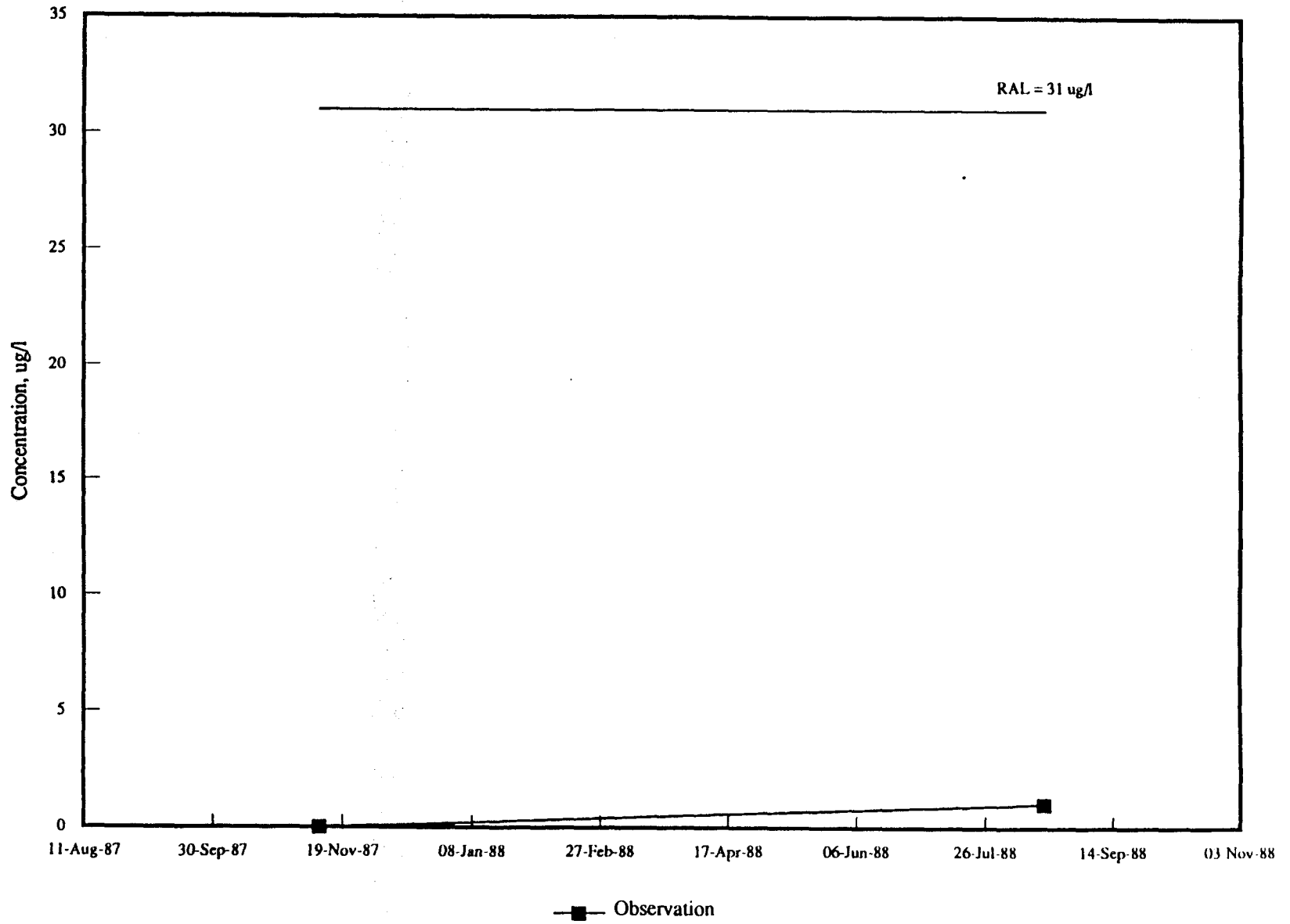
TRICHLOROETHENE - WELL 03U032



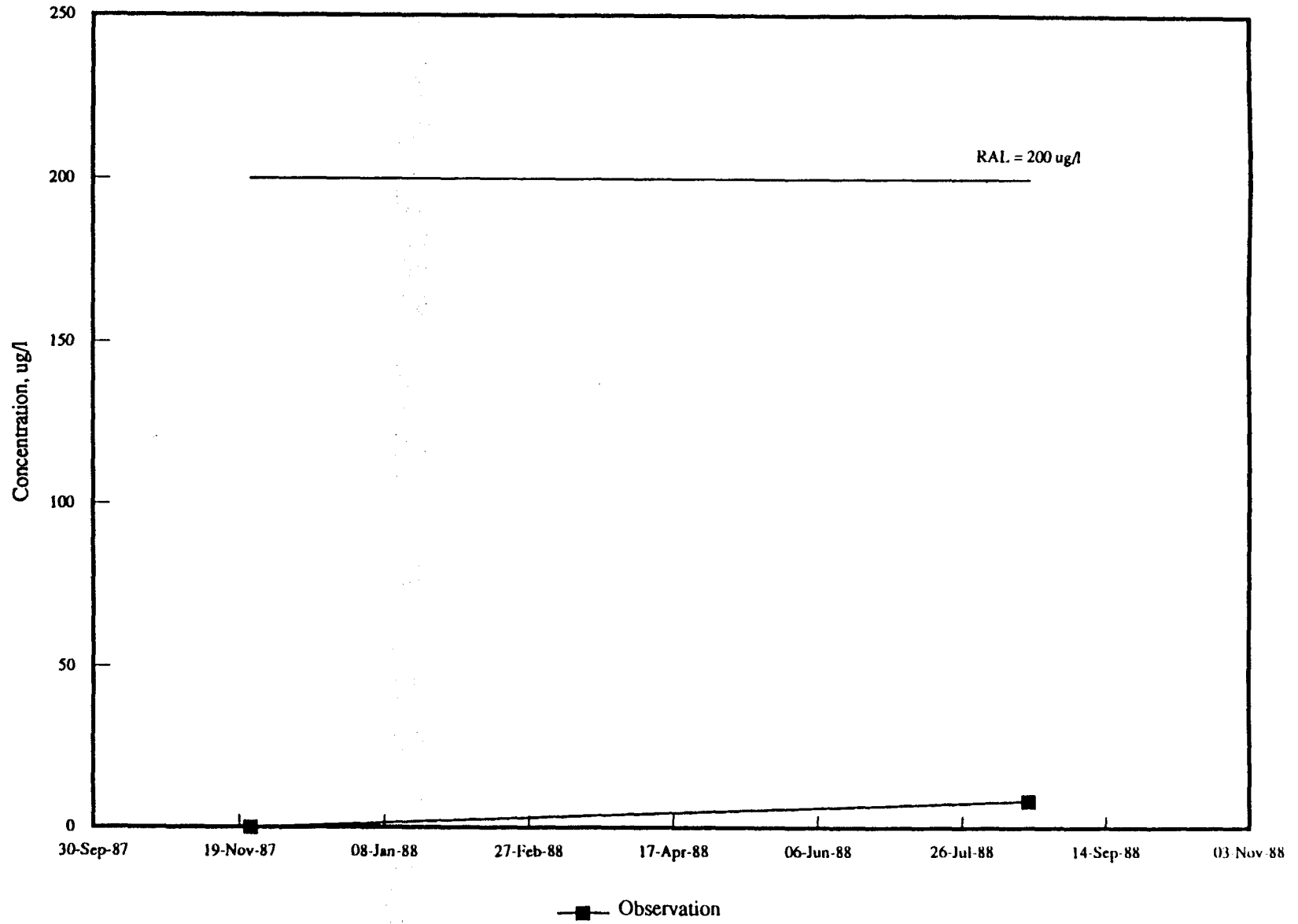
BARIUM - WELL 03U075



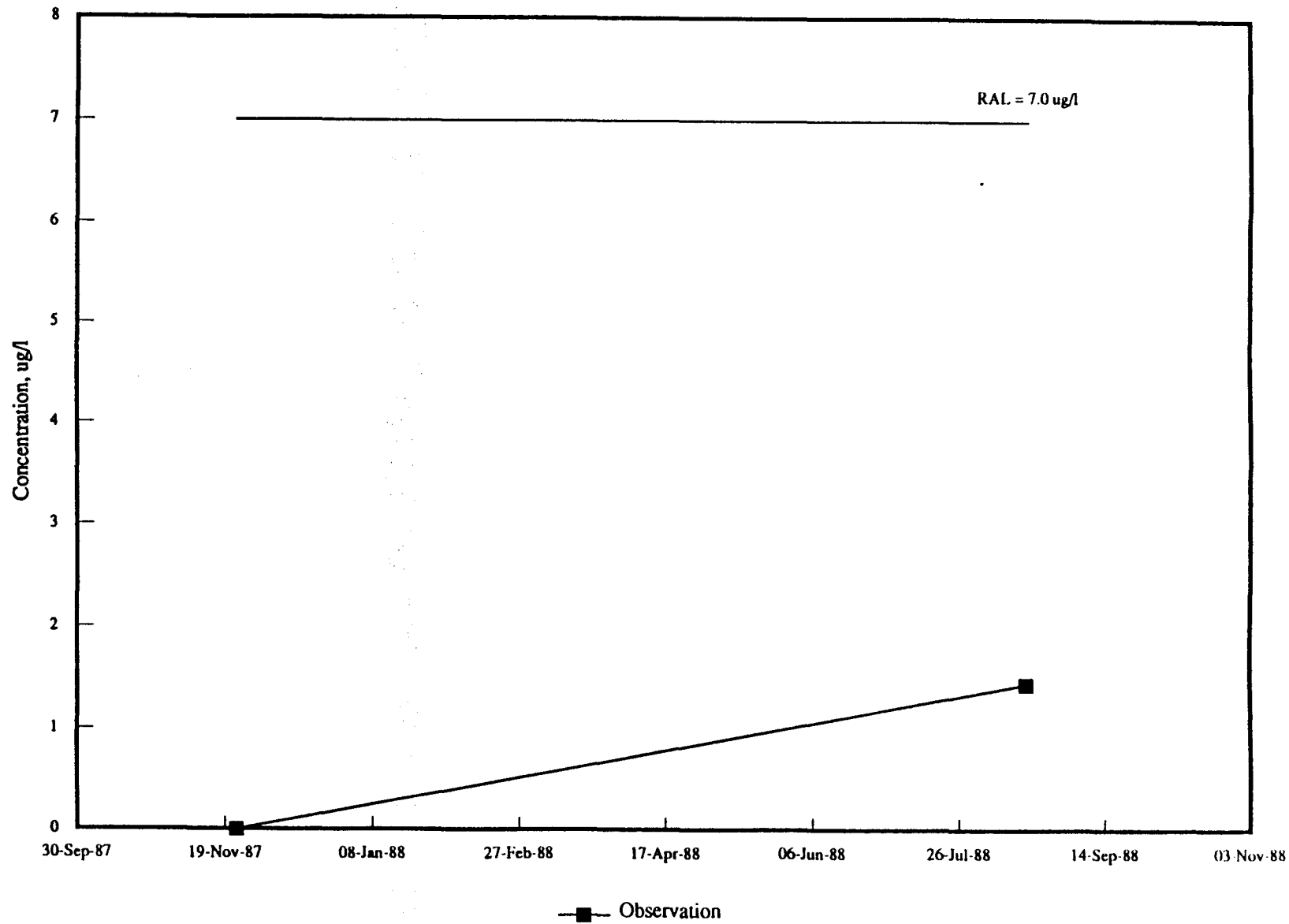
TRICHLOROETHENE - WELL 03U075



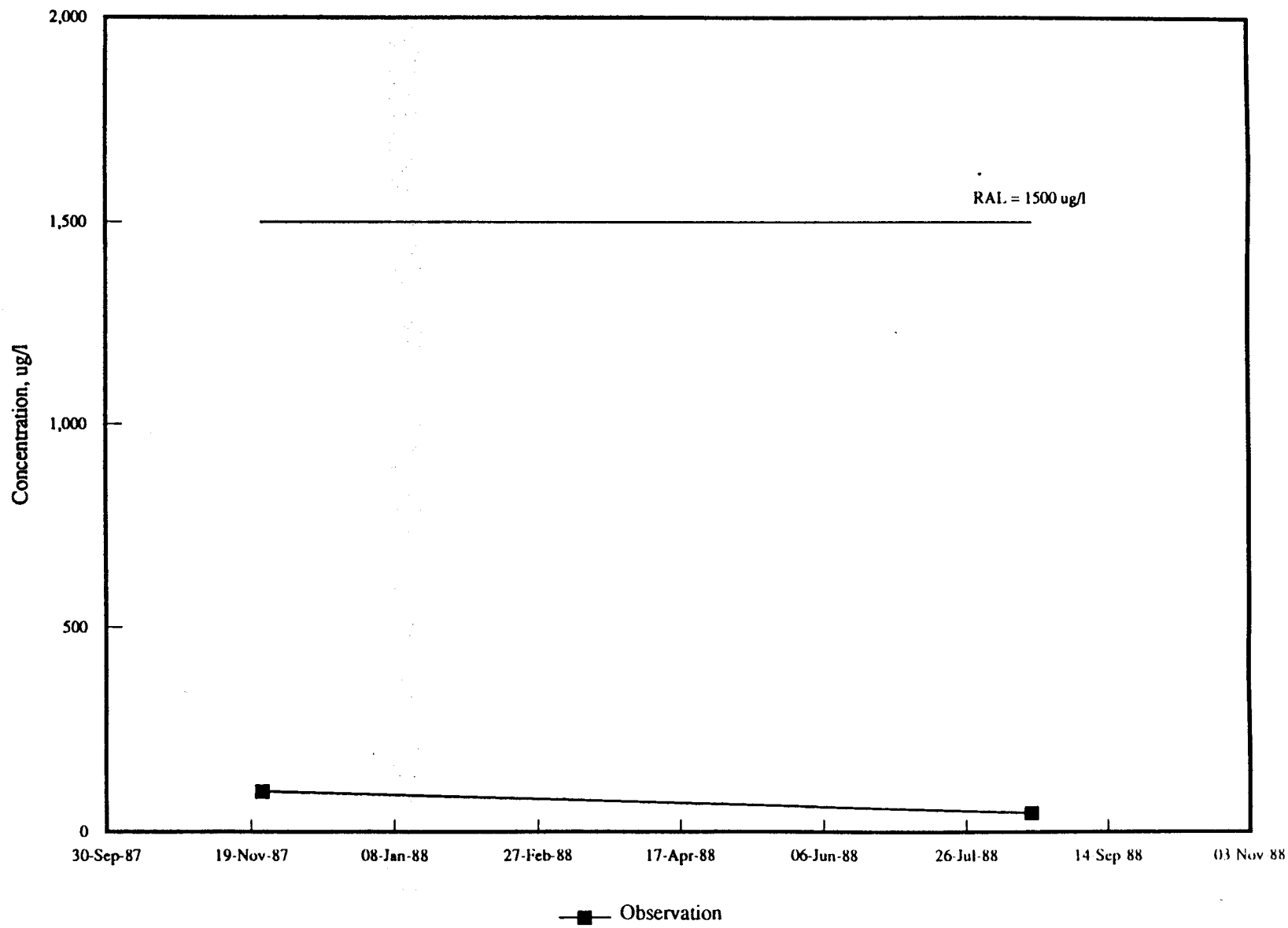
1,1,1-TRICHLOROETHANE - WELL 03U078



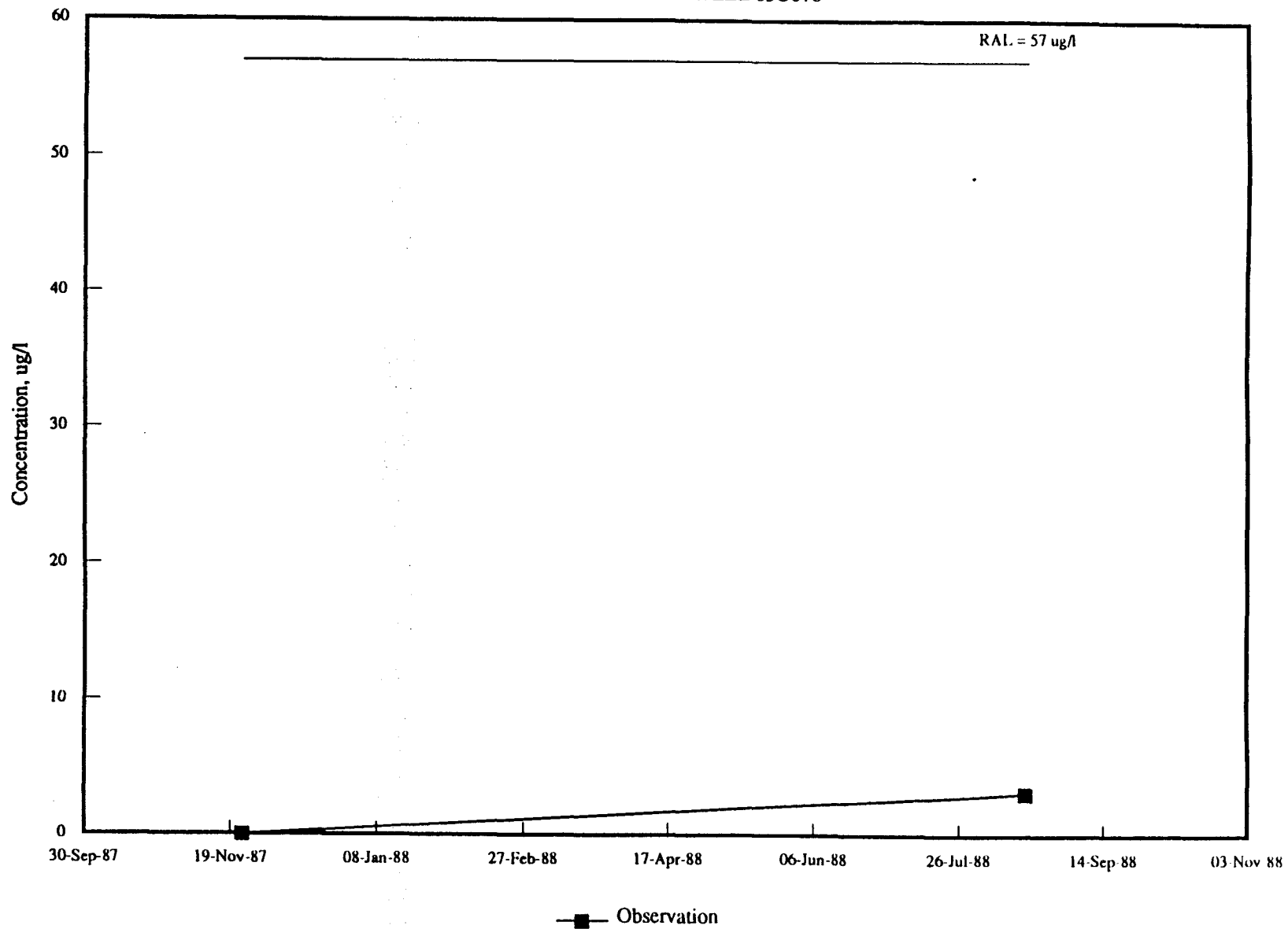
1,1-DICHLOROETHENE - WELL 03U078



BARIUM - WELL 03U078

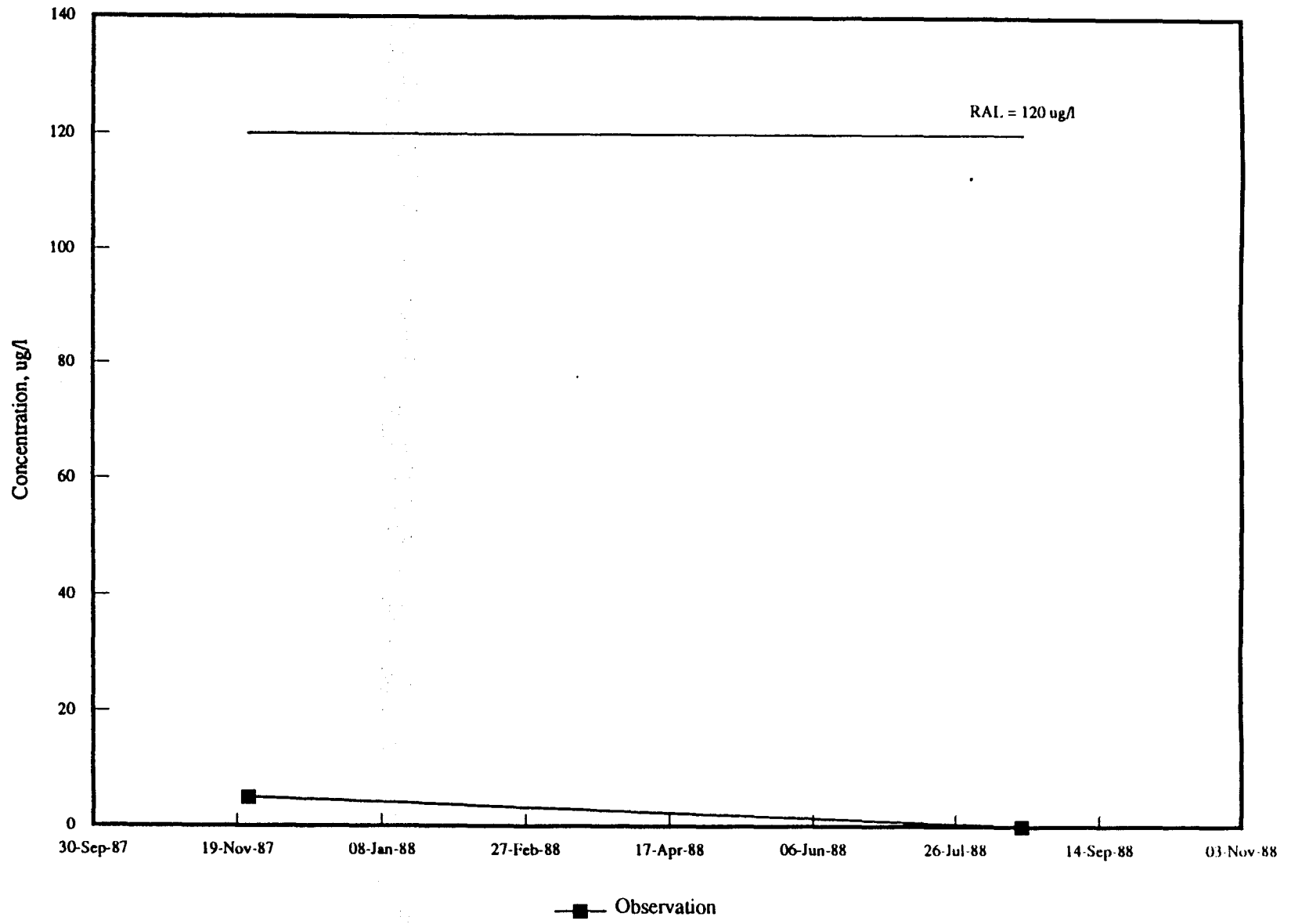


CHLOROFORM - WELL 03U078

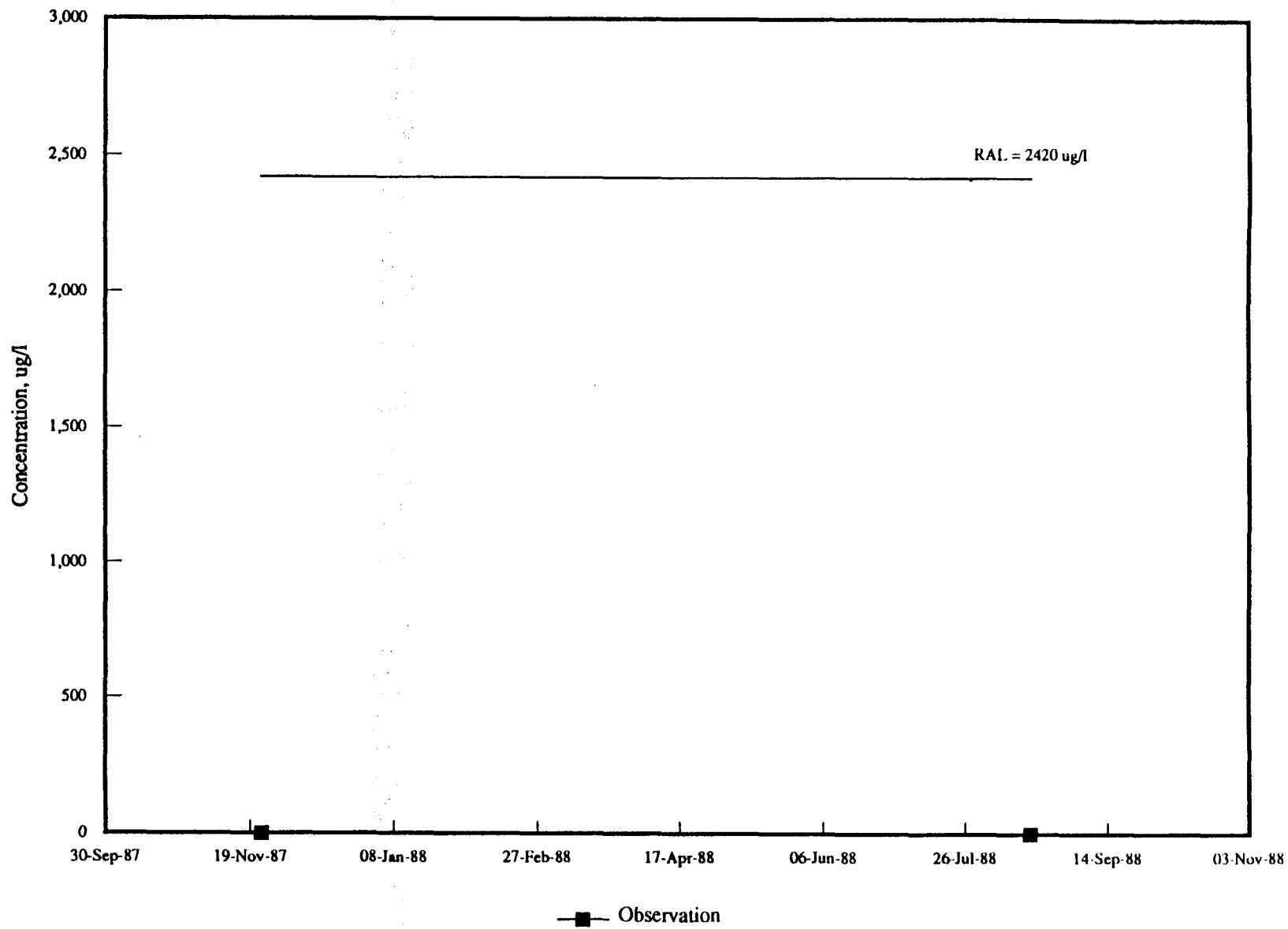




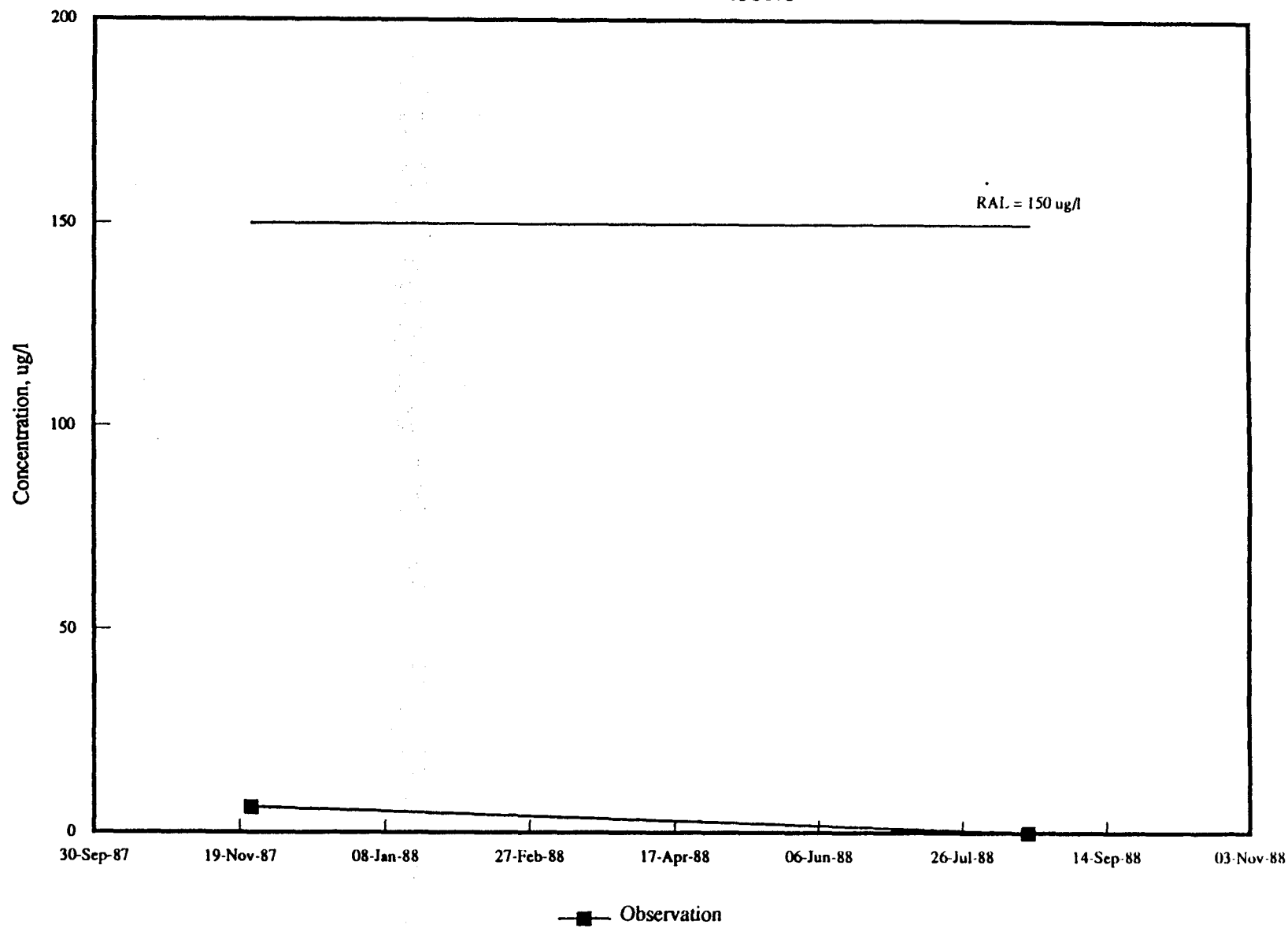
CHROMIUM - WELL 03U078



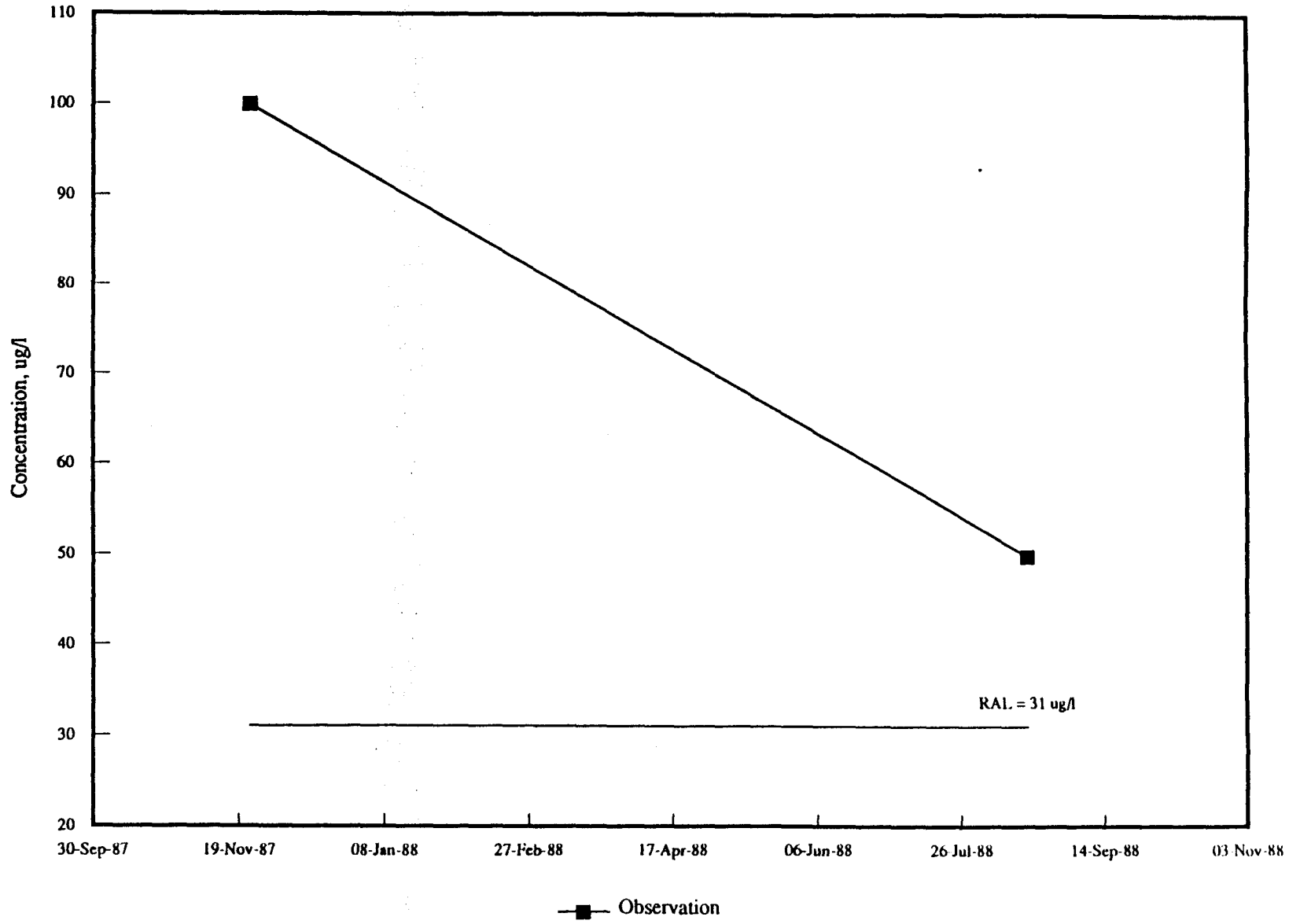
TOLUENE / METHYL BENZENE - WELL 03U078



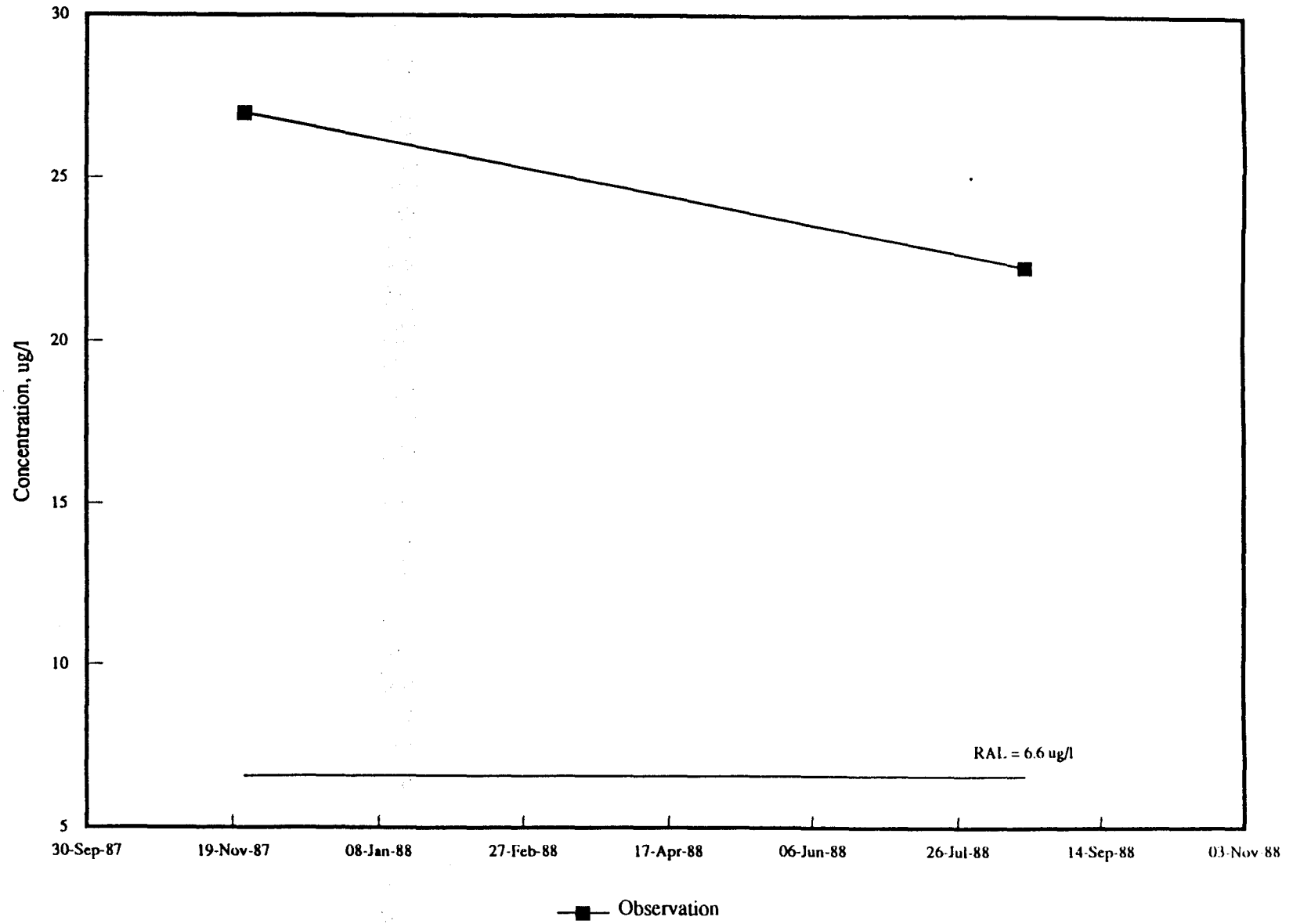
NICKEL - WELL 03U078



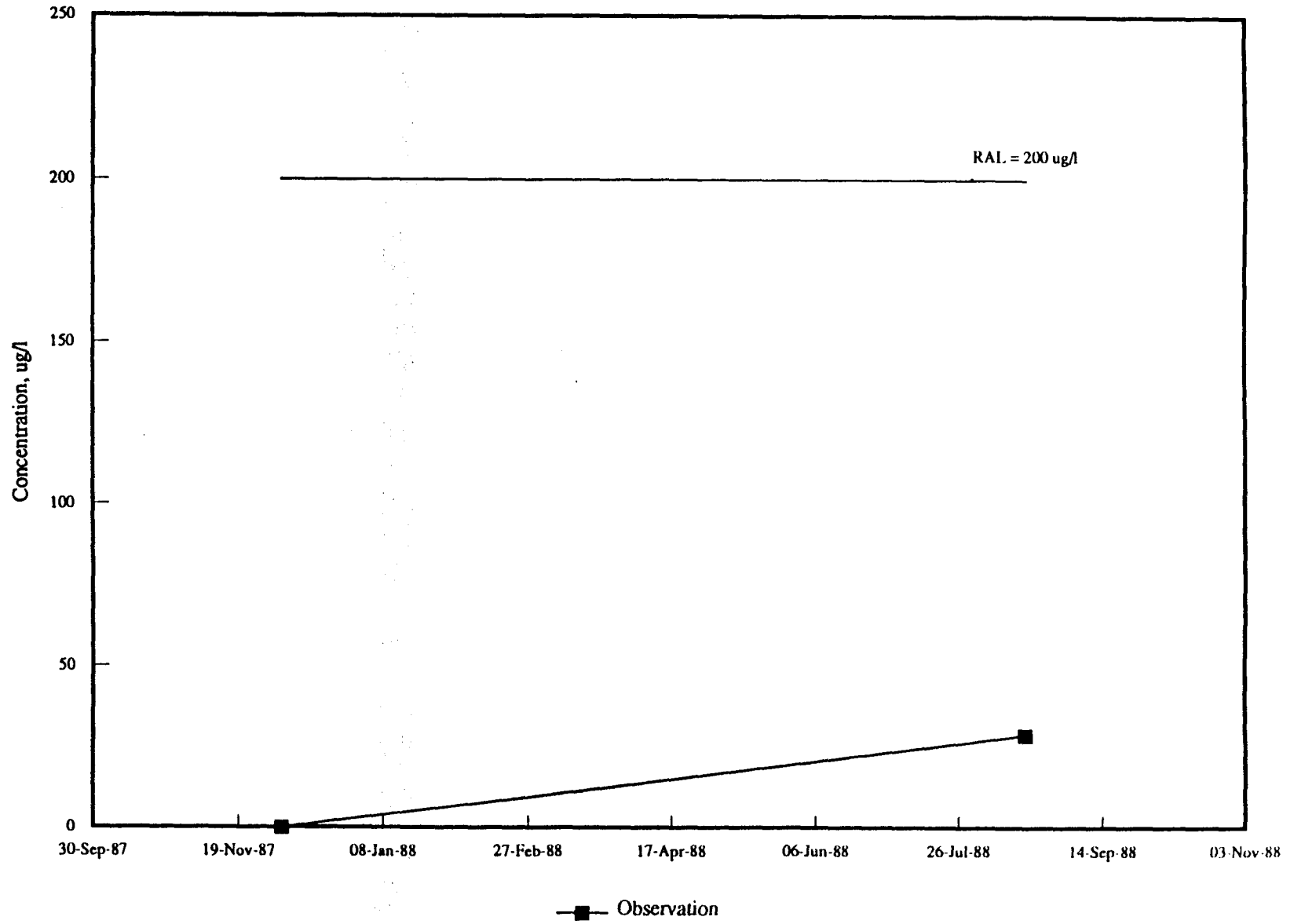
TRICHLOROETHENE - WELL 03U078



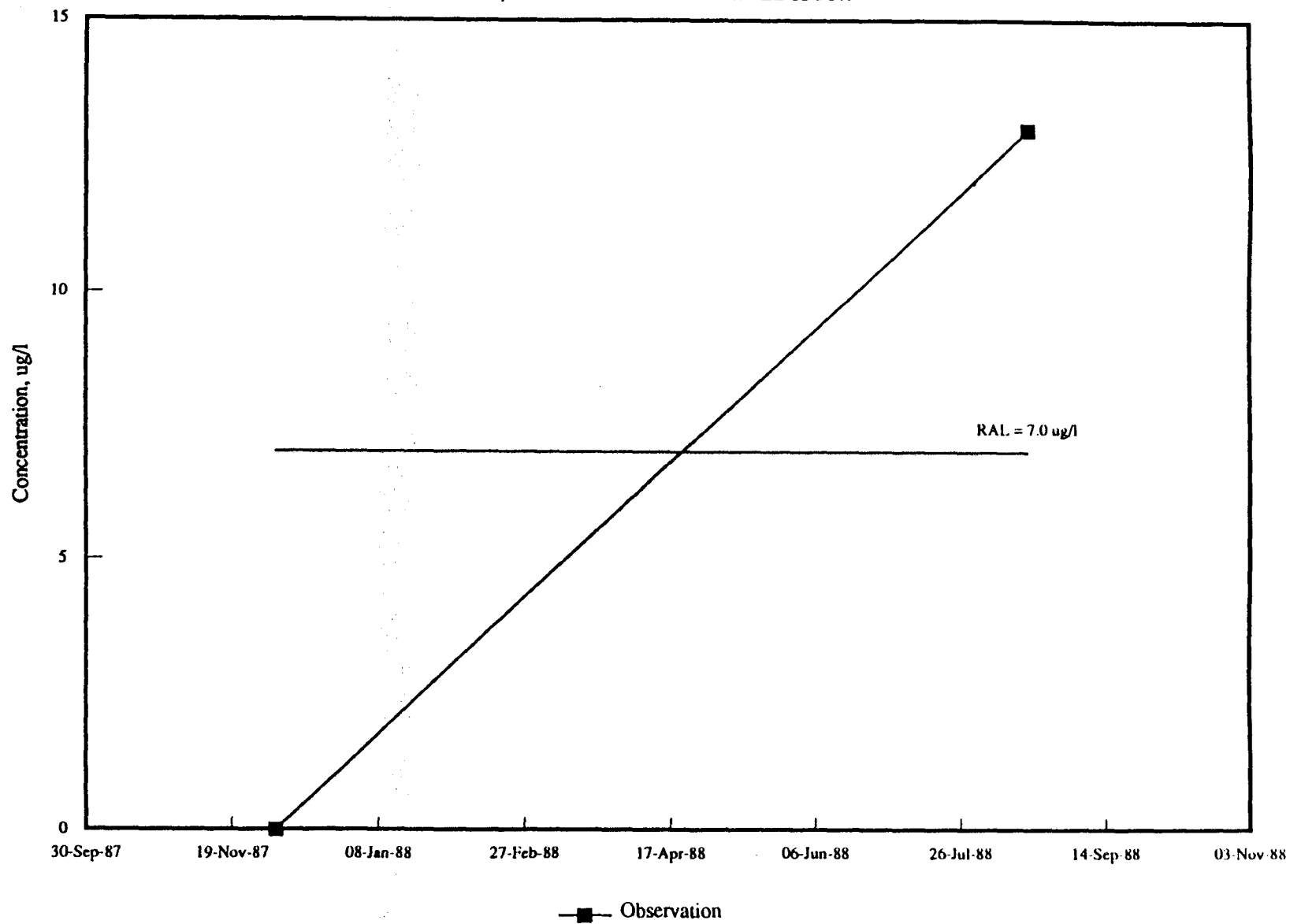
TETRACHLOROETHENE - WELL 03U078



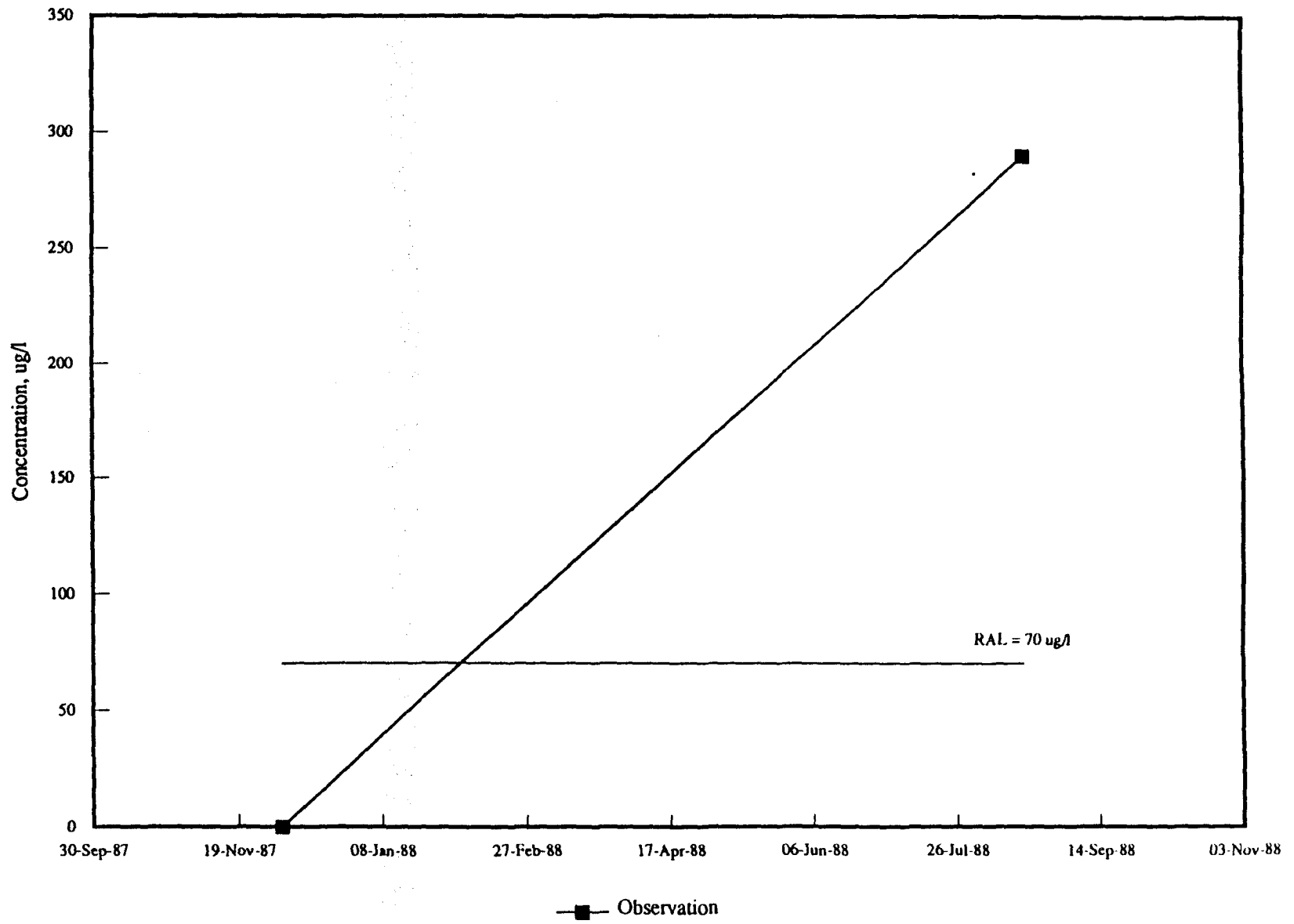
1,1,1-TRICHLOROETHANE - WELL 03U079



1,1-DICHLOROETHENE - WELL 03U079

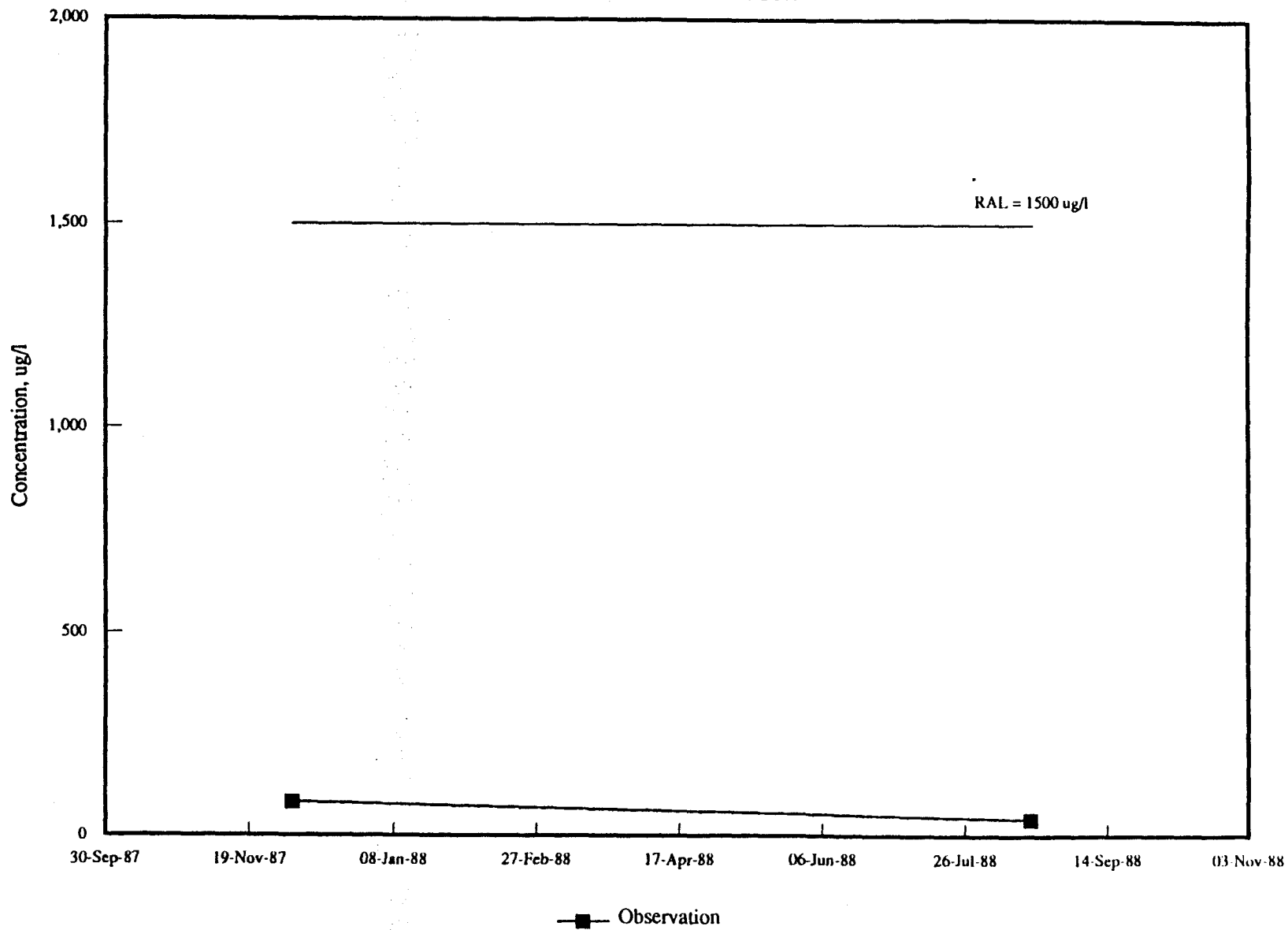


1,2-DICHLOROETHENE - WELL 03U079

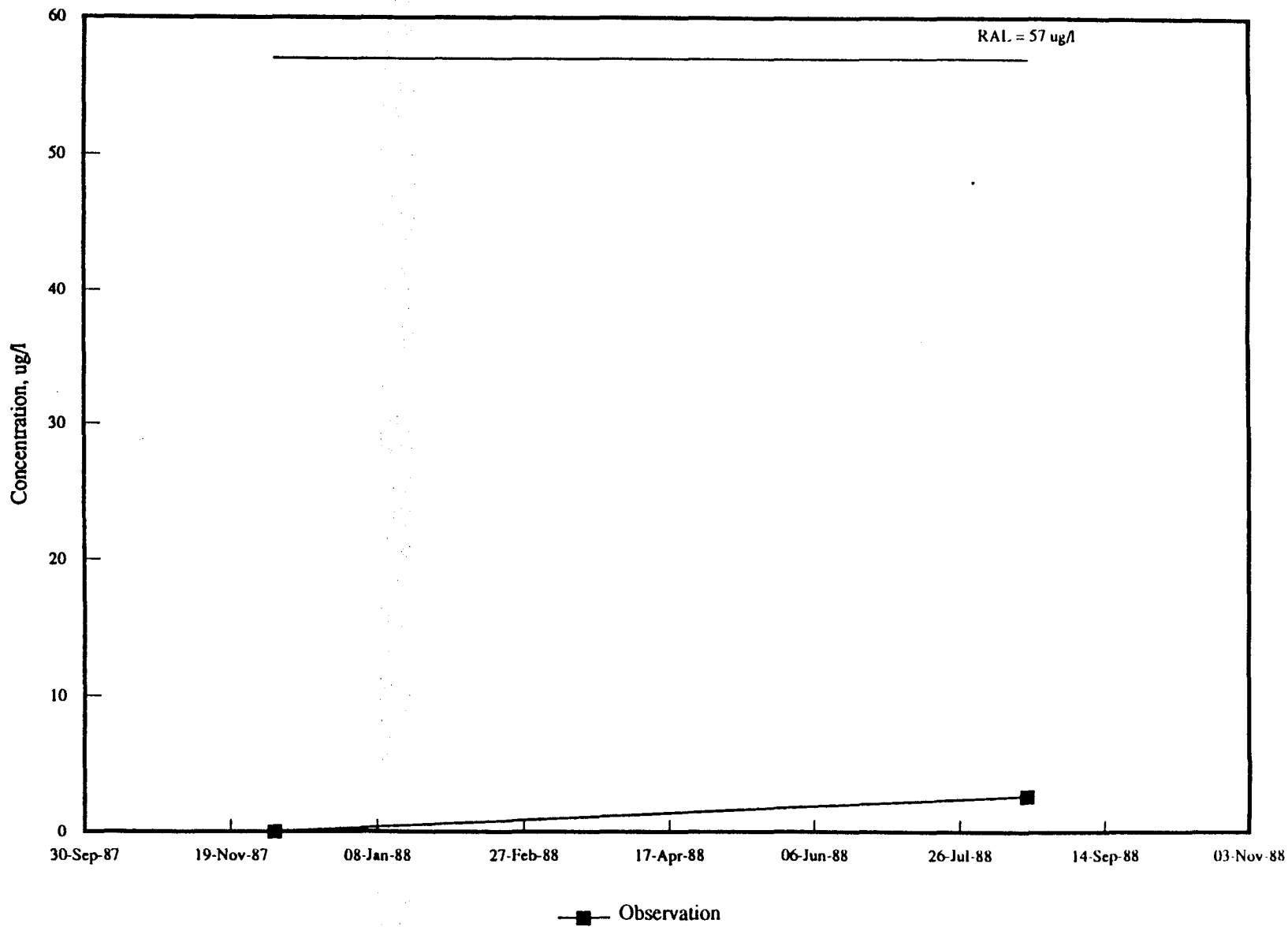




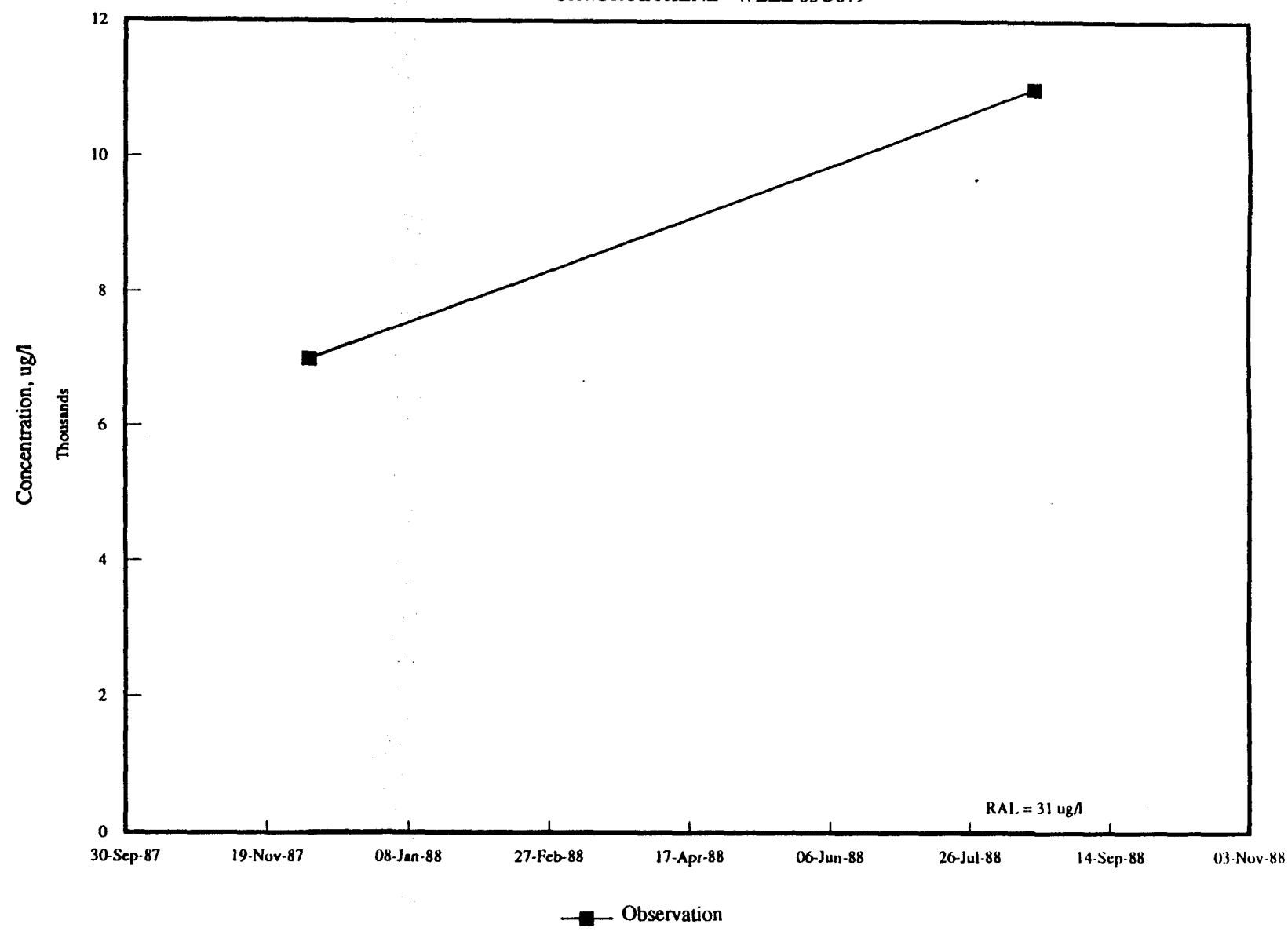
BARIUM - WELL 03U079



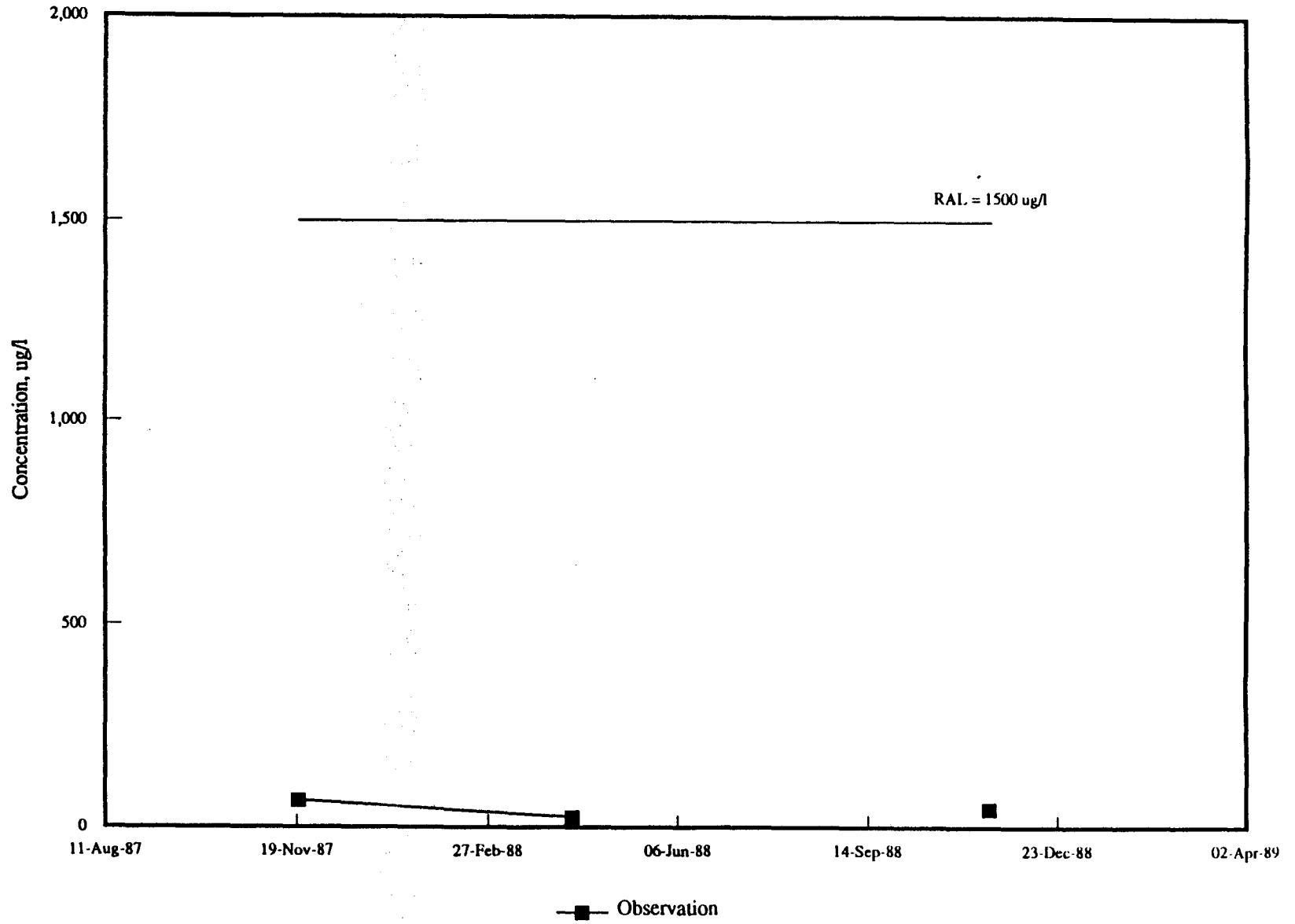
CHLOROFORM - WELL 03U079



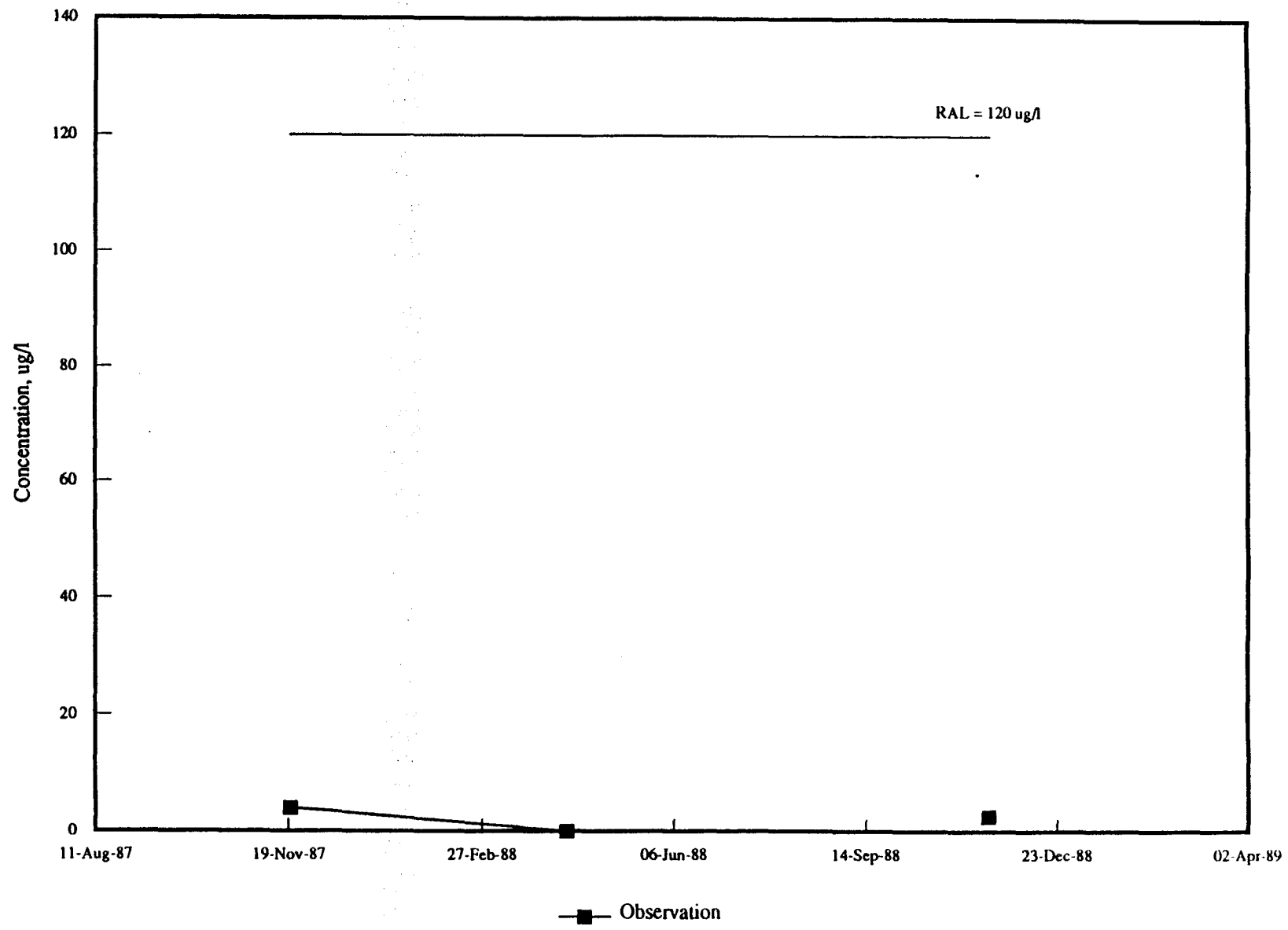
TRICHLOROETHENE - WELL 03U079



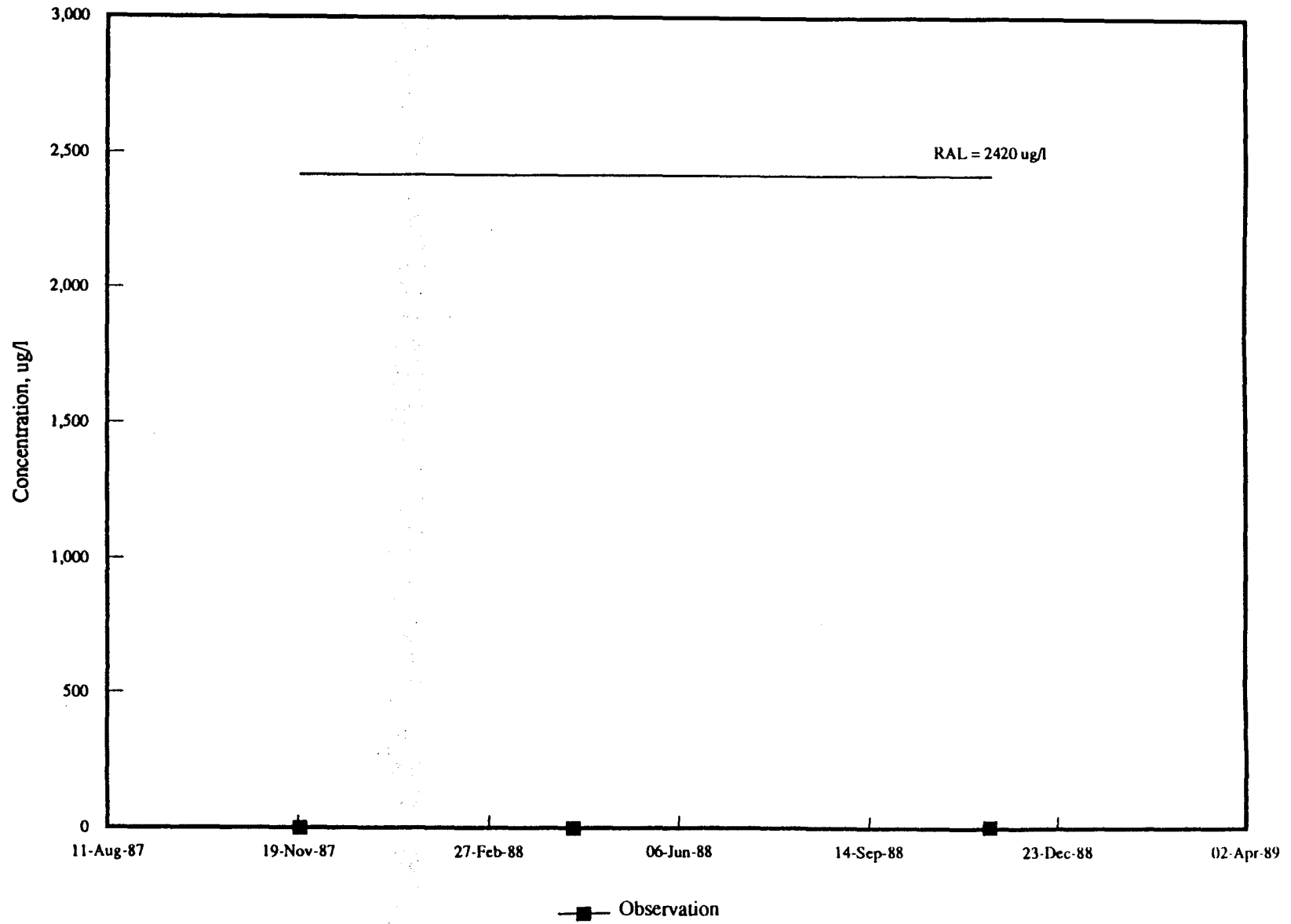
BARIUM - WELL 03U087



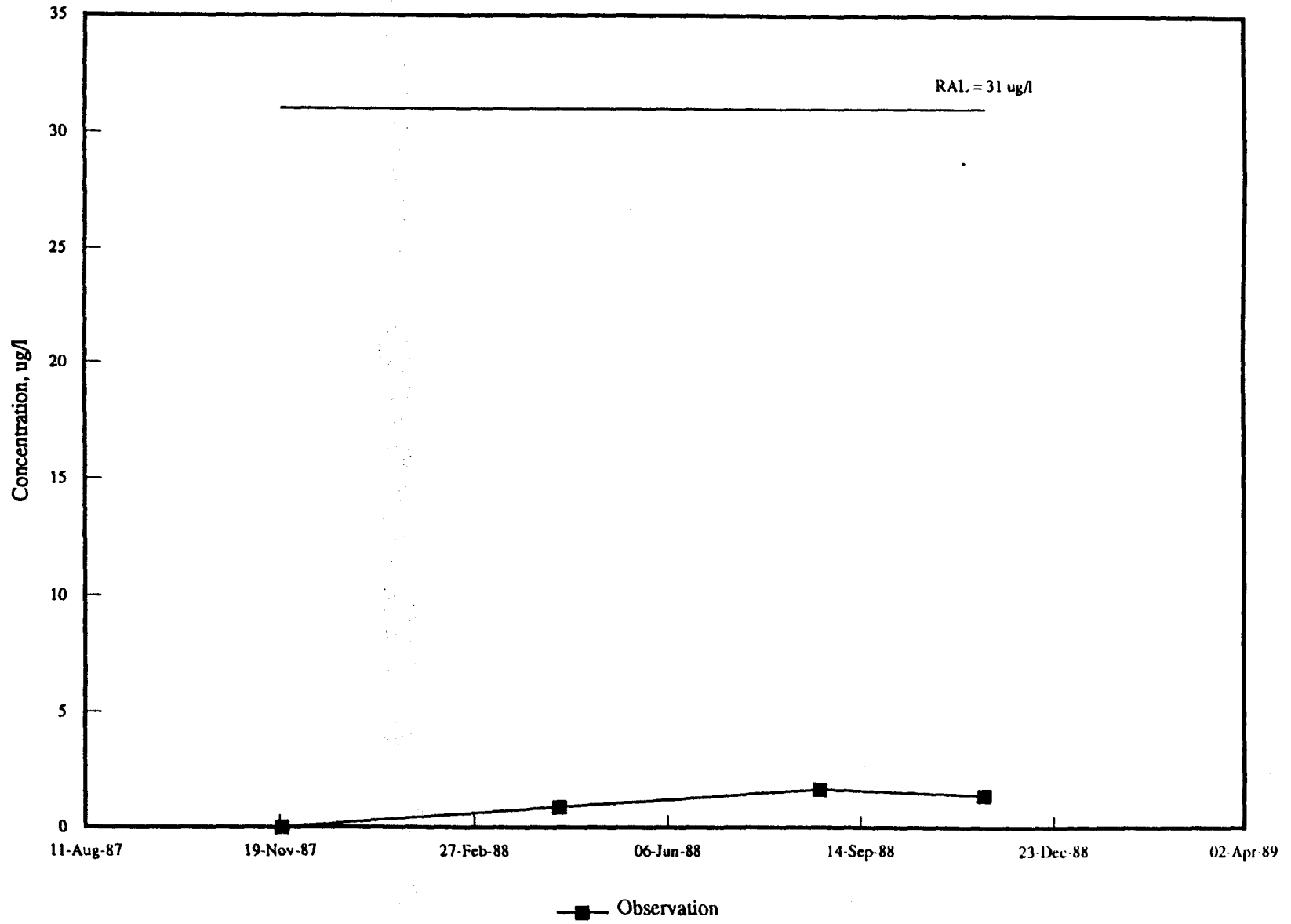
CHROMIUM - WELL 03U087



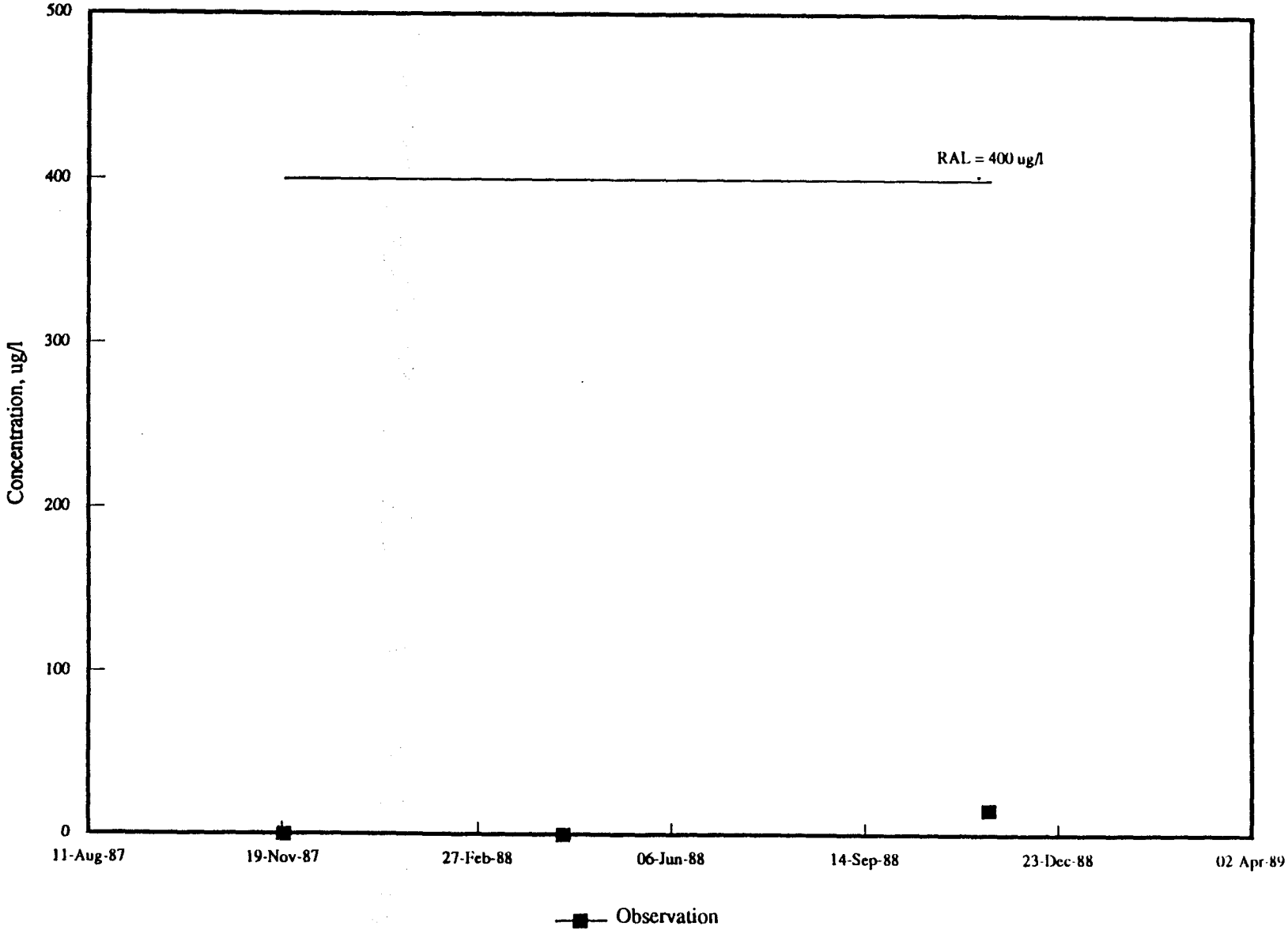
TOLUENE / METHYL BENZENE - WELL 03U087



TRICHLOROETHENE - WELL 03U087

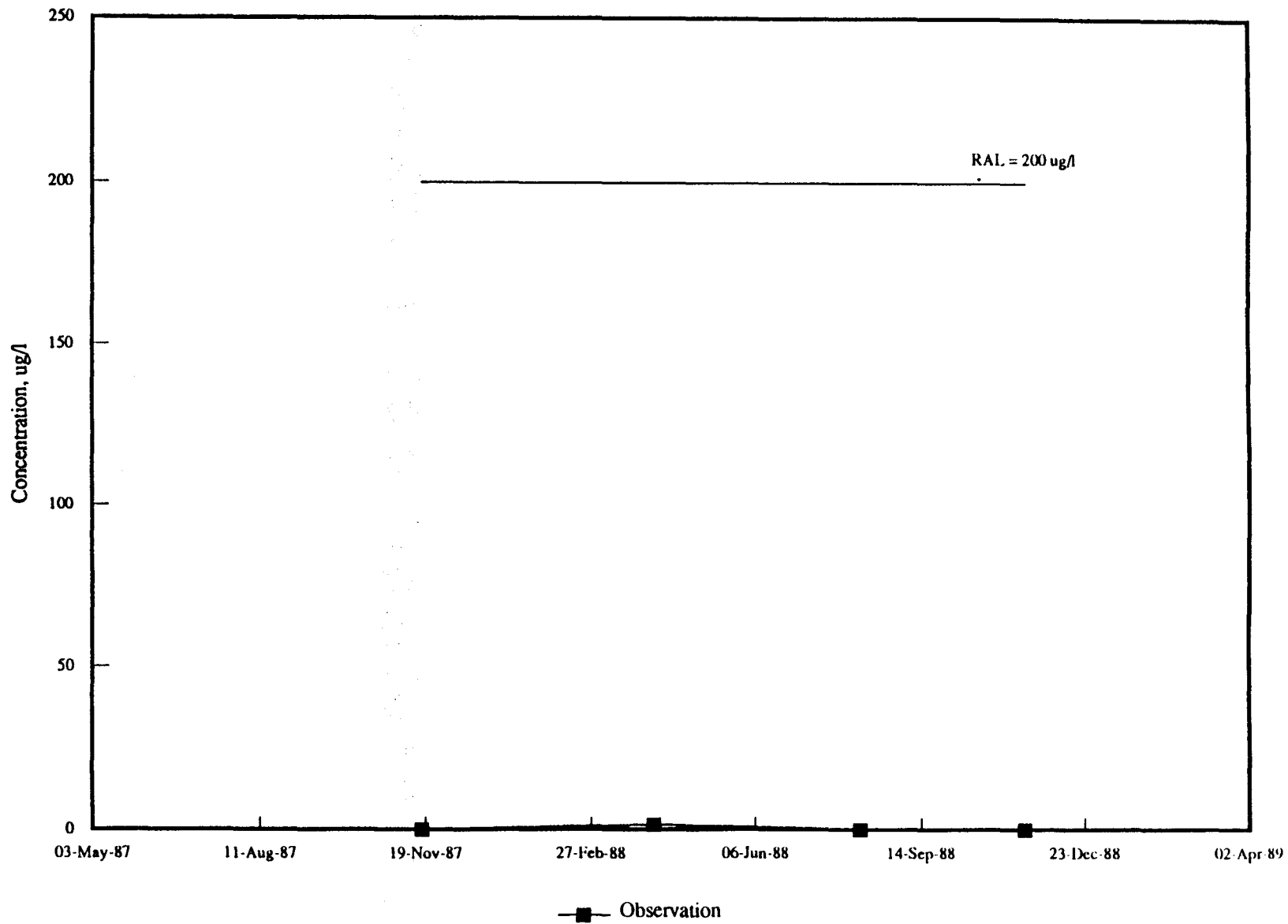


TOTAL XYLENES - WELL 03U087

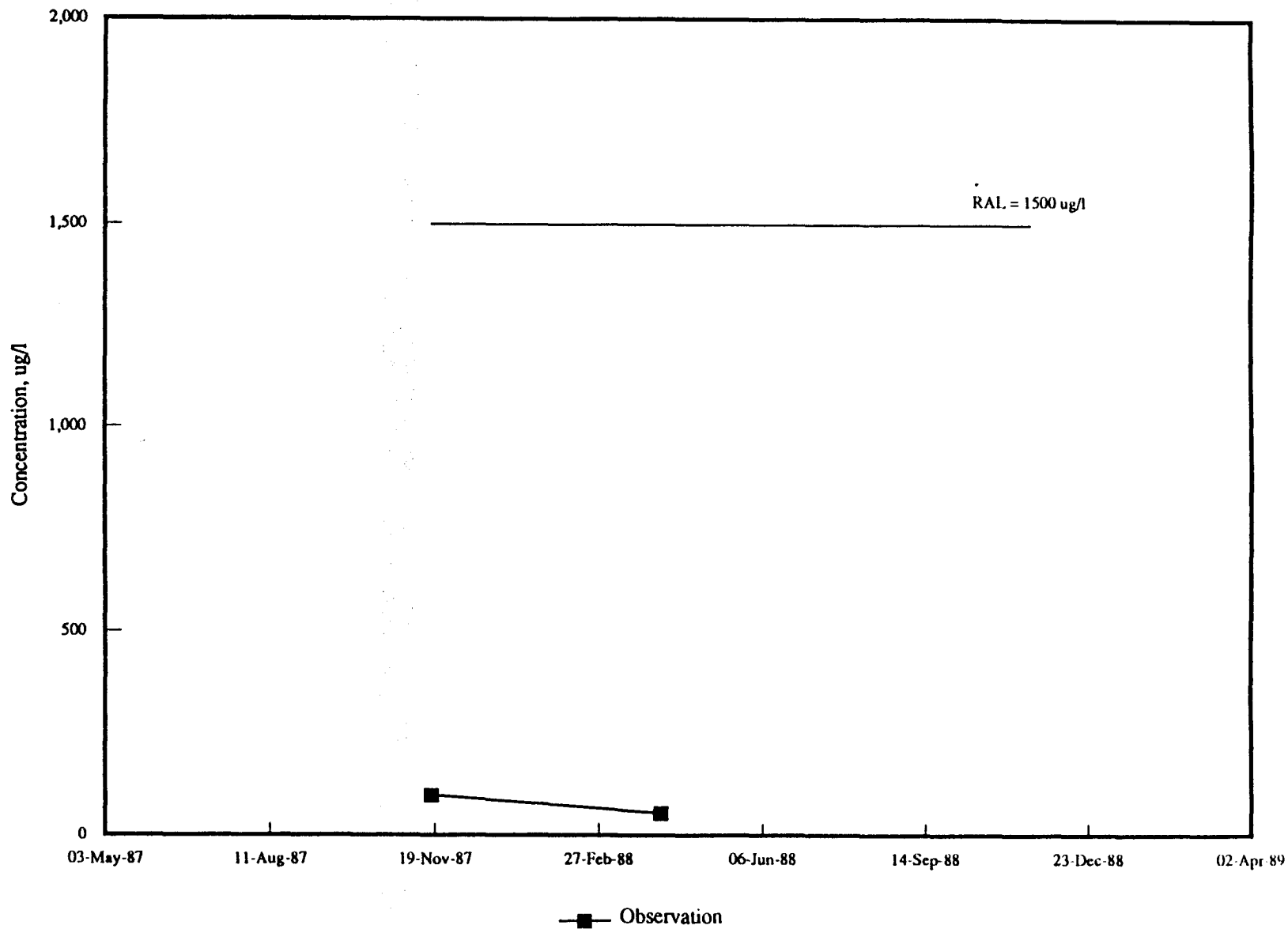




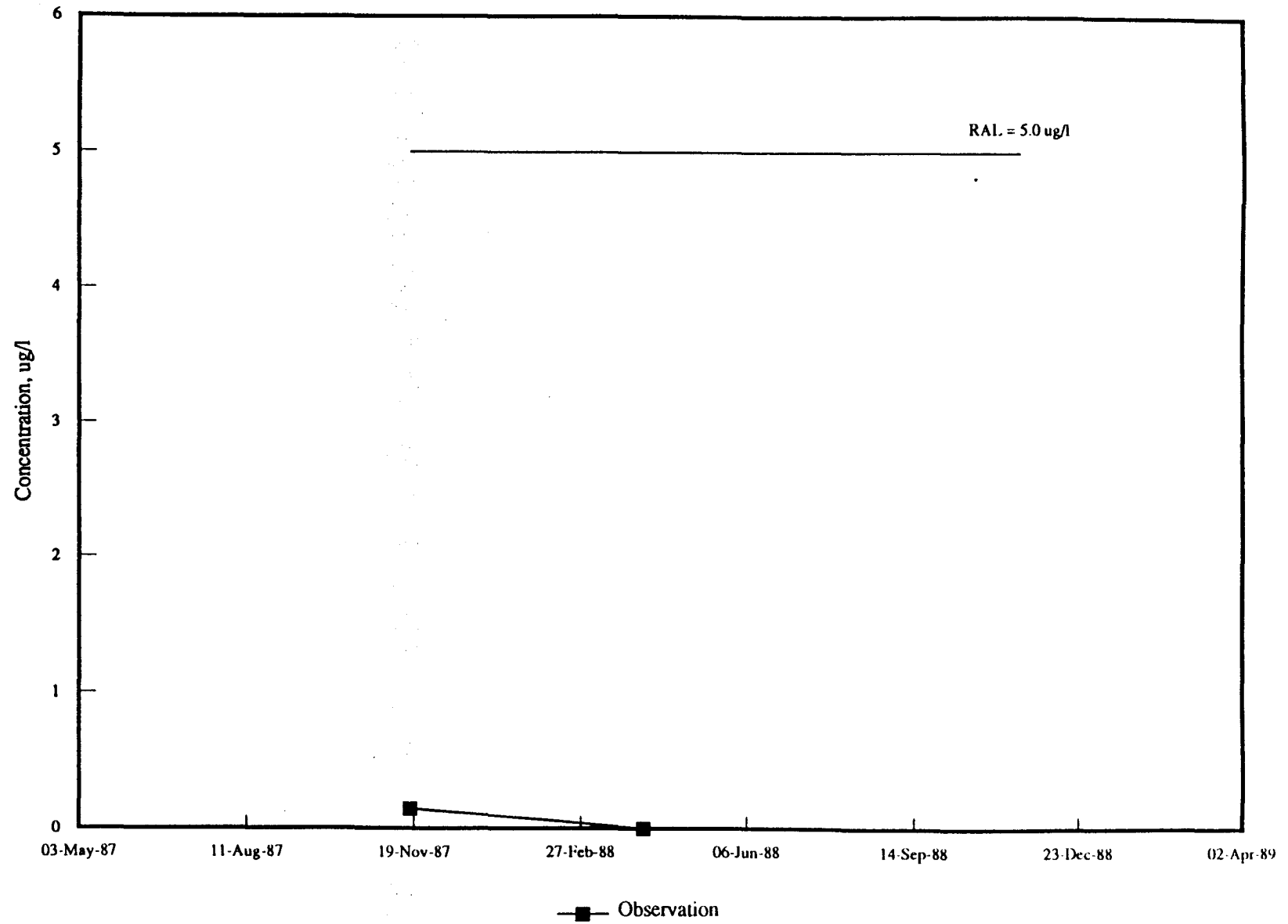
1,1,1-TRICHLOROETHANE - WELL 03U088



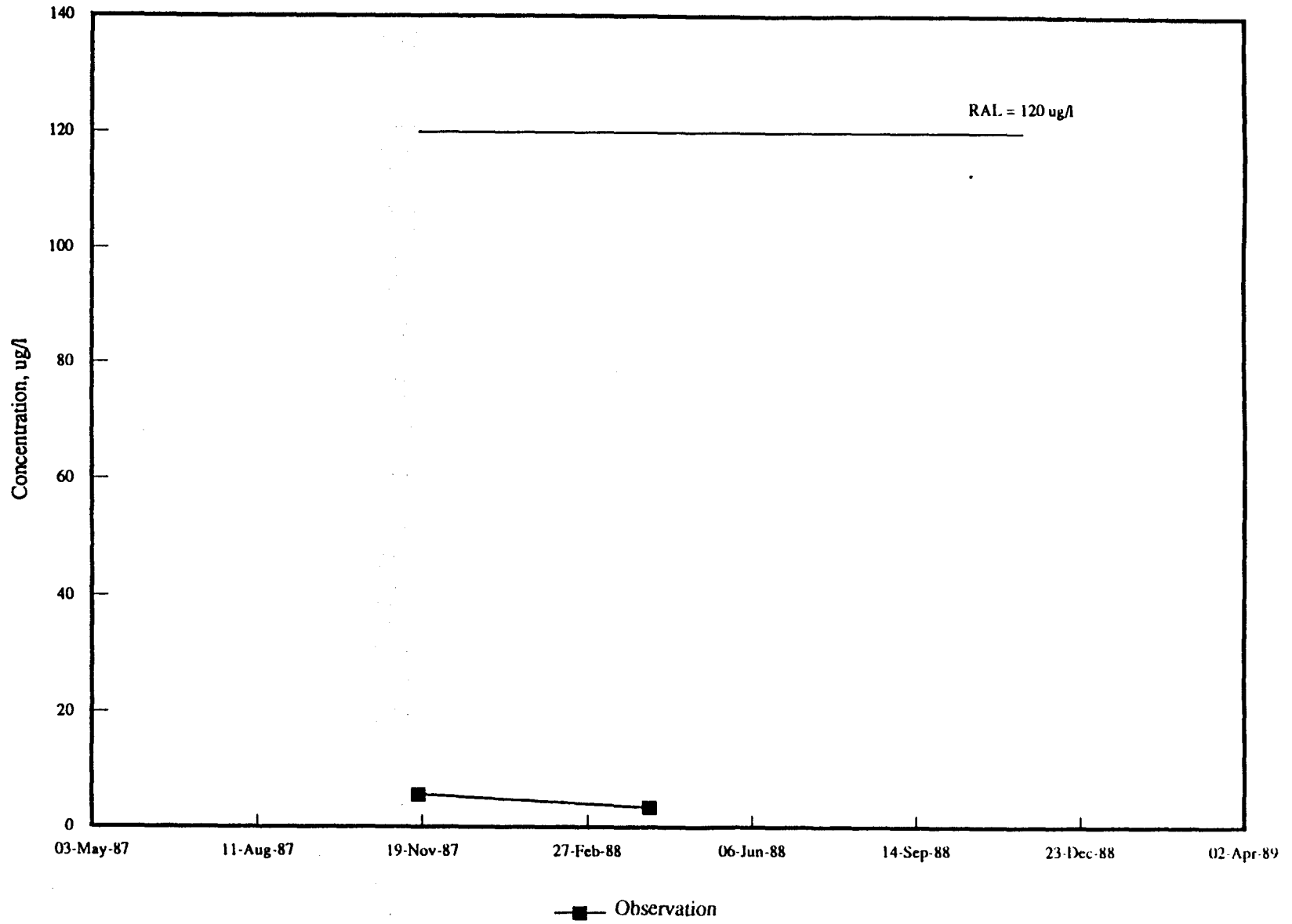
BARIUM - WELL 03U088



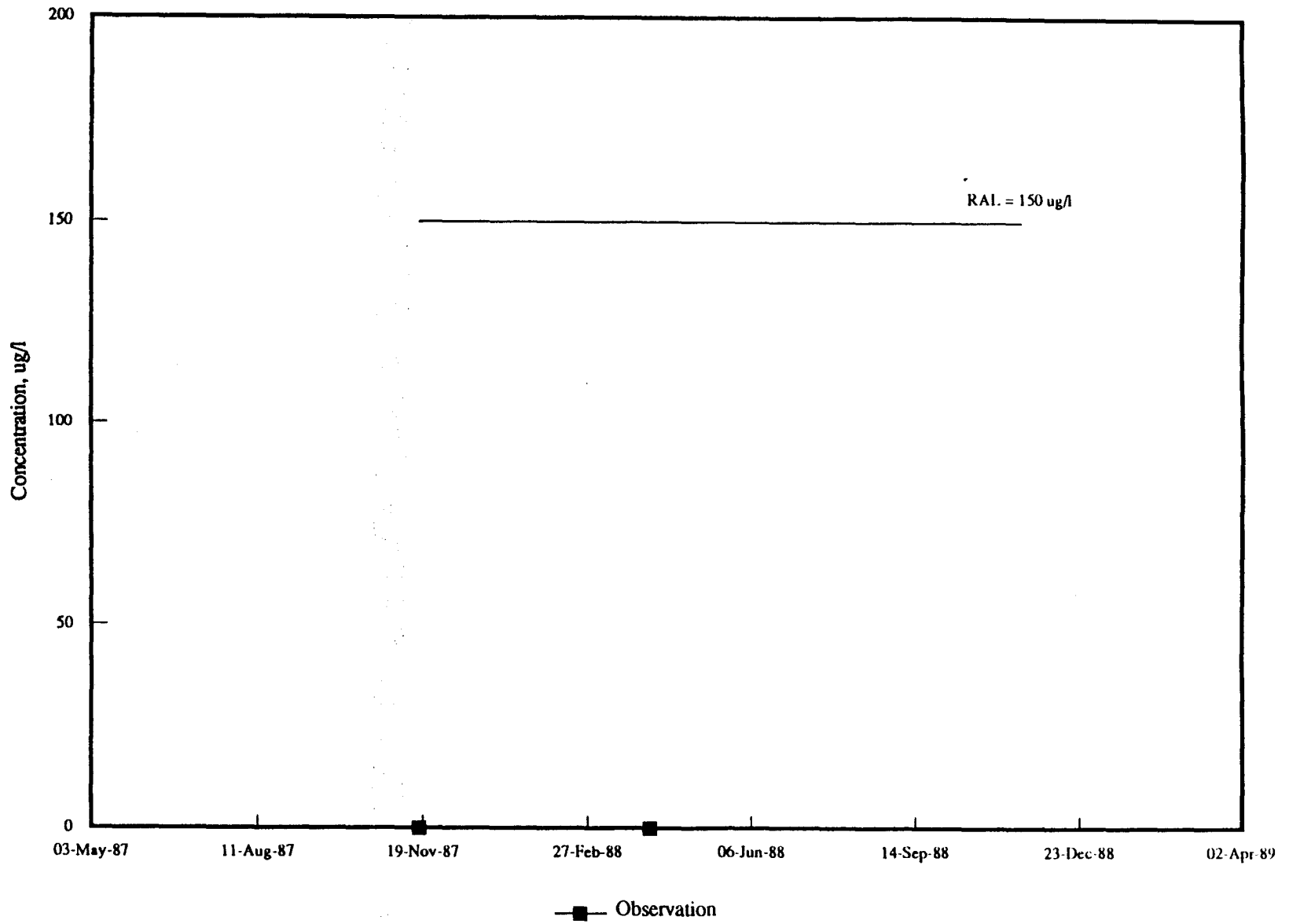
CADMIUM - WELL 03U088



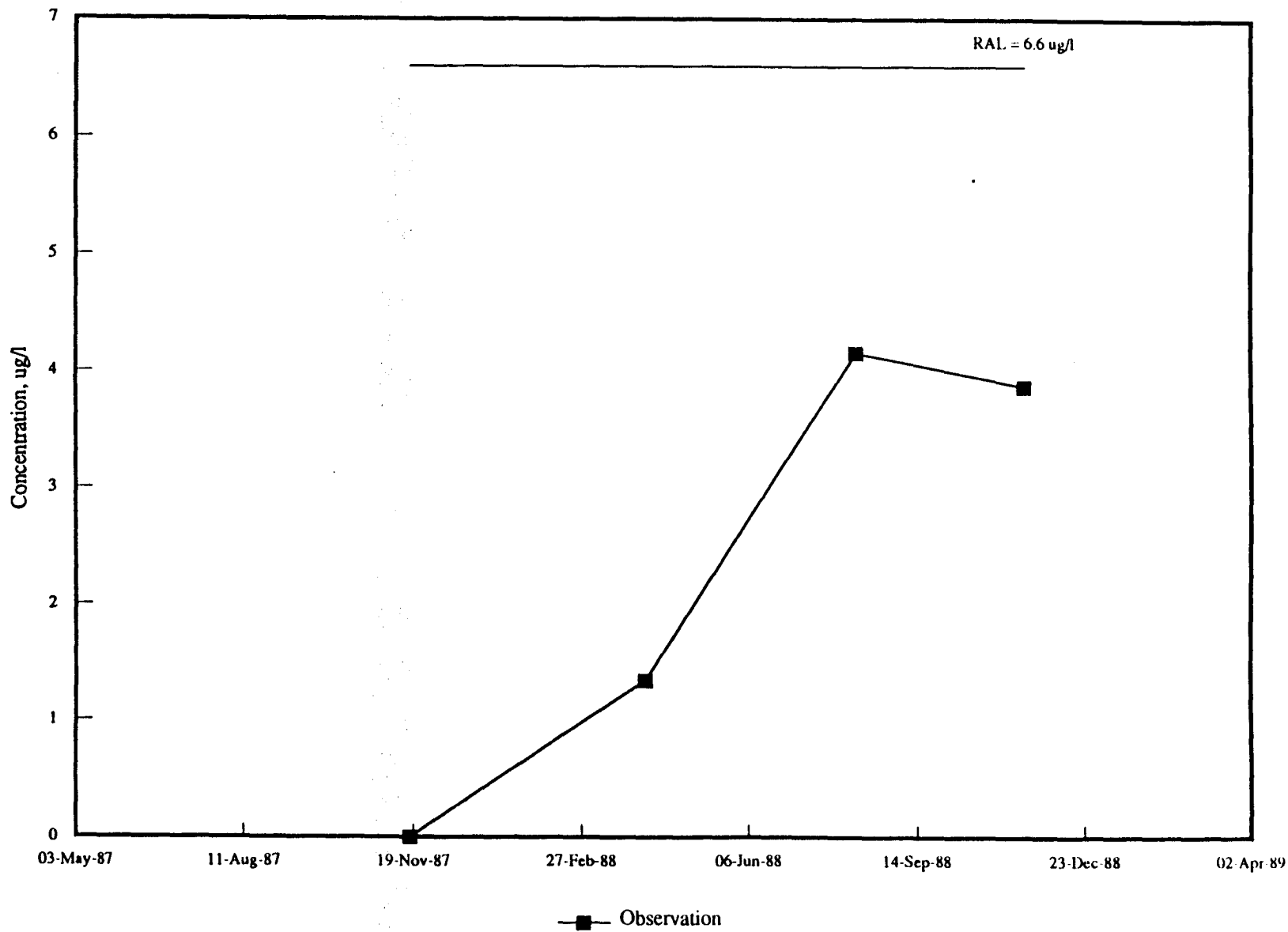
CHROMIUM - WELL 03U088



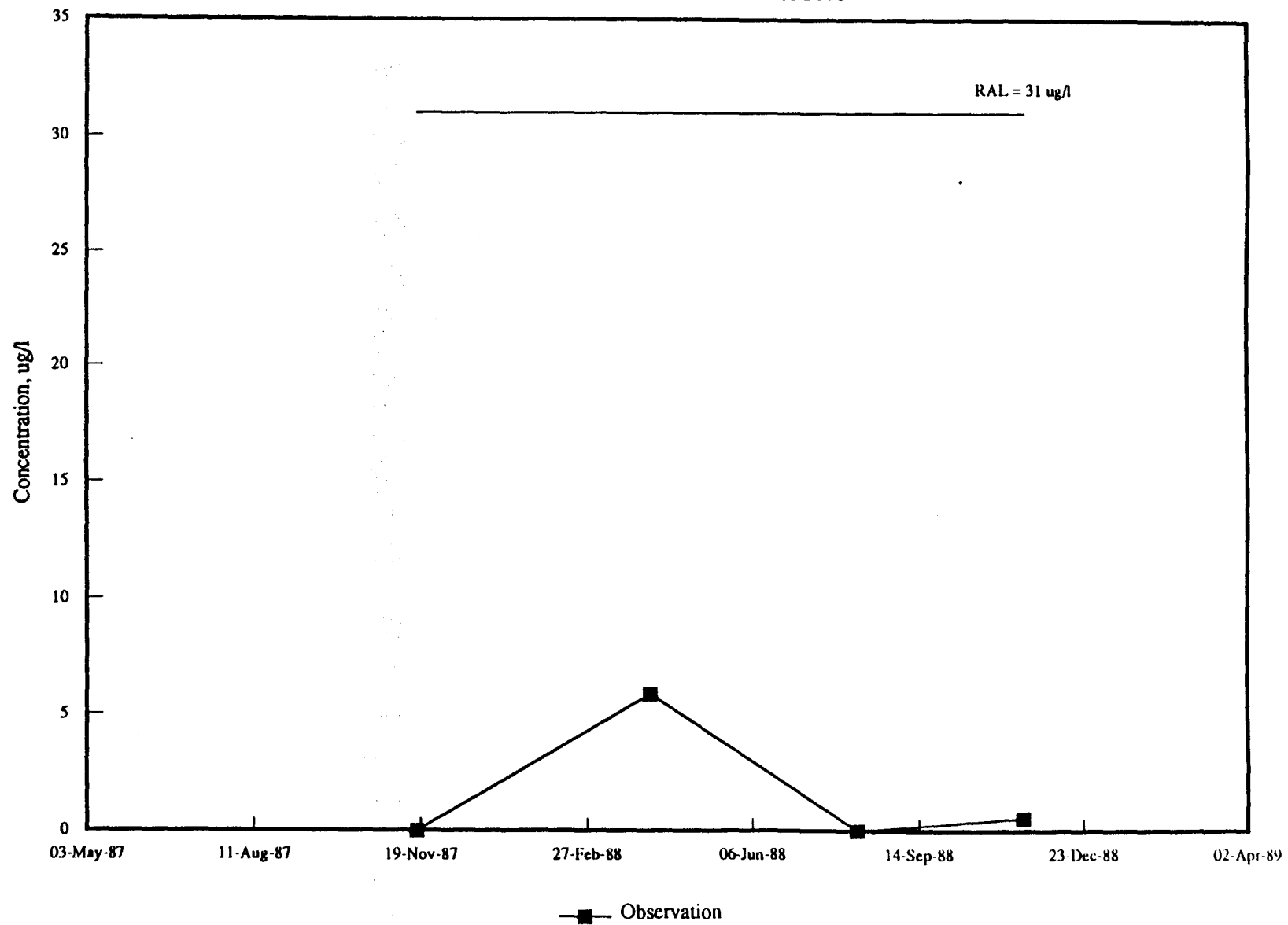
NICKEL - WELL 03U088



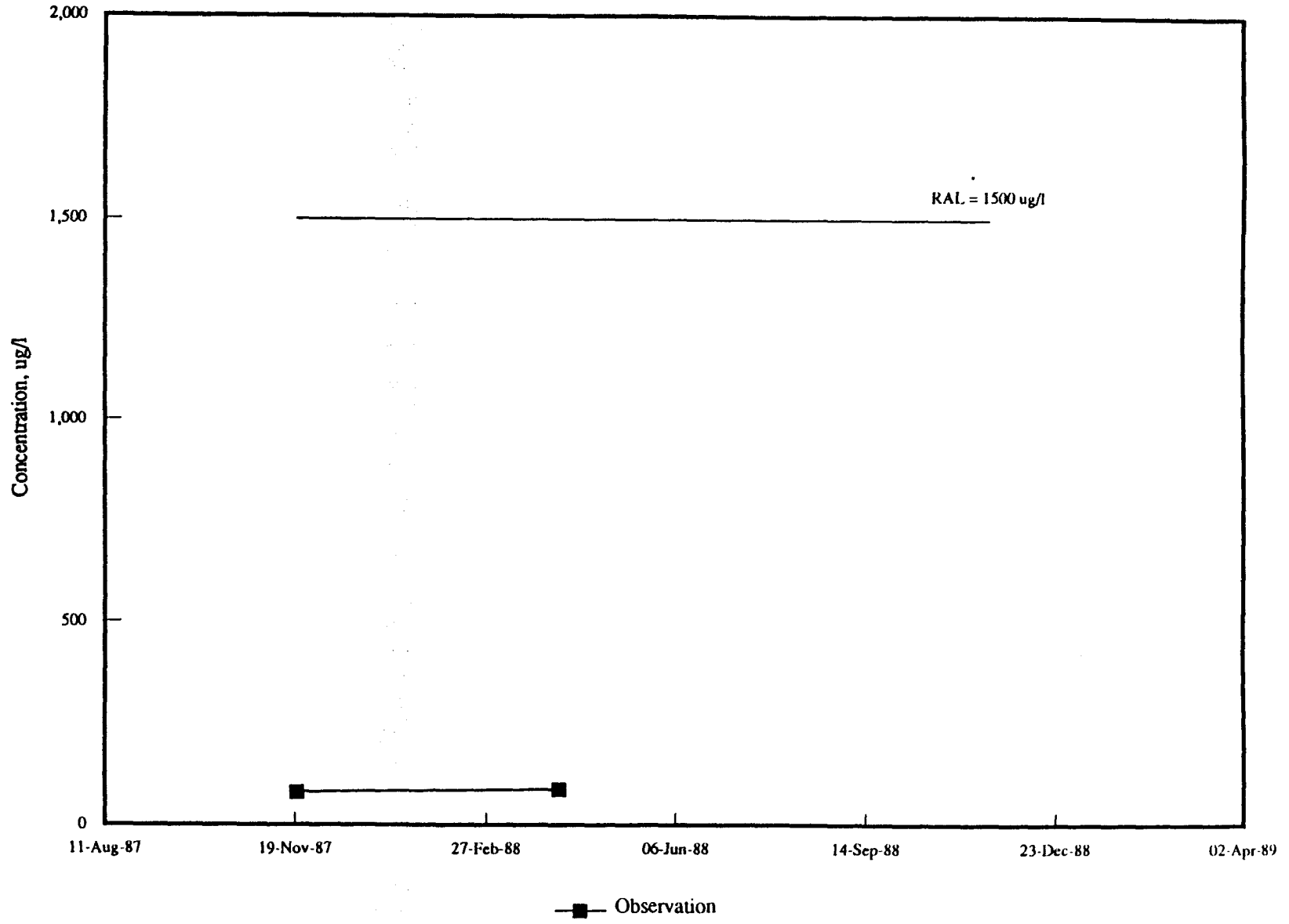
TETRACHLOROETHENE - WELL 03U088



TRICHLOROETHENE - WELL 03U088

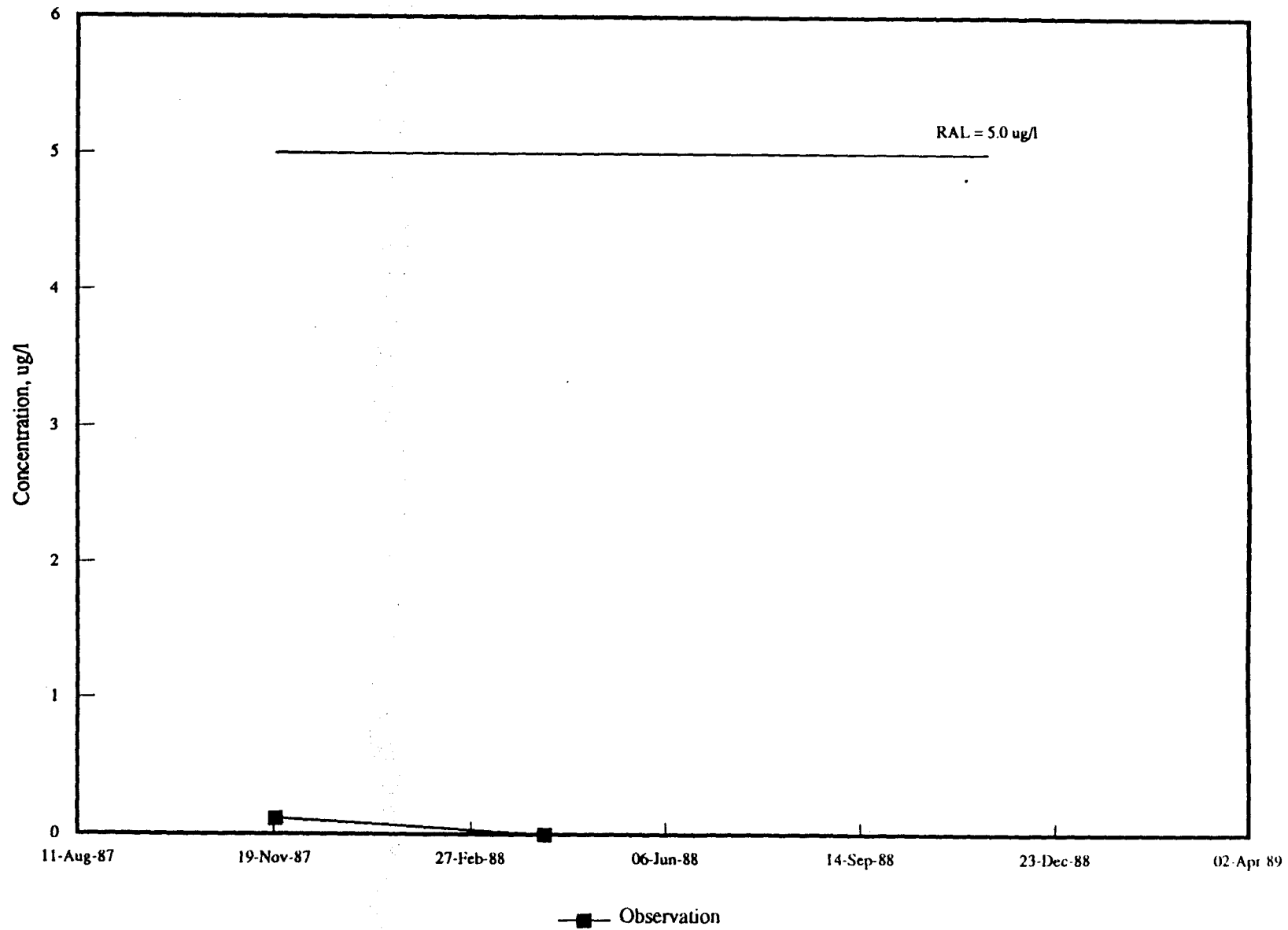


BARIUM - WELL 03U089

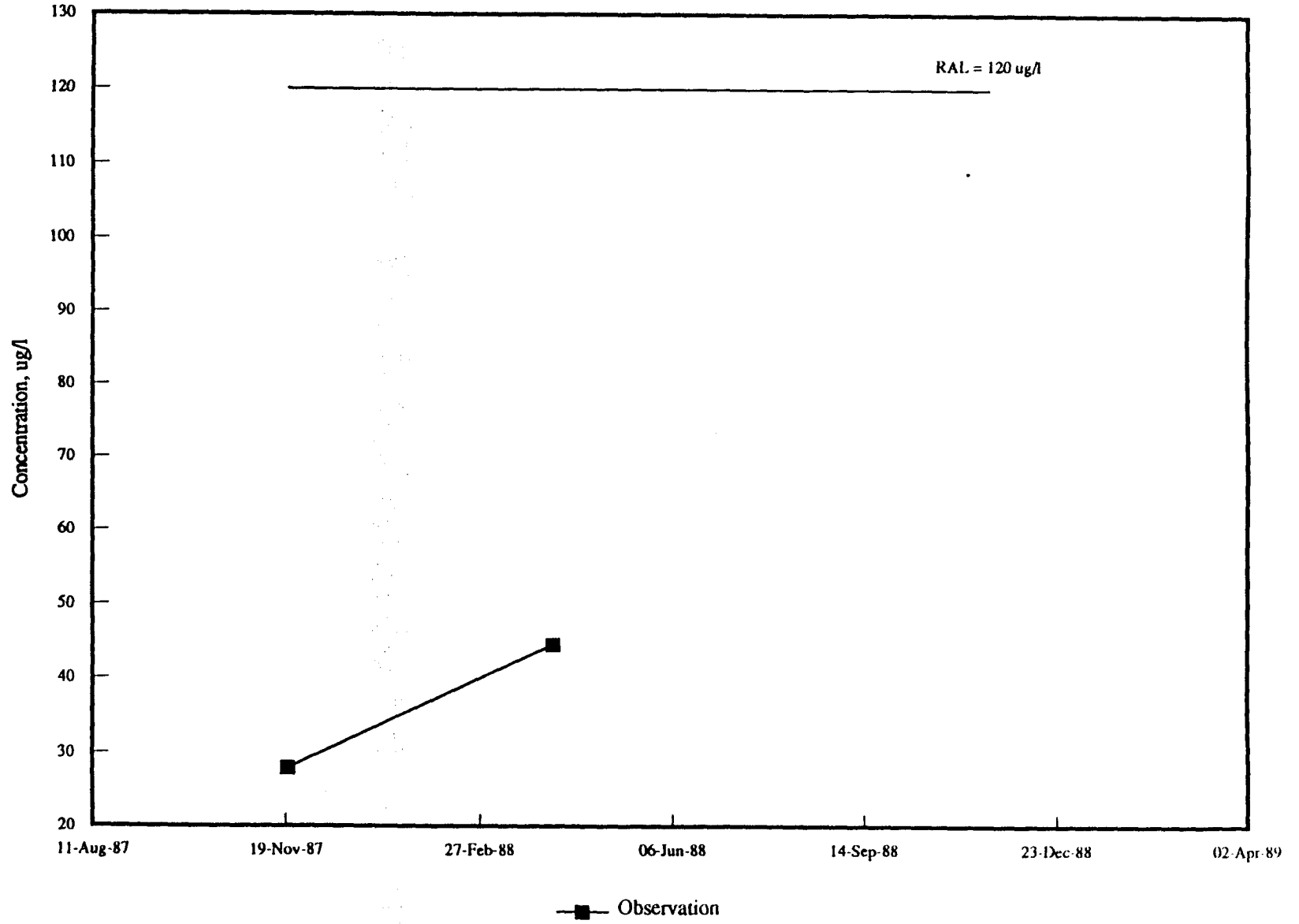




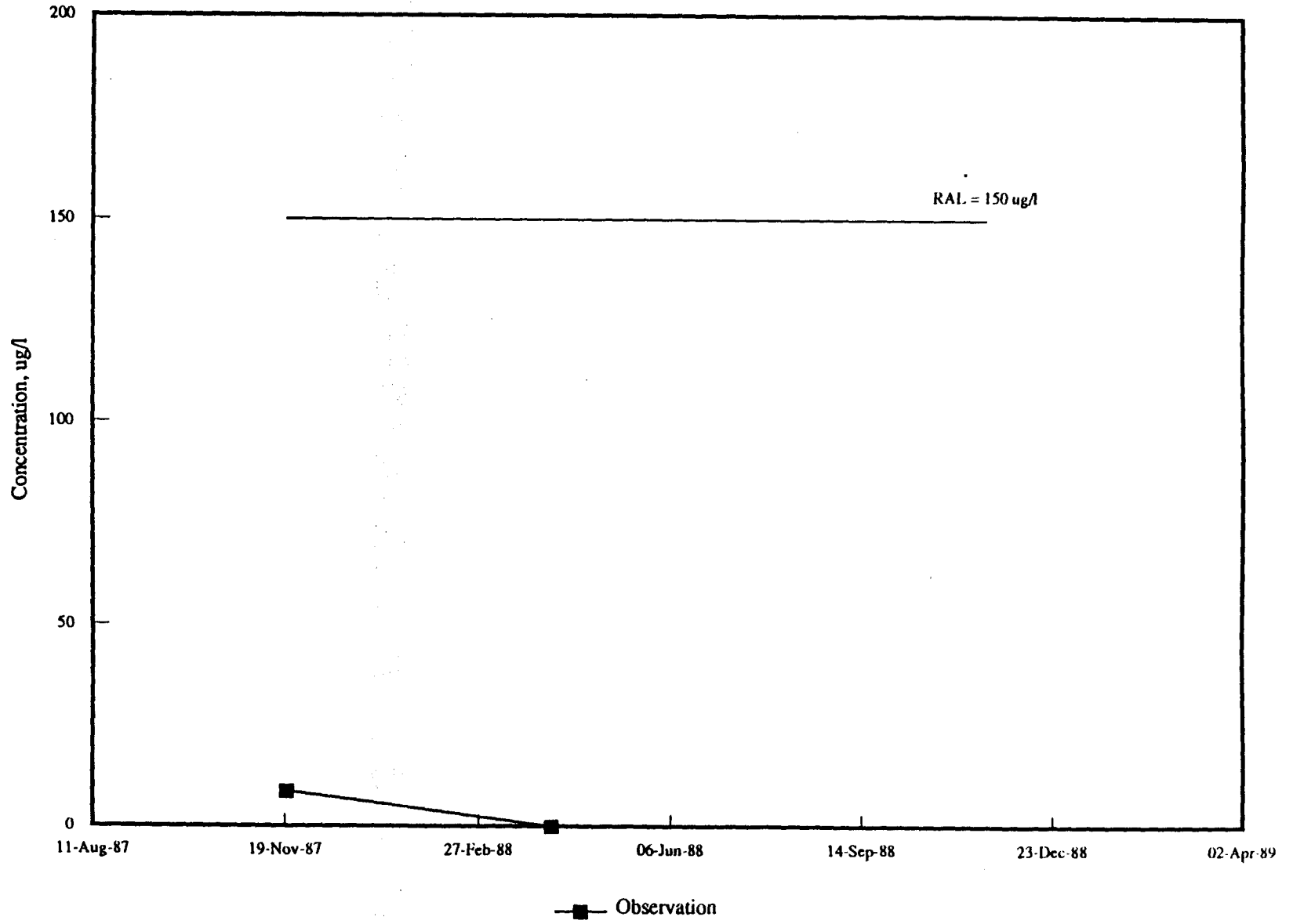
CADMIUM - WELL 03U089



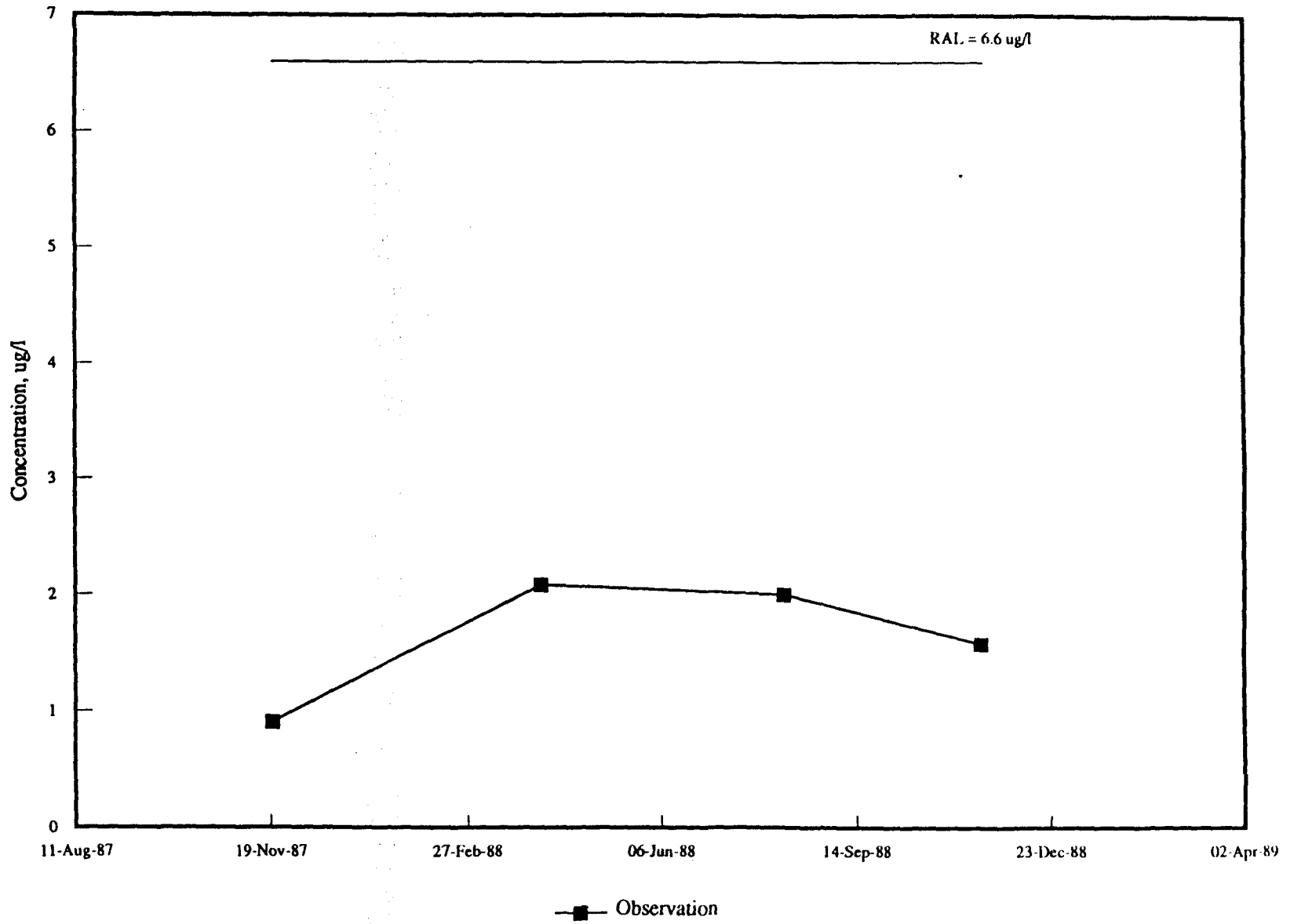
CHROMIUM - WELL 03U089



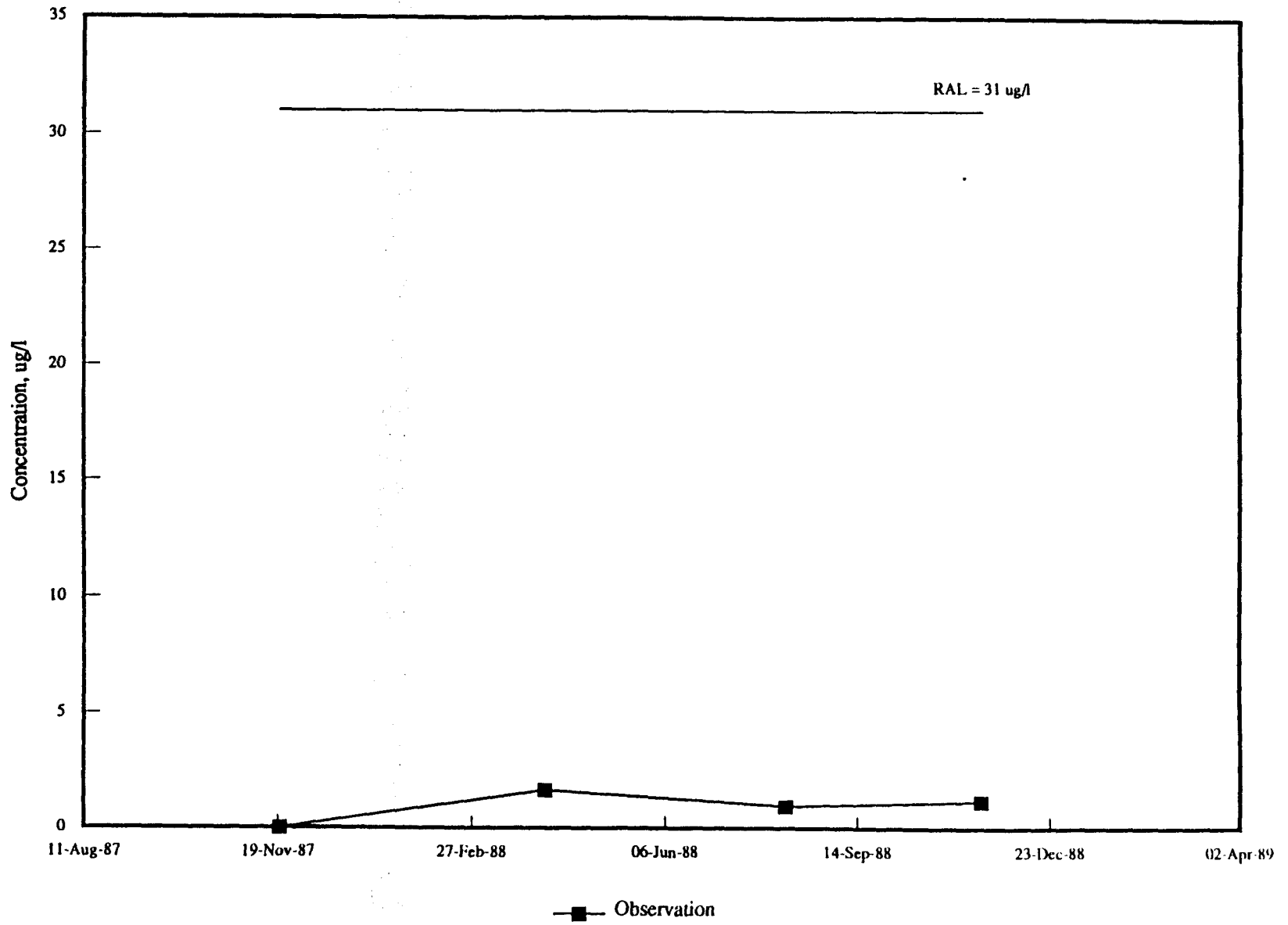
NICKEL - WELL 03U089



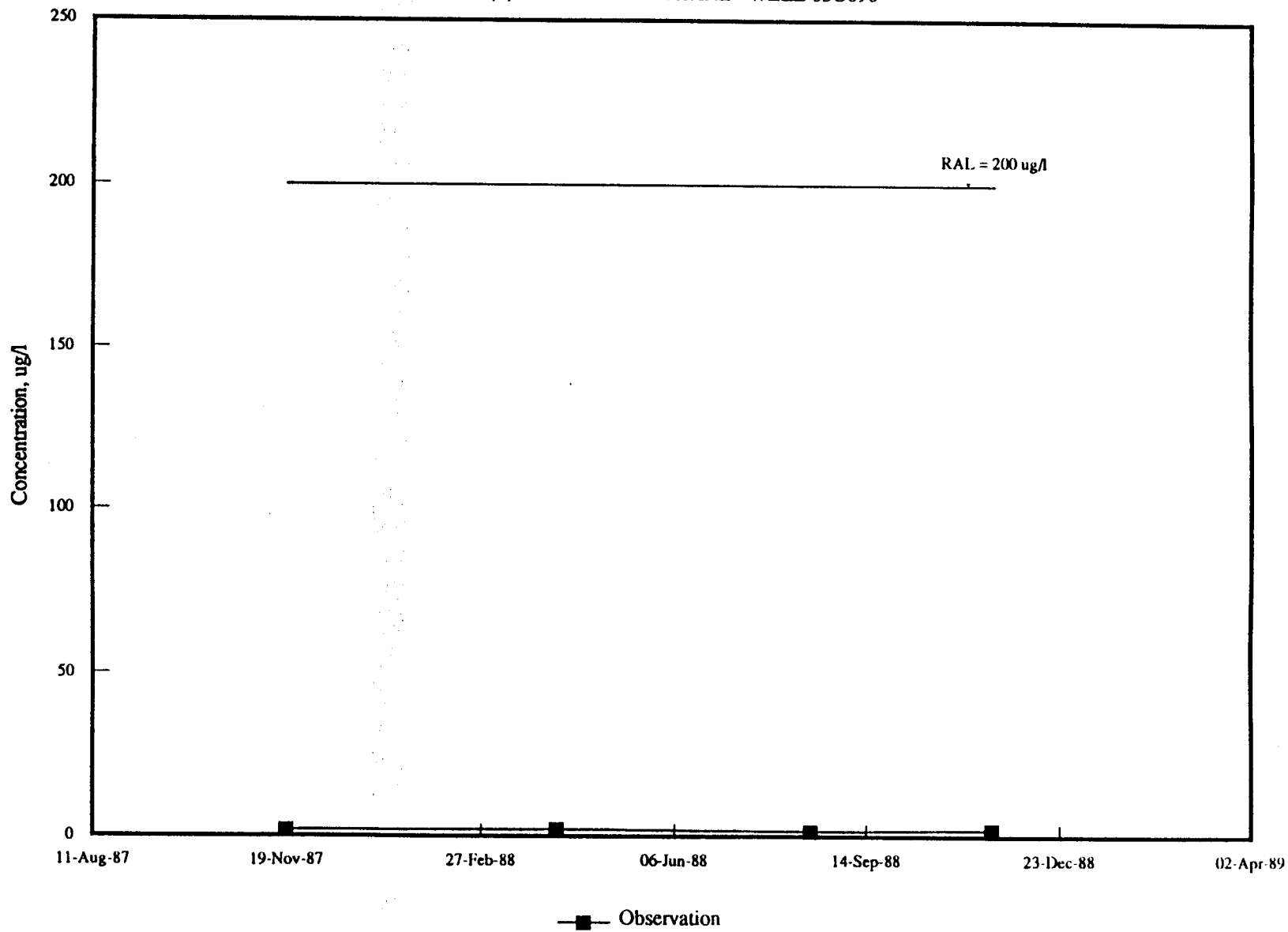
TETRACHLOROETHENE - WELL 03U089



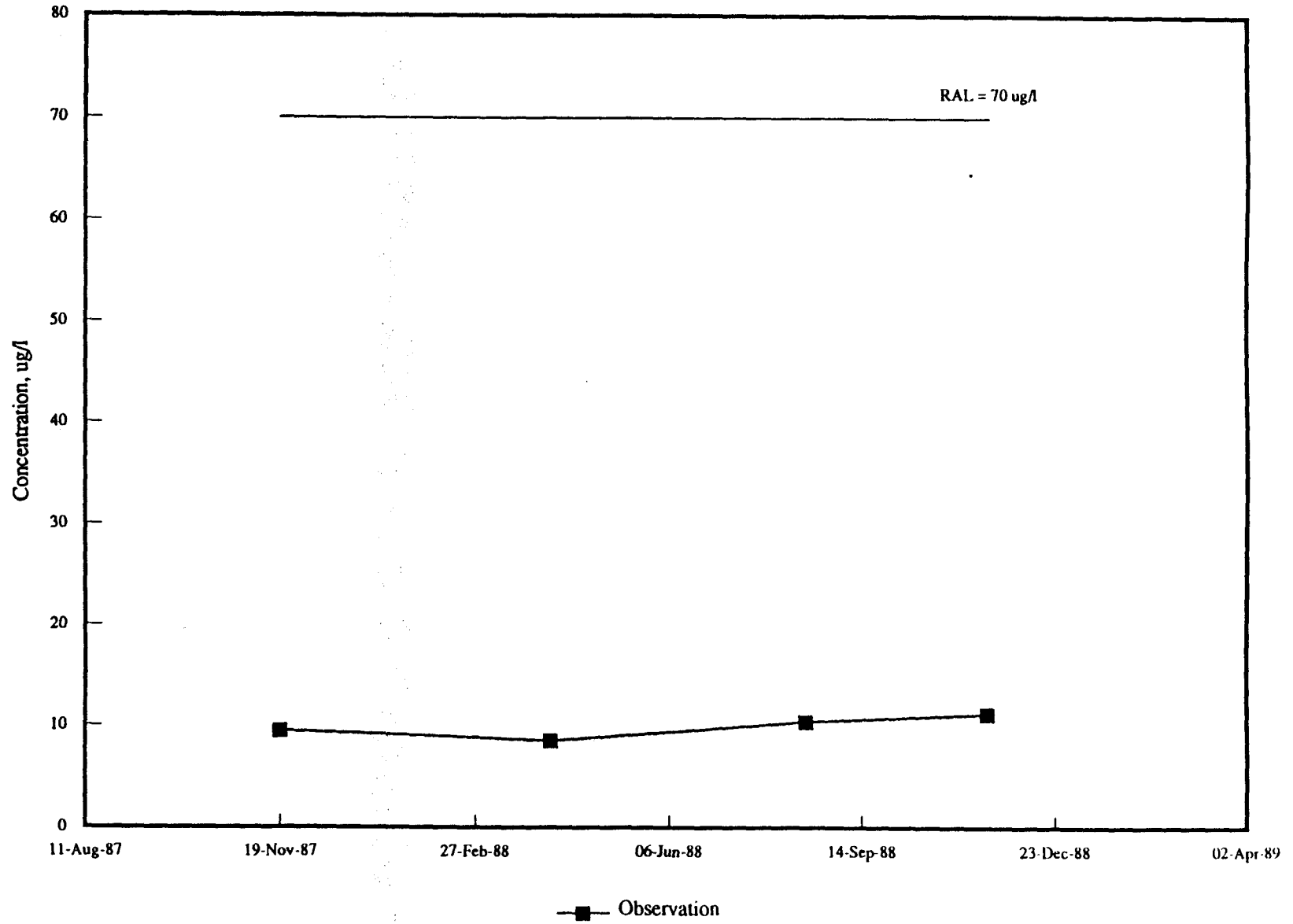
TRICHLOROETHENE - WELL 03U089



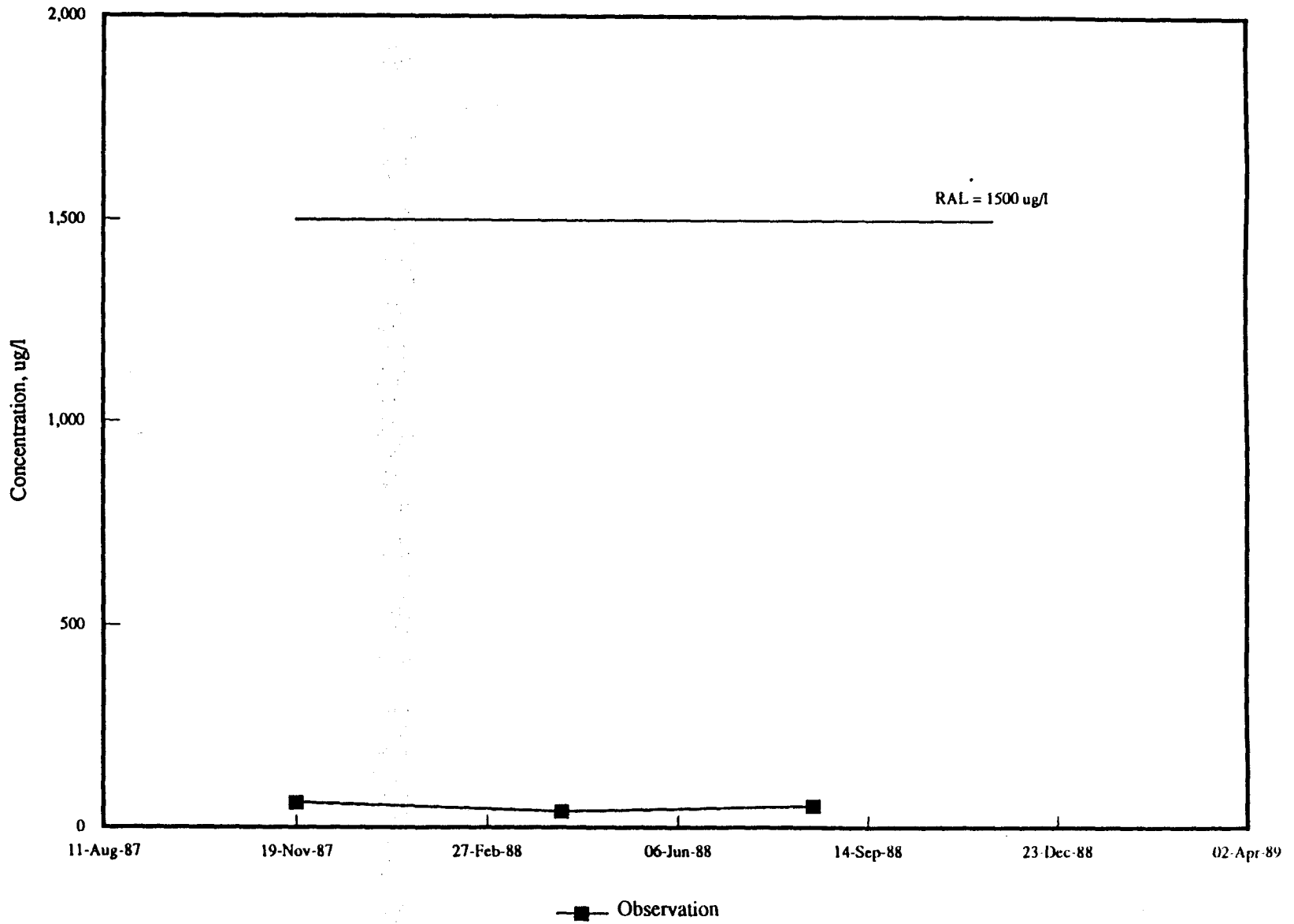
1,1,1-TRICHLOROETHANE - WELL 03U090



1,2-DICHLOROETHENE - WELL 03U090

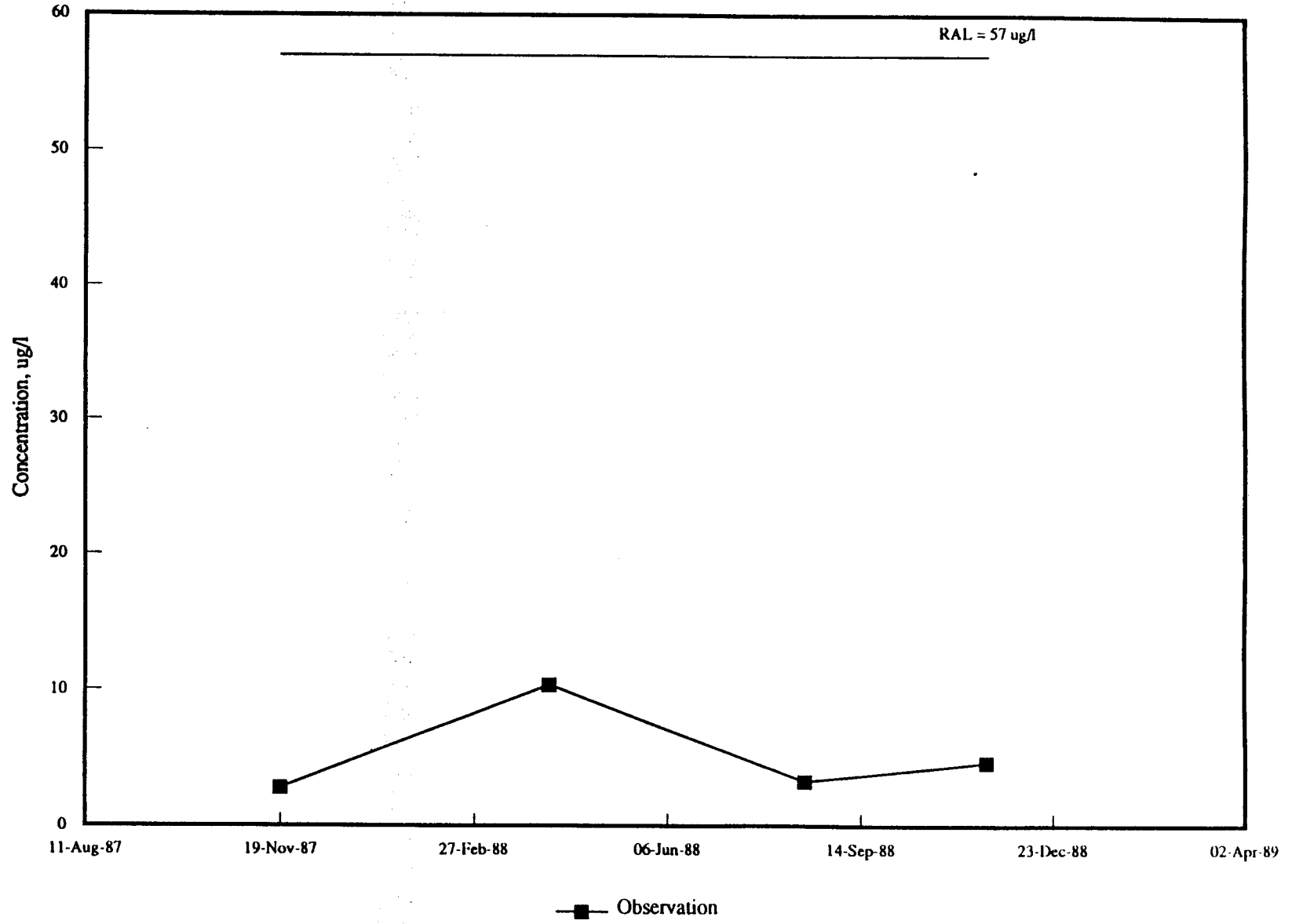


BARIUM - WELL 03U090

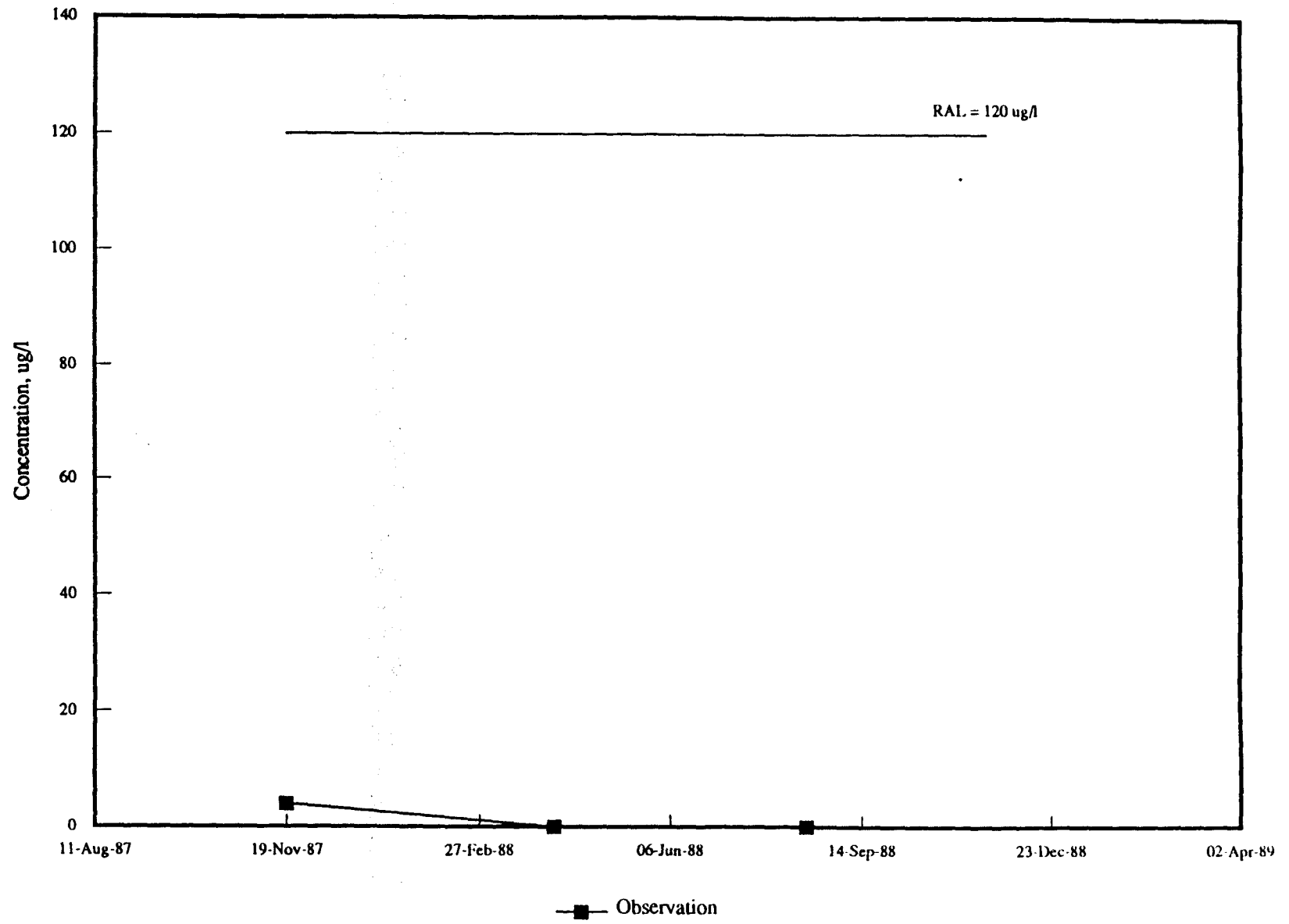




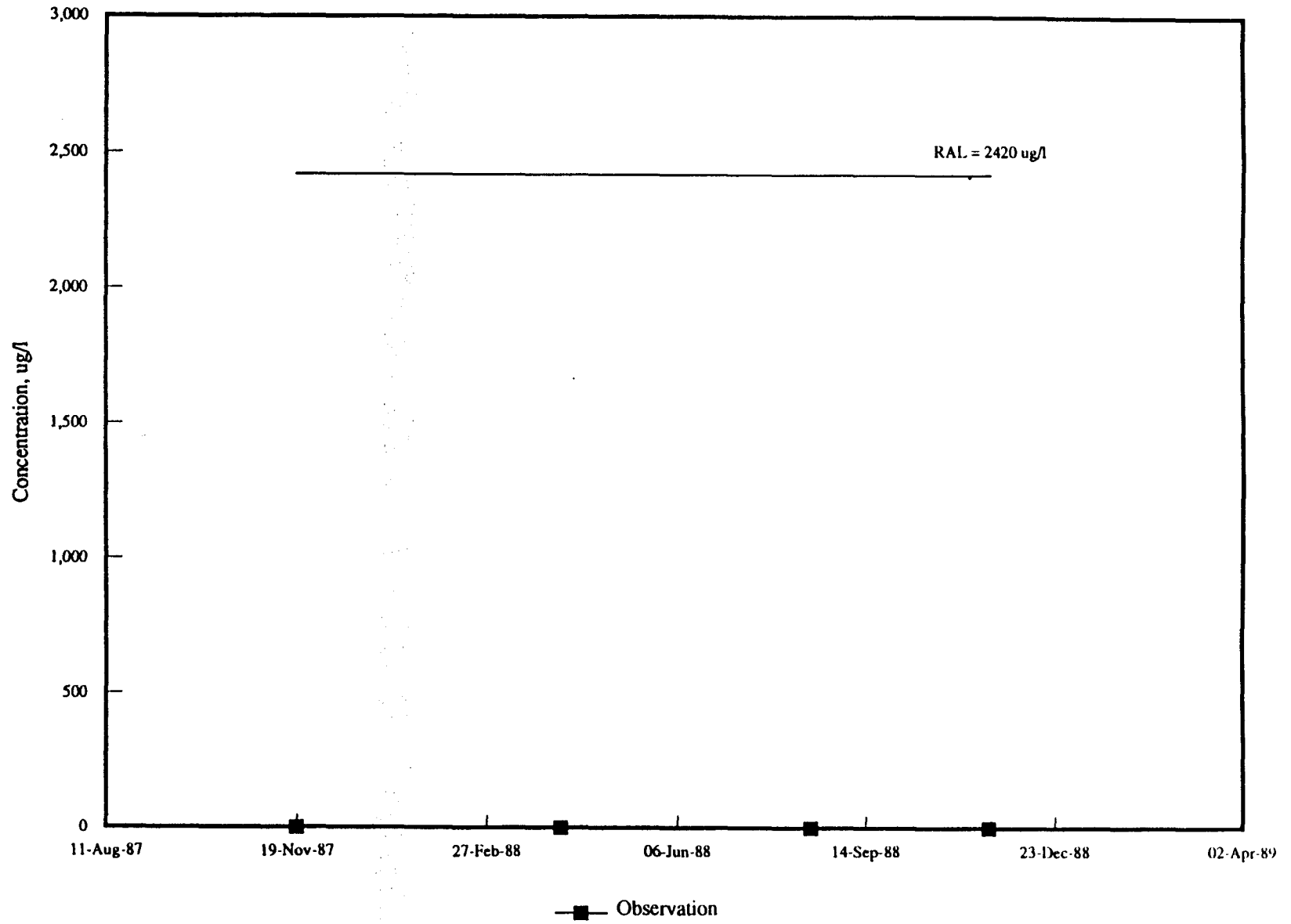
CHLOROFORM - WELL 03U090



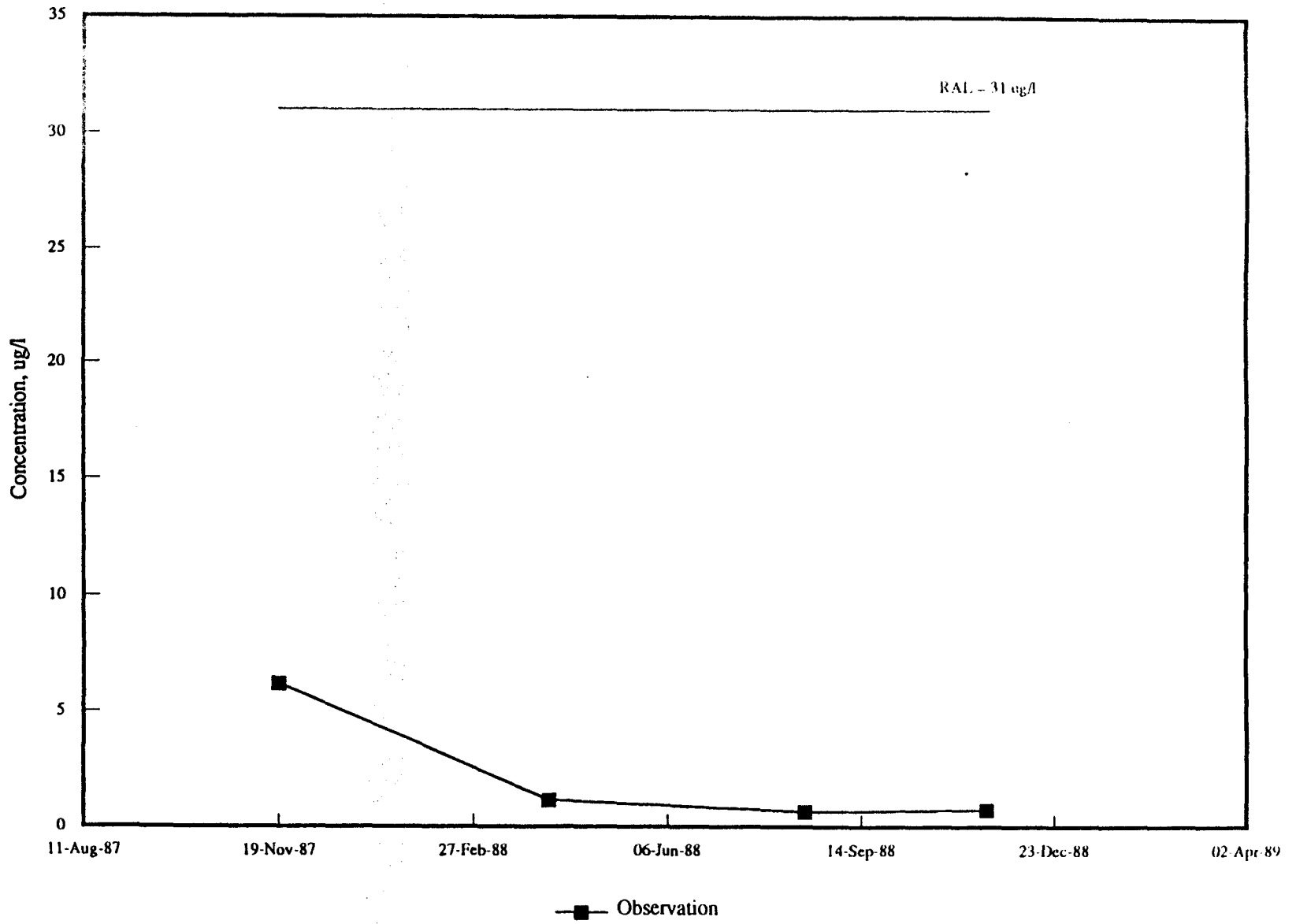
CHROMIUM - WELL 03U090



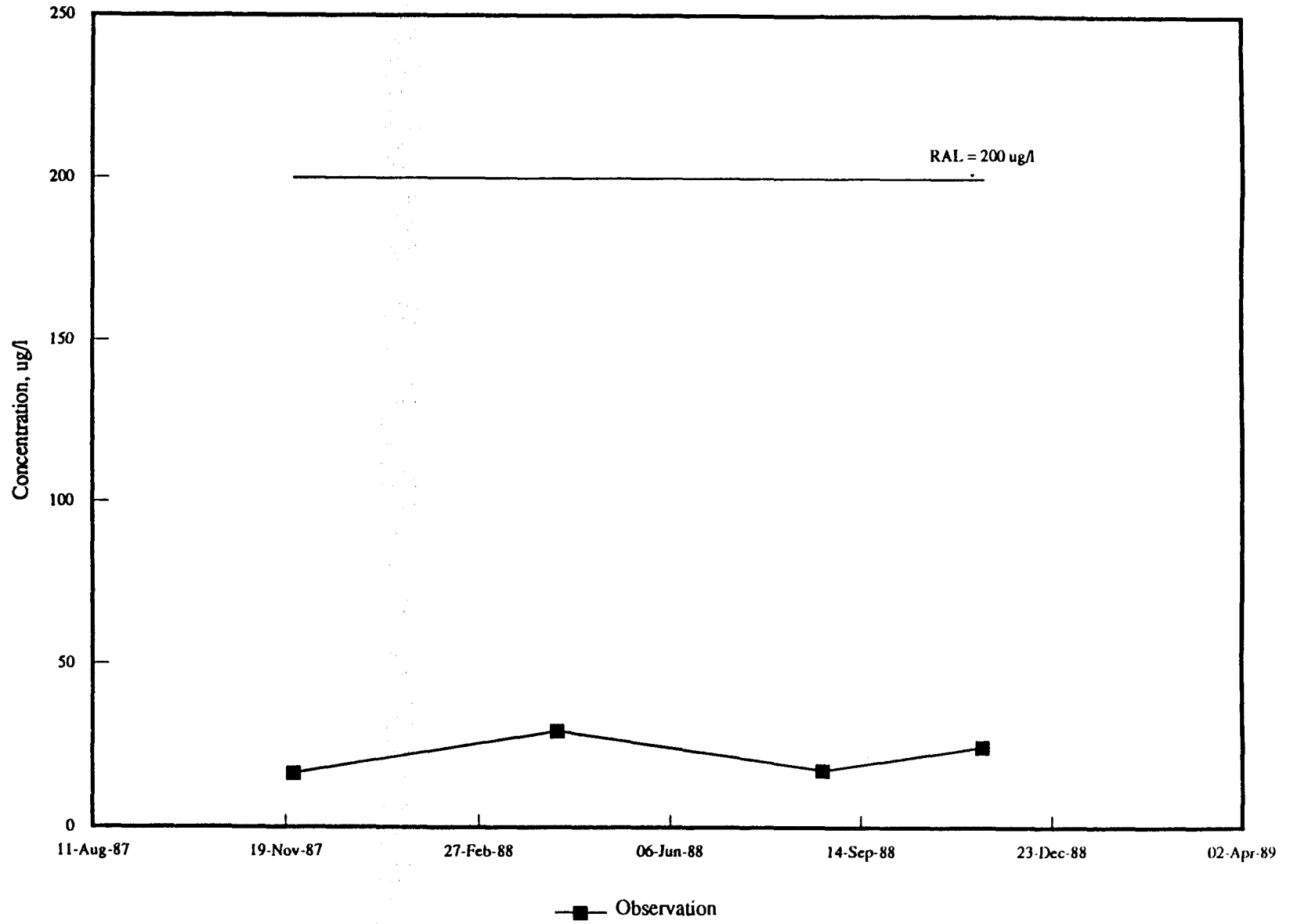
TOLUENE / METHYL BENZENE - WELL 03U090



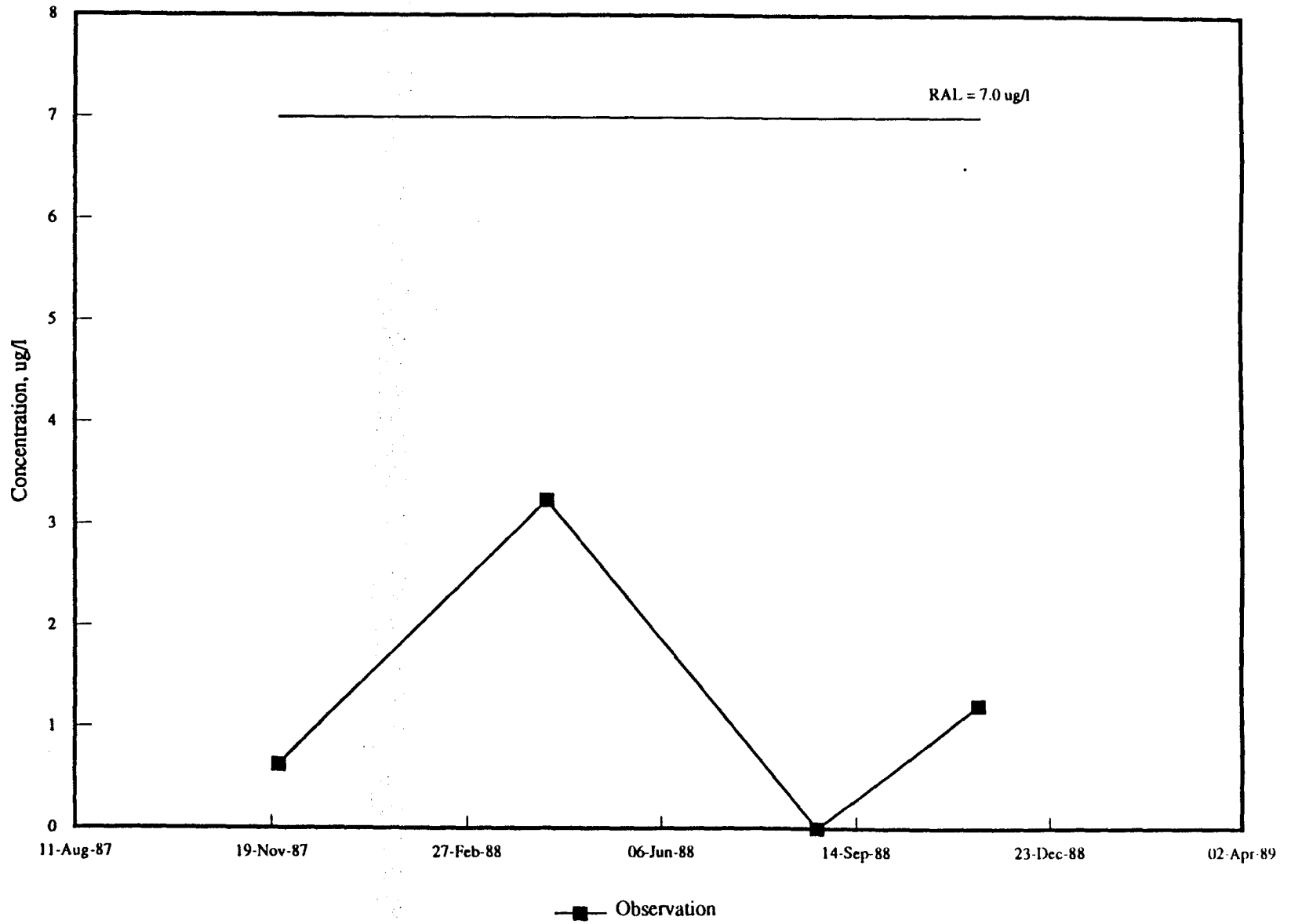
TRICHLOROETHENE - WELL 03U090



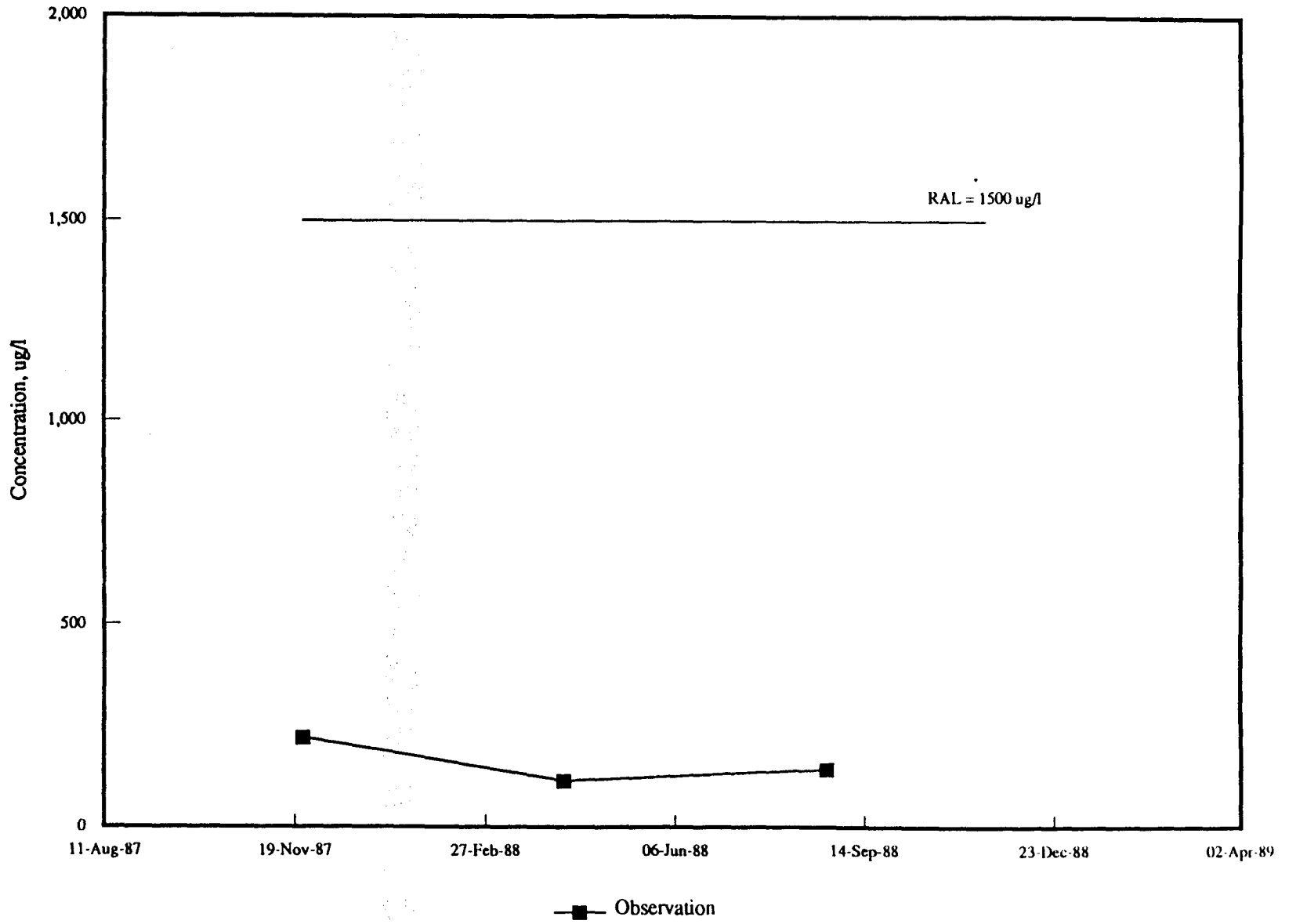
1,1,1-TRICHLOROETHANE - WELL 03U092



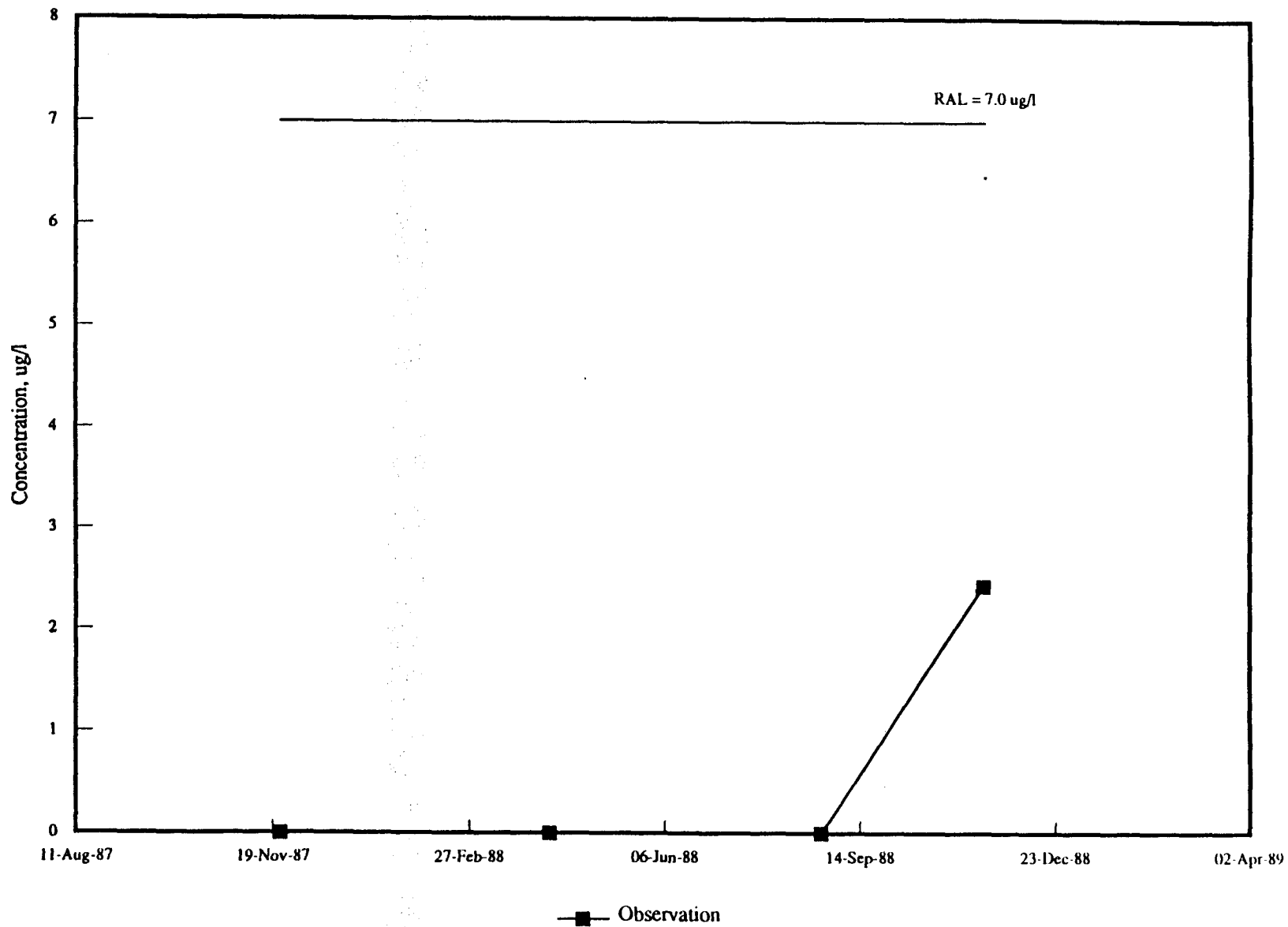
1,1-DICHLOROETHENE - WELL 03U092



BARIUM - WELL 03U092

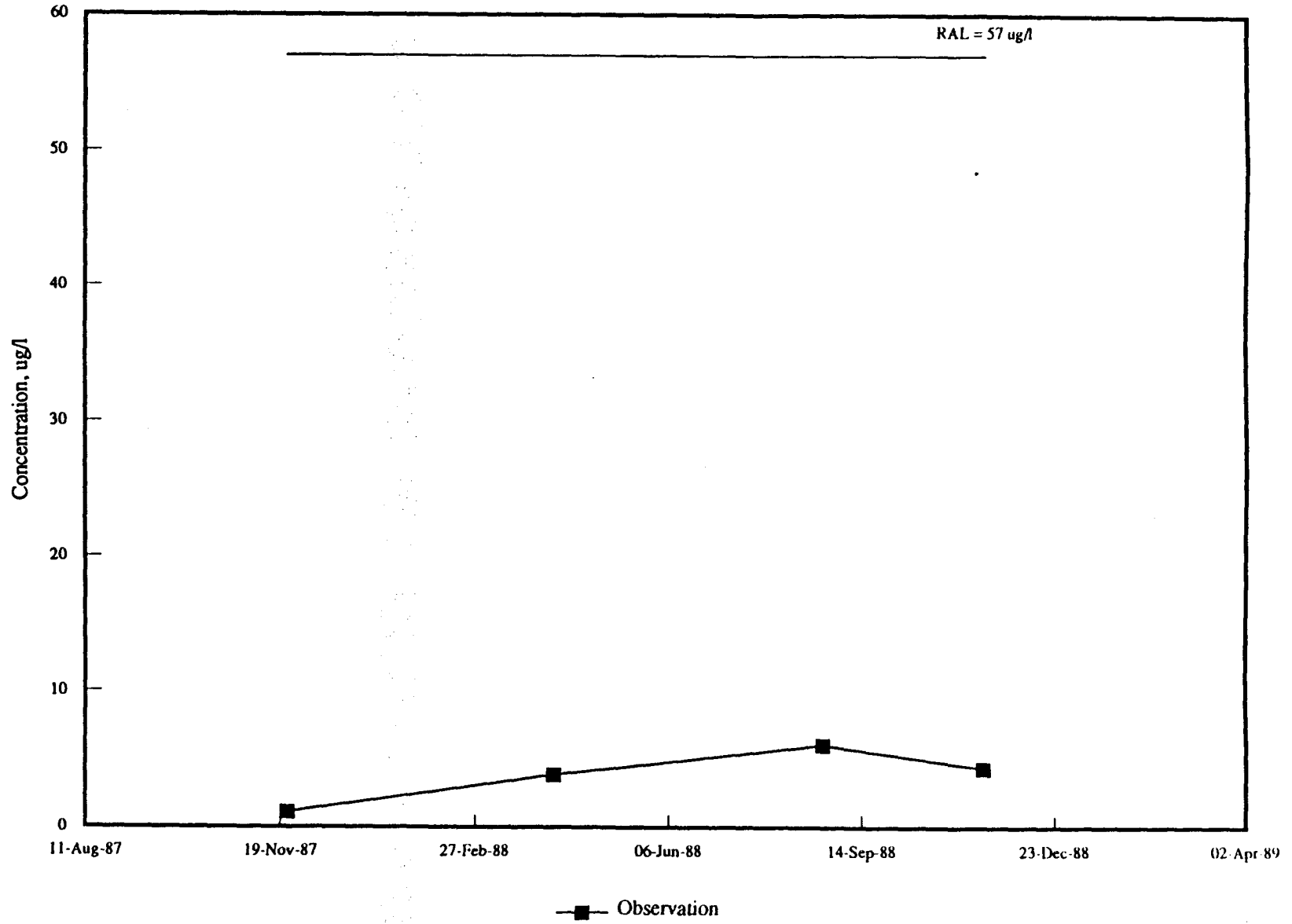


BENZENE - WELL 03U092

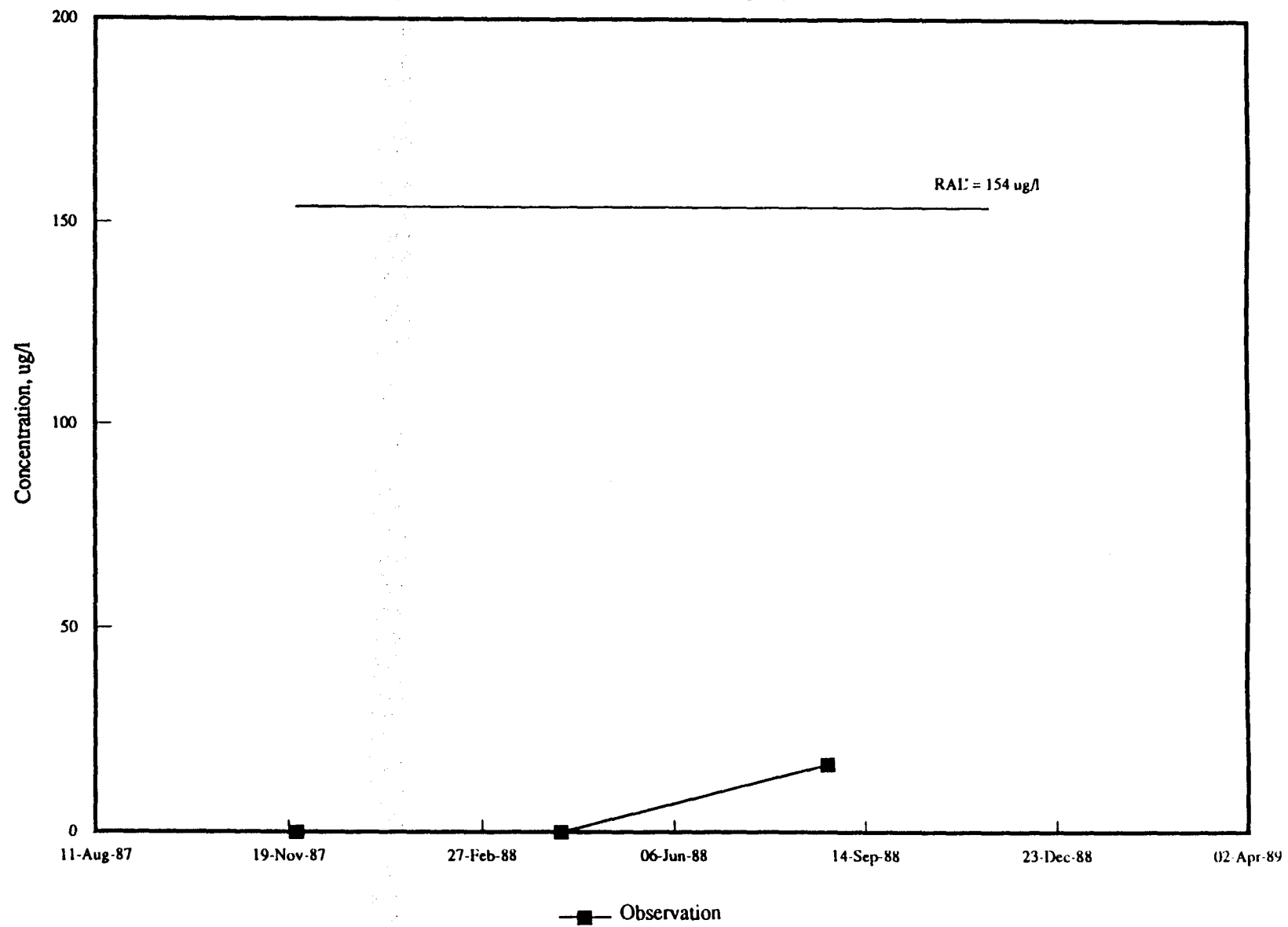




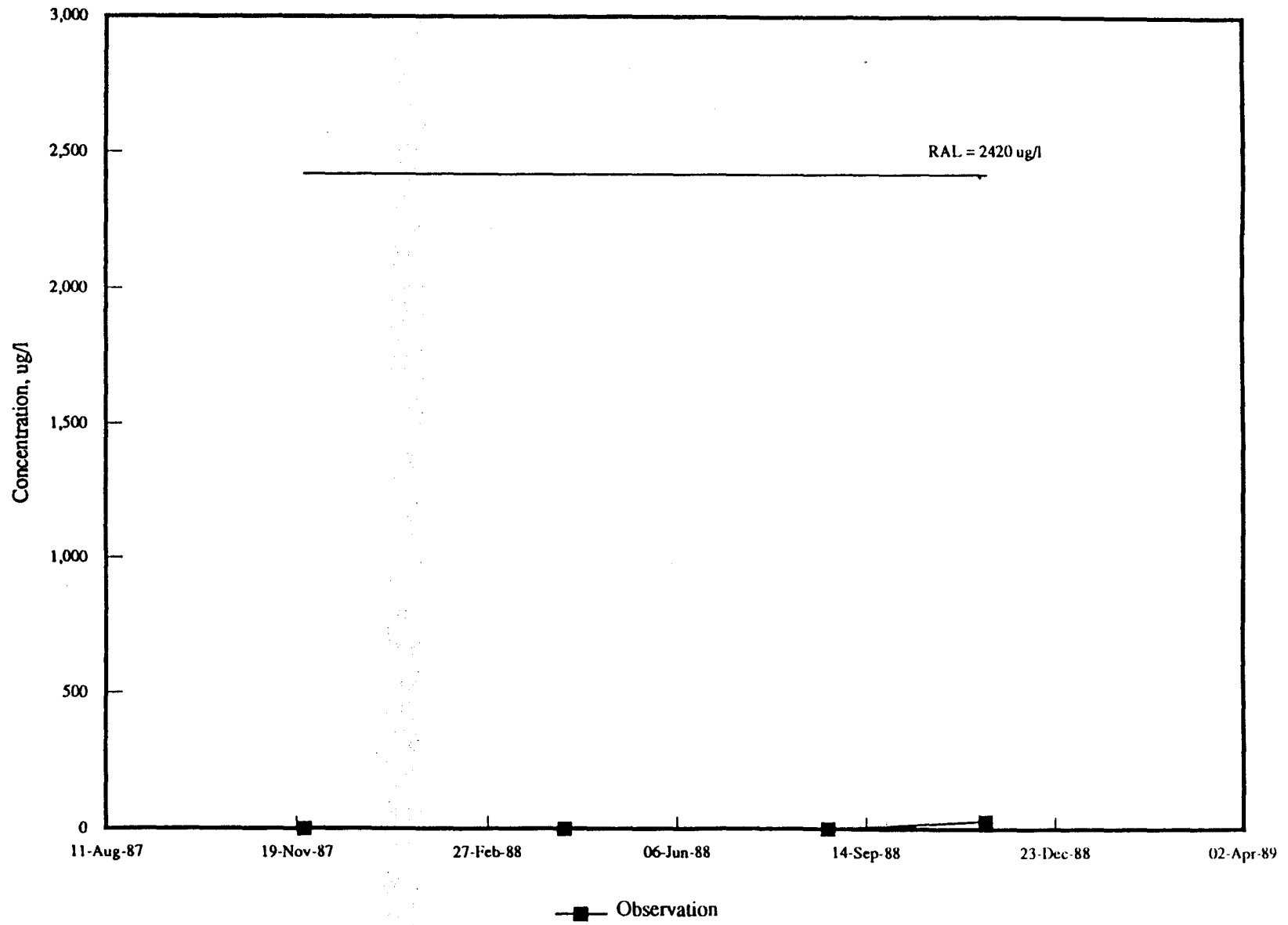
CHLOROFORM - WELL 03U092



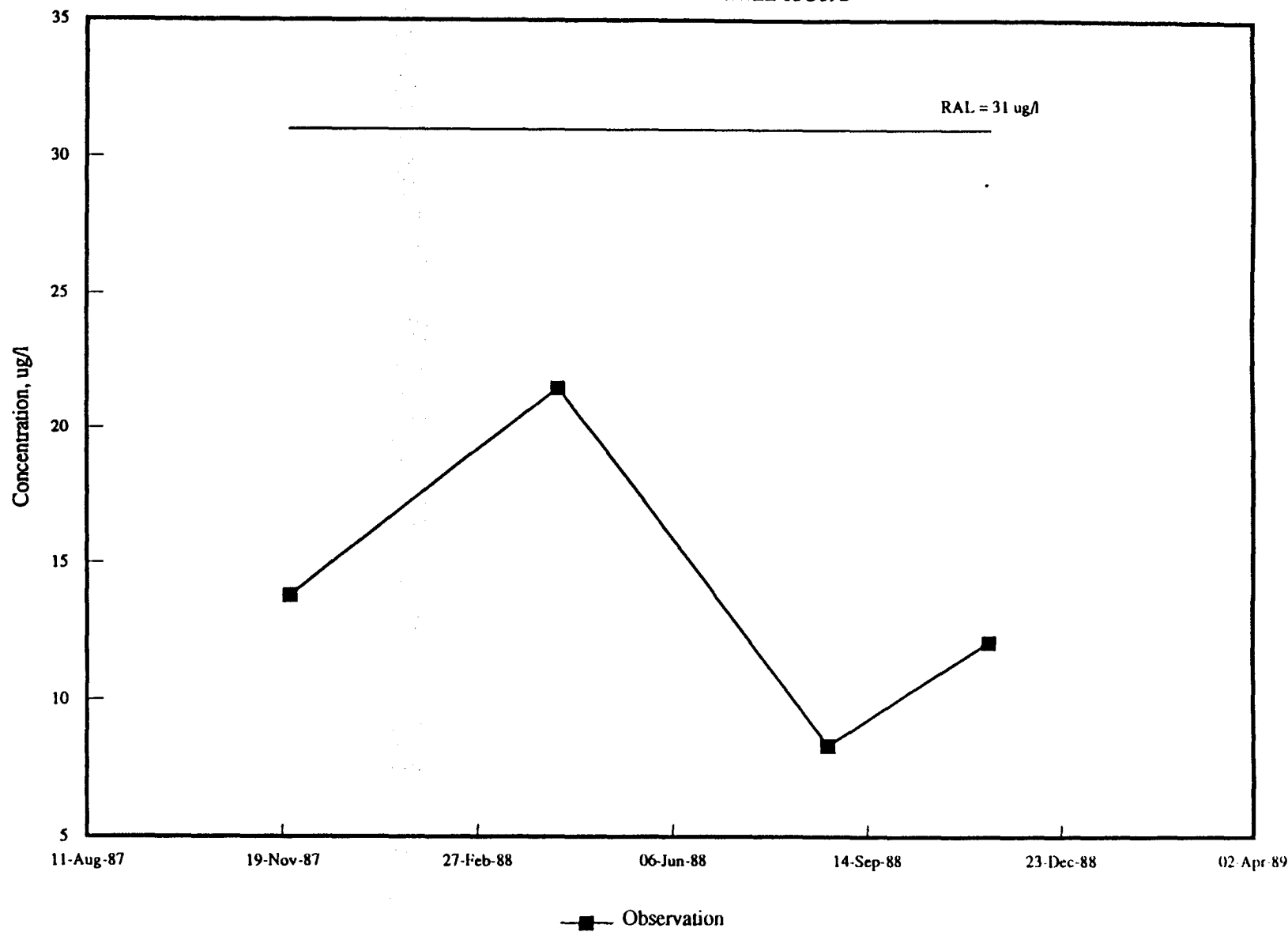
CYANIDE - WELL 03U092



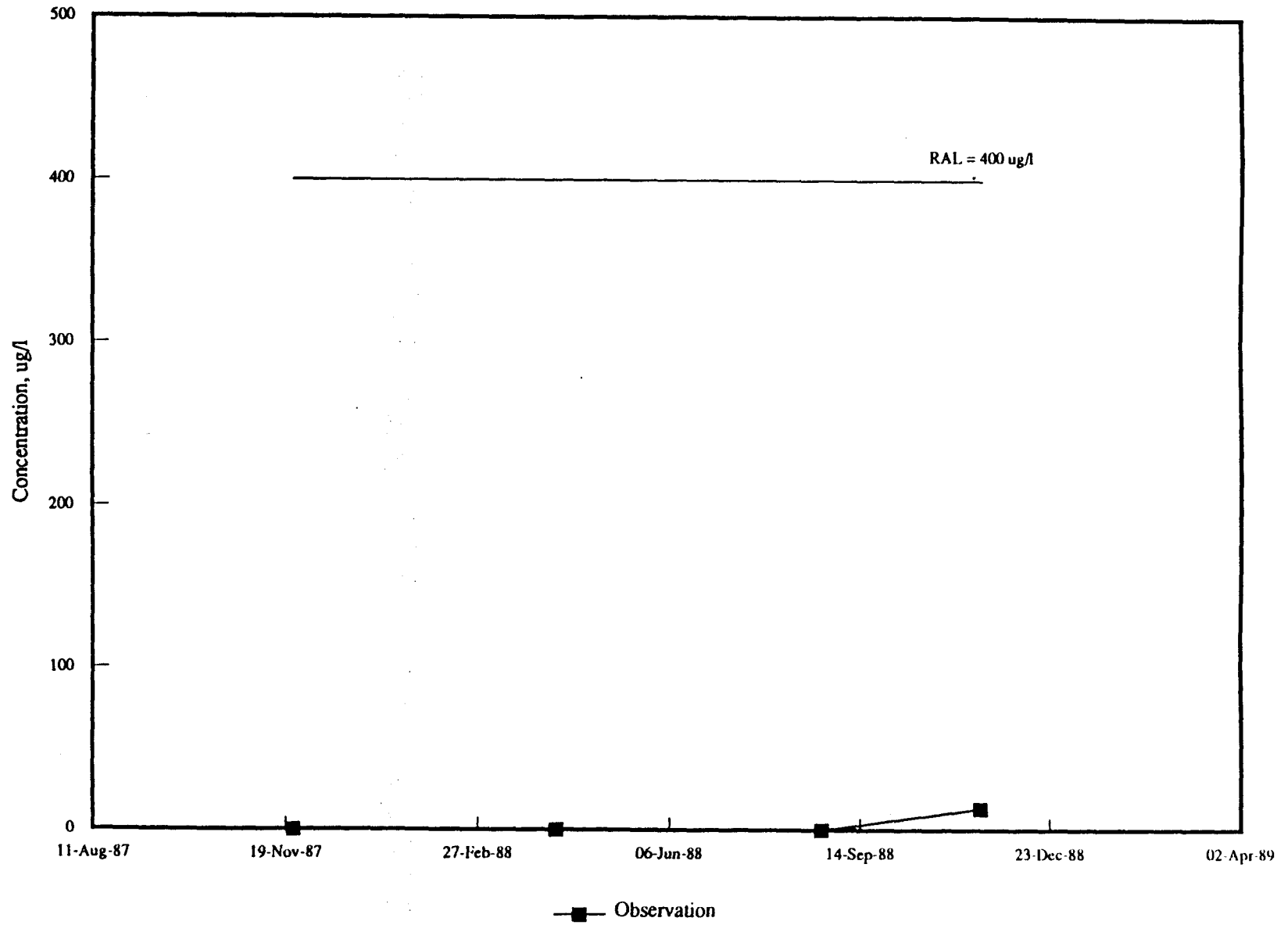
TOLUENE / METHYL BENZENE - WELL 03U092



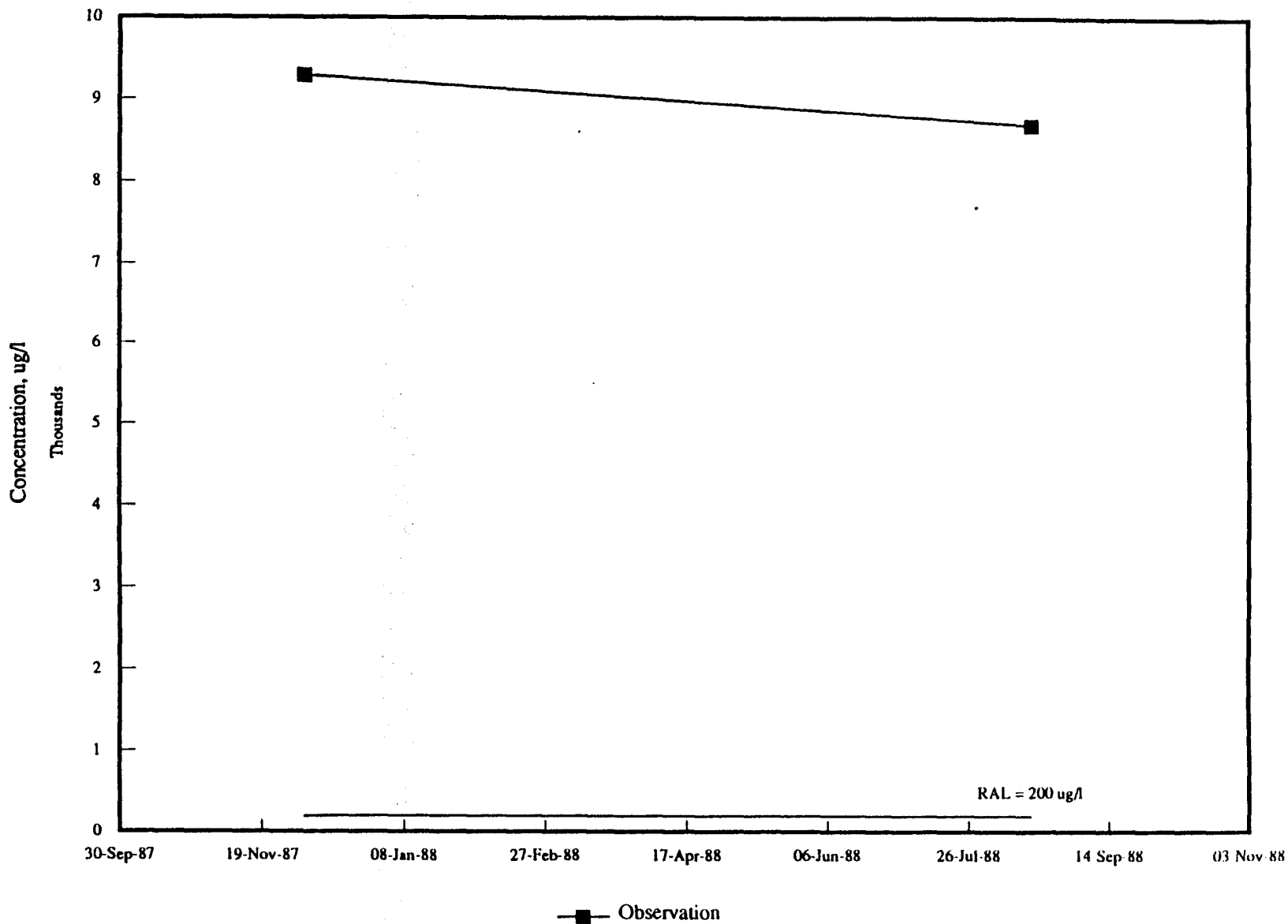
TRICHLOROETHENE - WELL 03U092



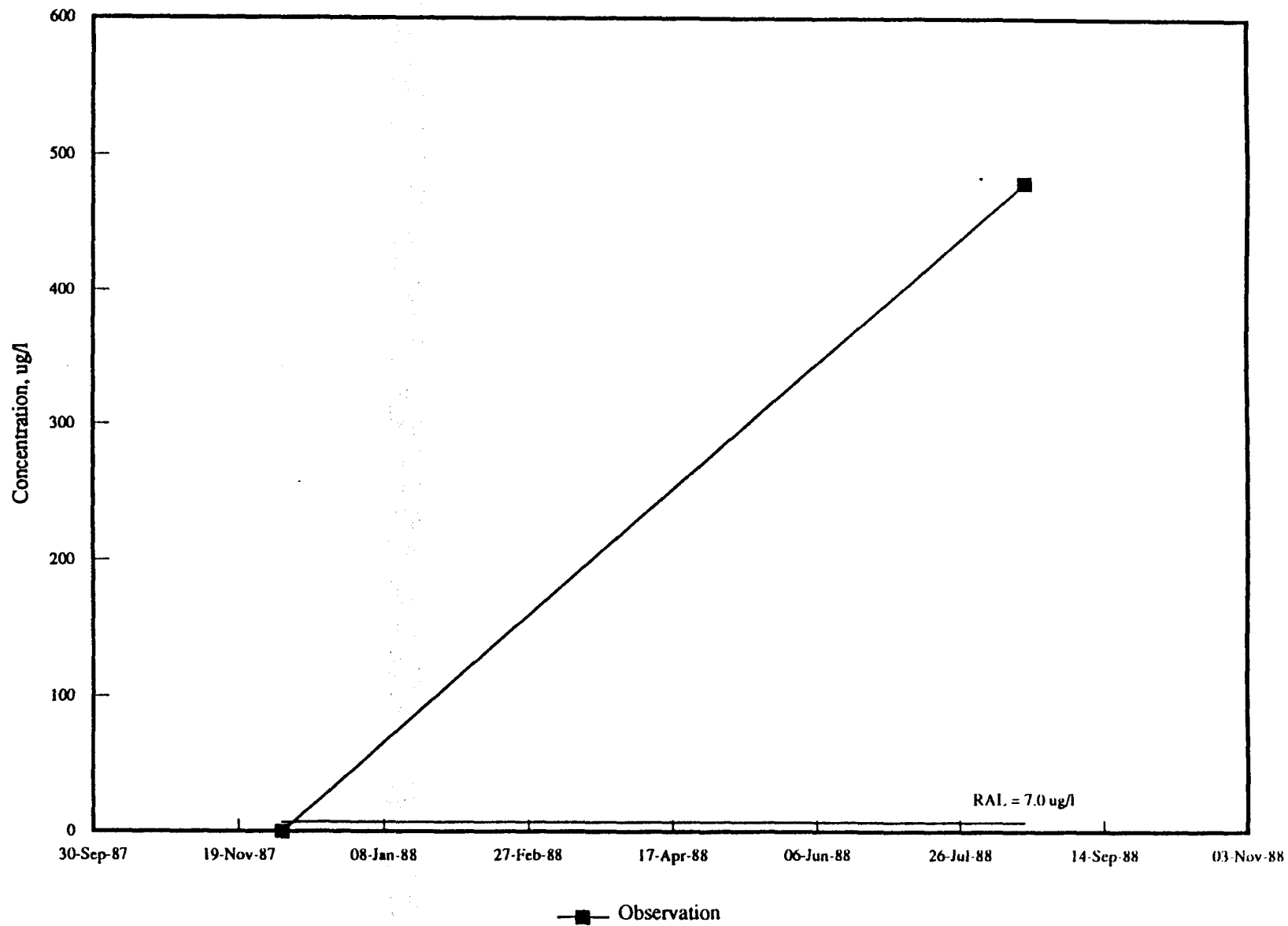
TOTAL XYLENES - WELL 03U092



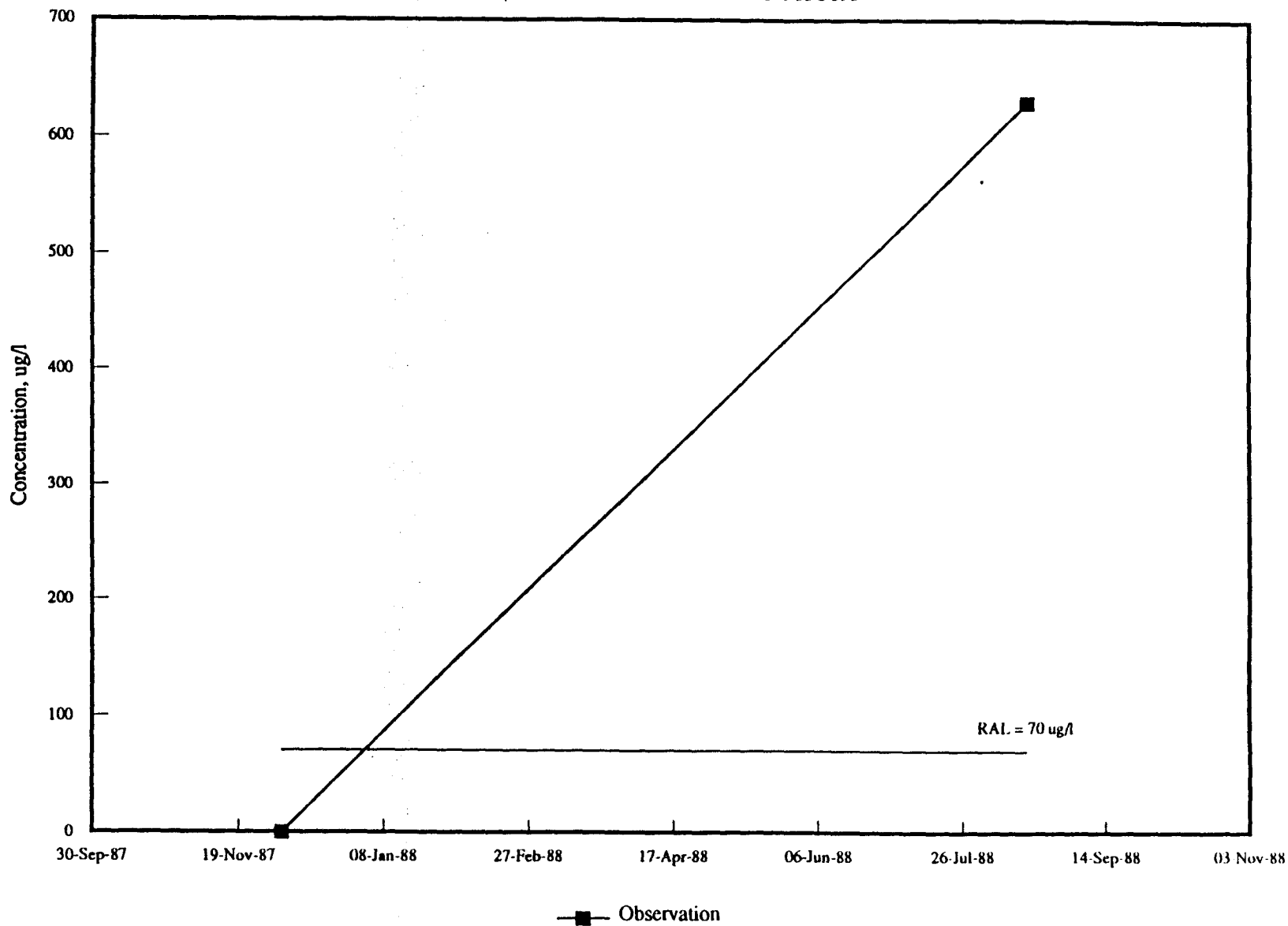
1,1,1-TRICHLOROETHANE - WELL 03U093



1,1-DICHLOROETHENE - WELL 03U093

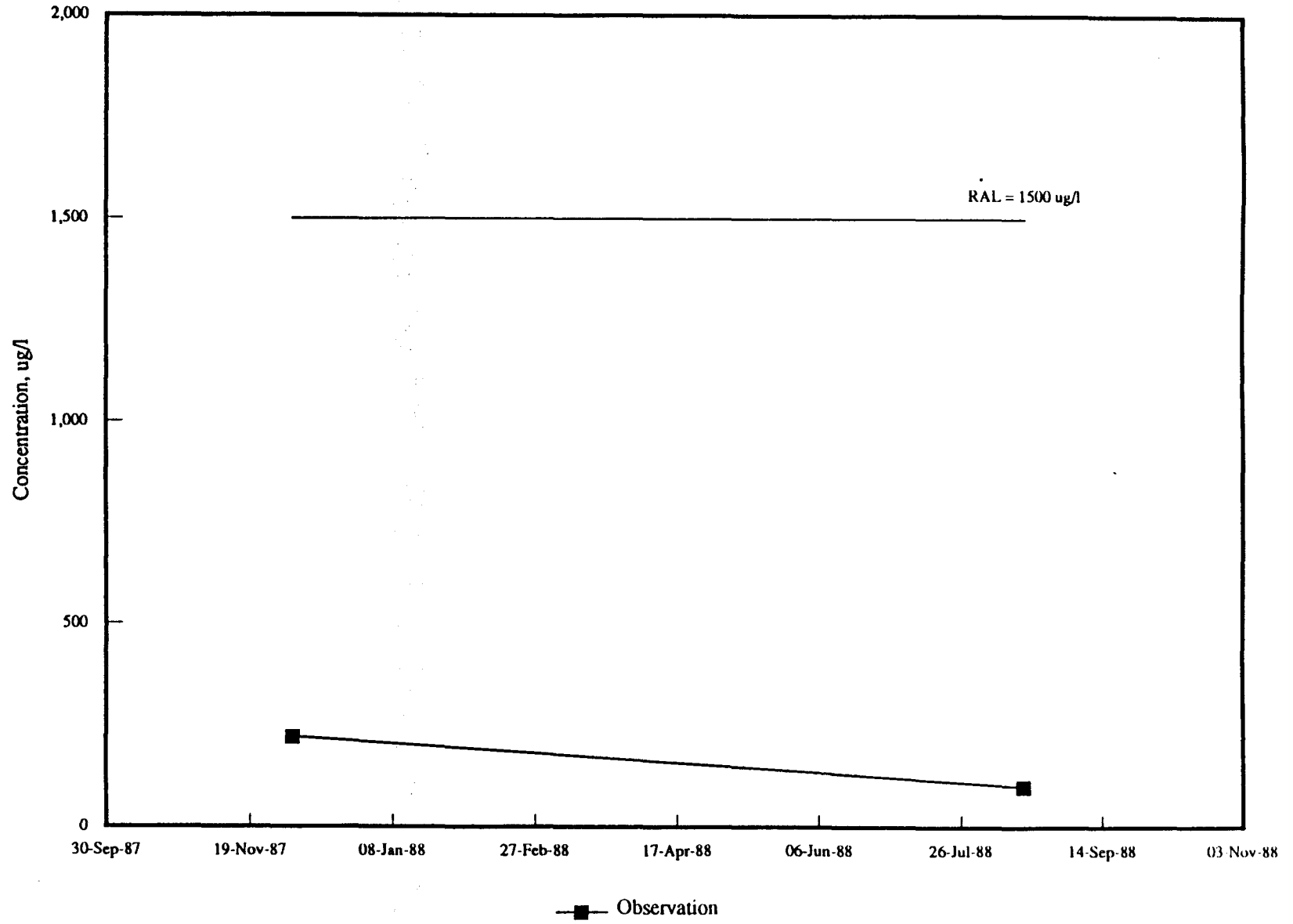


1,2-DICHLOROETHENE - WELL 03U093

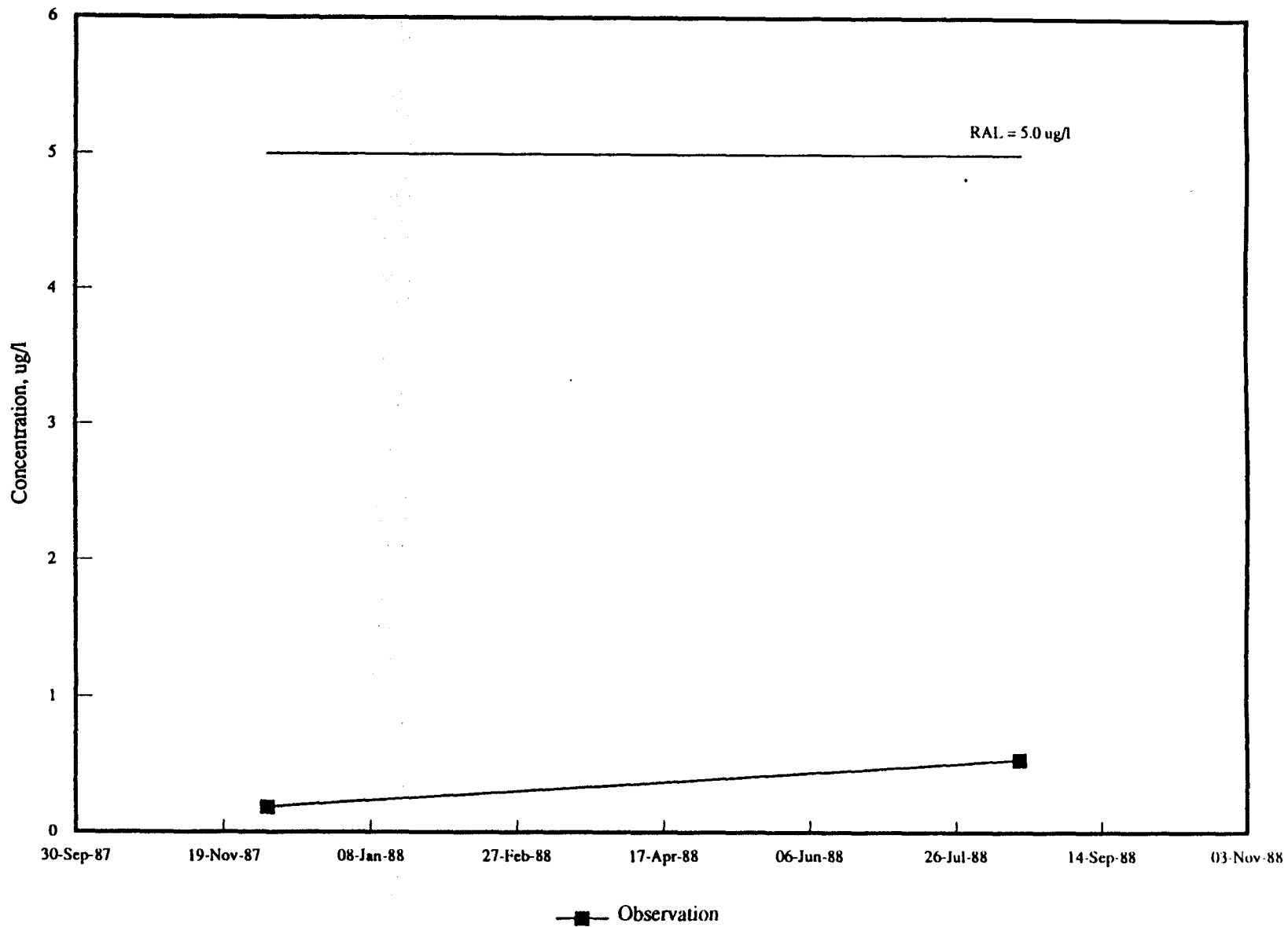




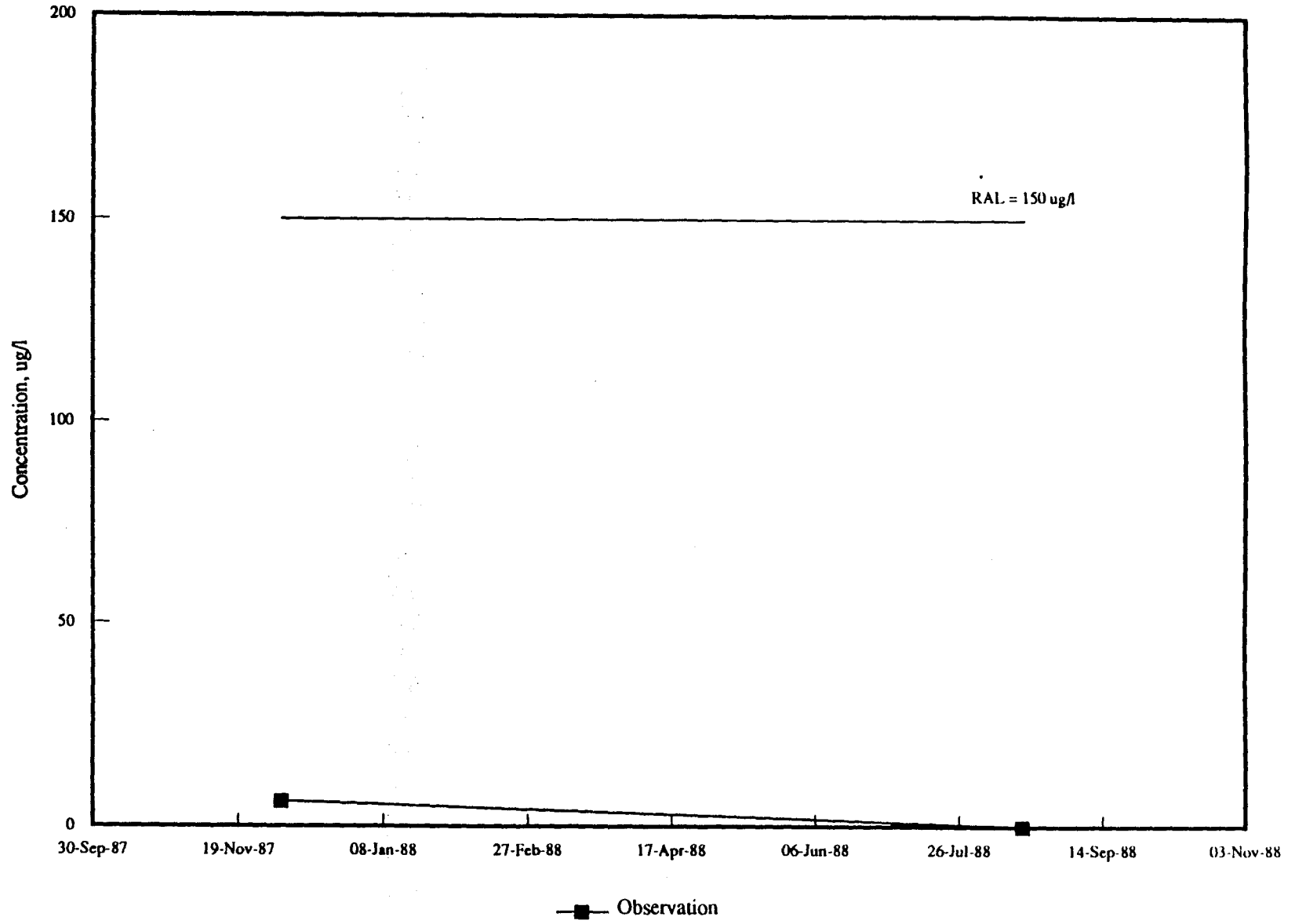
BARIUM - WELL 03U093



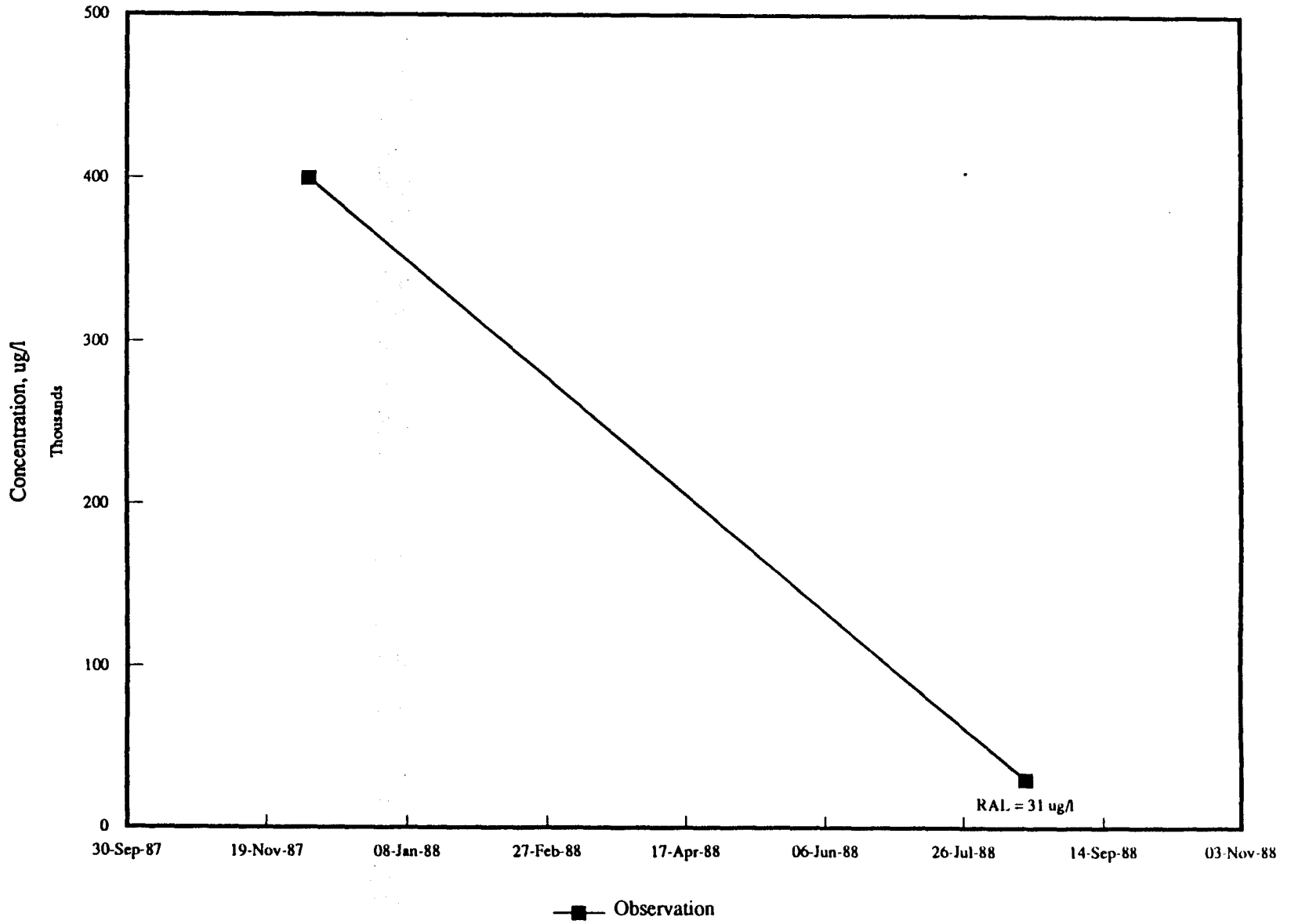
CADMIUM - WELL 03U093



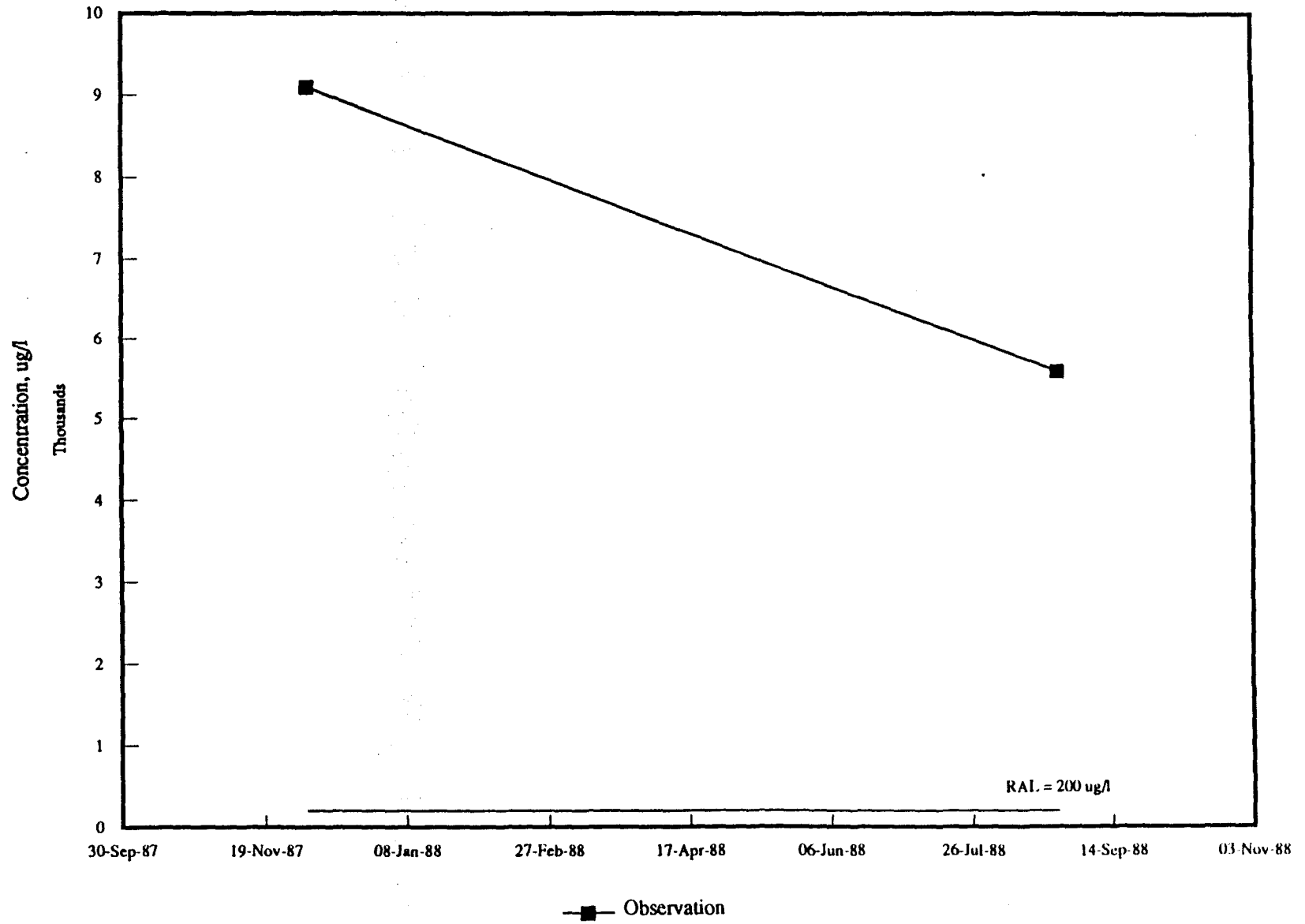
NICKEL - WELL 03U093



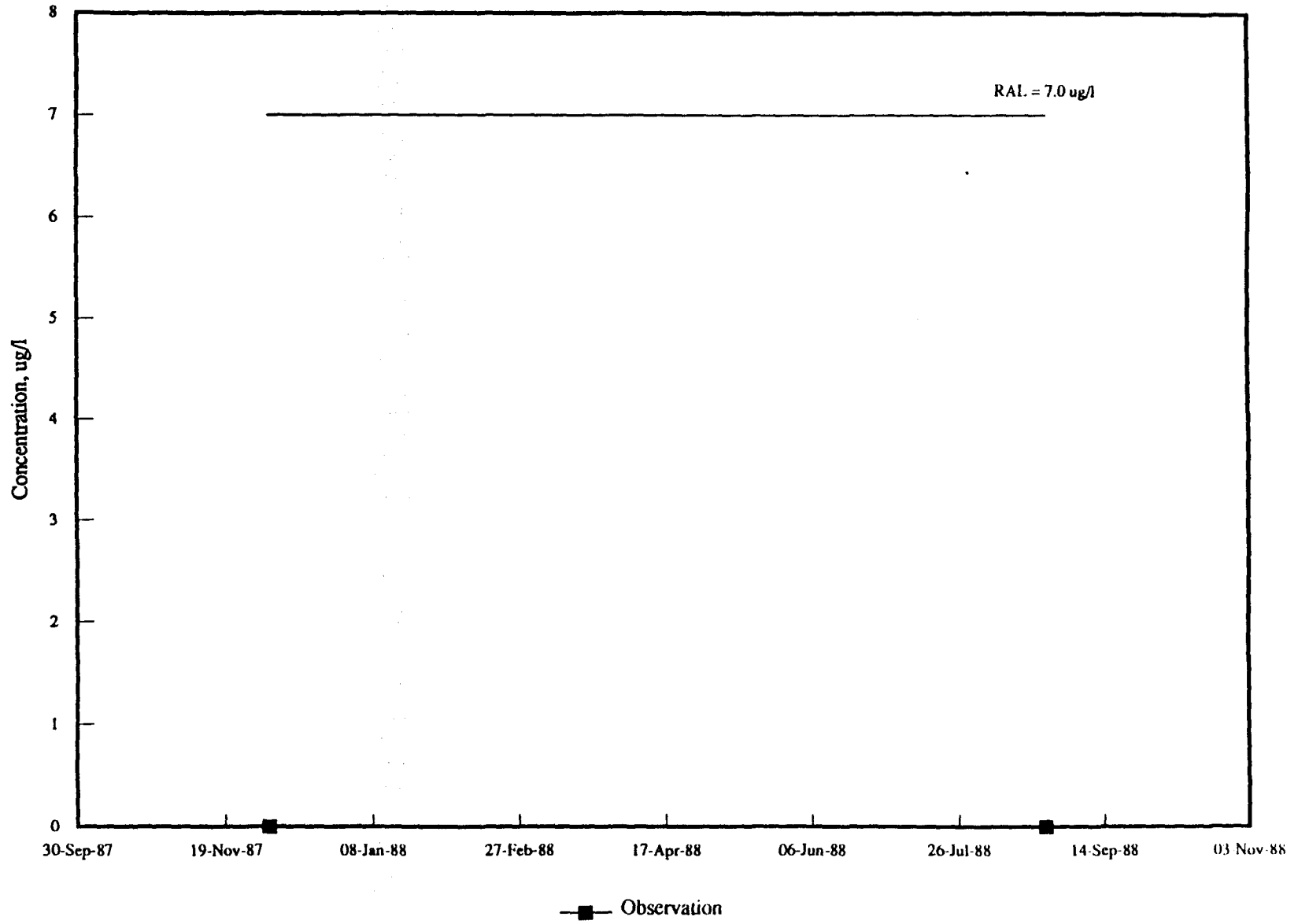
TRICHLOROETHENE - WELL 03U093



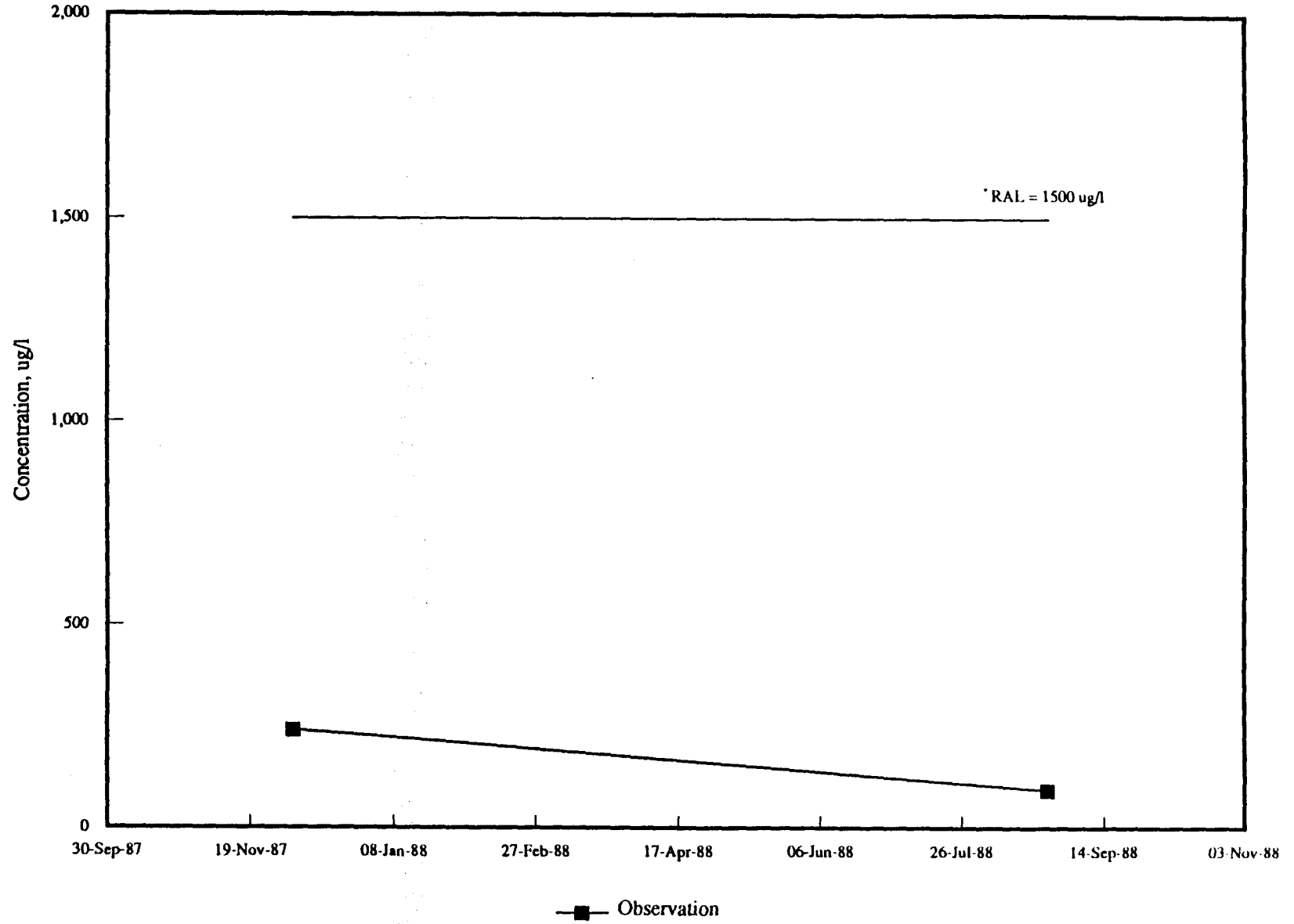
1,1,1-TRICHLOROETHANE - WELL 03U094



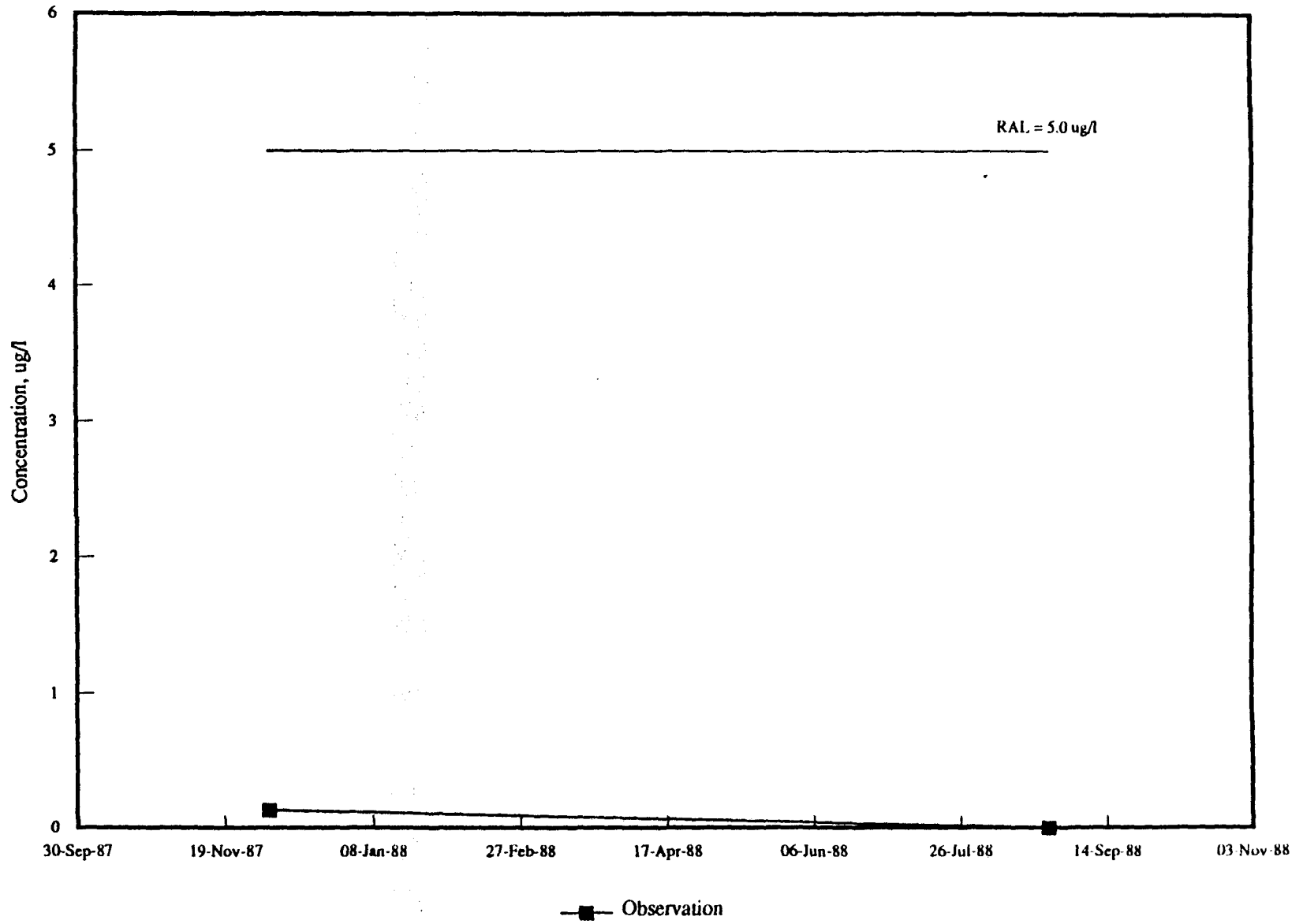
1,1-DICHLOROETHENE - WELL 03U094



BARIUM - WELL 03U094

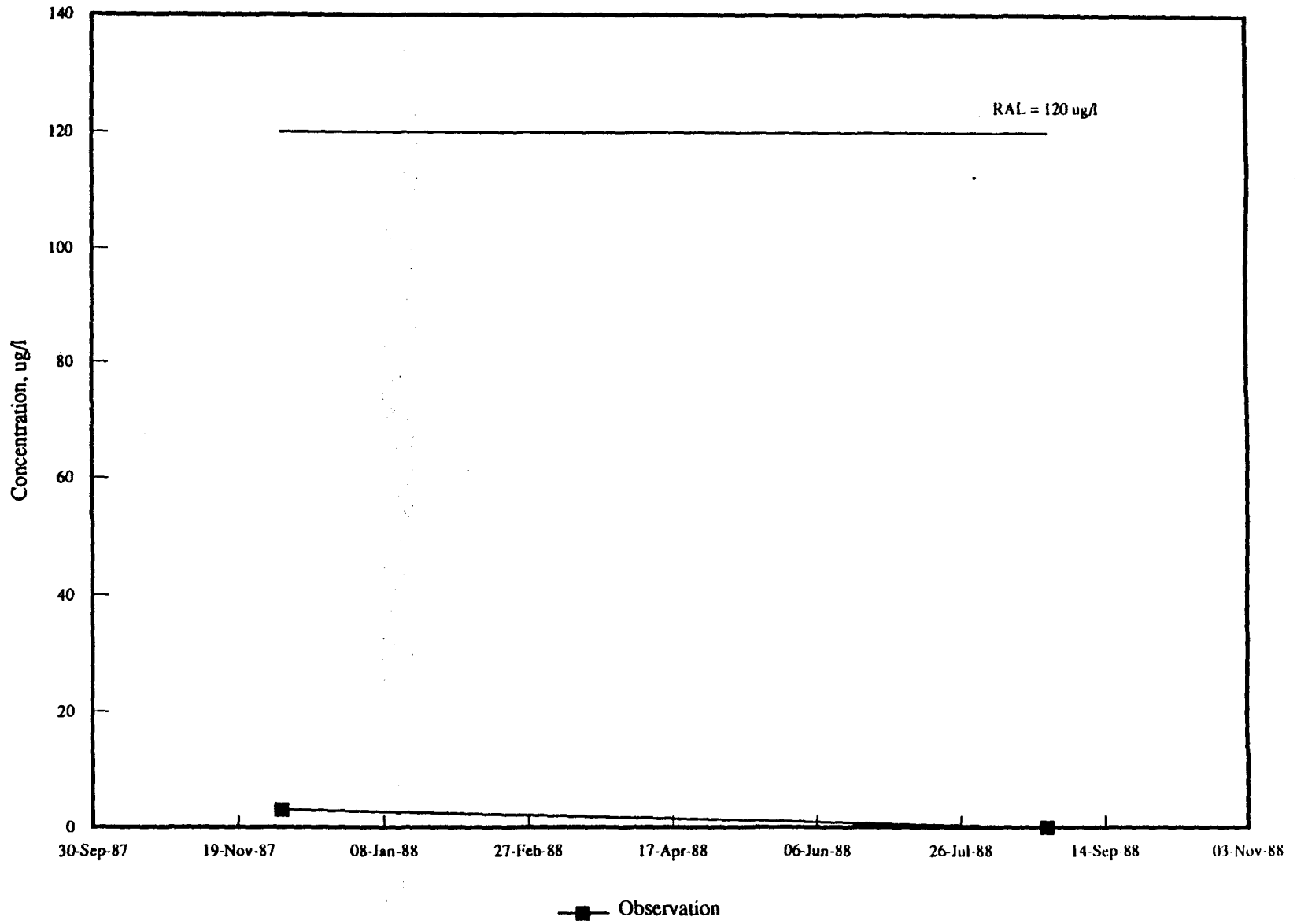


CADMIUM - WELL 03U094

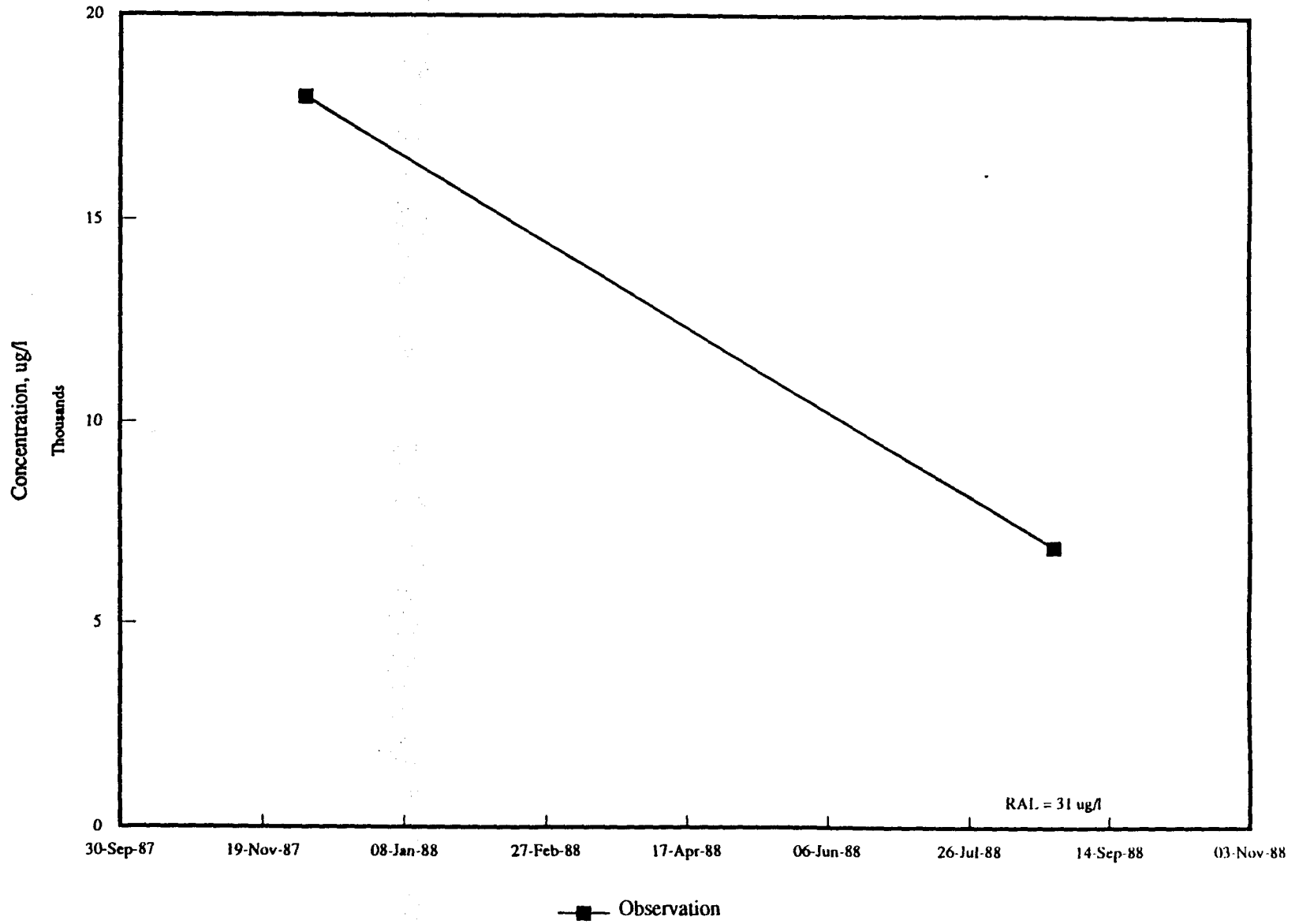




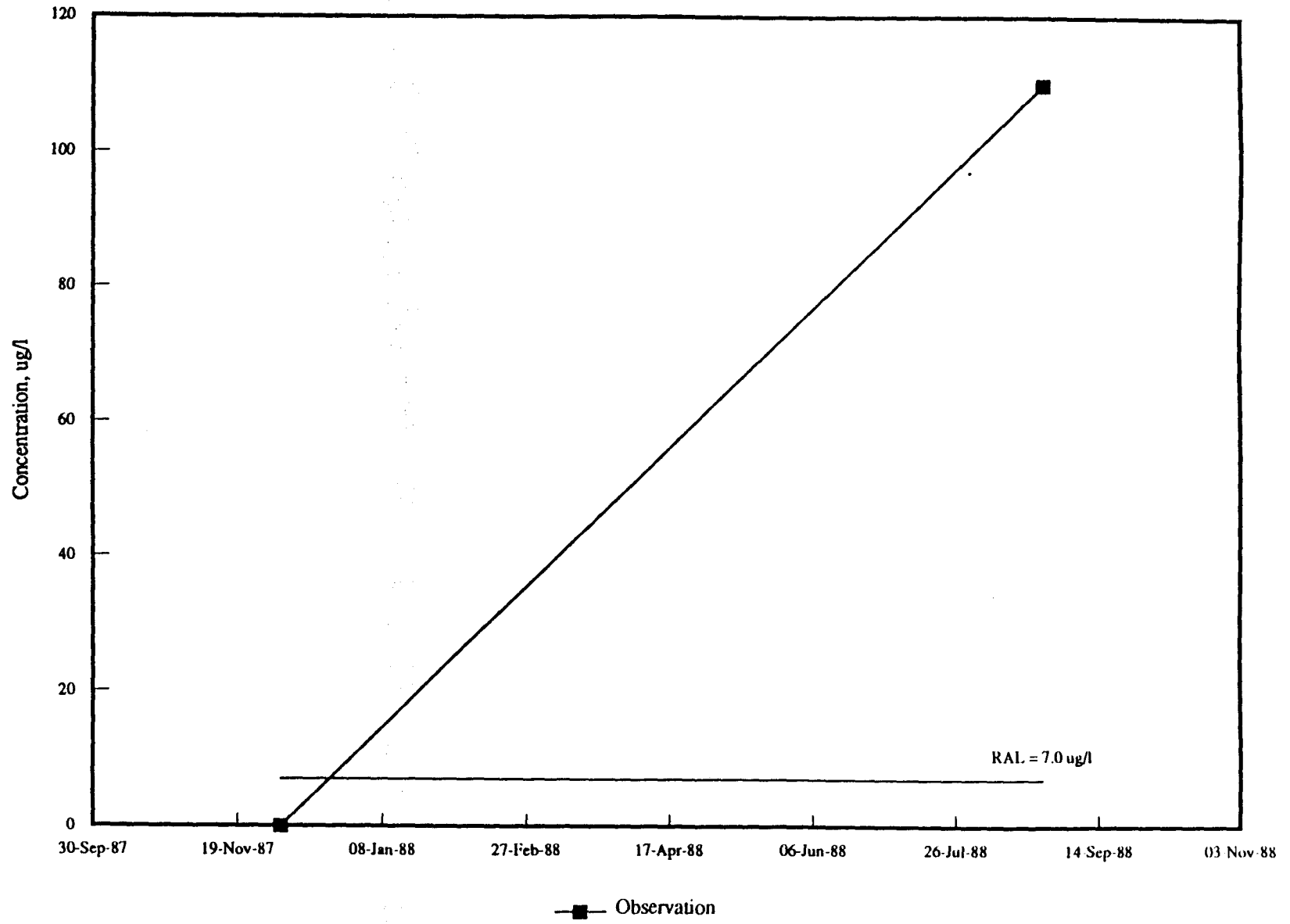
CHROMIUM - WELL 03U094



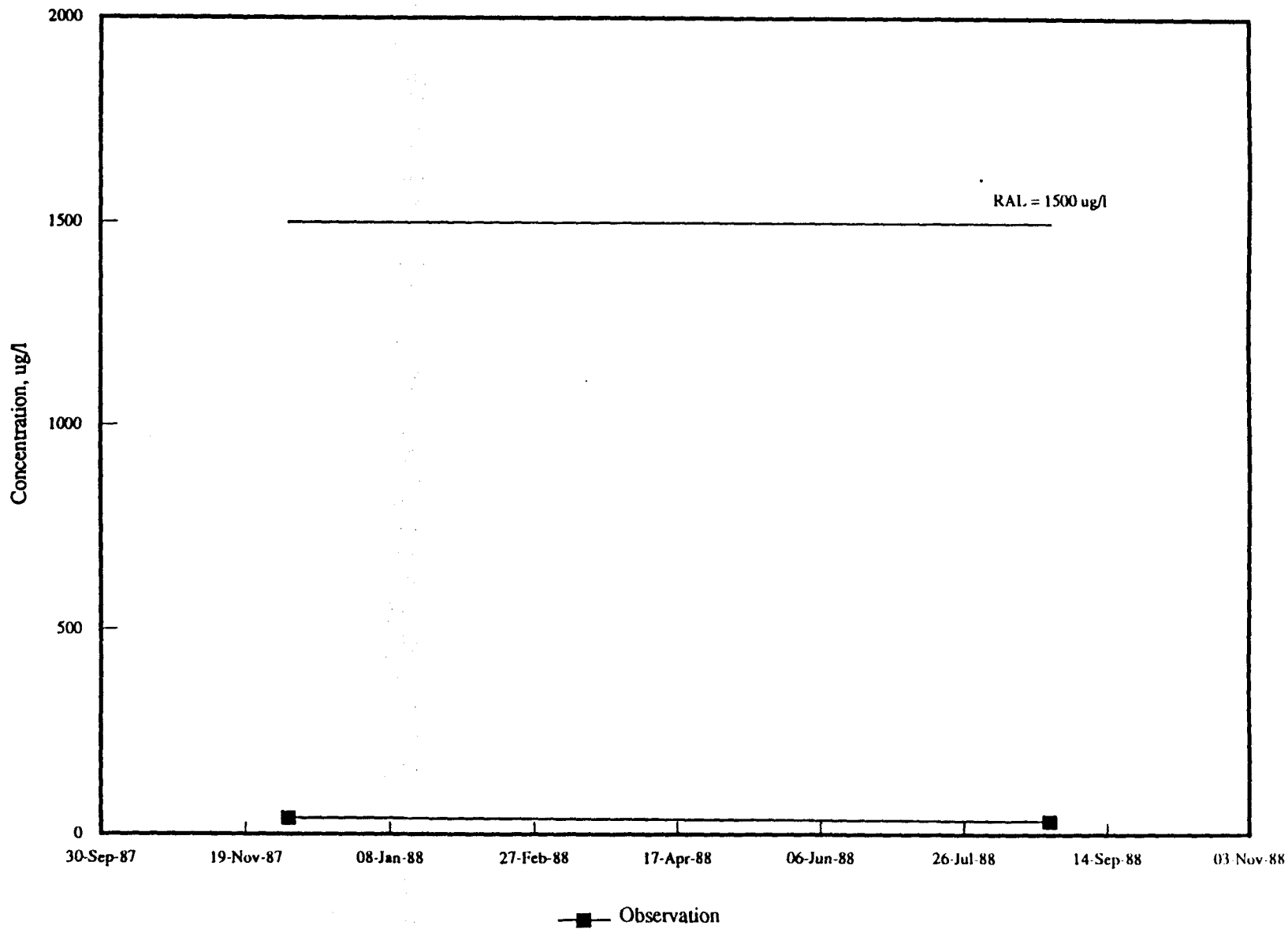
TRICHLOROETHENE - WELL 03U094



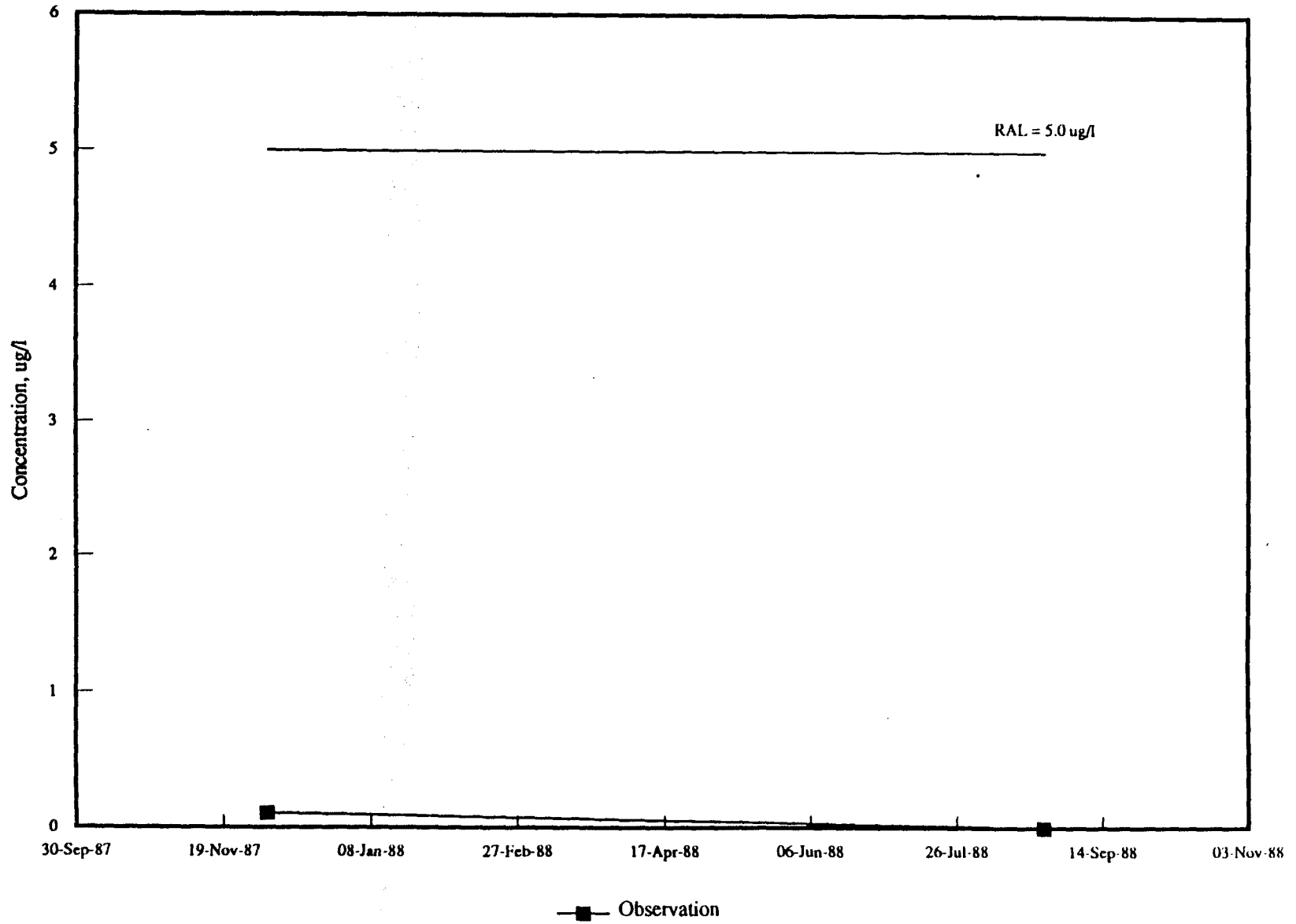
1,1-DICHLOROETHENE - WELL 03U096



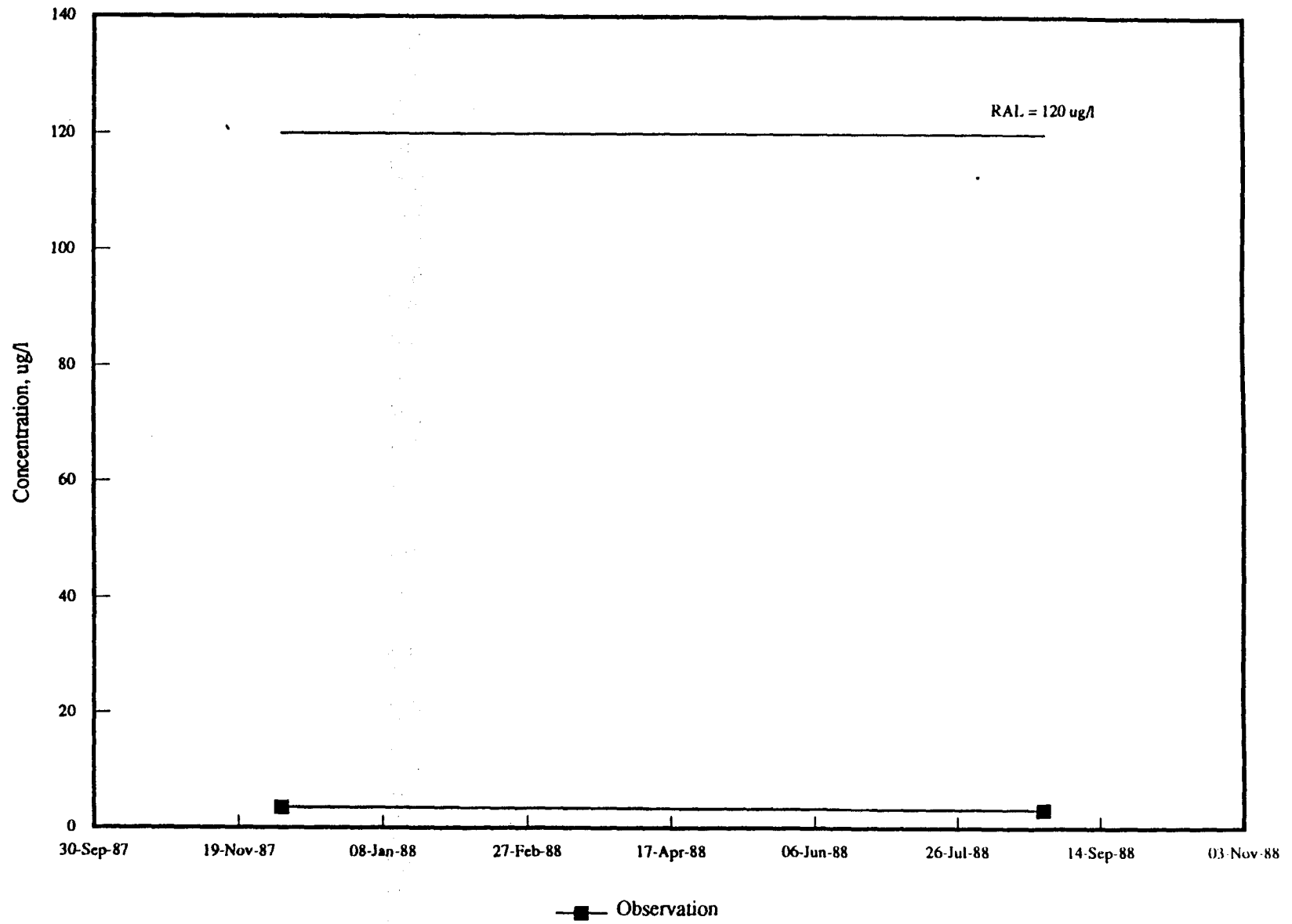
BARIUM - WELL 03U096



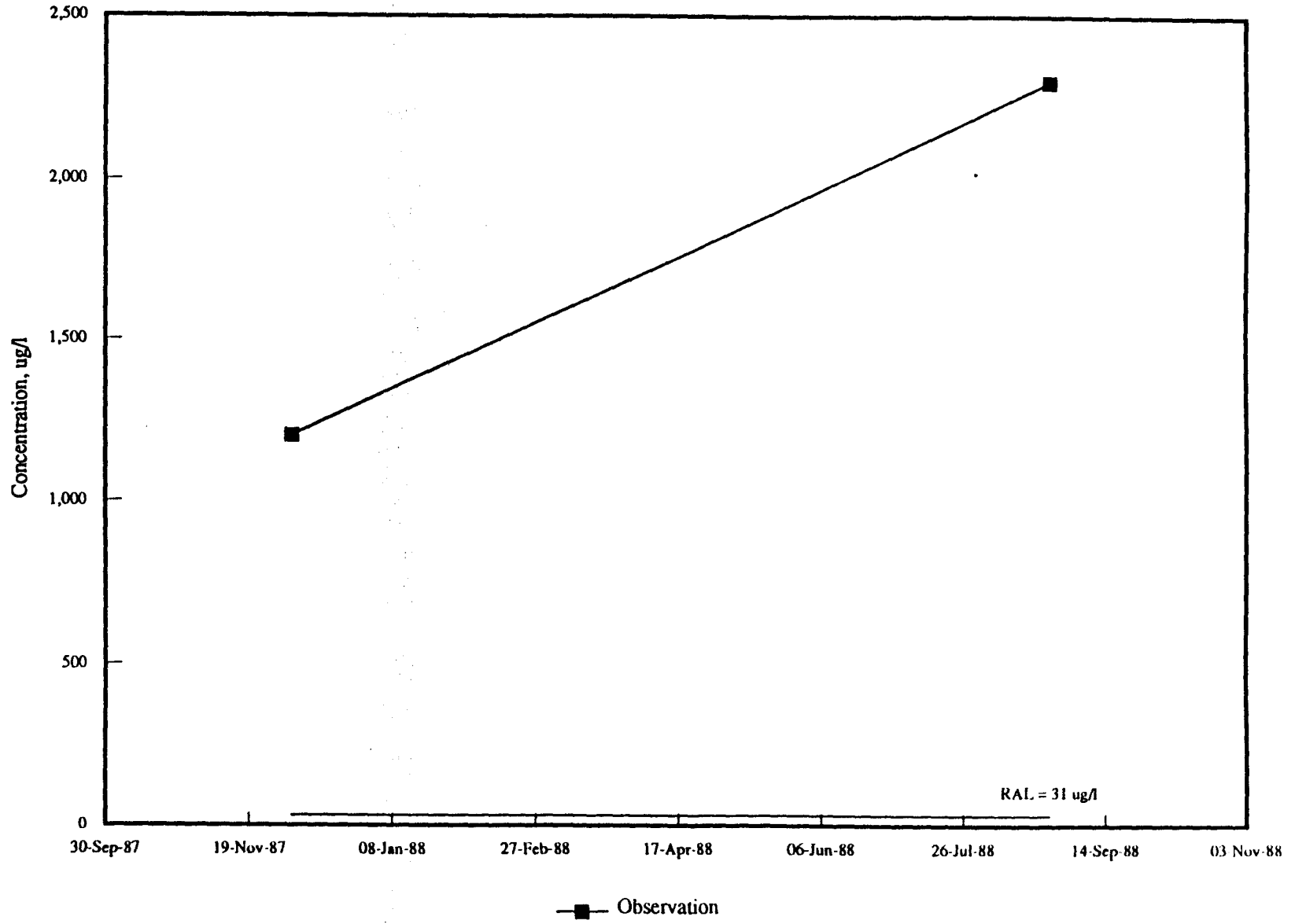
CADMIUM - WELL 03U096



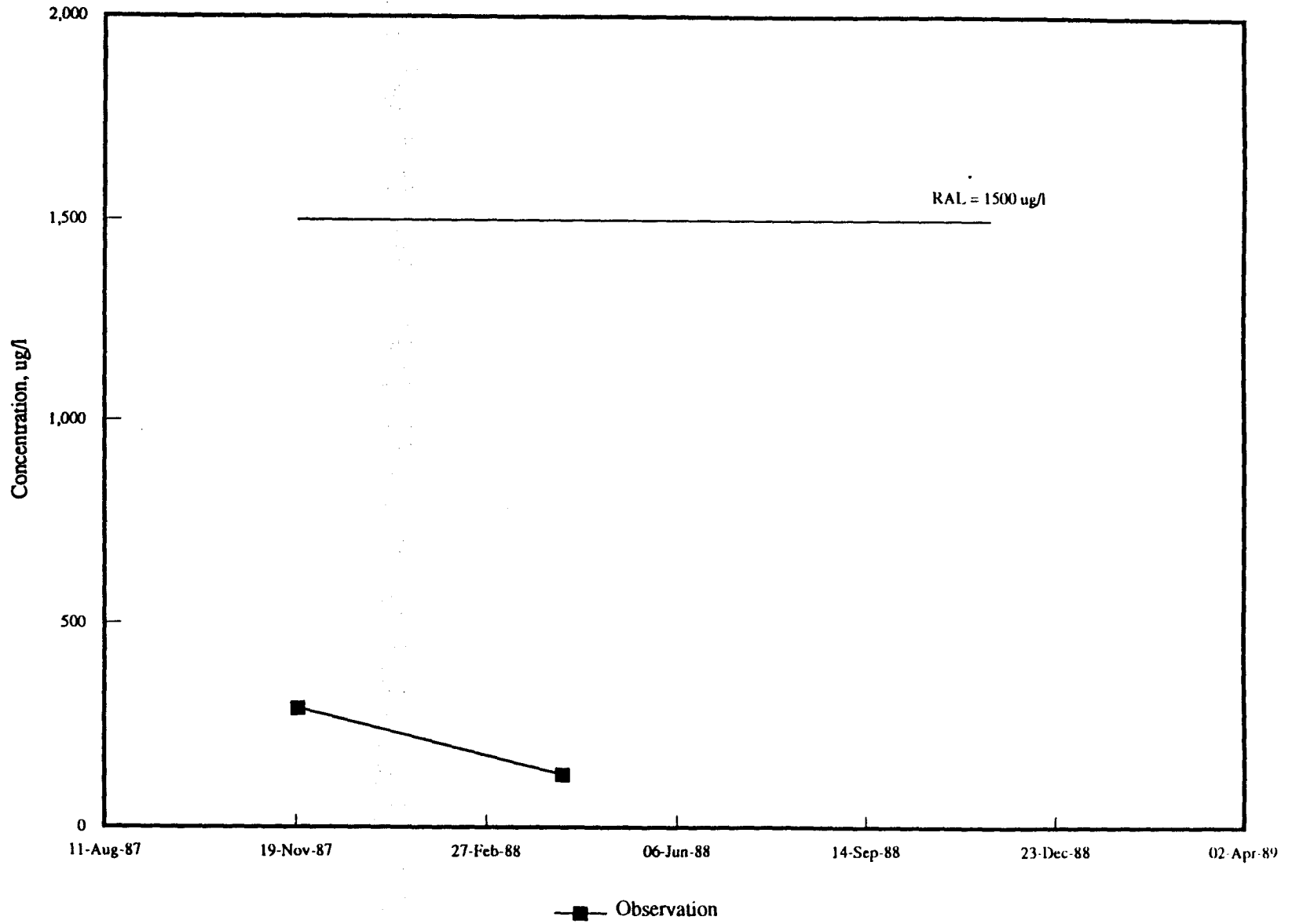
CHROMIUM - WELL 03U096



TRICHLOROETHENE - WELL 03U096

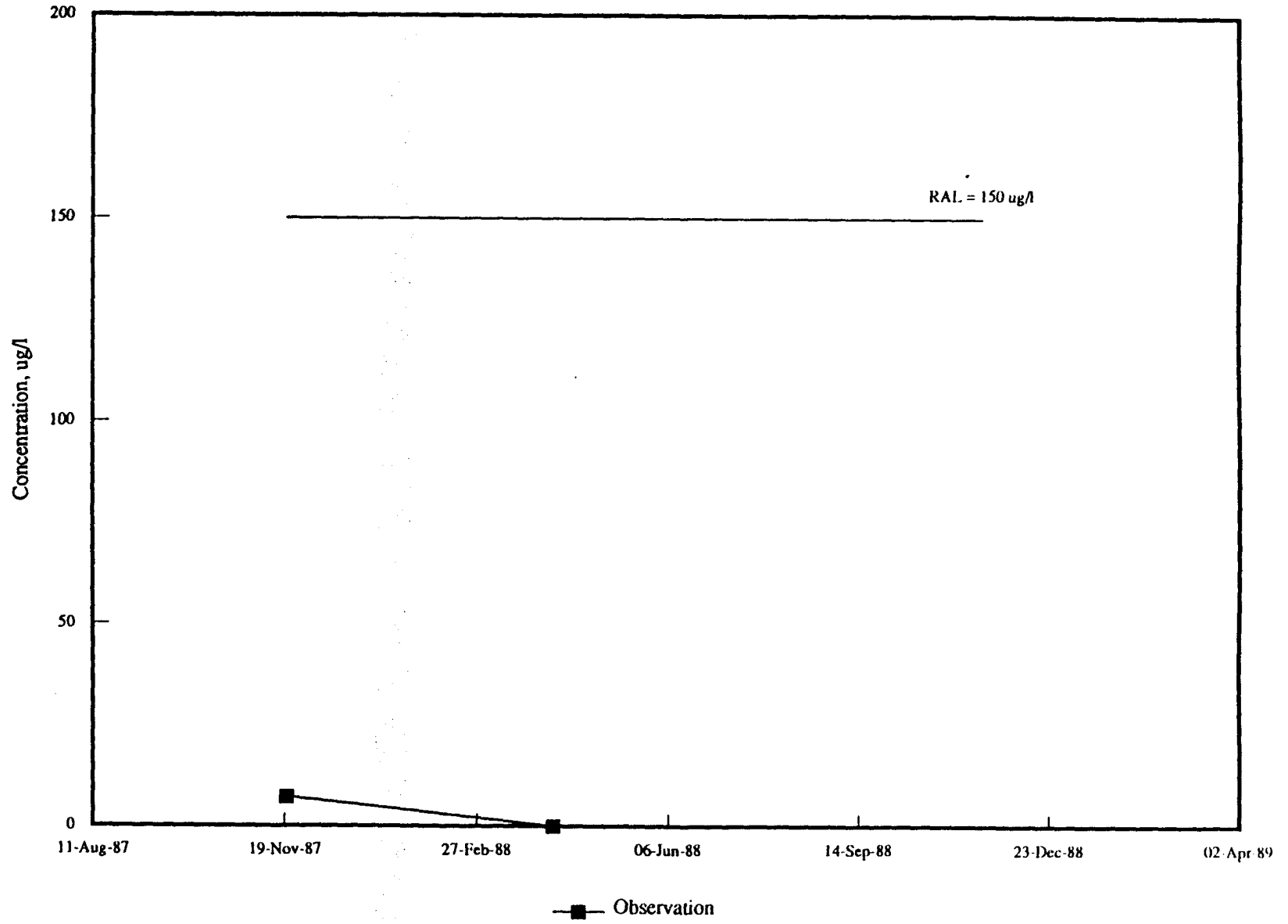


BARIUM - WELL 03U097

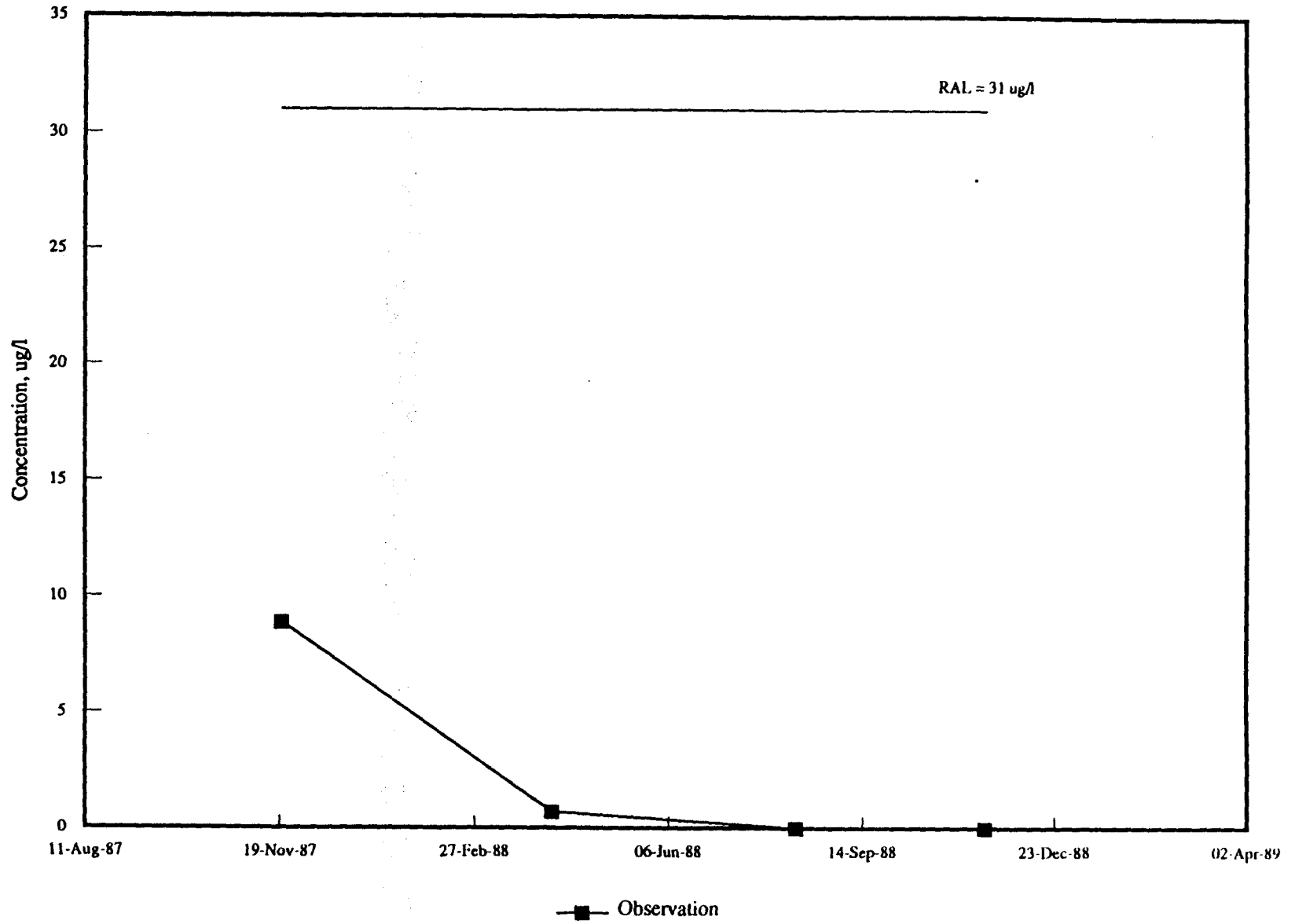




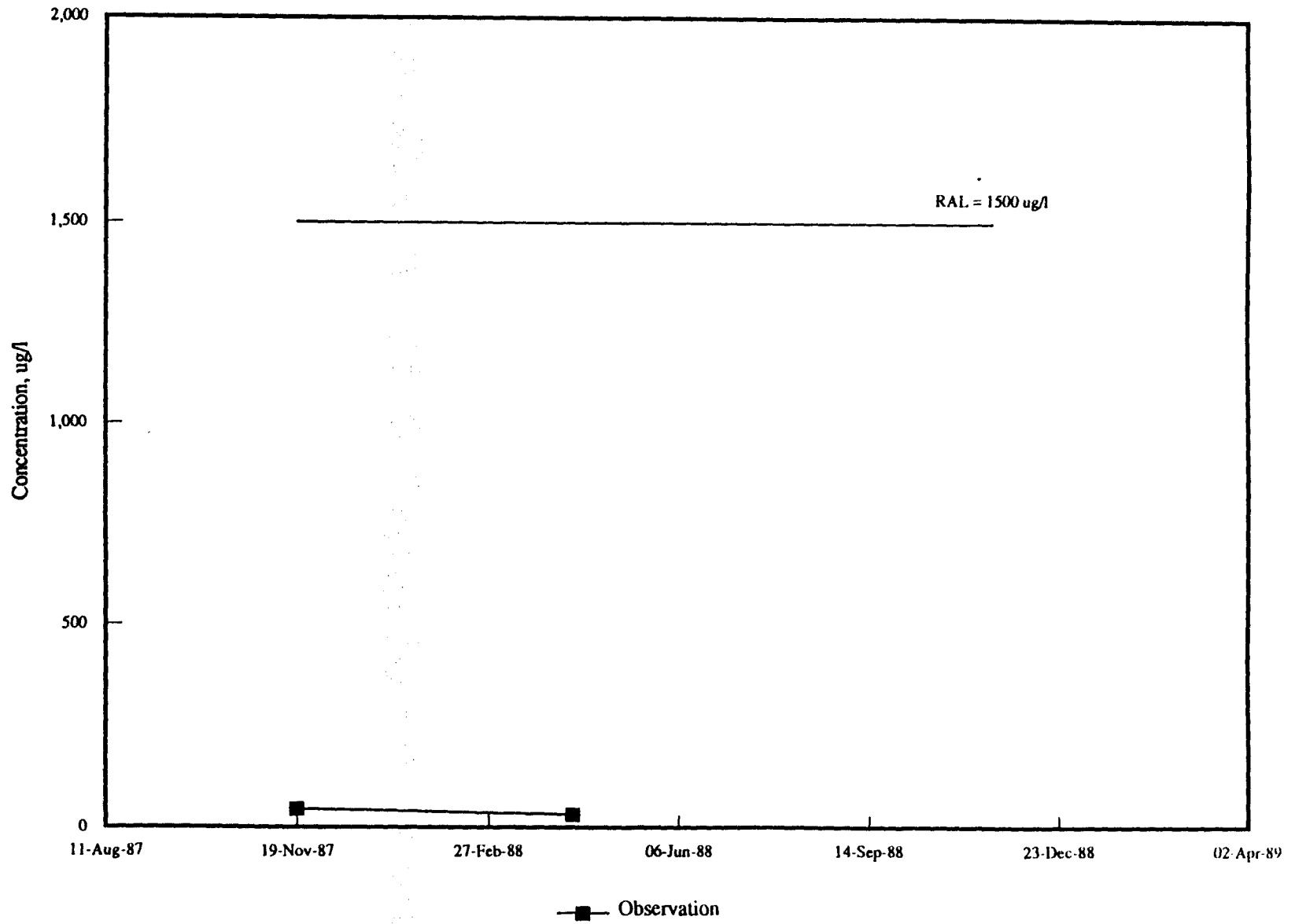
NICKEL - WELL 03U097



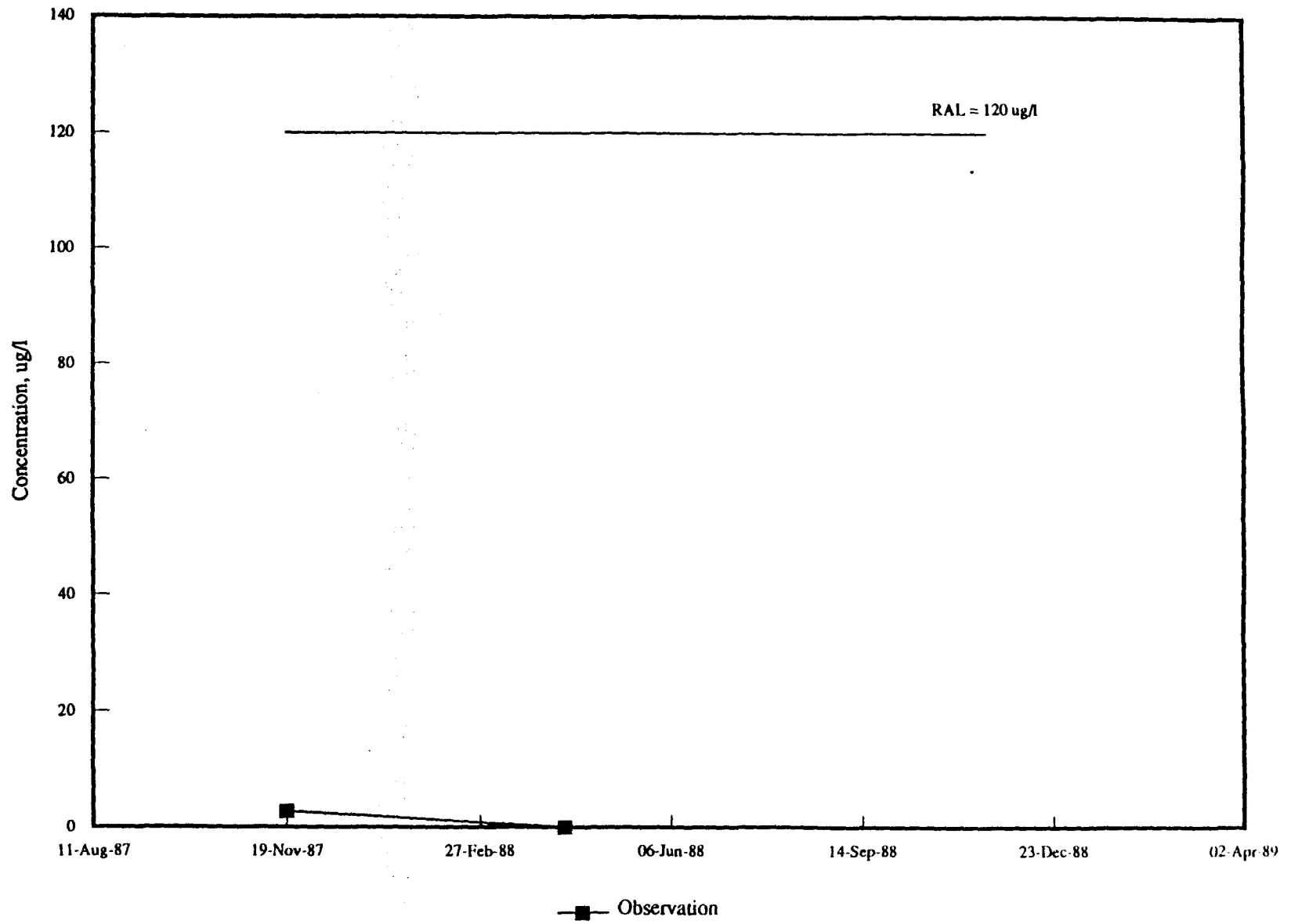
TRICHLOROETHENE - WELL 03U097



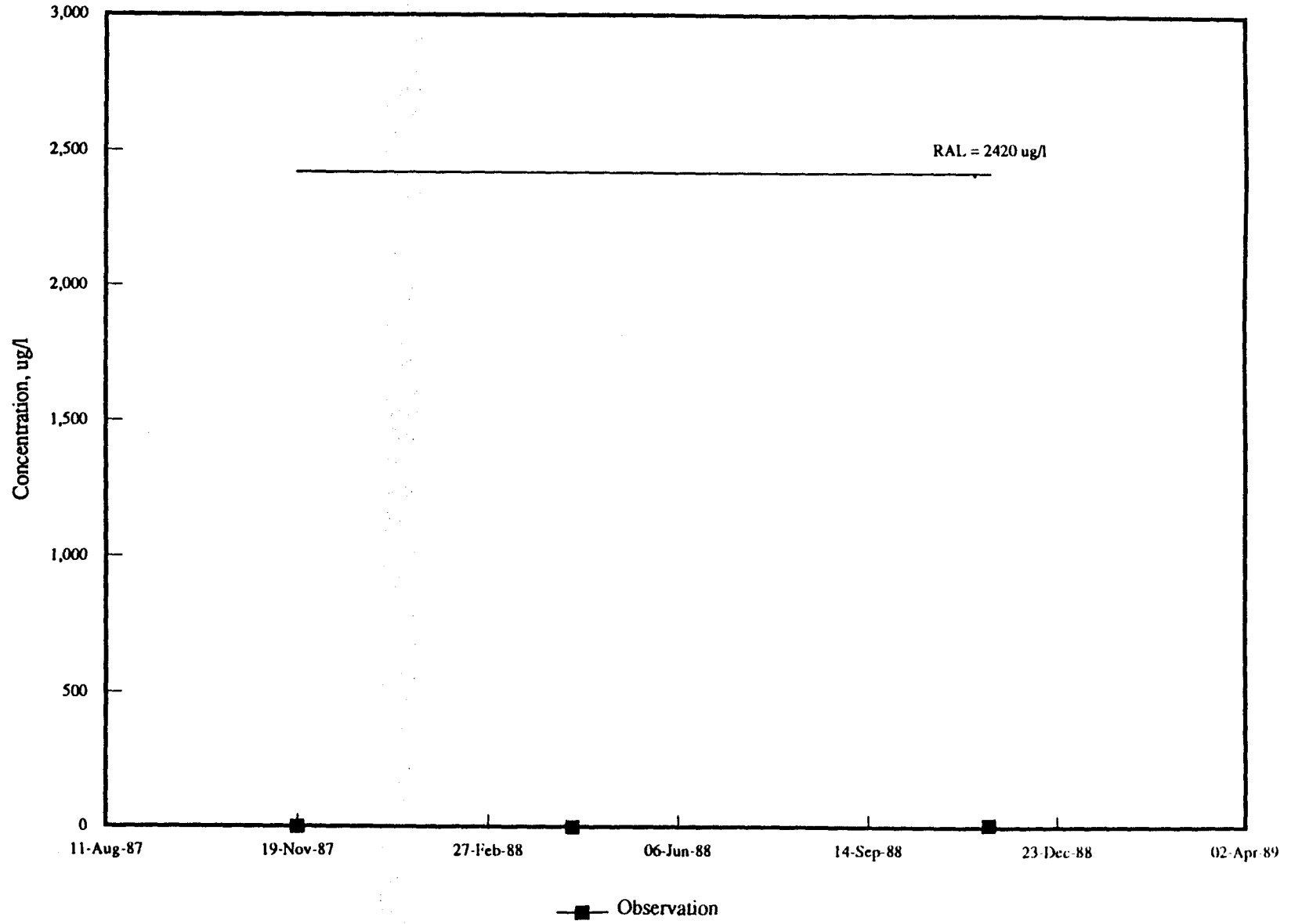
BARIUM - WELL 03U099



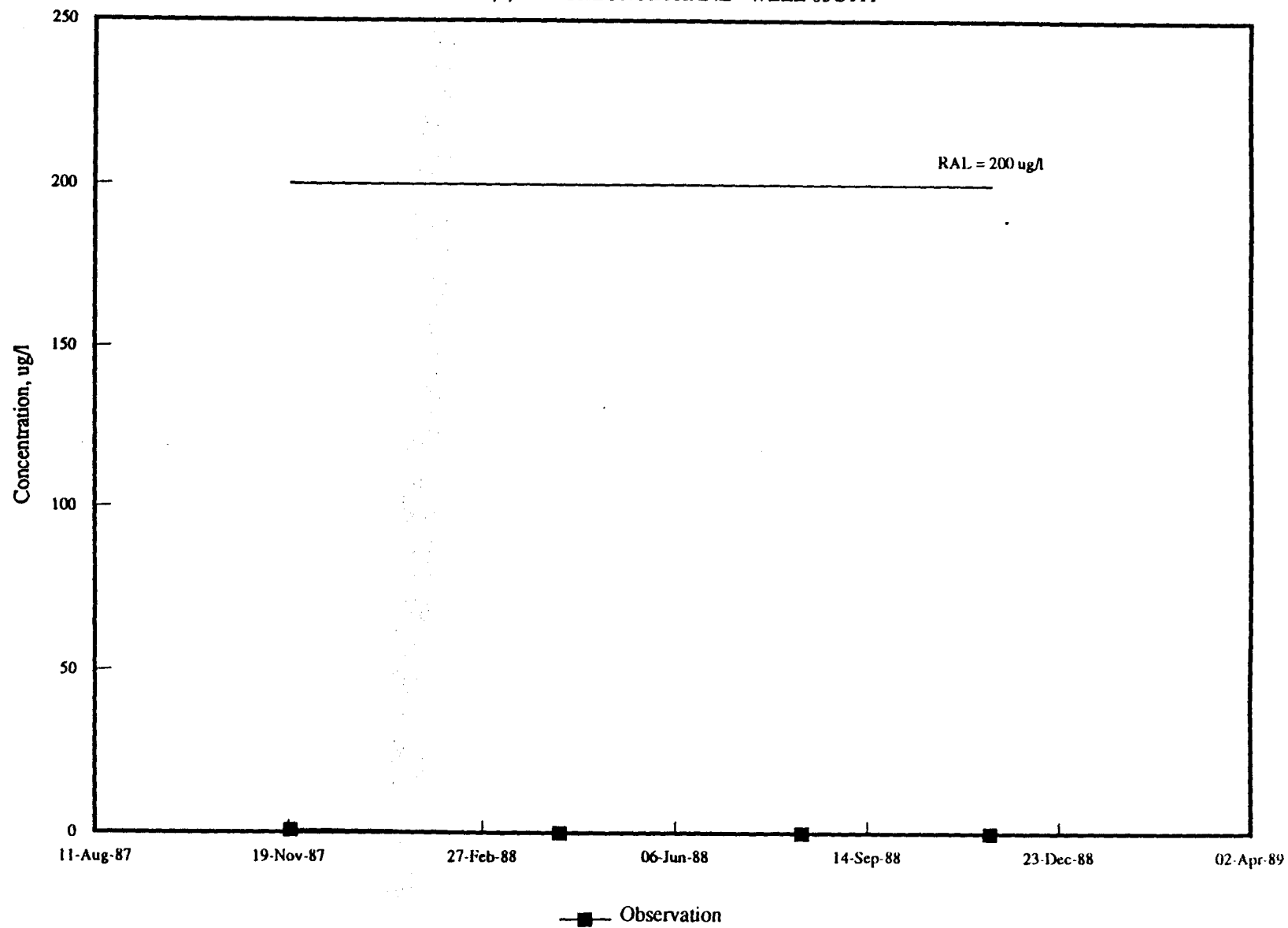
CHROMIUM - WELL 03U099



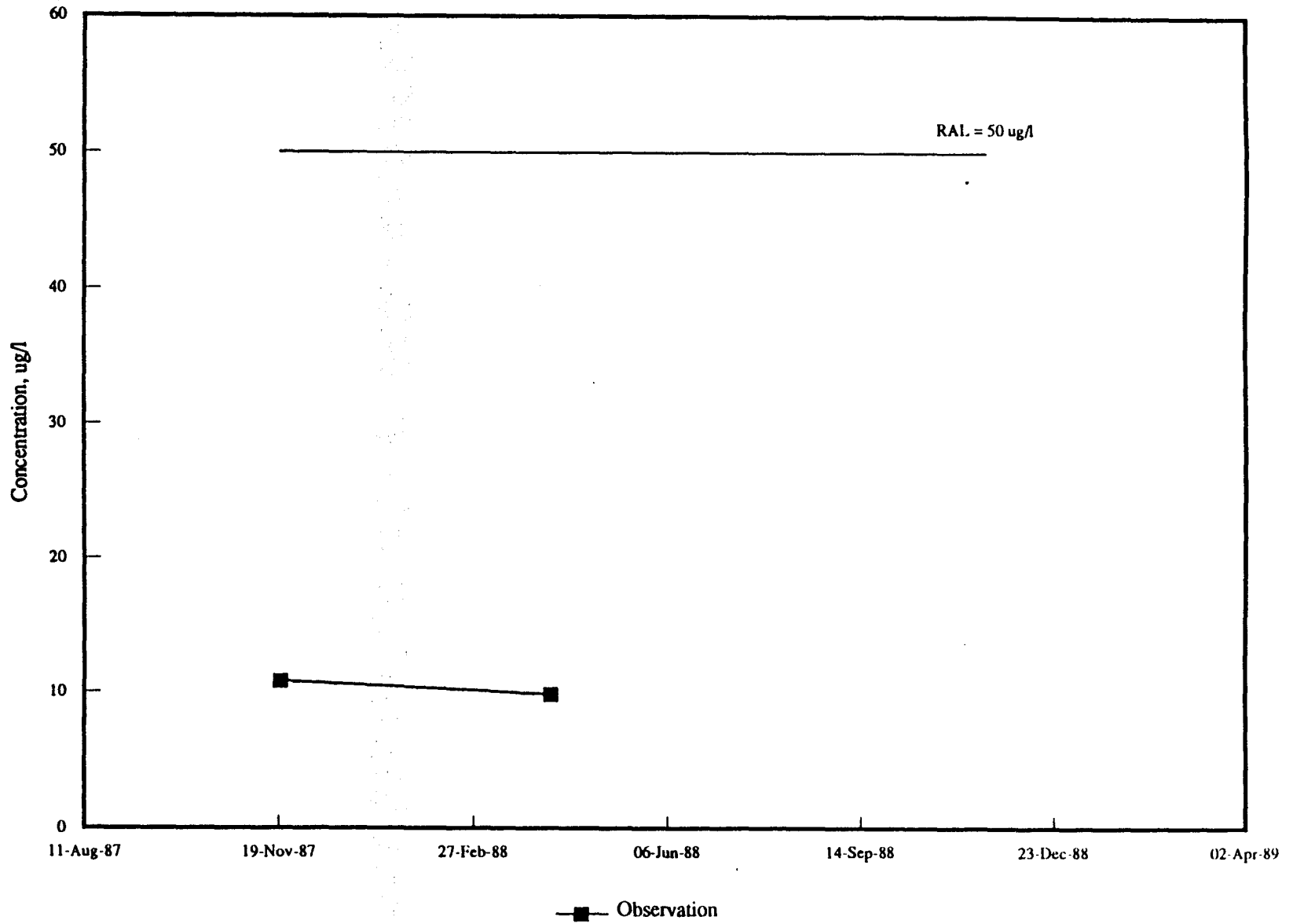
TOLUENE / METHYL BENZENE - WELL 03U099



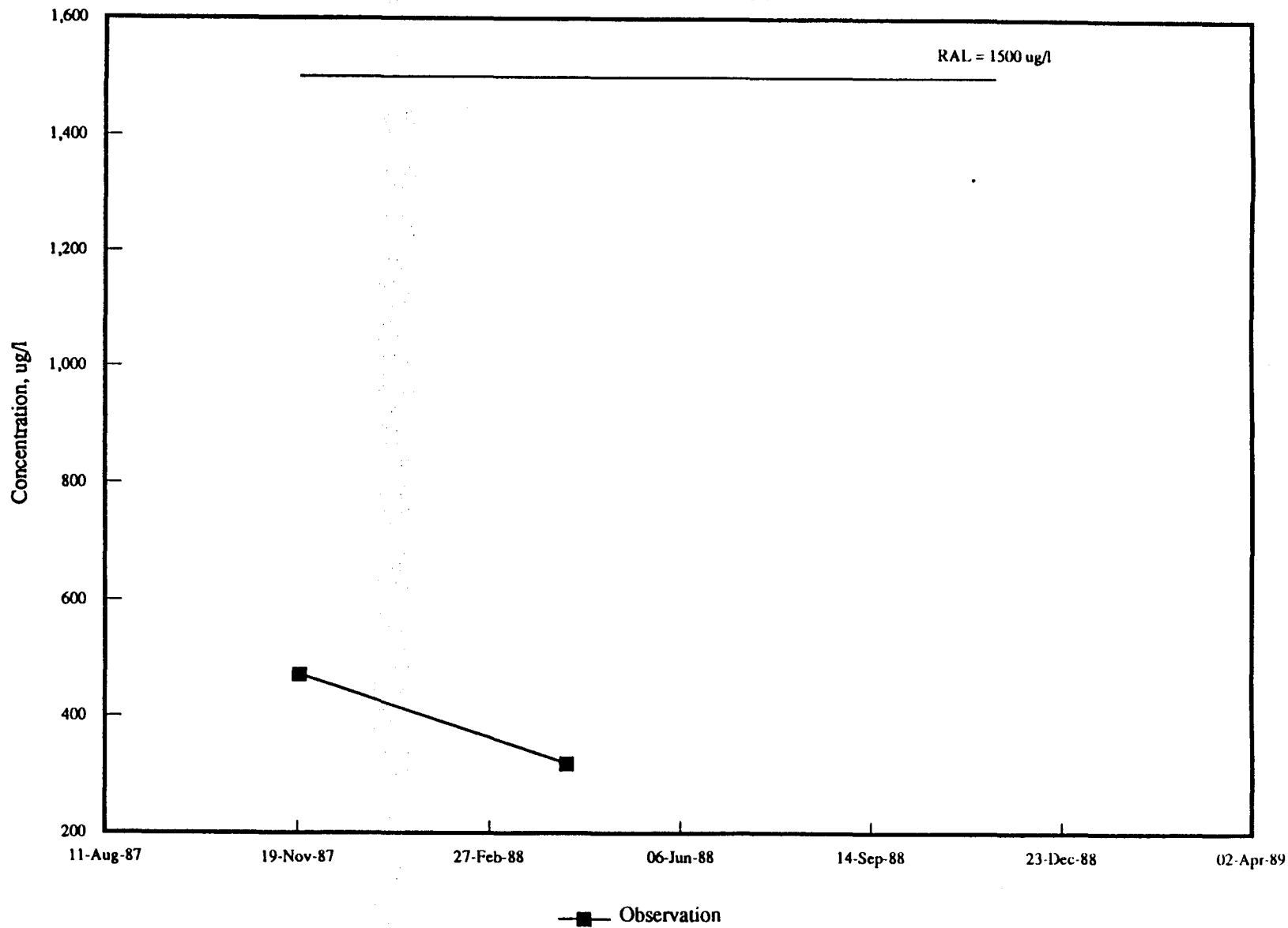
1,1,1-TRICHLOROETHANE - WELL 03U111



ARSENIC - WELL 03U111

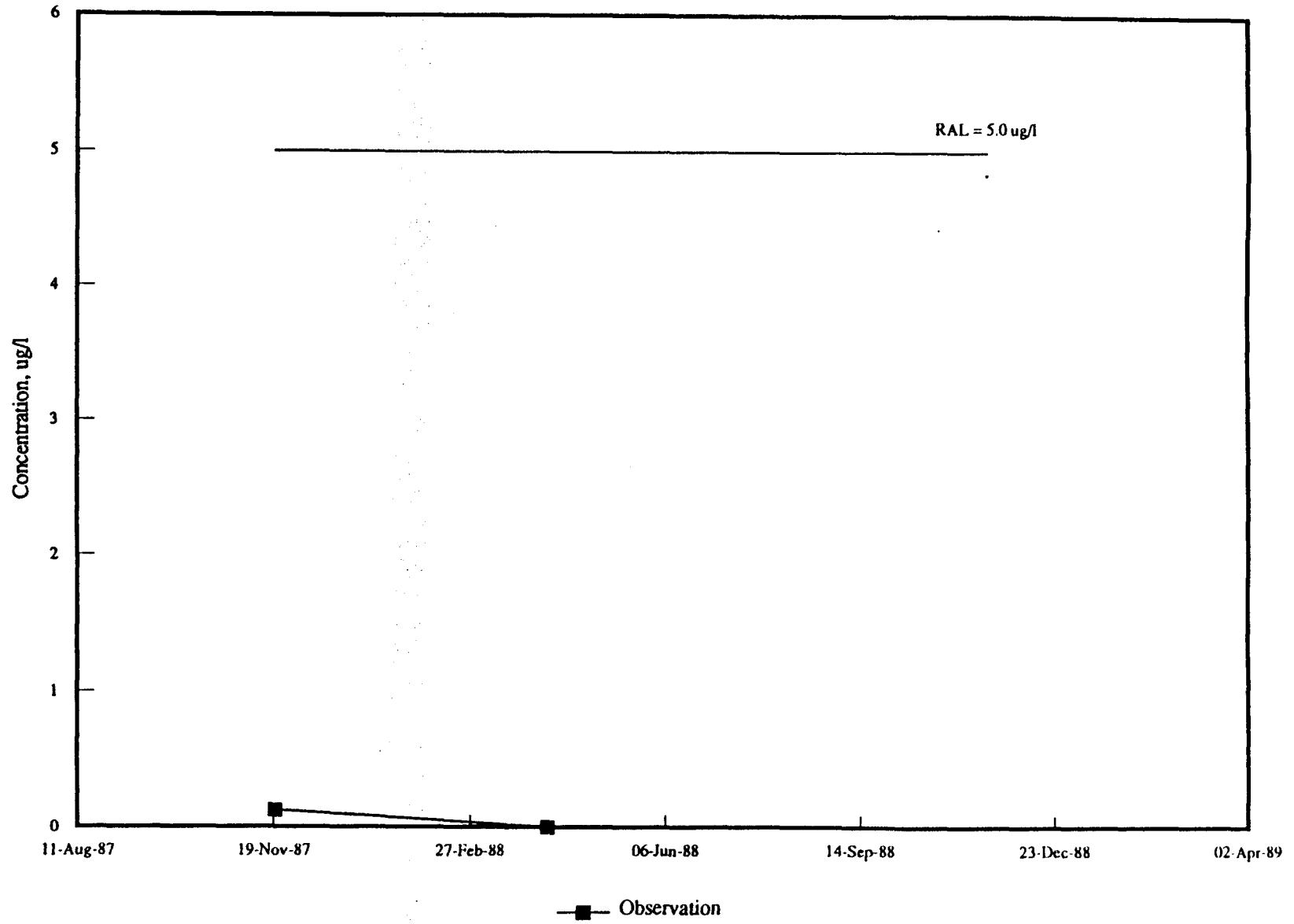


BARIUM - WELL 03U111

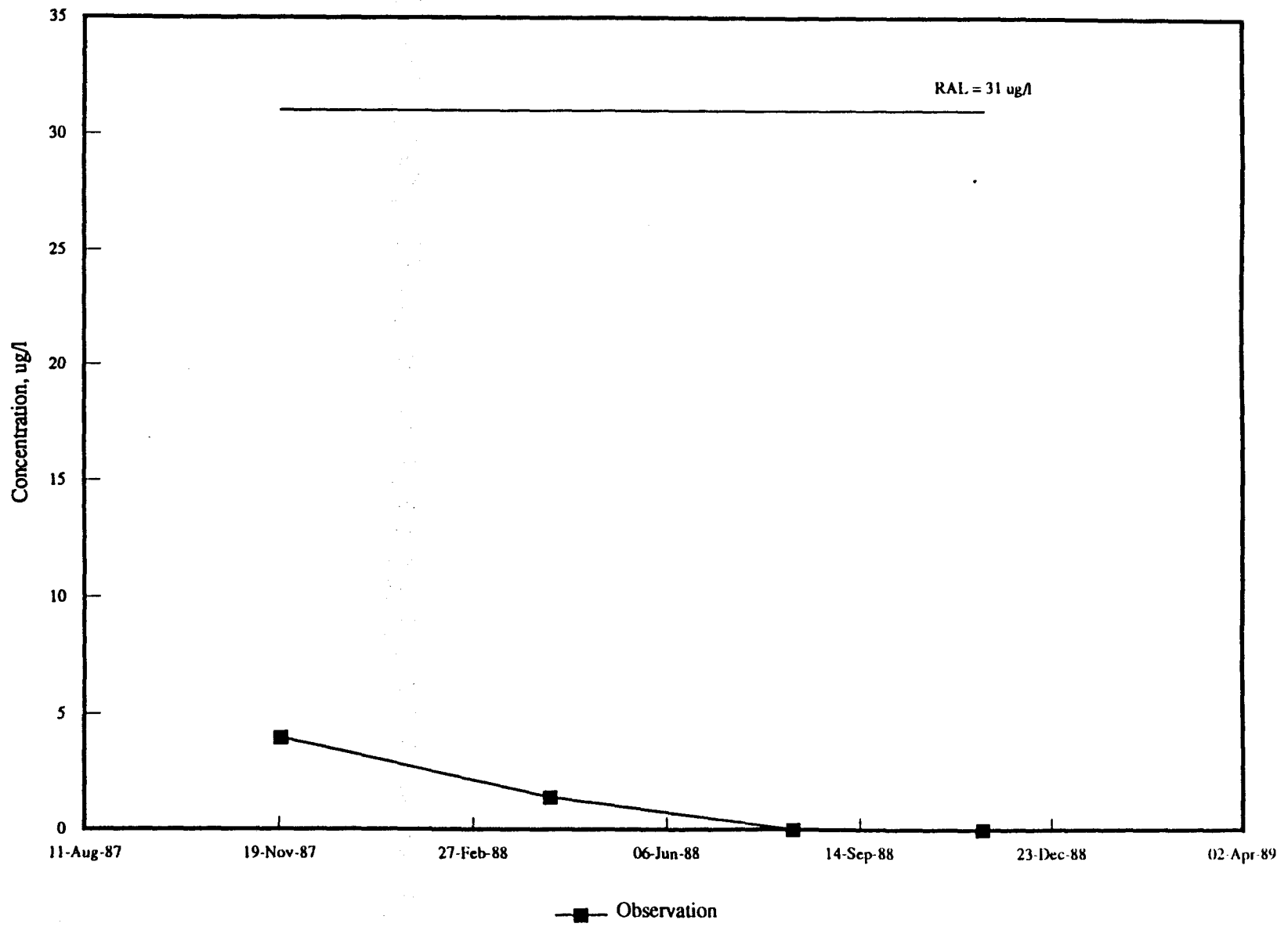




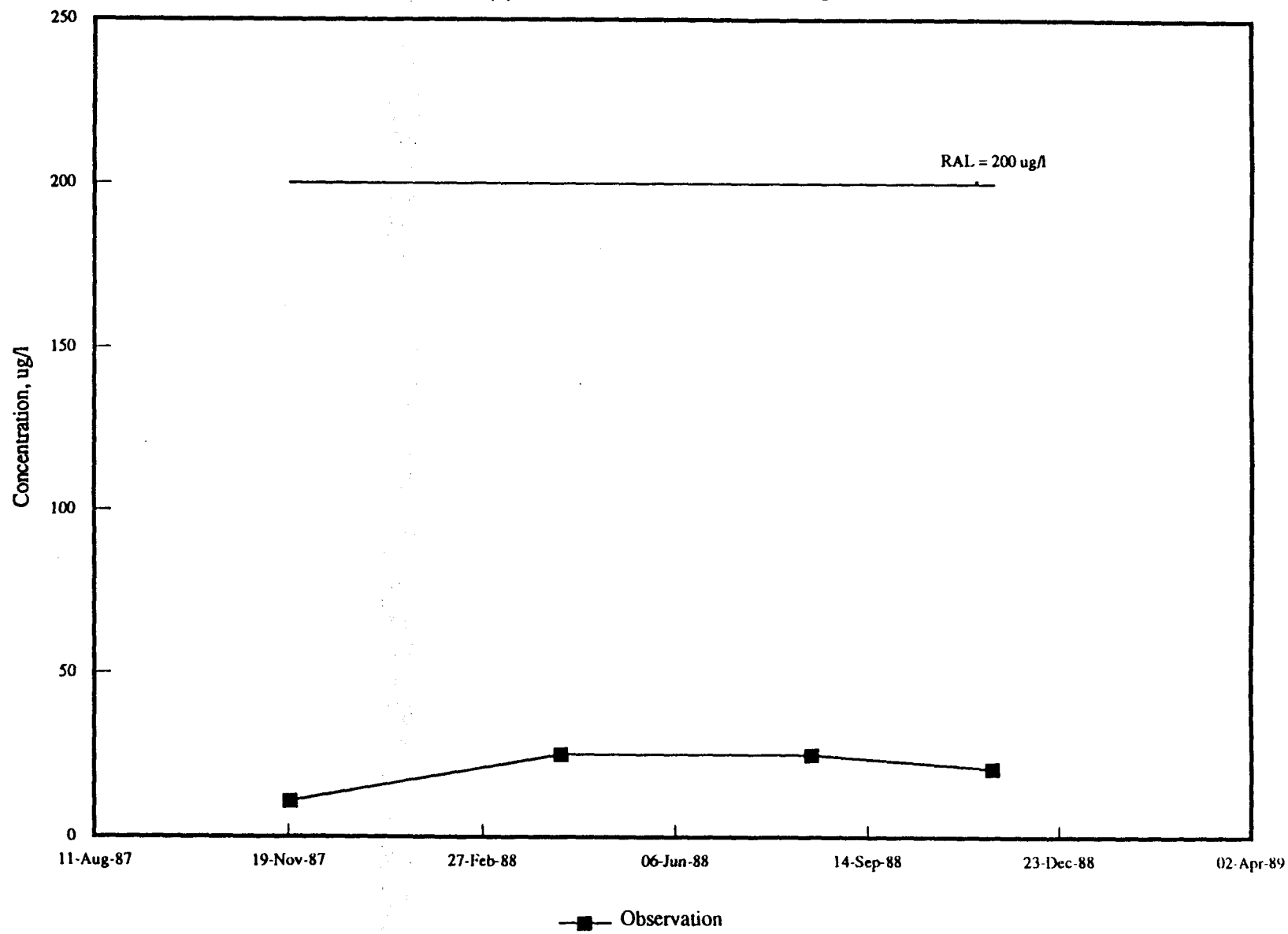
CADMIUM - WELL 03U111



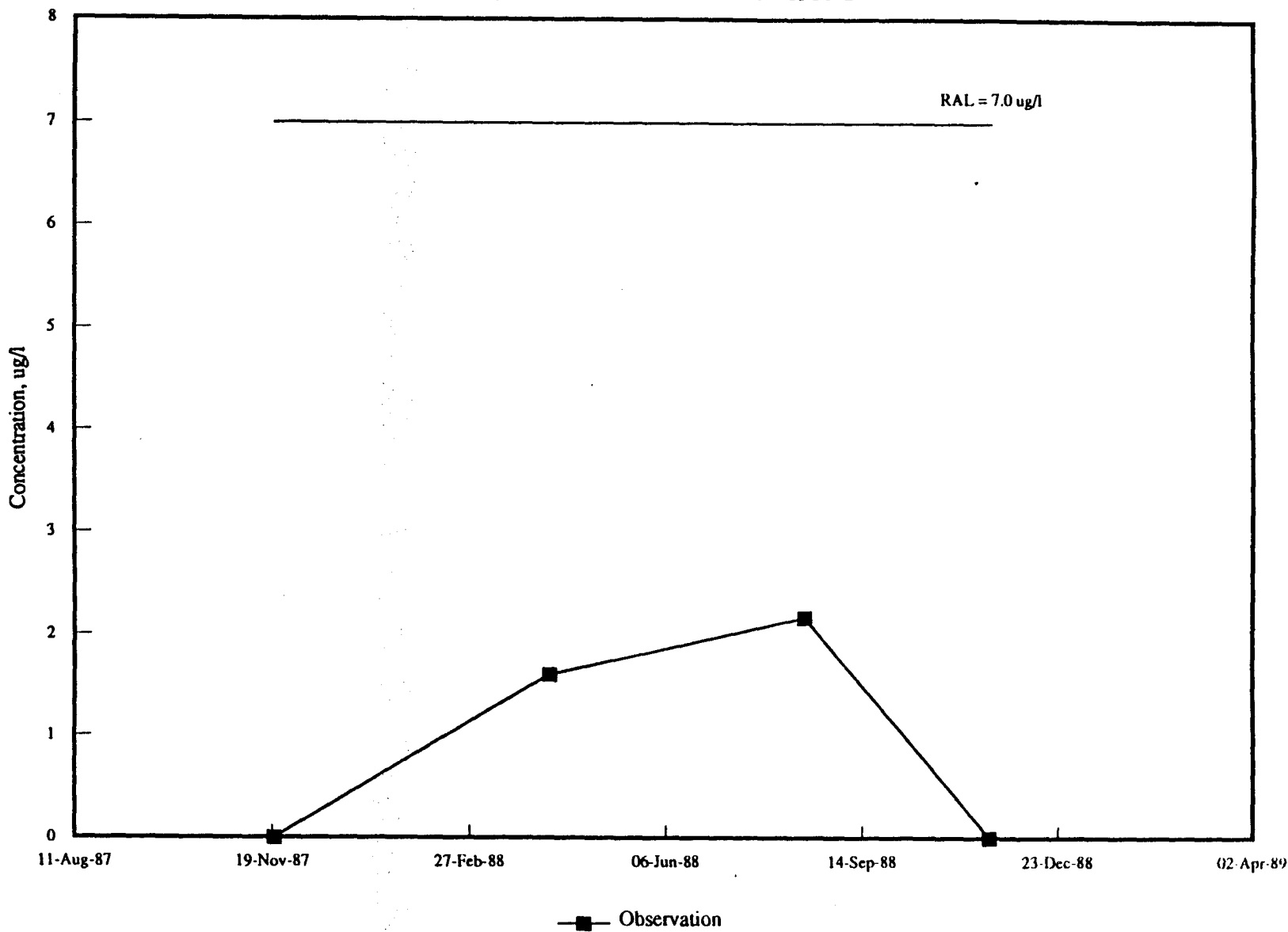
TRICHLOROETHENE - WELL 03U111



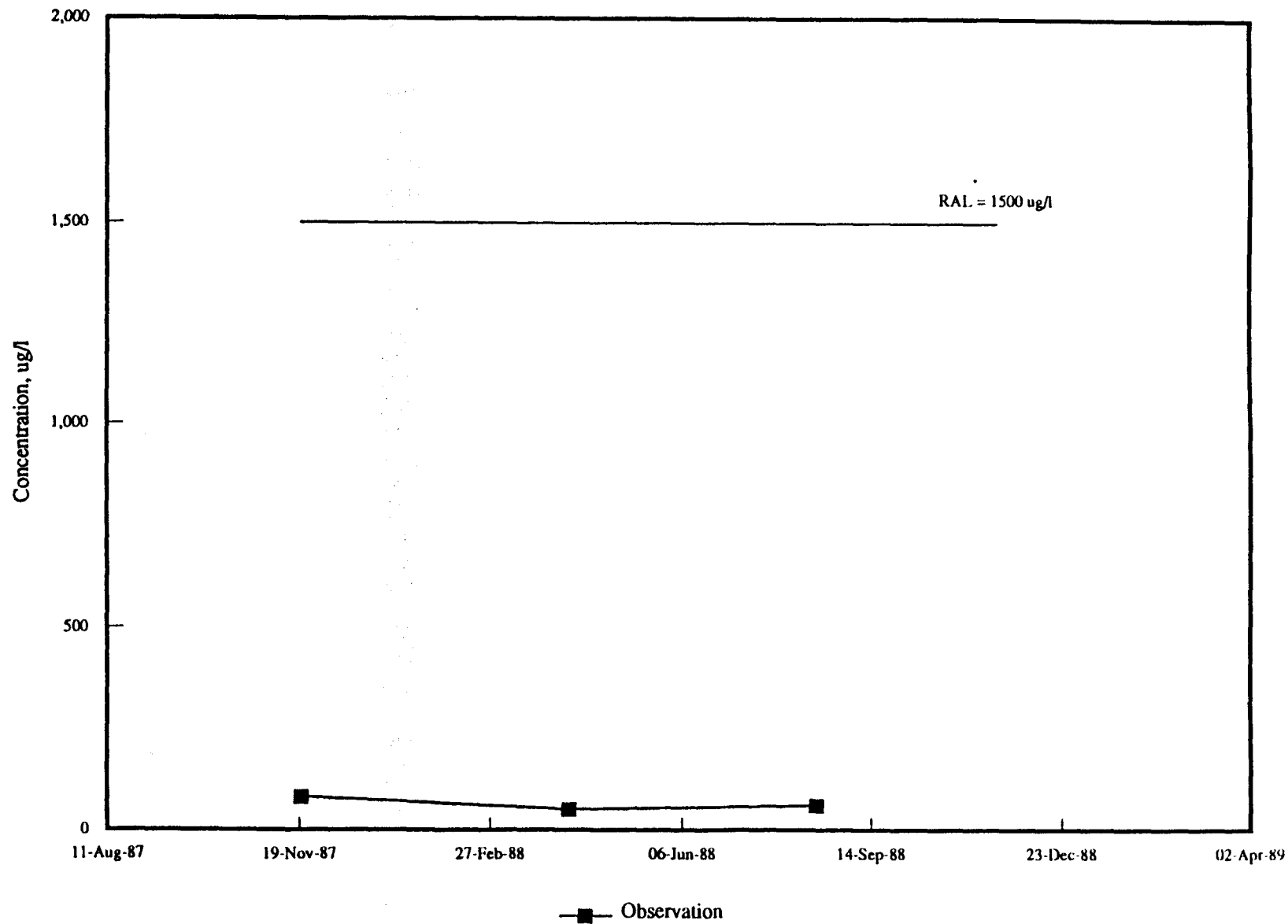
1,1,1-TRICHLOROETHANE - WELL 03U112



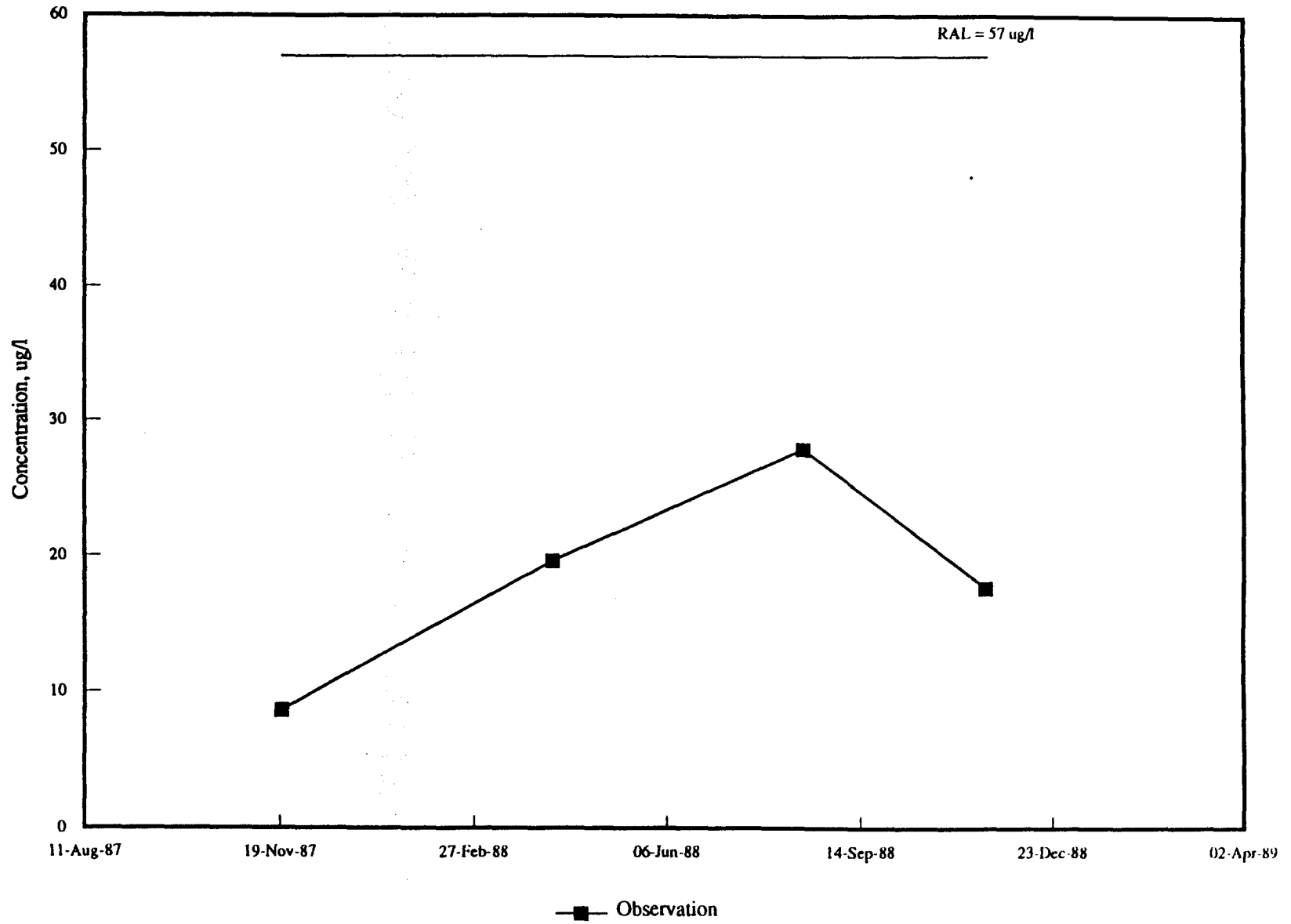
1,1-DICHLOROETHENE - WELL 03U112



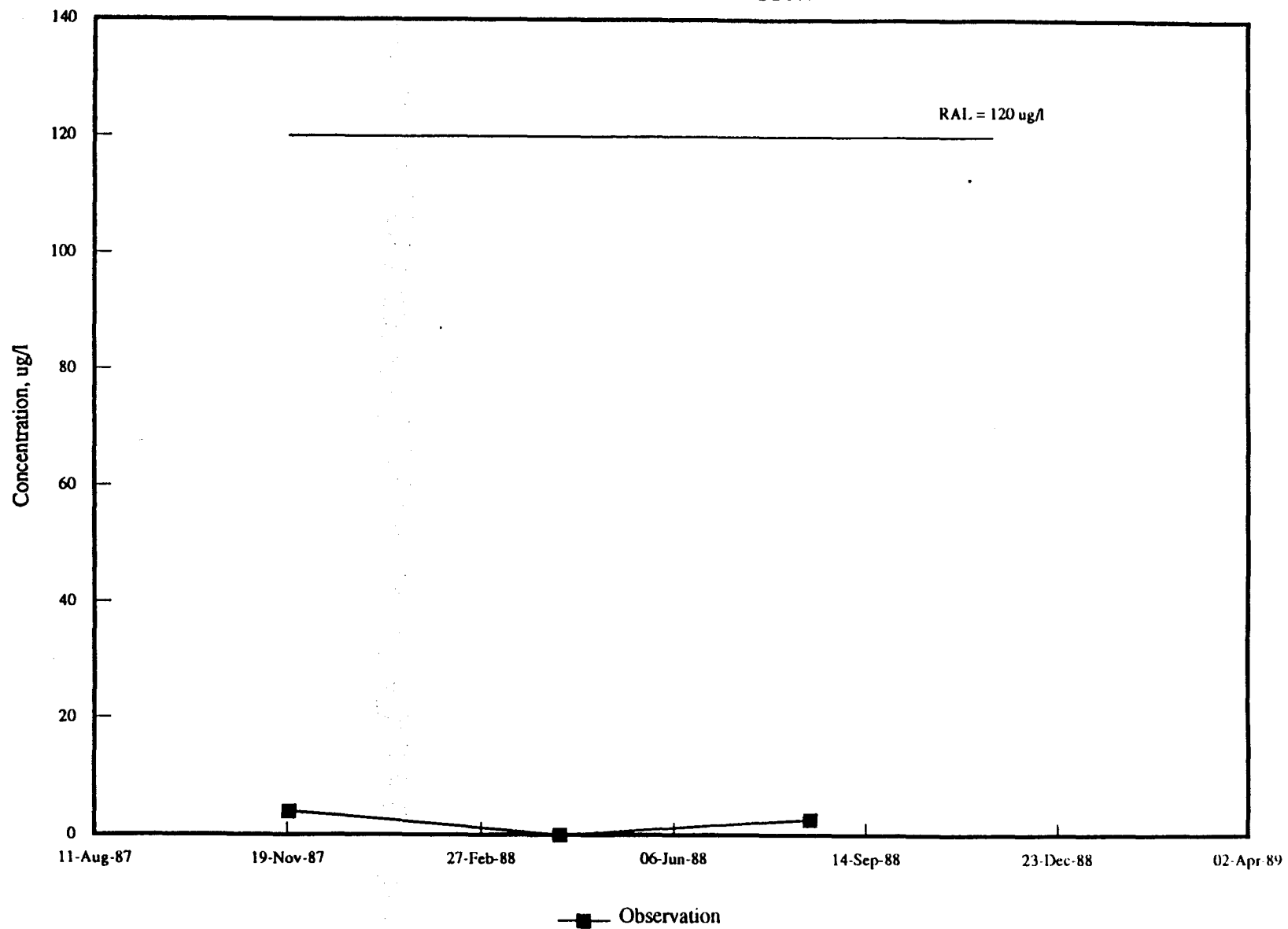
BARIUM - WELL 03U112



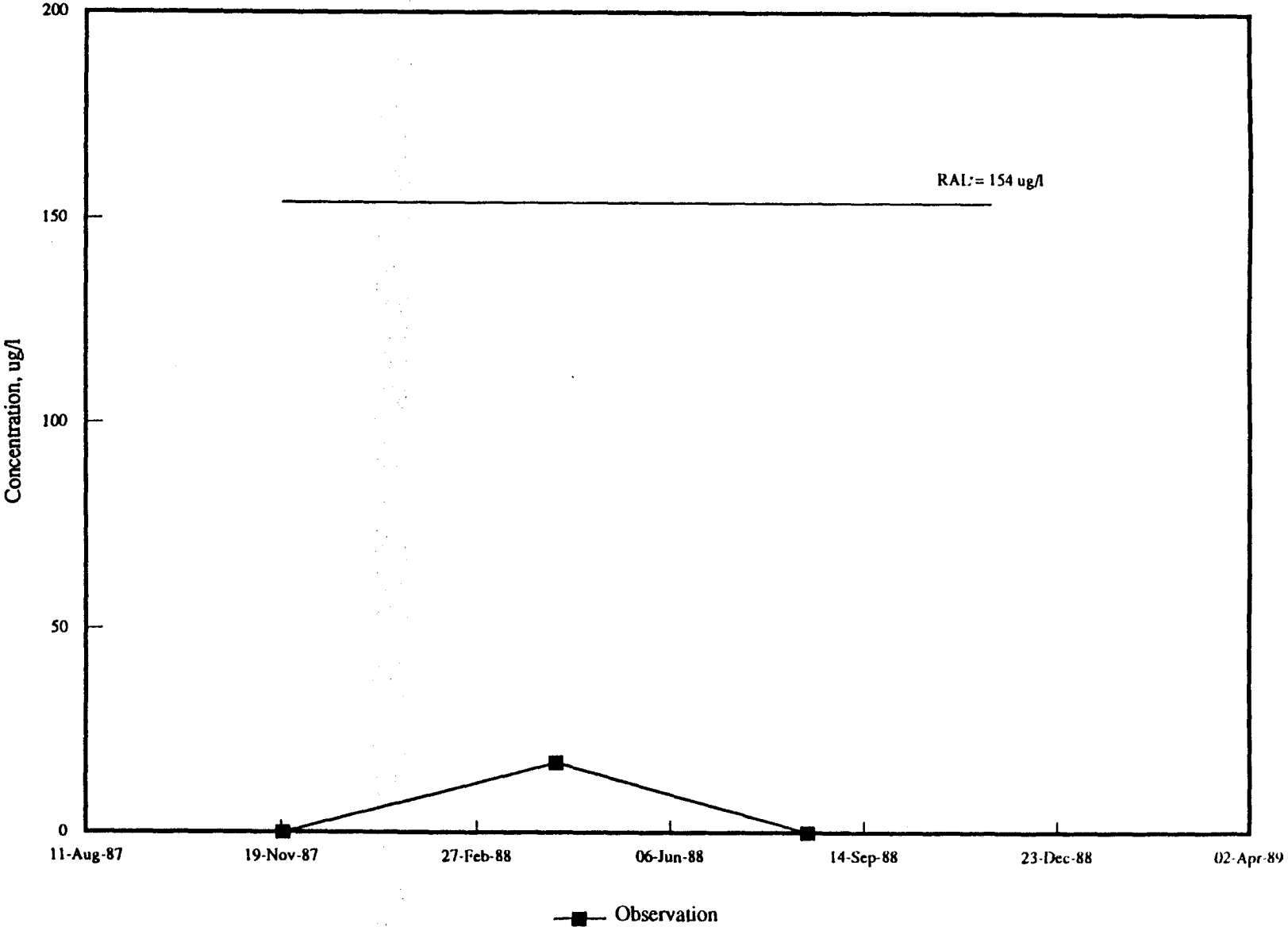
CHLOROFORM - WELL 03U112



CHROMIUM - WELL 03U112

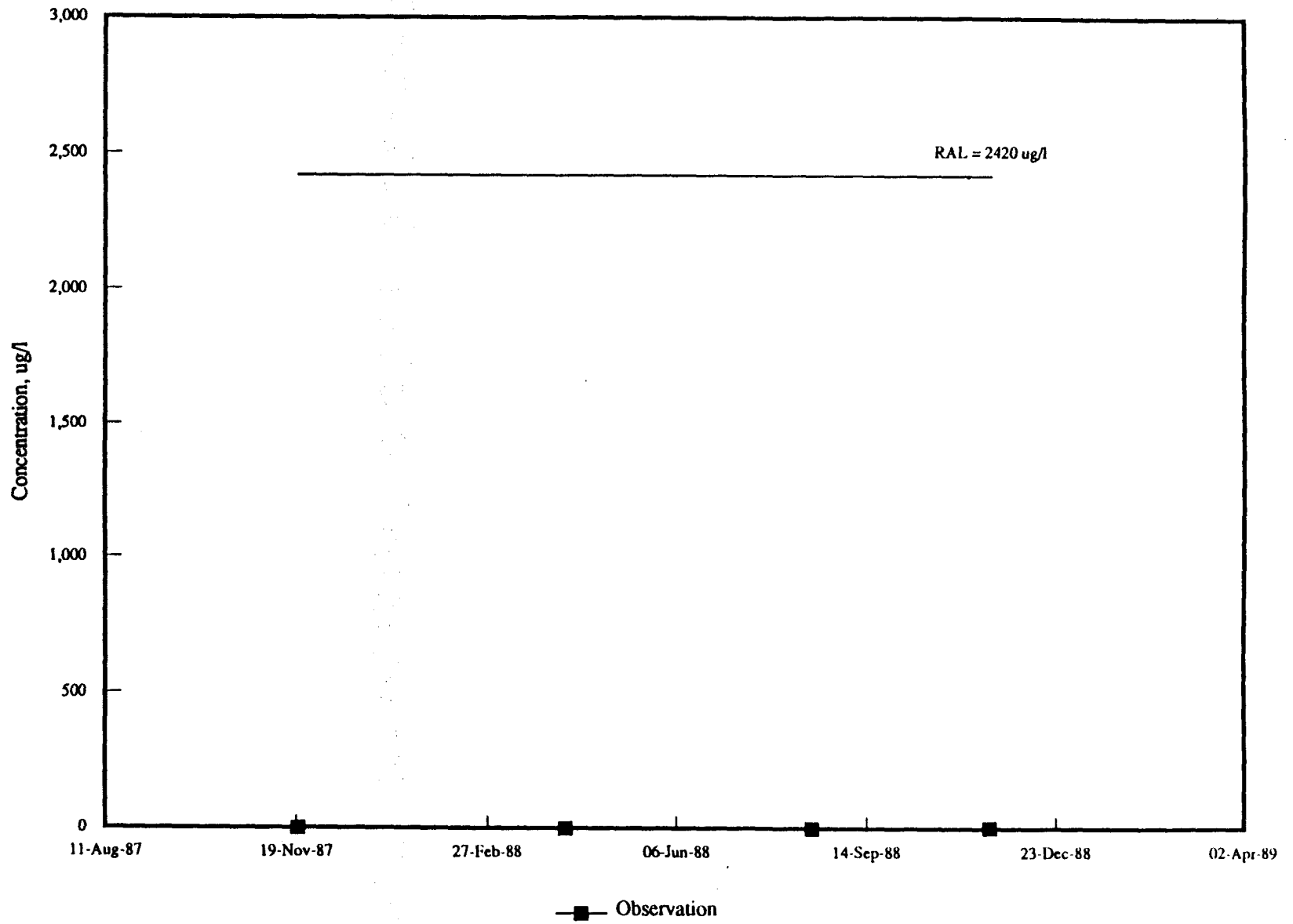


CYANIDE - WELL 03U112

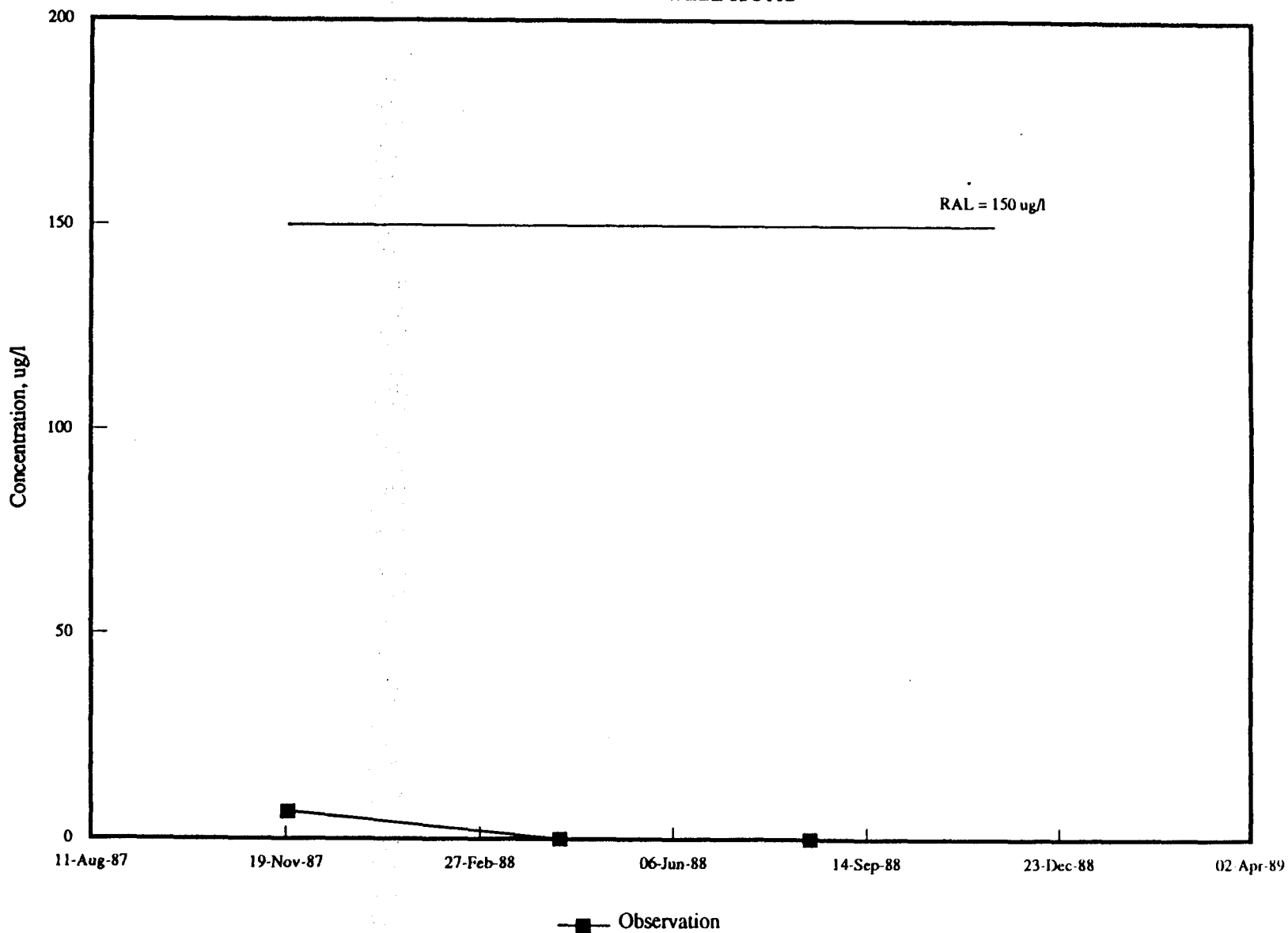




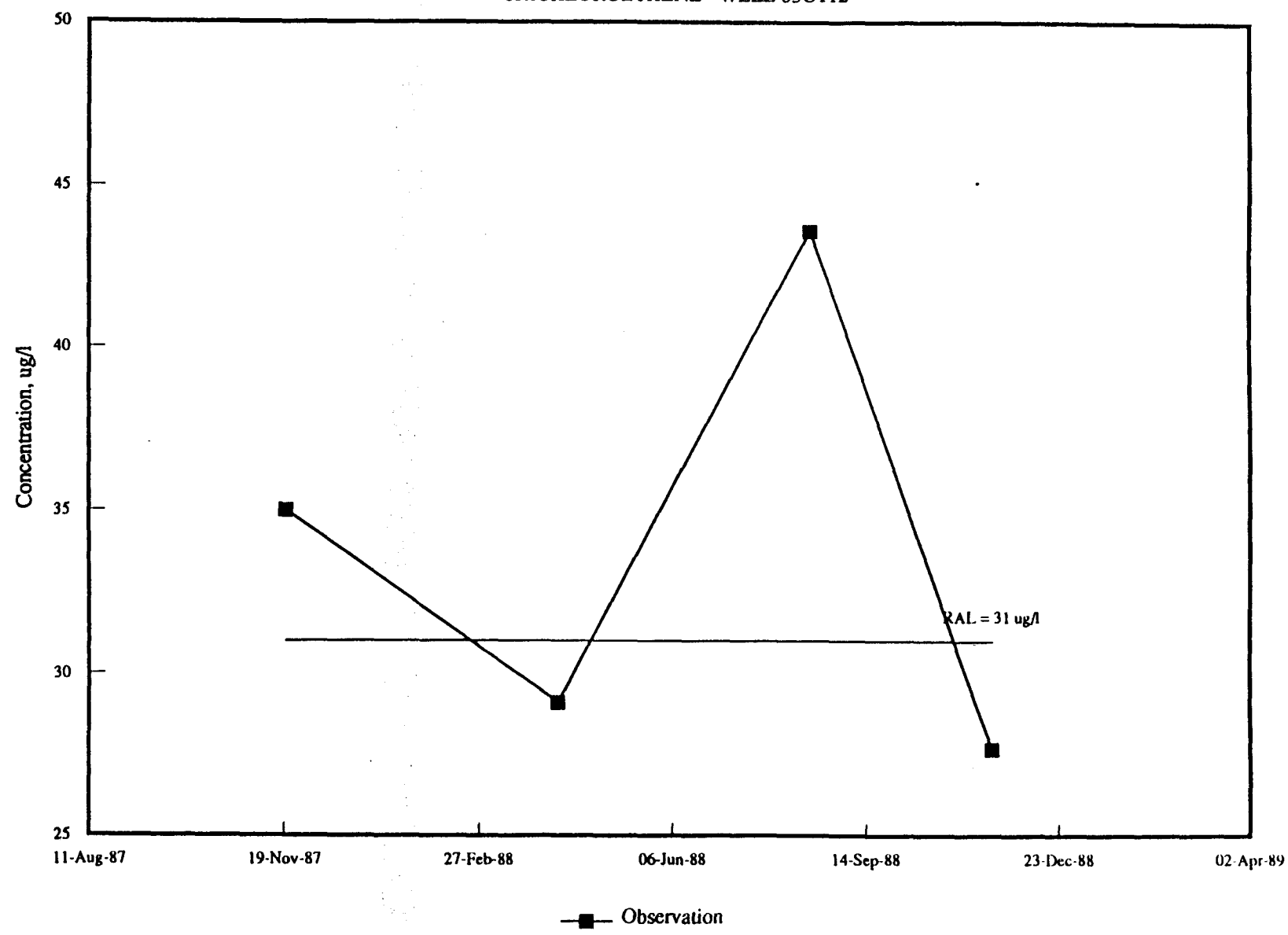
TOLUENE / METHYL BENZENE - WELL 03U112



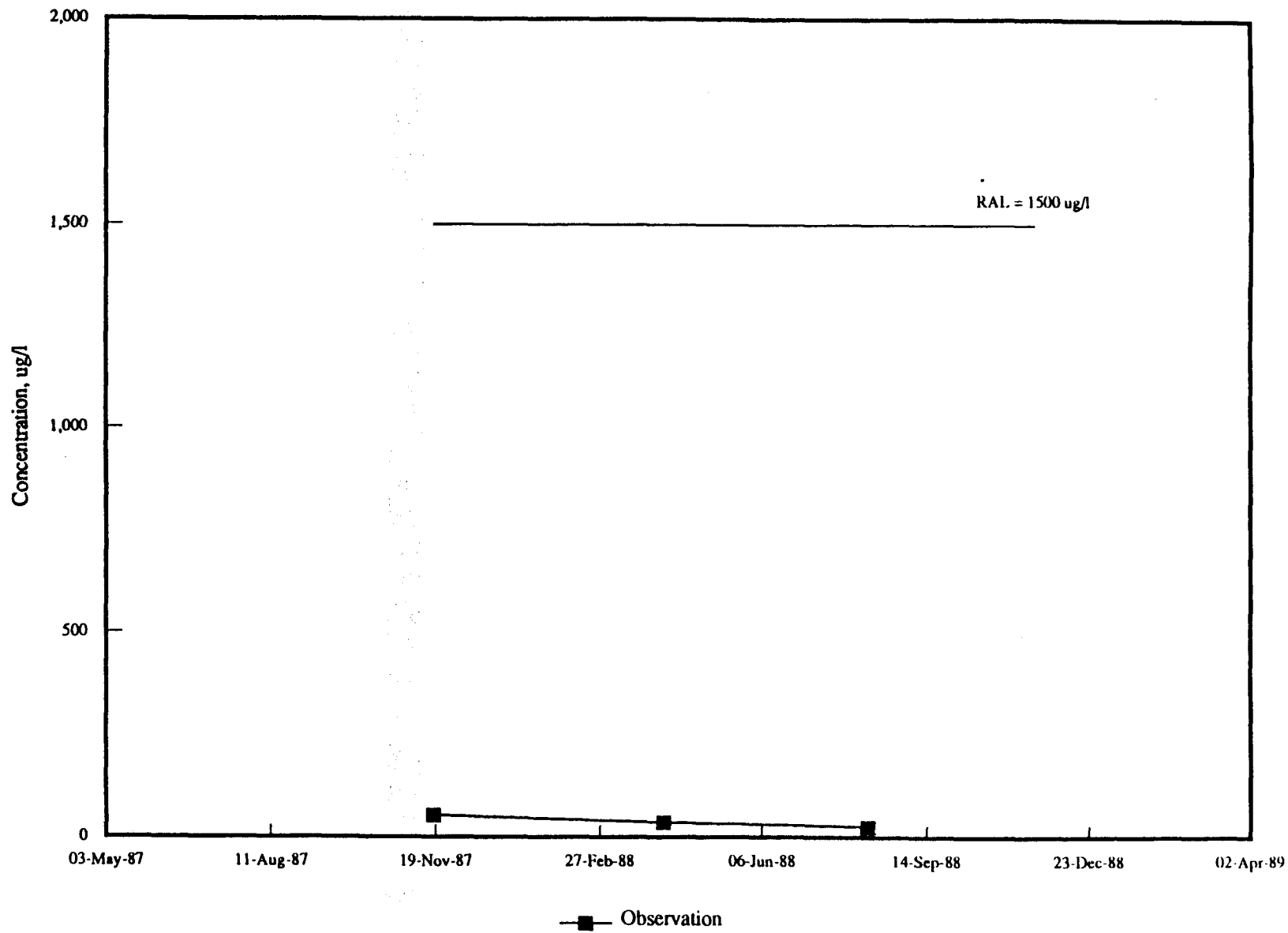
NICKEL - WELL 03U112



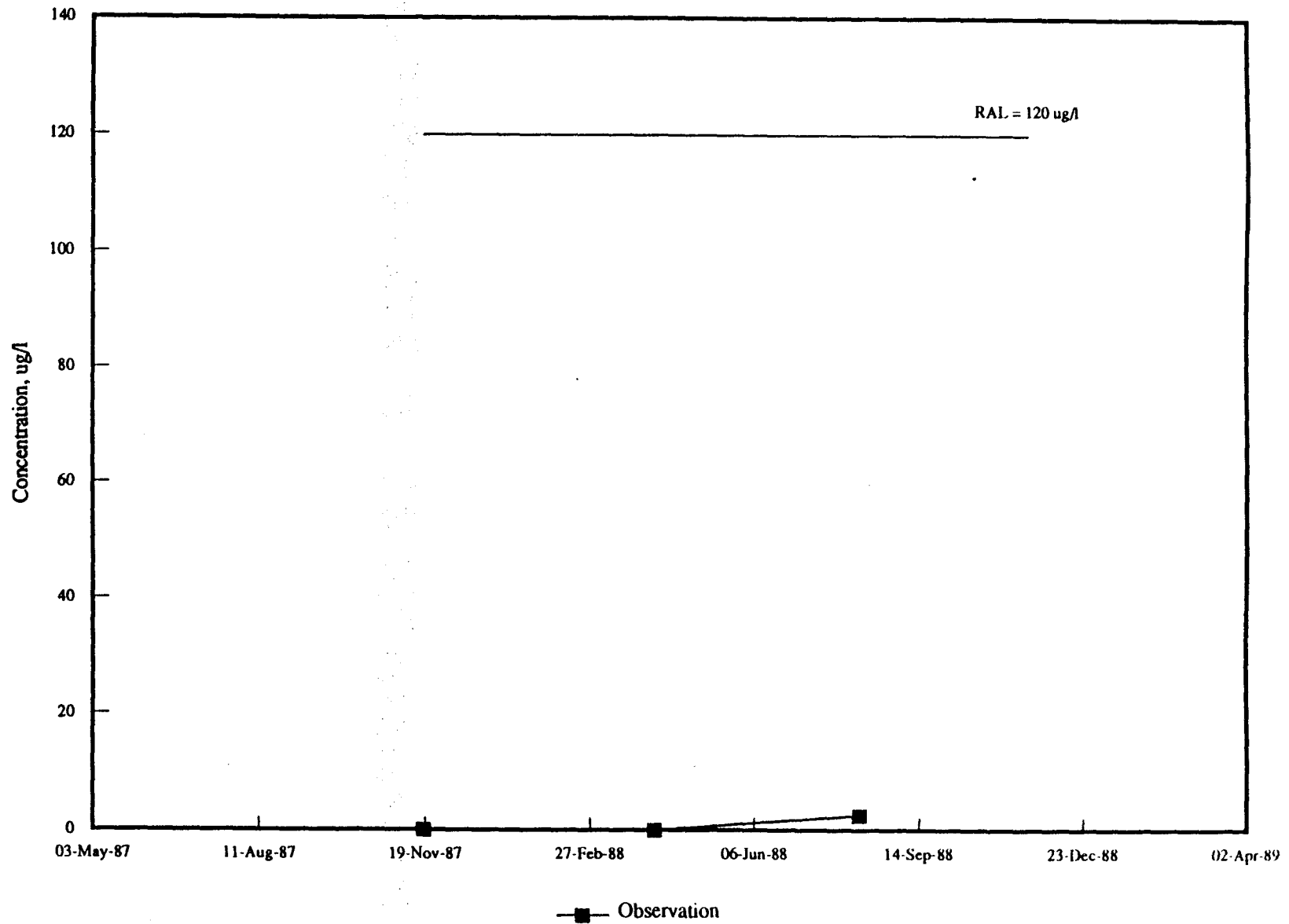
TRICHLOROETHENE - WELL 03U112



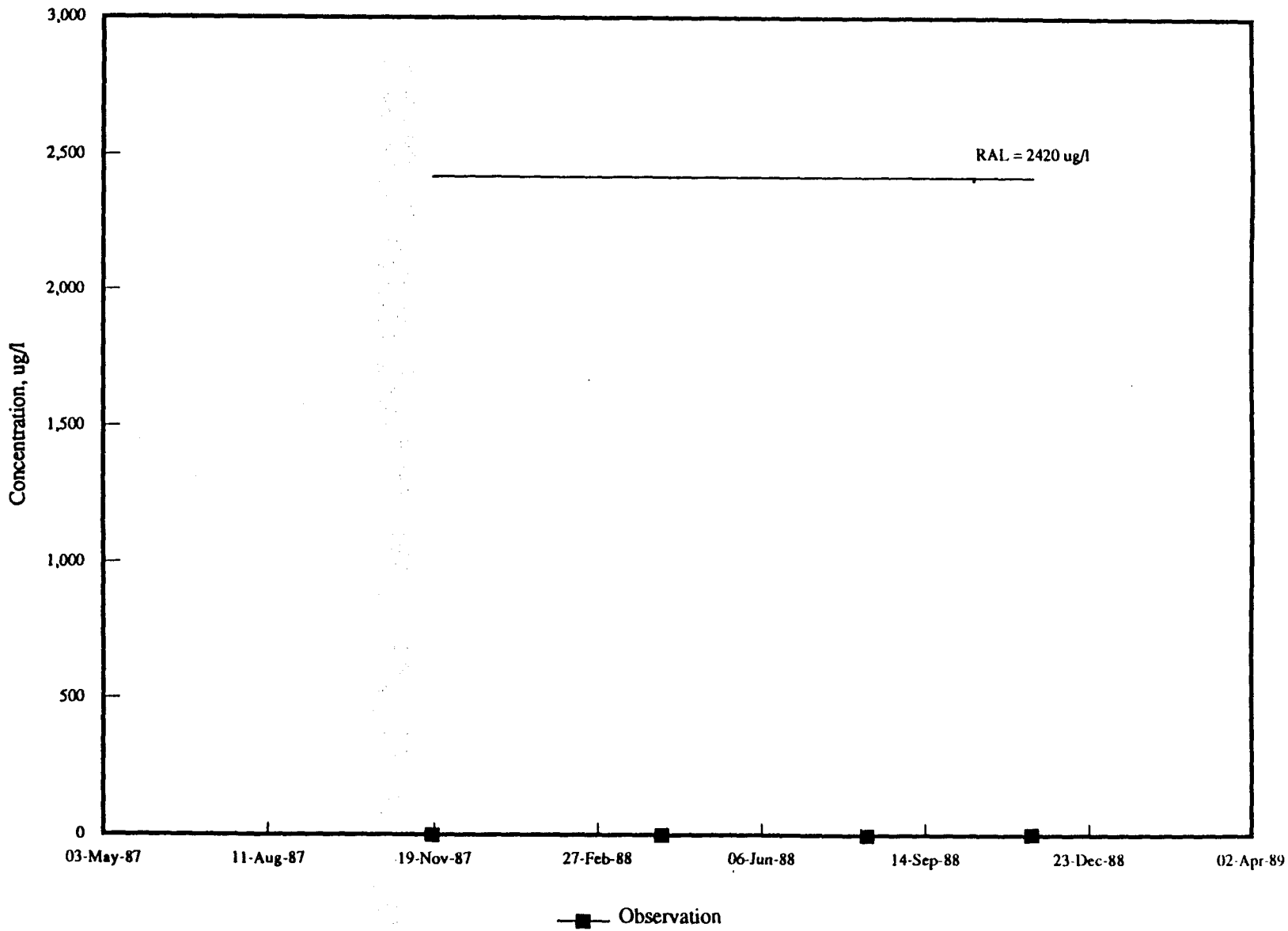
BARIUM - WELL 03U113



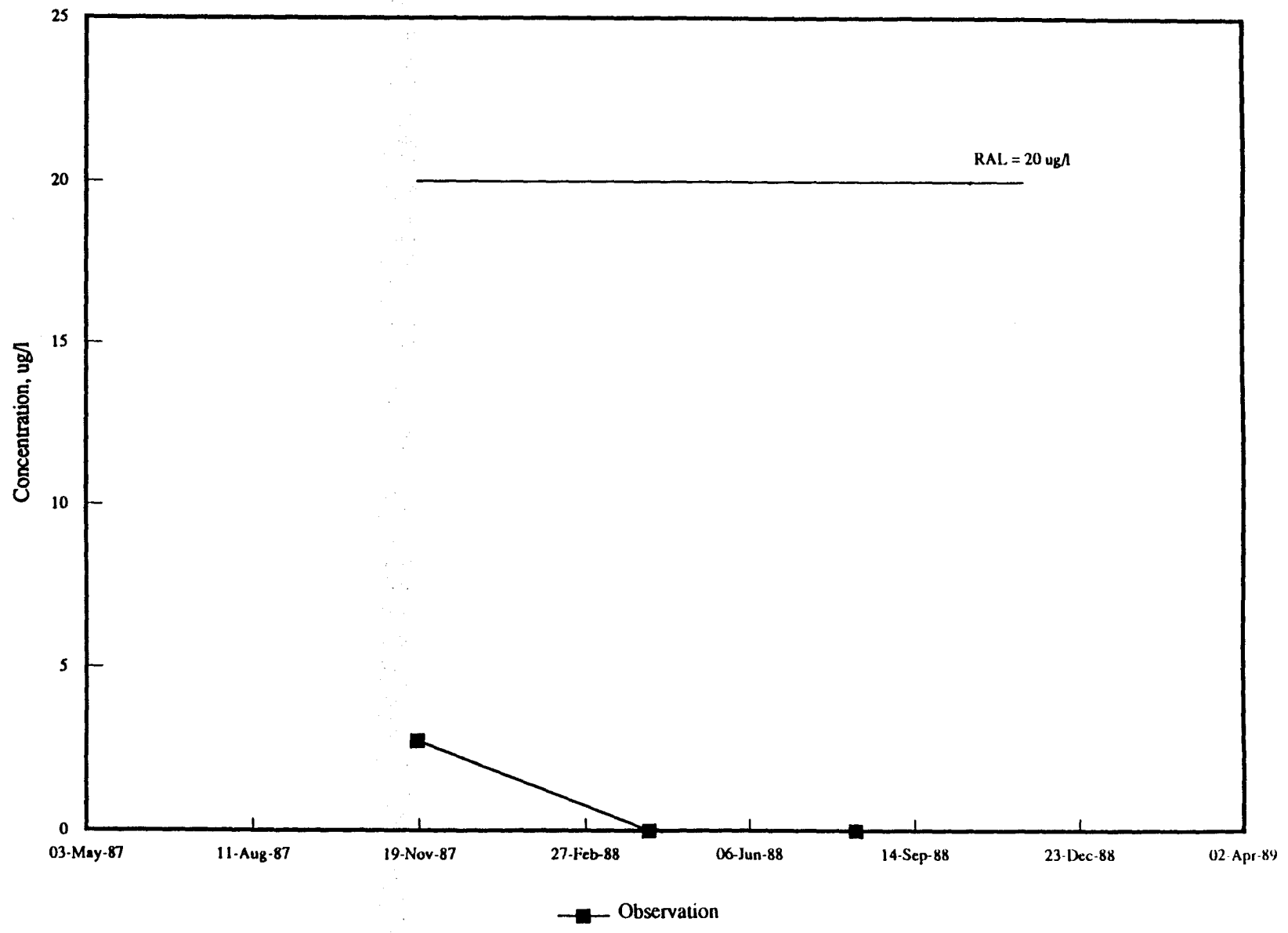
CHROMIUM - WELL 03U113



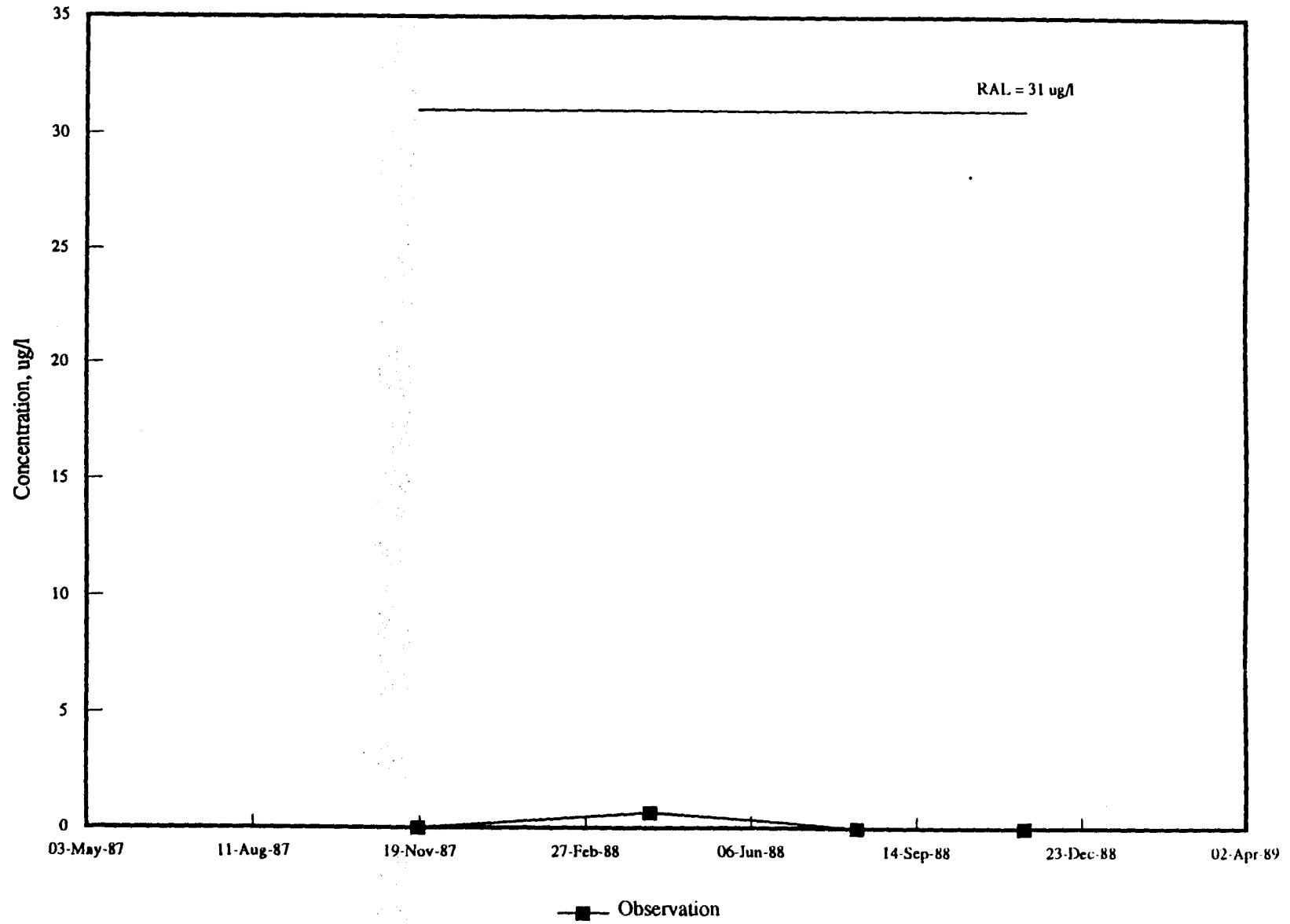
TOLUENE / METHYL BENZENE - WELL 03U113



LEAD - WELL 03U113

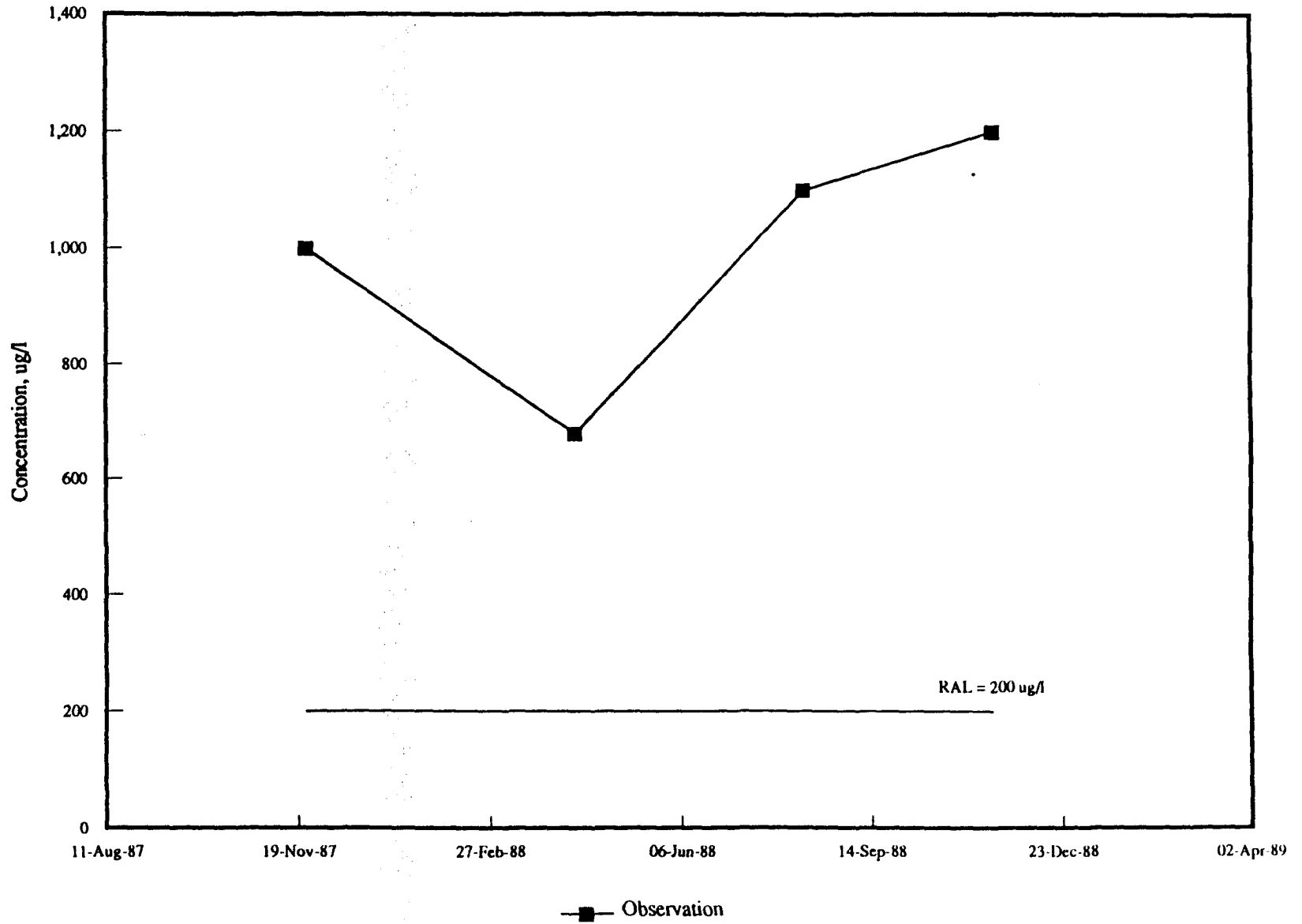


TRICHLOROETHENE - WELL 03U113

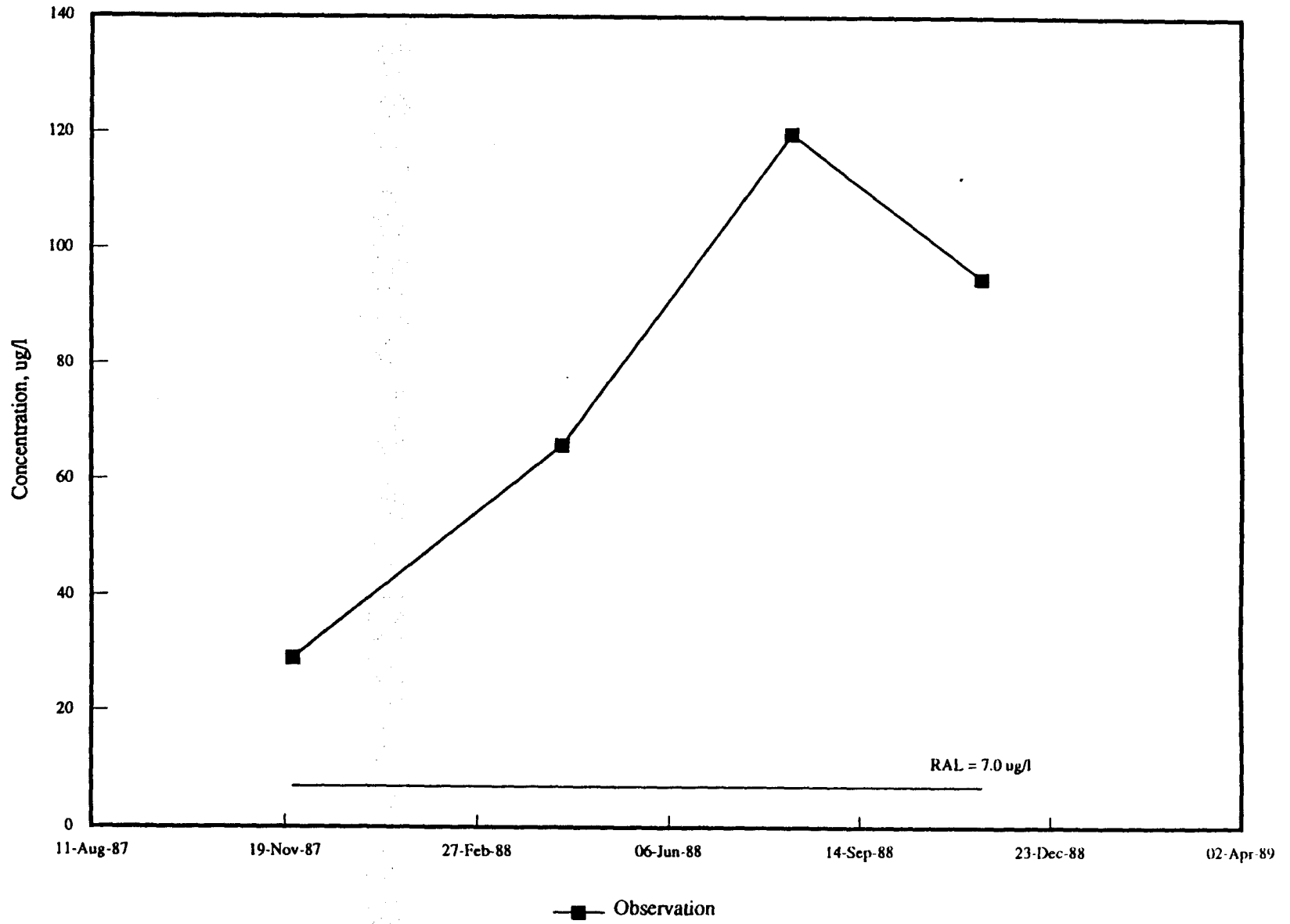




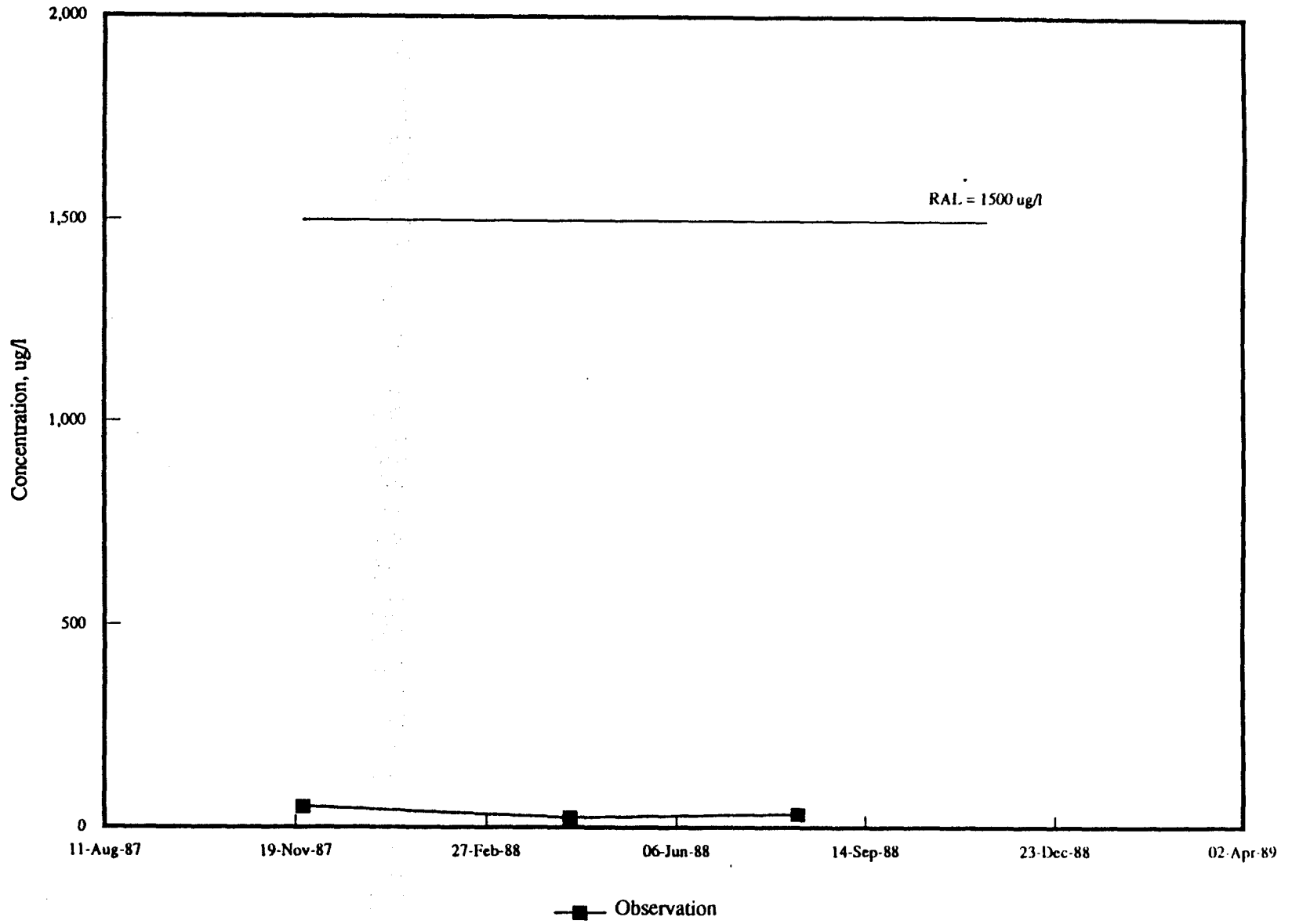
1,1,1-TRICHLOROETHANE - WELL 03U114



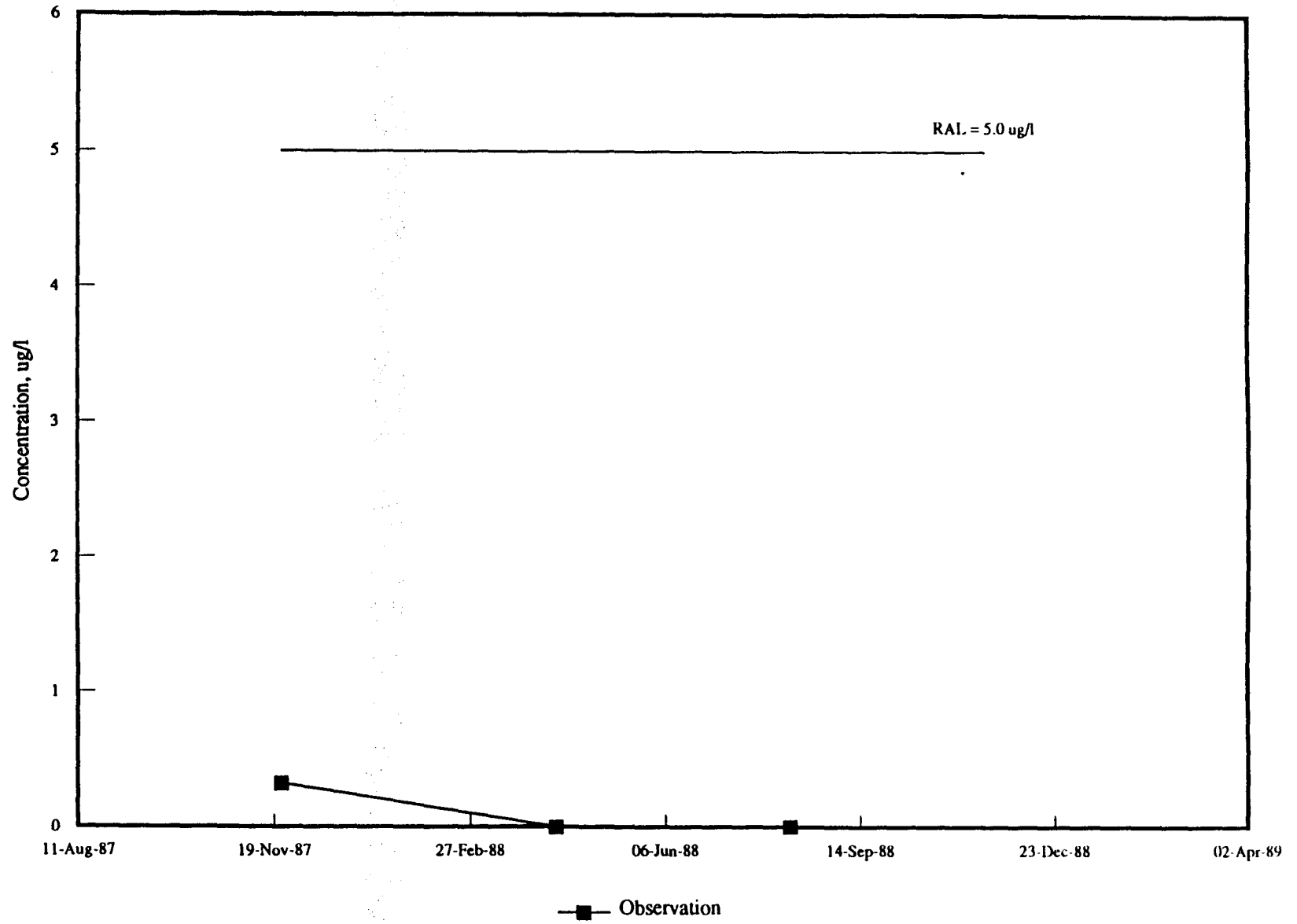
1,1-DICHLOROETHENE - WELL 03U114



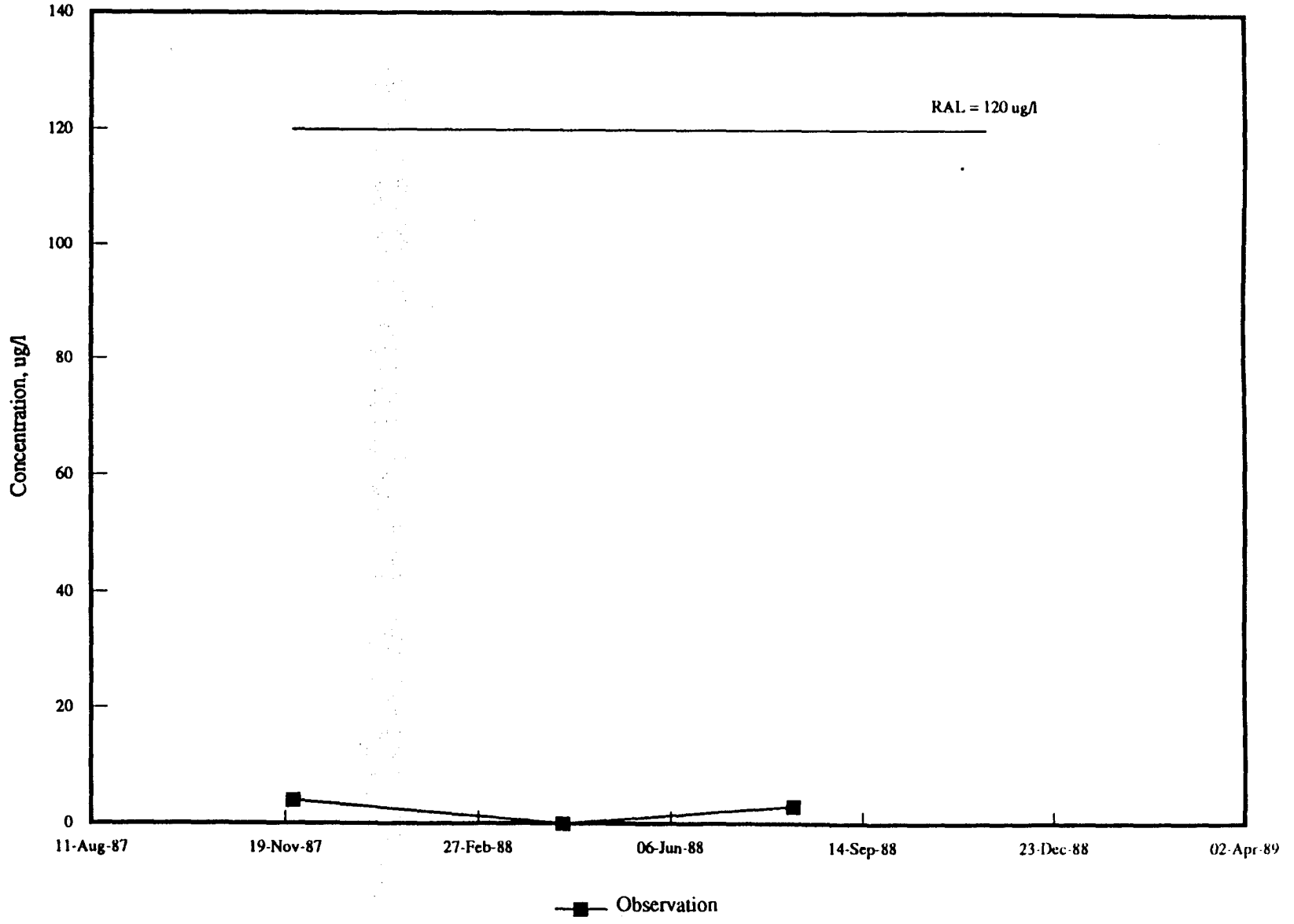
BARIUM - WELL 03U114



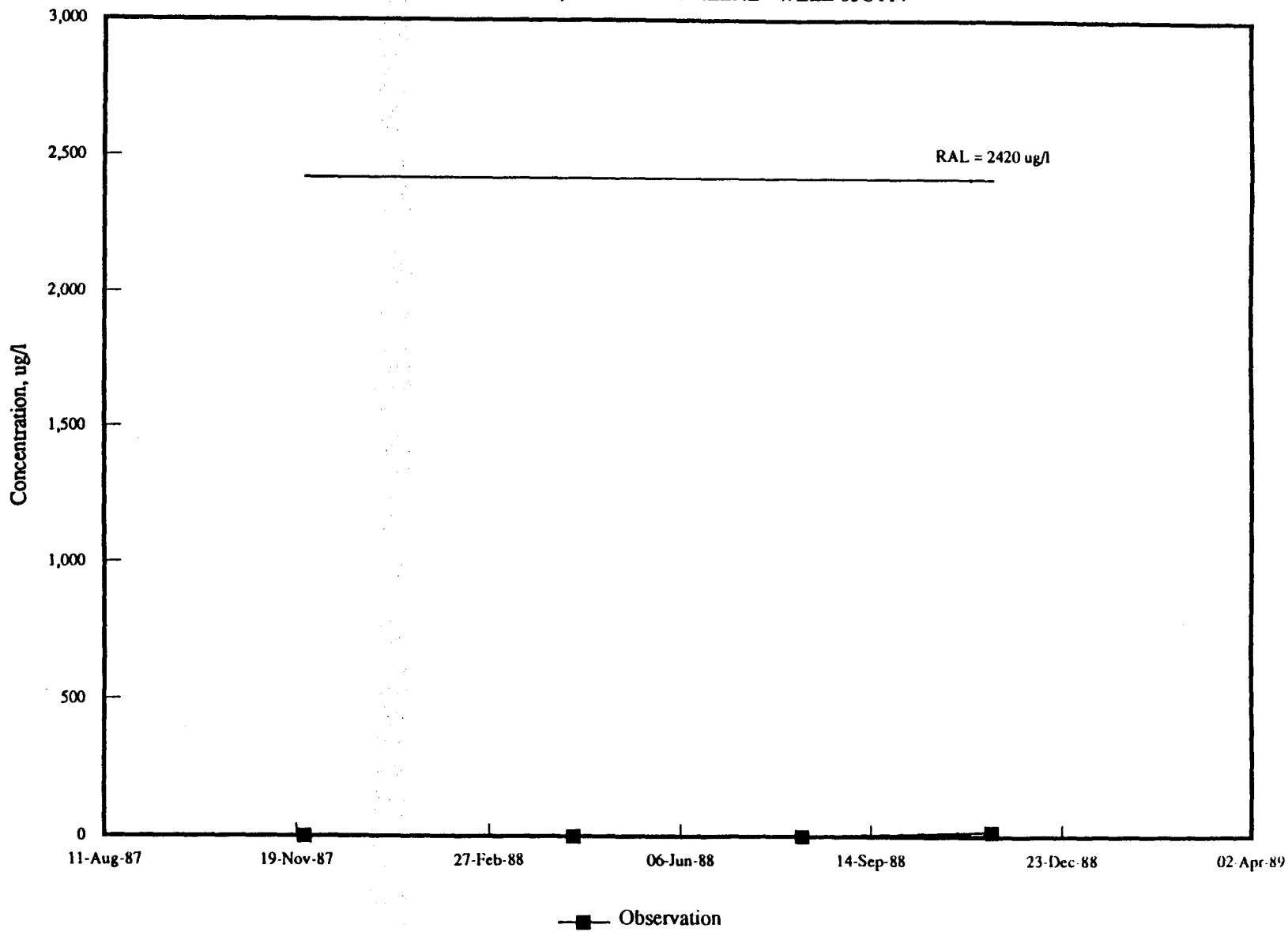
CADMIUM - WELL 03U114



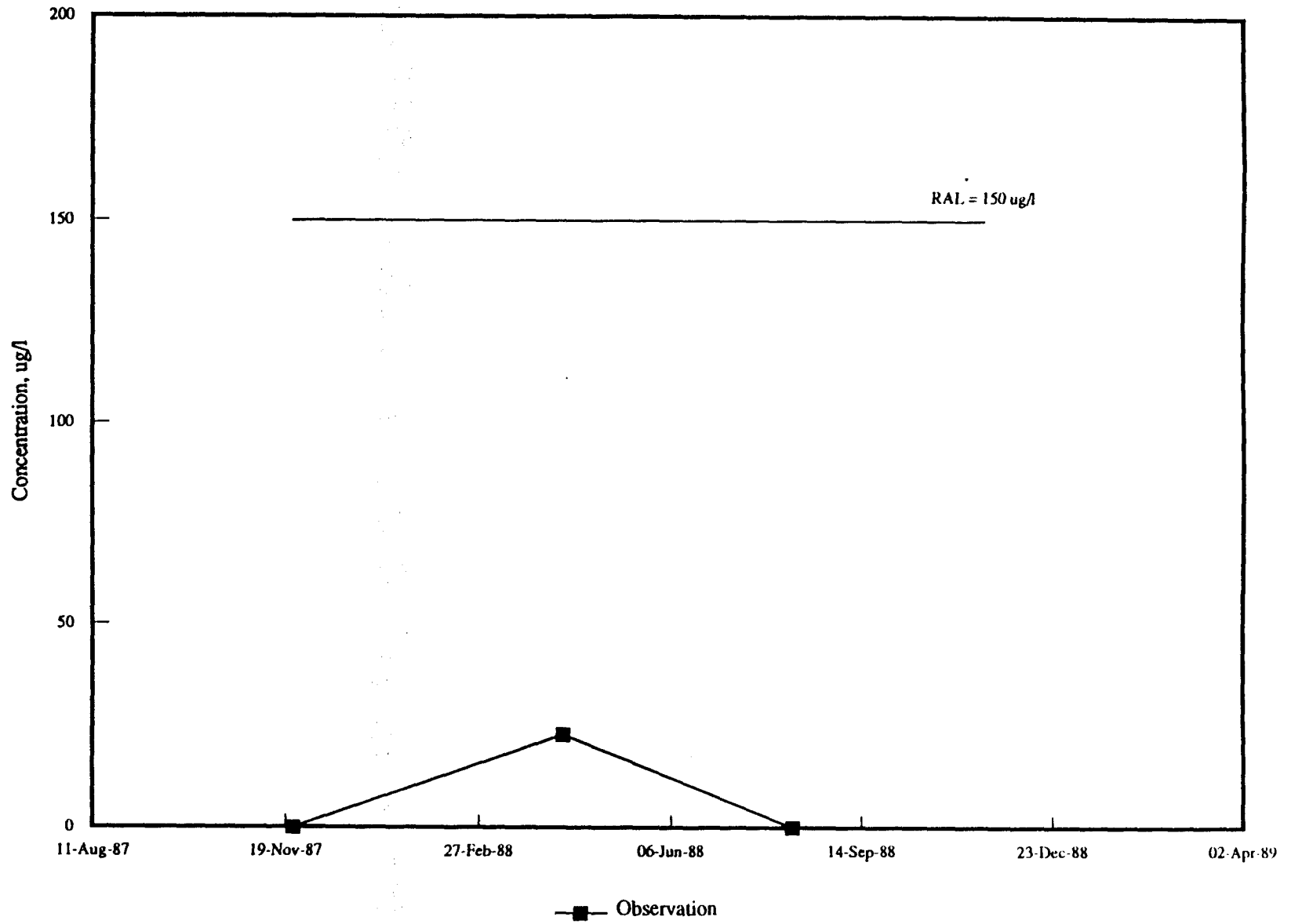
CHROMIUM - WELL 03U114



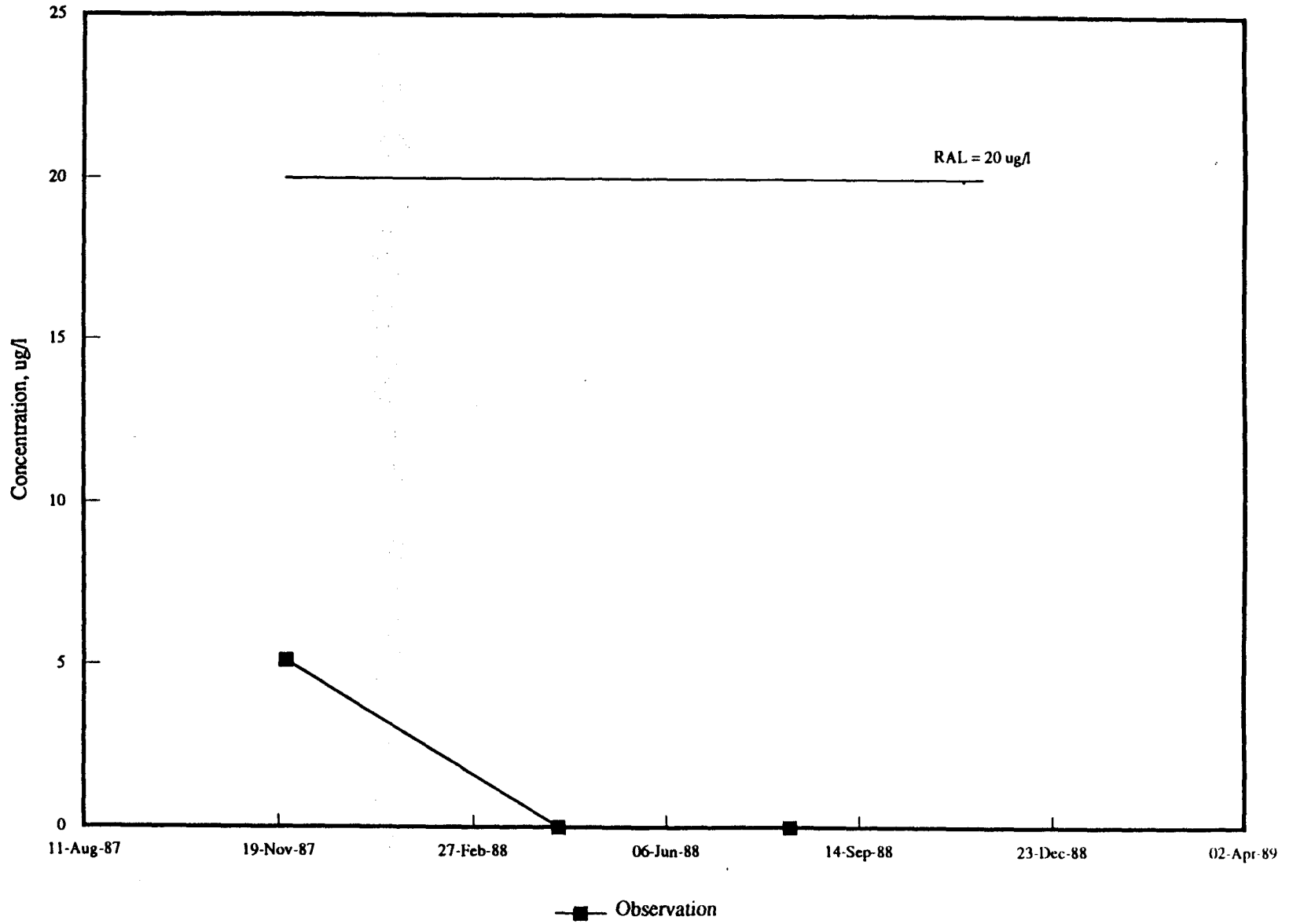
TOLUENE / METHYL BENZENE - WELL 03U114



NICKEL - WELL 03U114

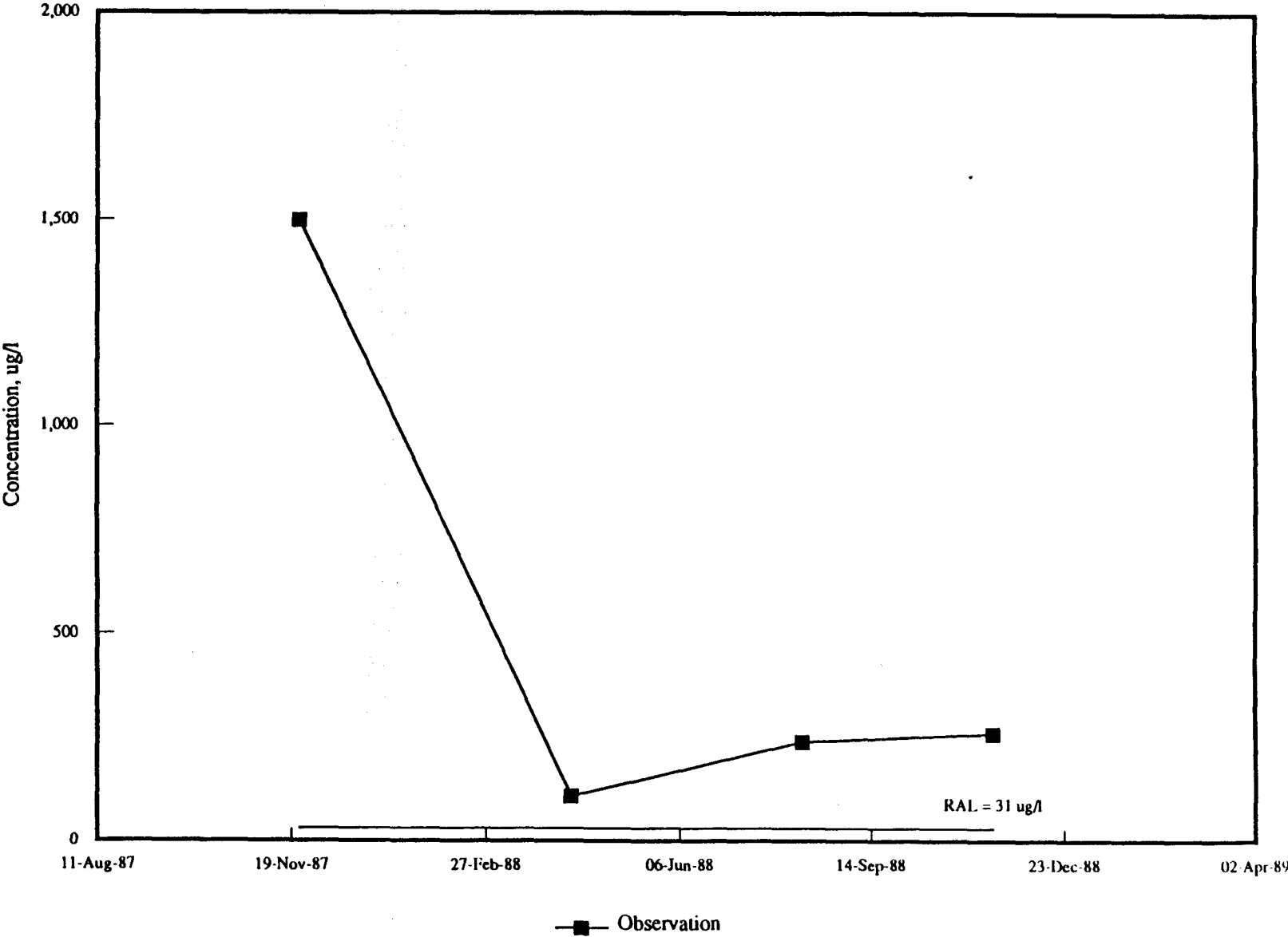


LEAD - WELL 03U114

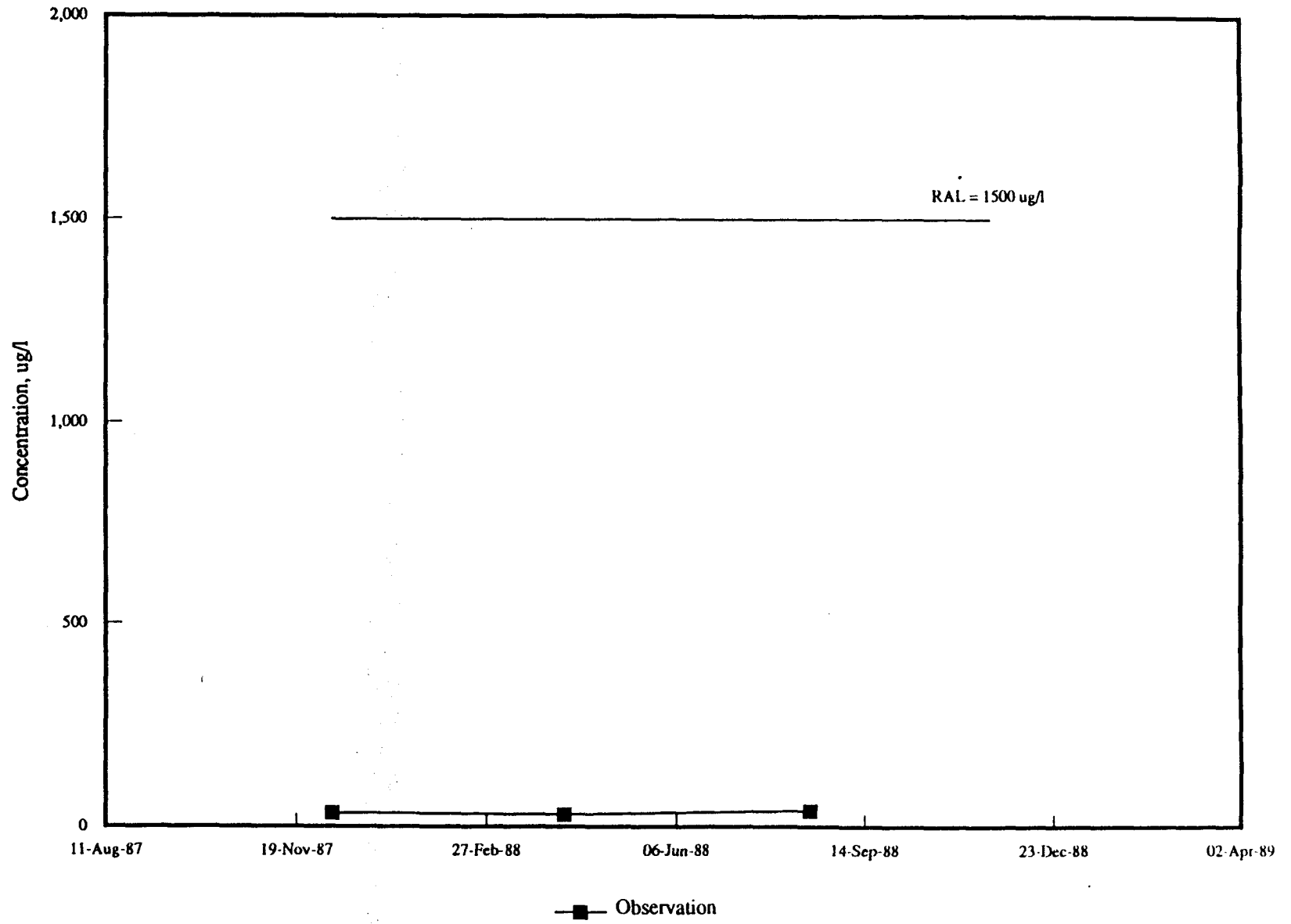




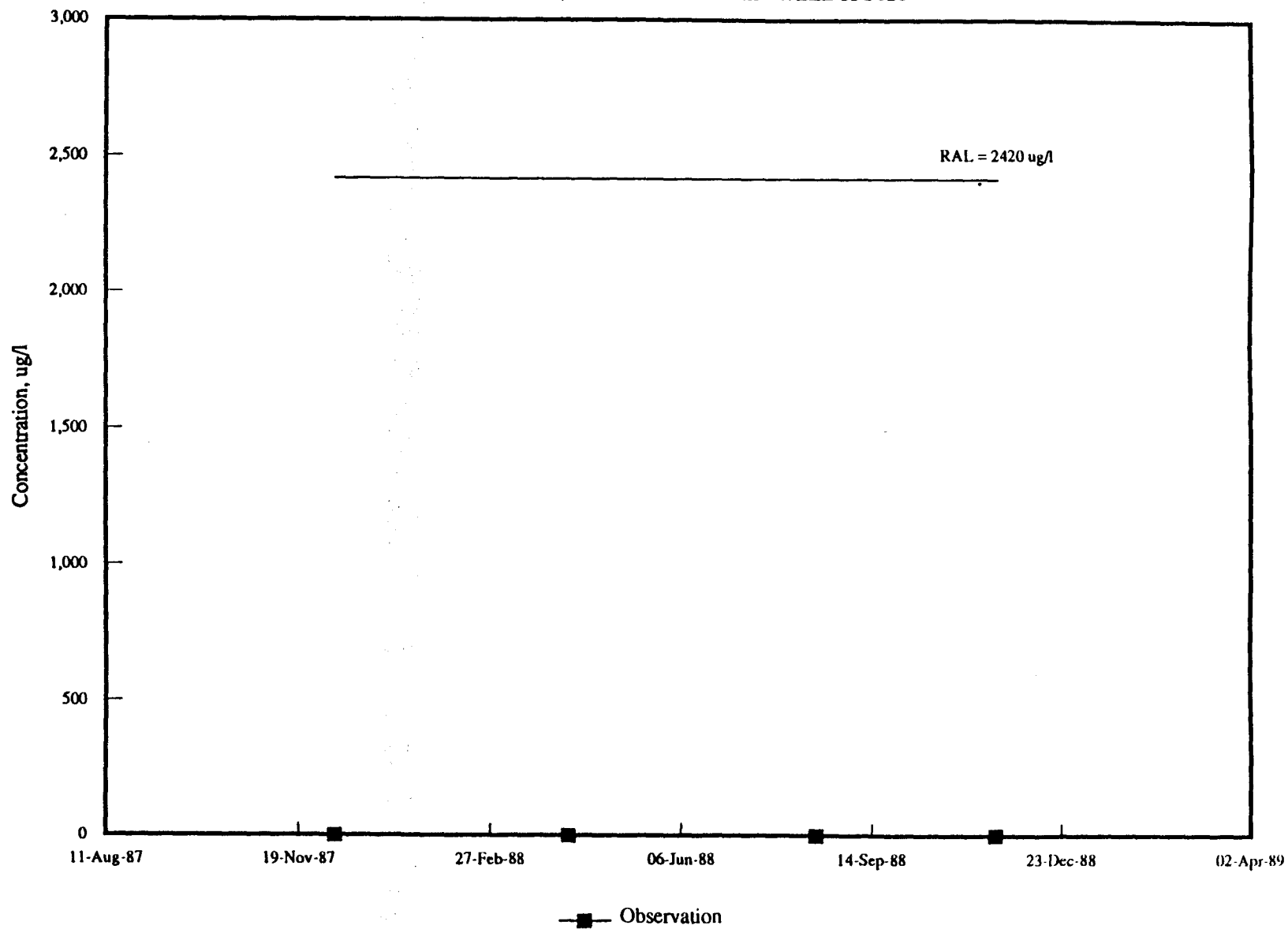
TRICHLOROETHENE - WELL 03U114



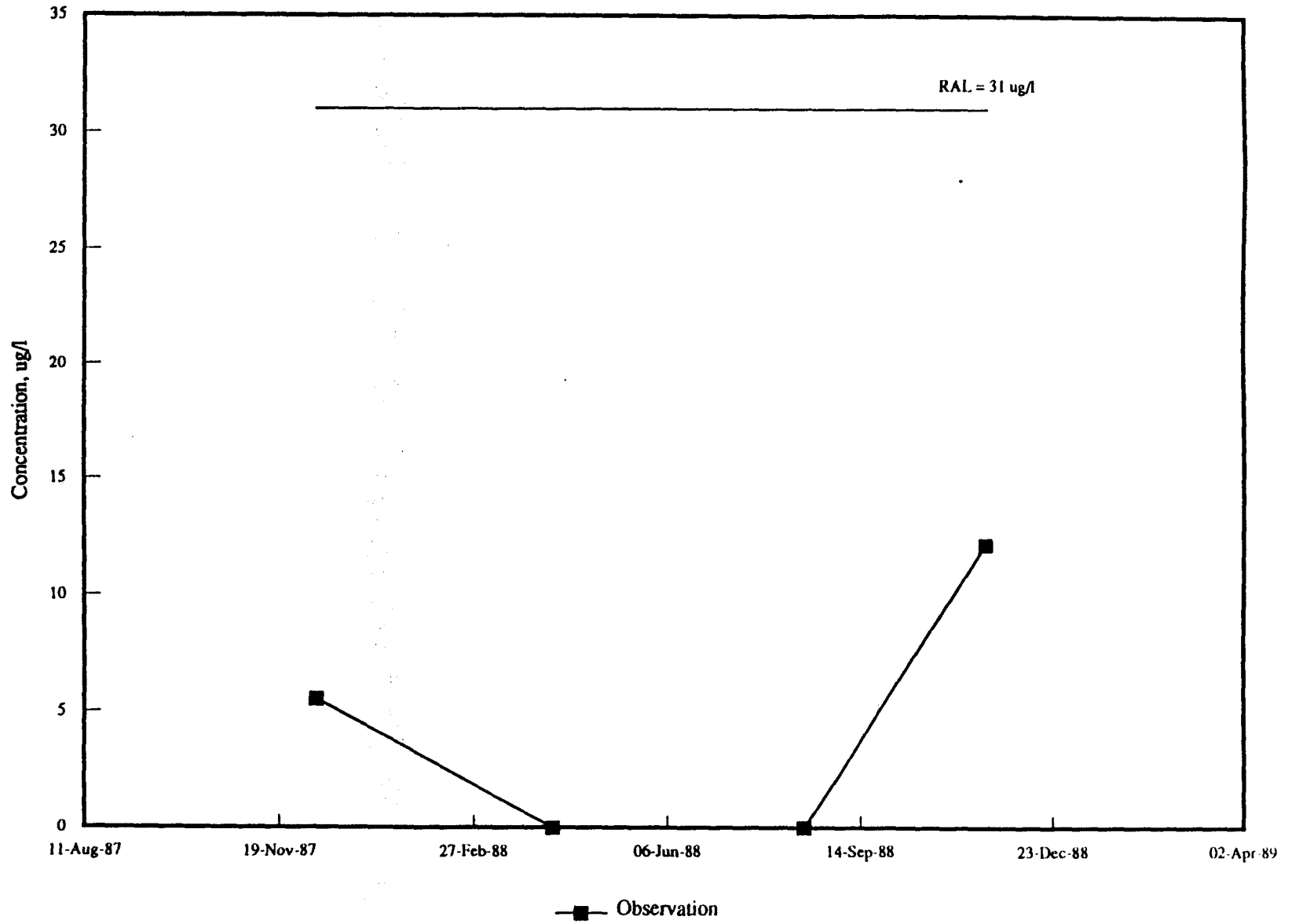
BARIUM - WELL 03U121



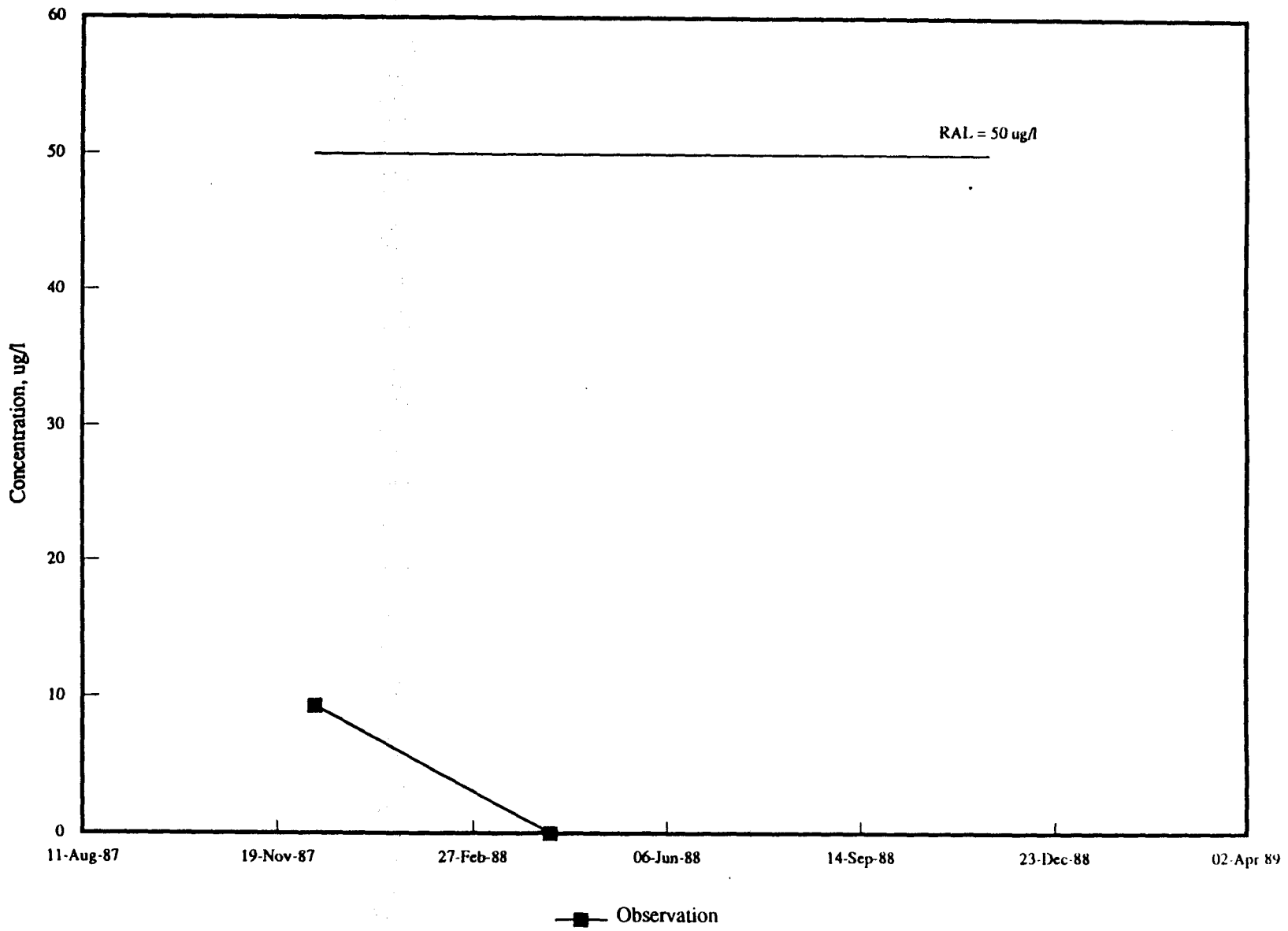
TOLUENE / METHYL BENZENE - WELL 03U121



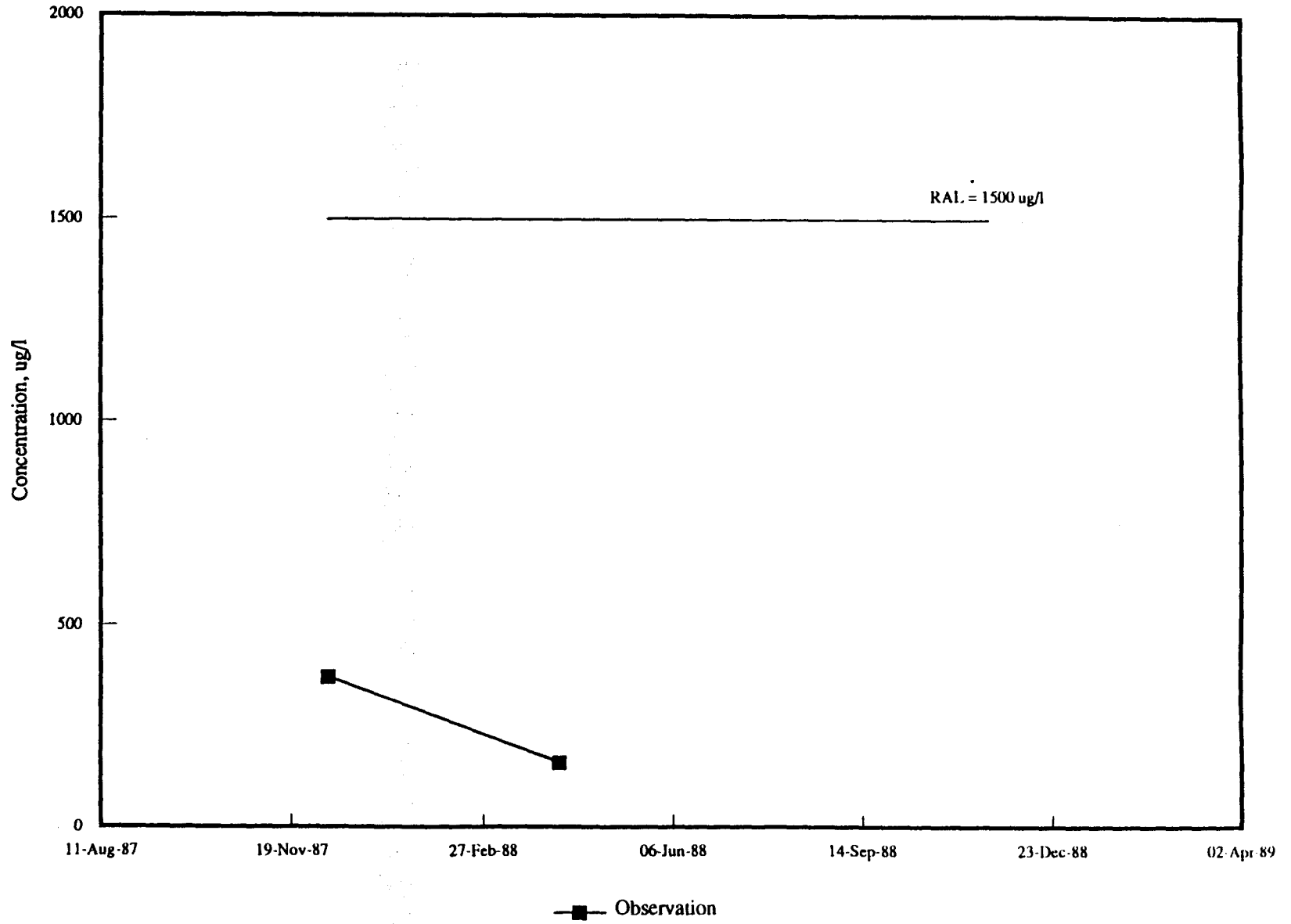
TRICHLOROETHENE - WELL 03U121



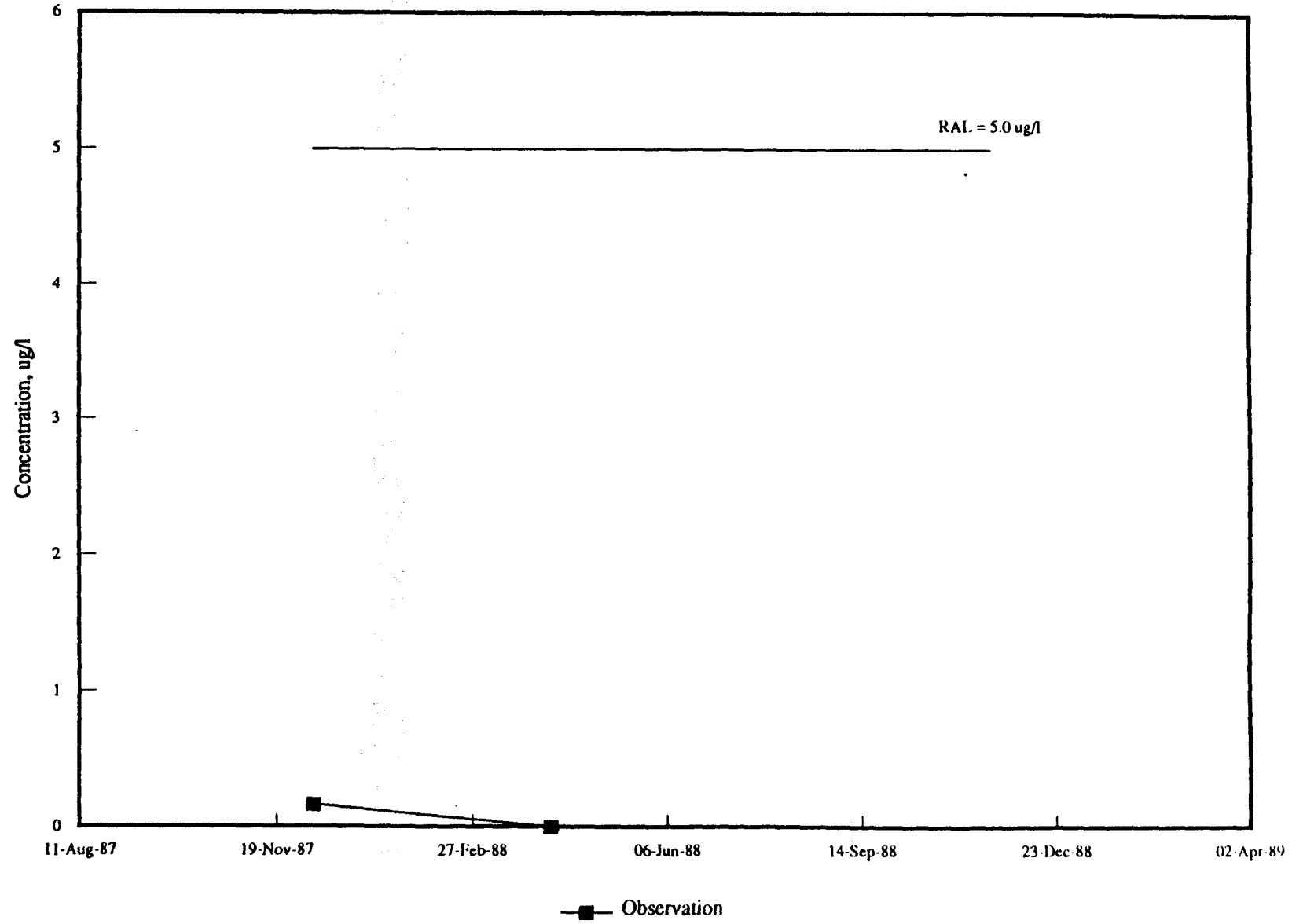
ARSENIC - WELL 03U129



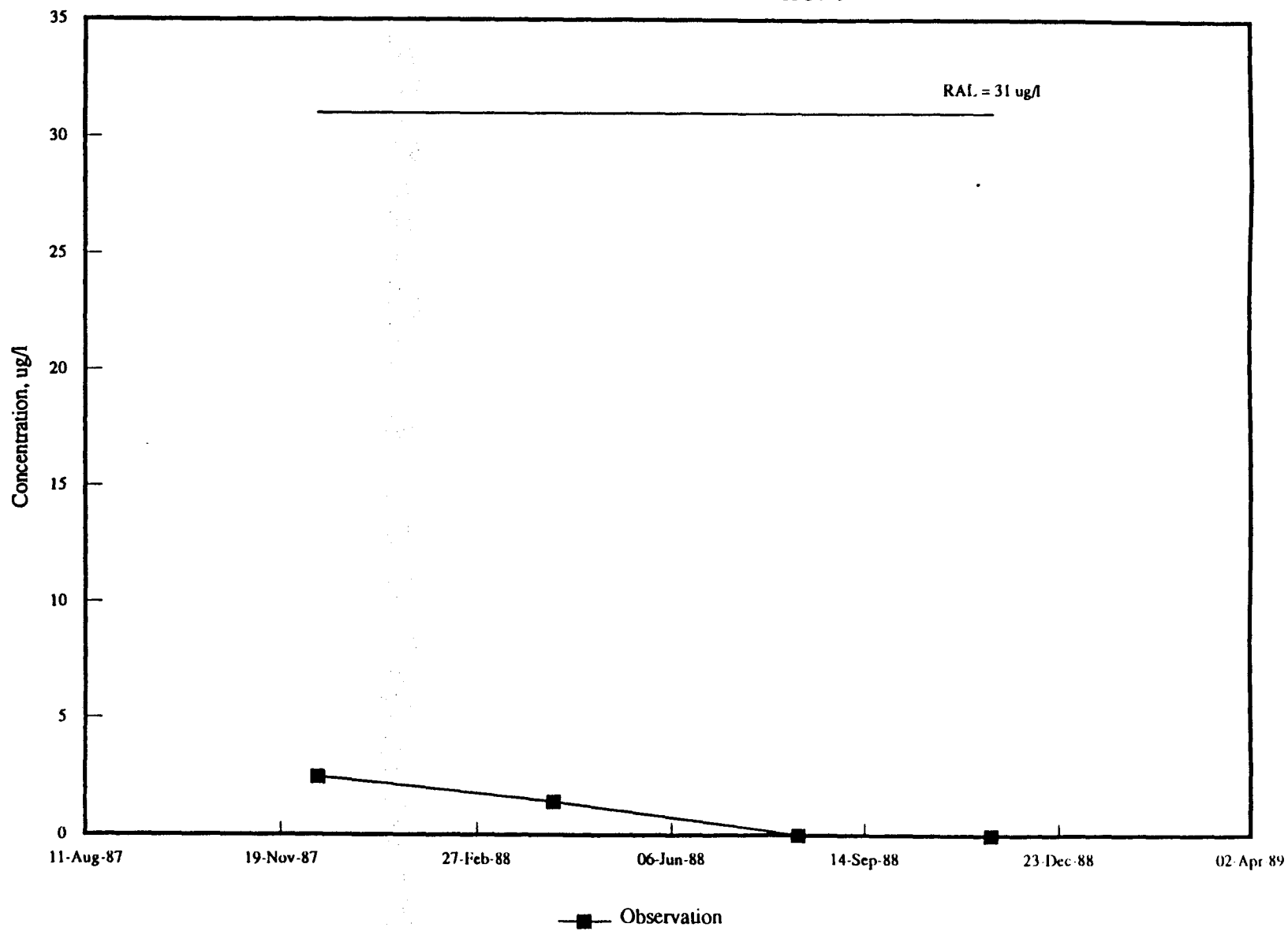
BARIUM - WELL 03U129



CADMIUM - WELL 03U129

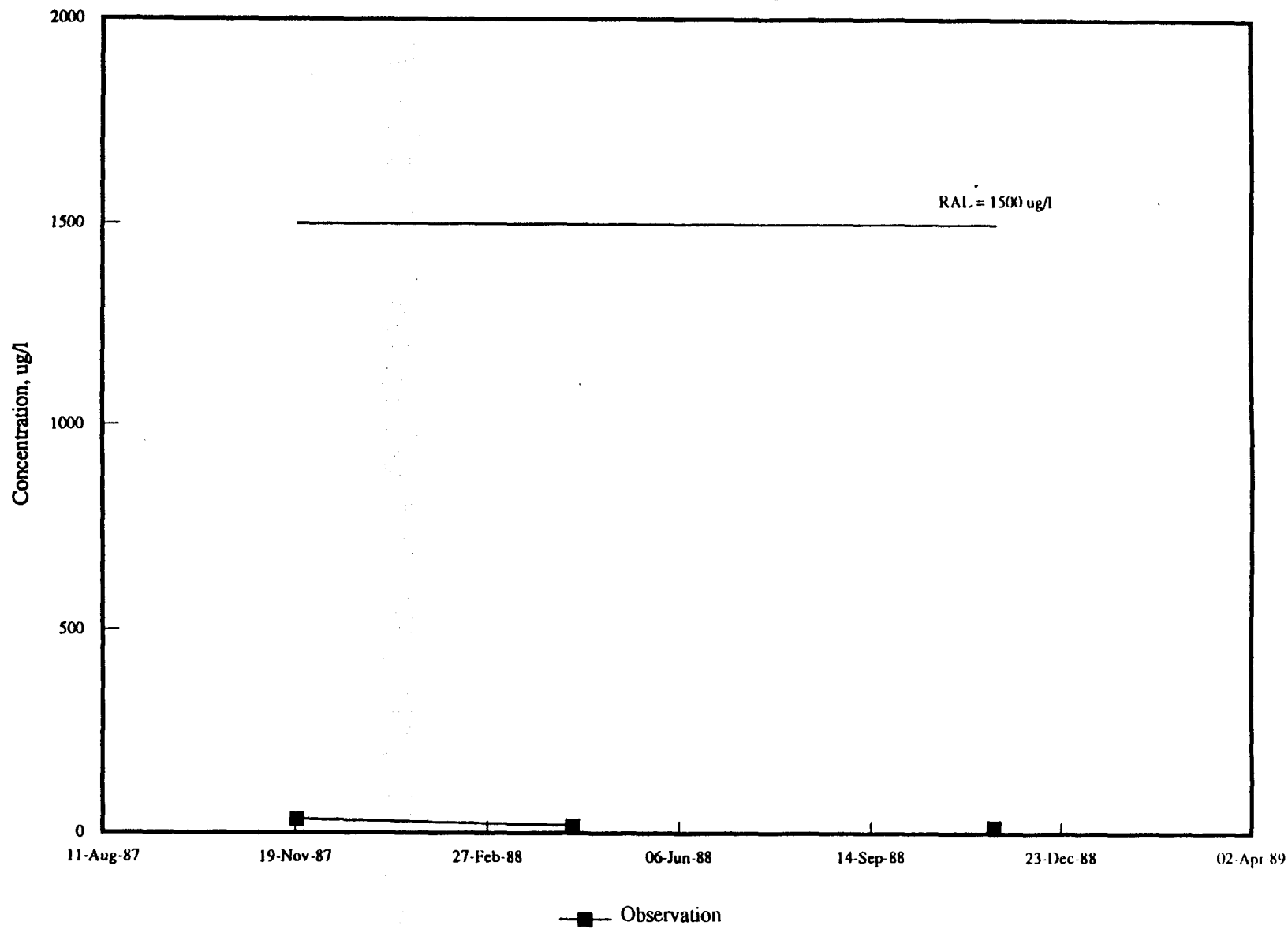


TRICHLOROETHENE - WELL 03U129

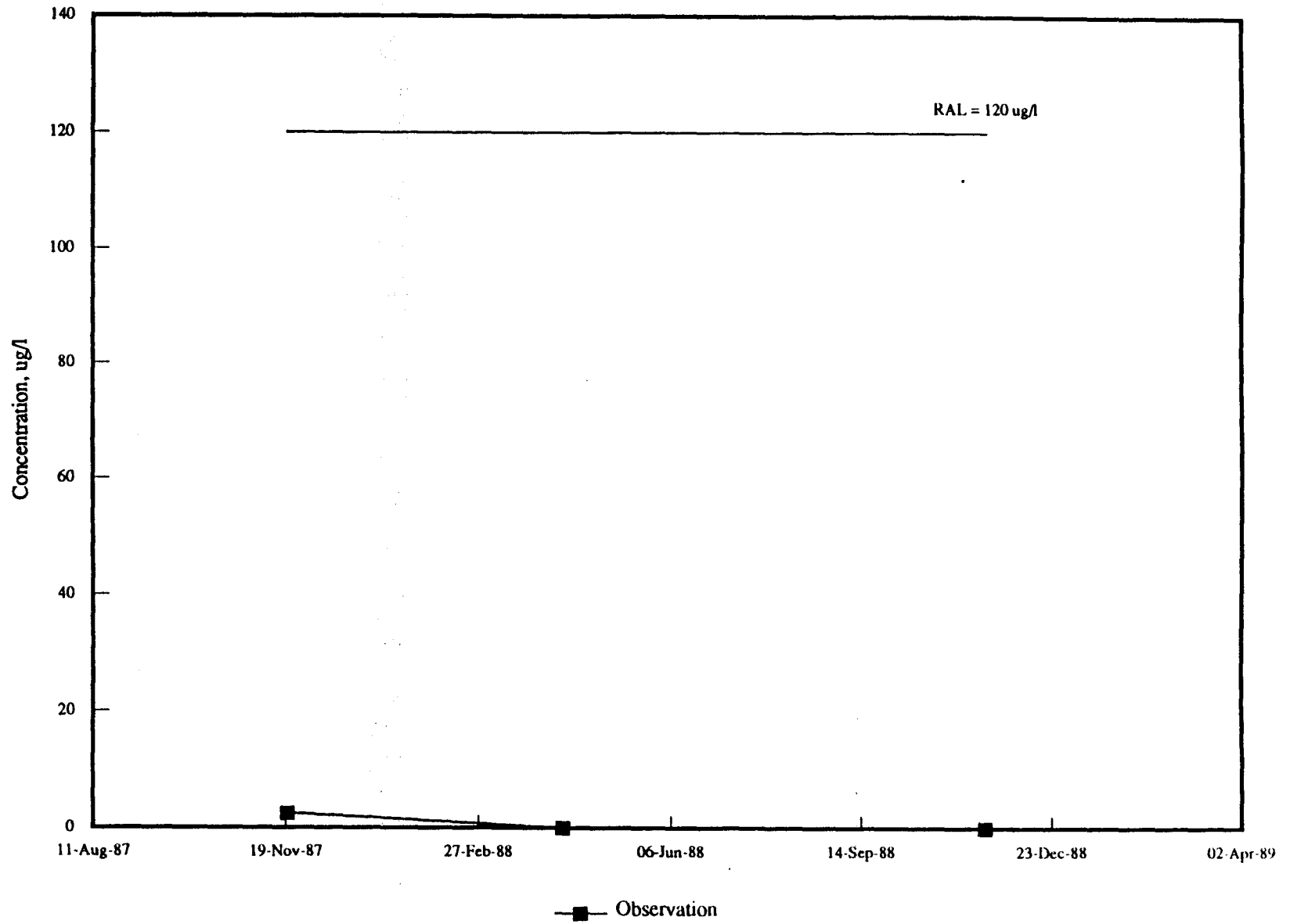




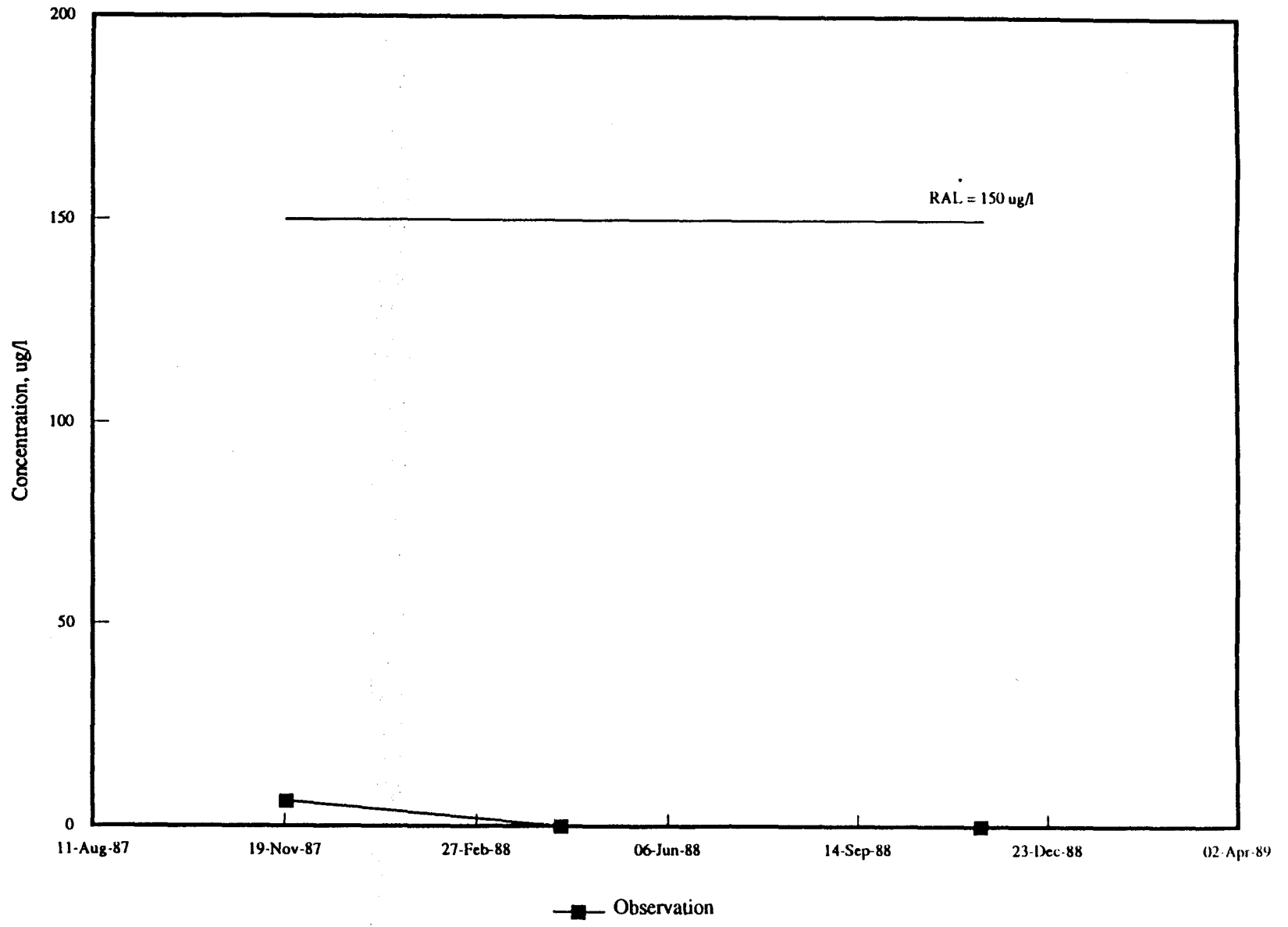
BARIUM - WELL 03U521



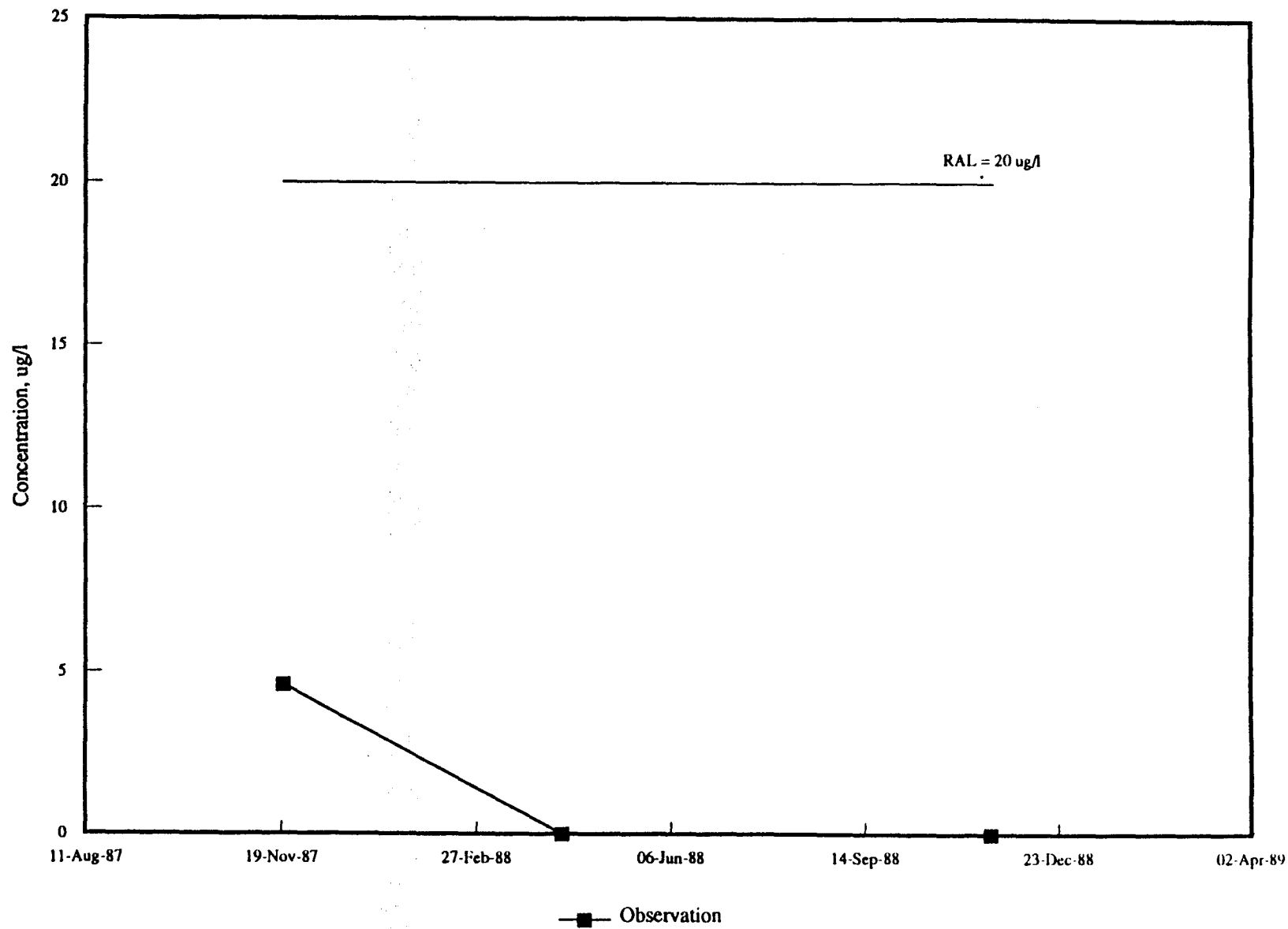
CHROMIUM - WELL 03U521



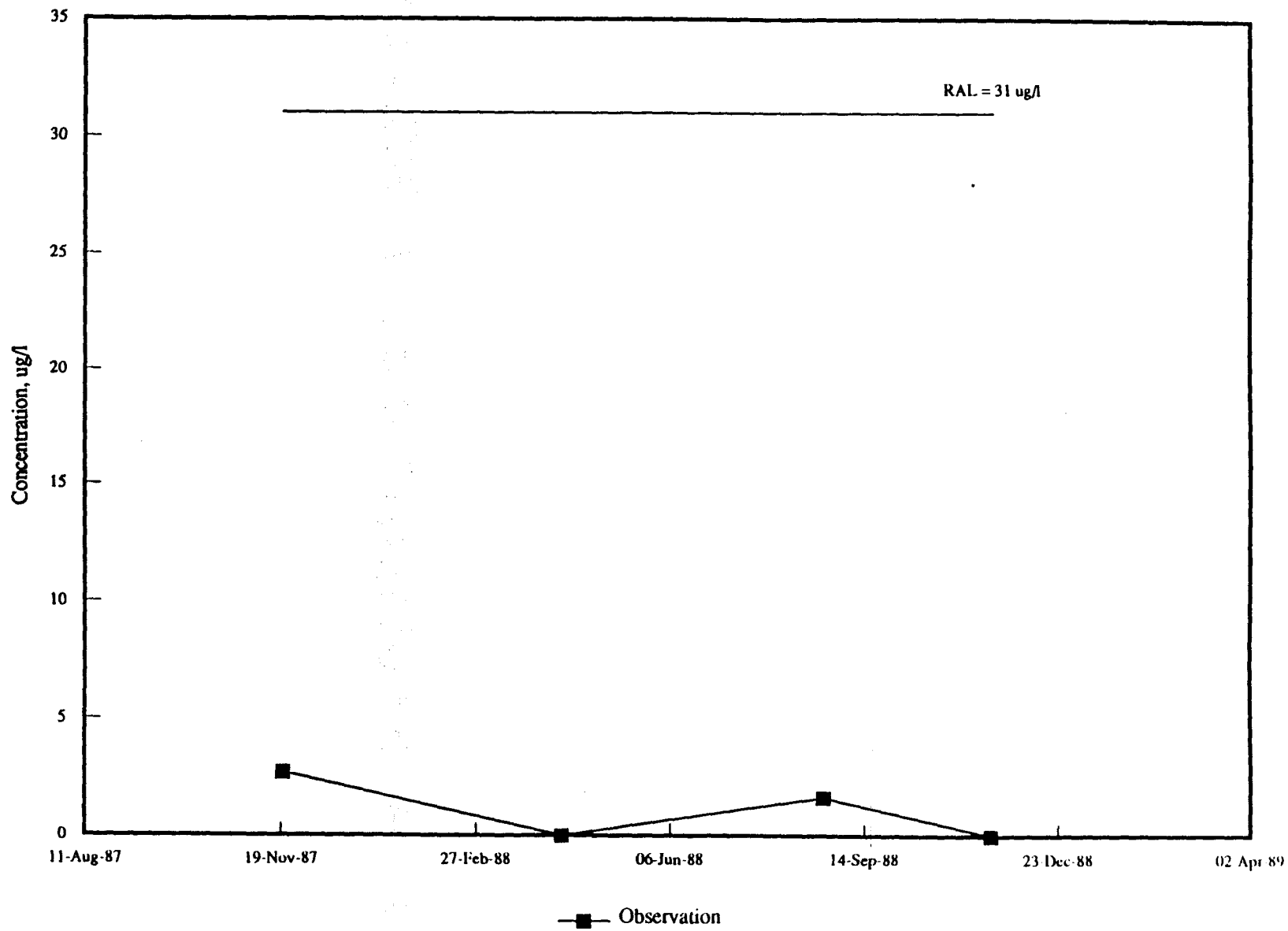
NICKEL - WELL 03U521



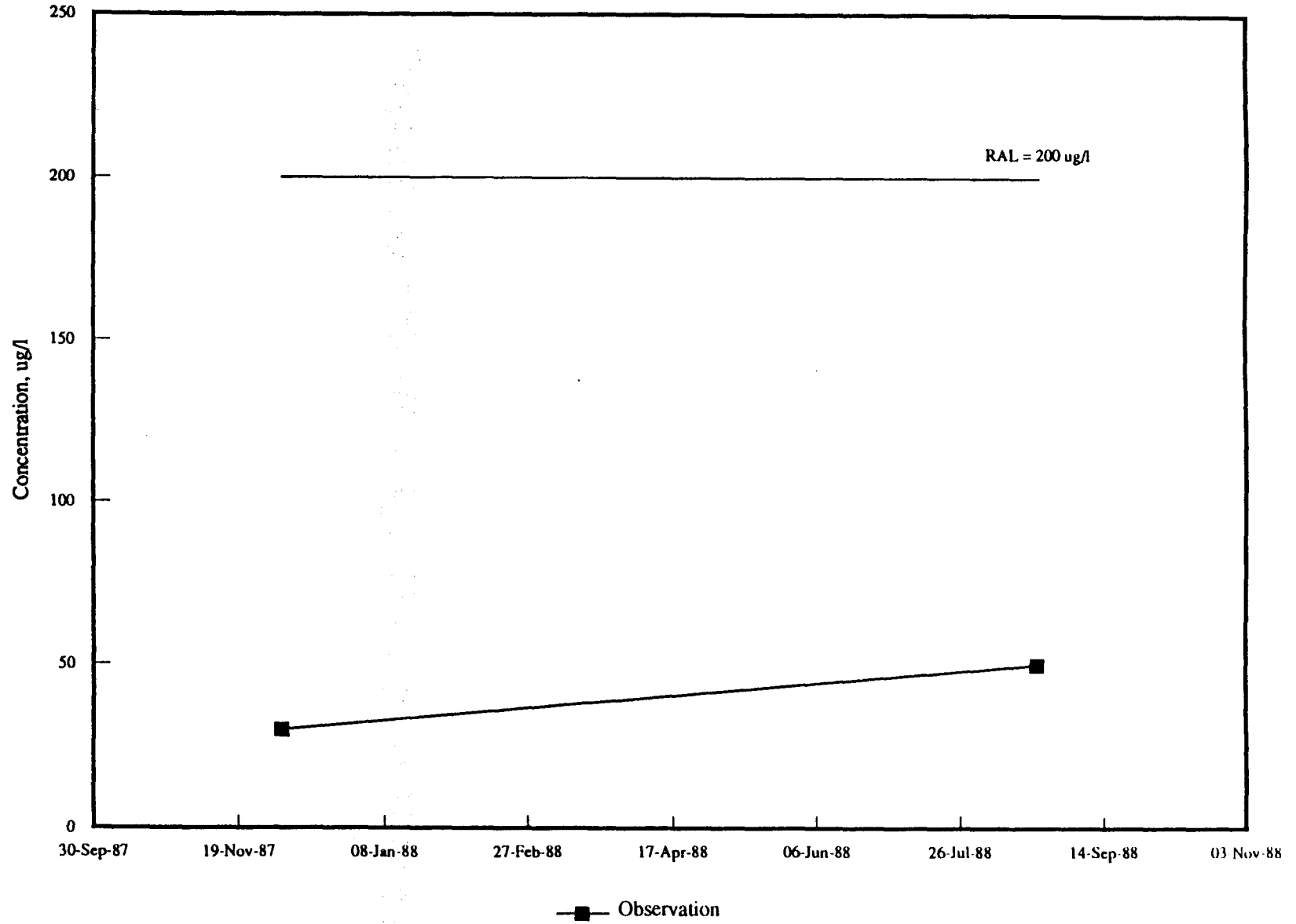
LEAD - WELL 03U521



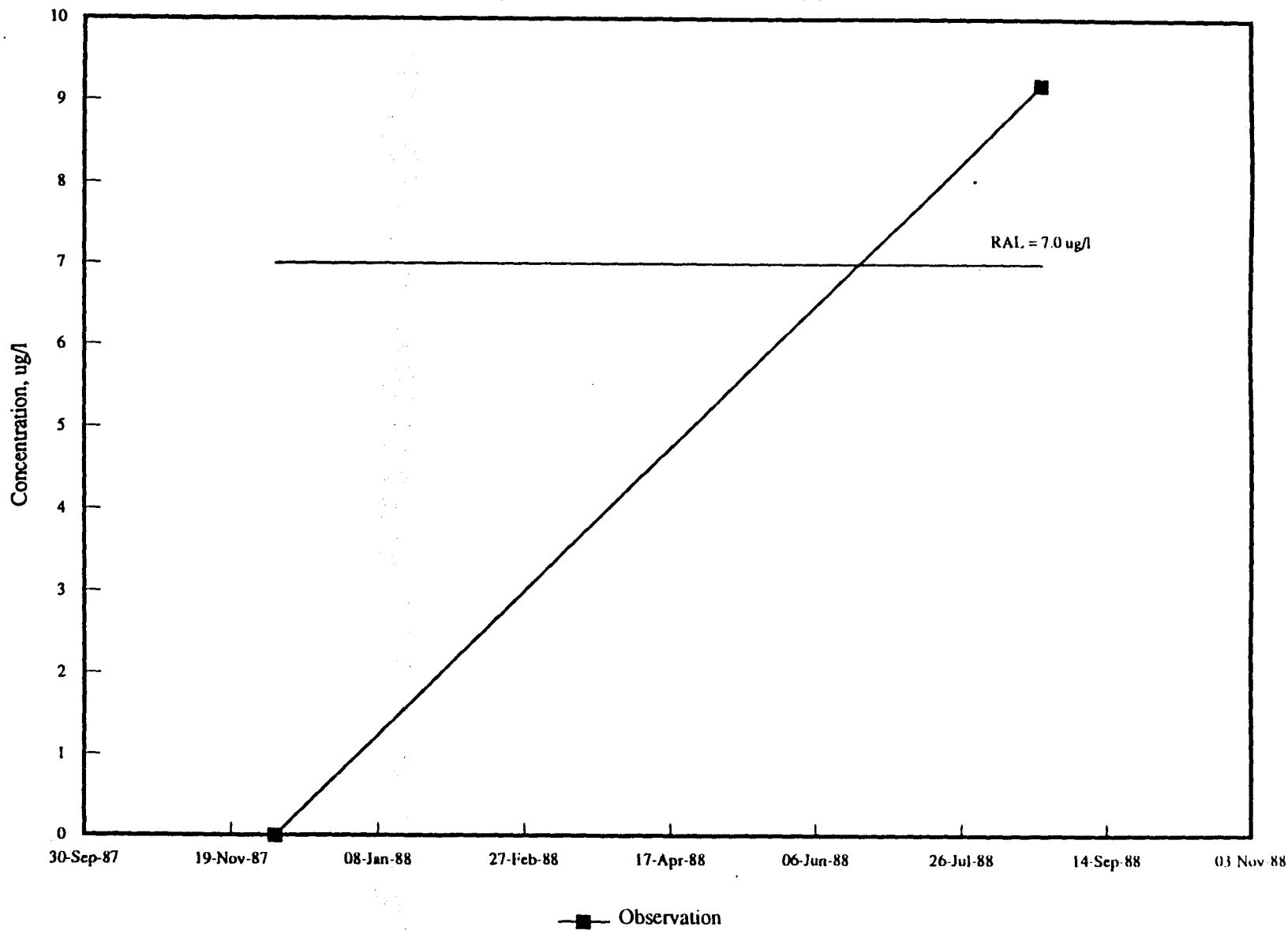
TRICHLOROETHENE - WELL 03U521



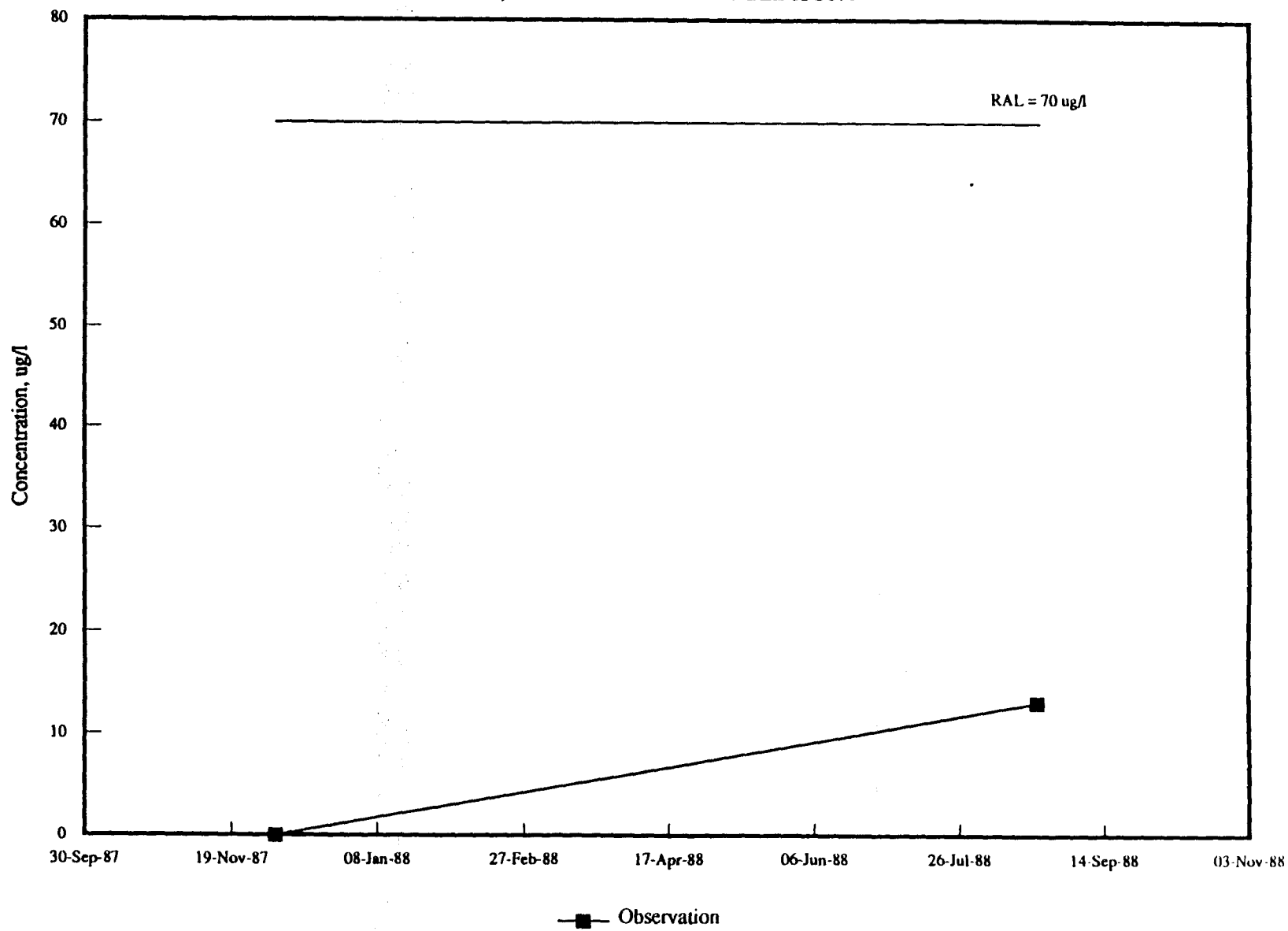
1,1,1-TRICHLOROETHANE - WELL 03U671



1,1-DICHLOROETHENE - WELL 03U671

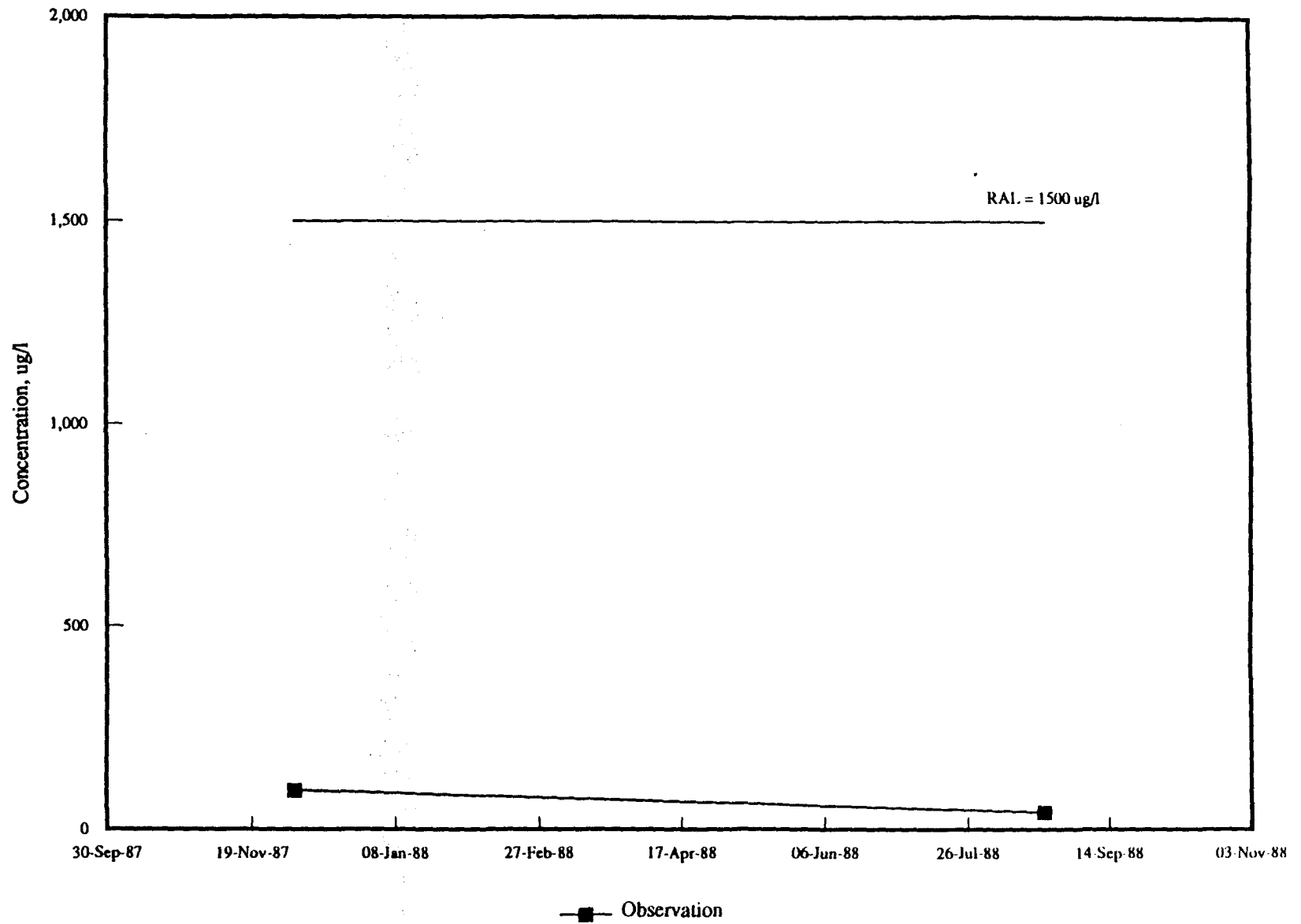


1,2-DICHLOROETHENE - WELL 03U671

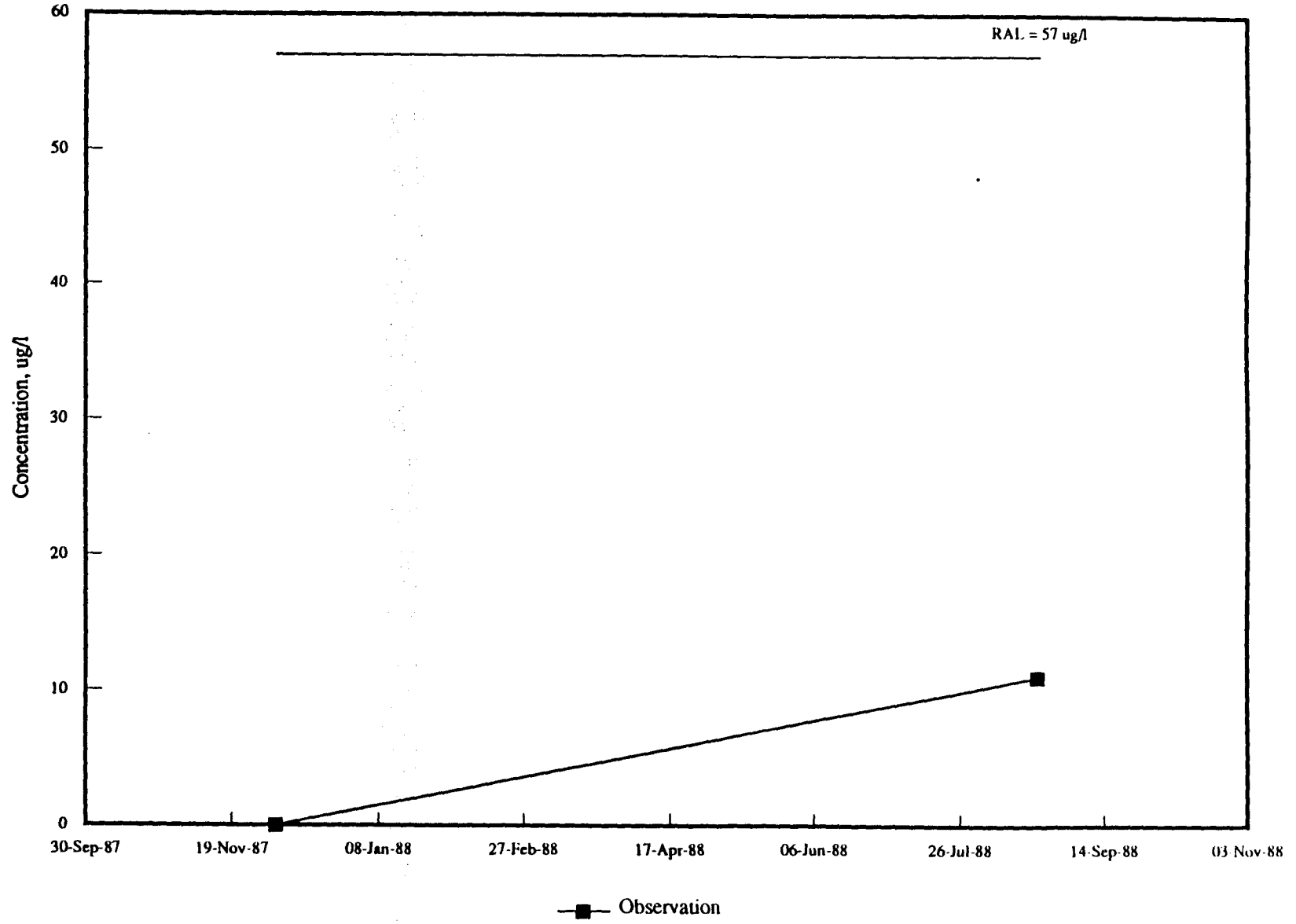




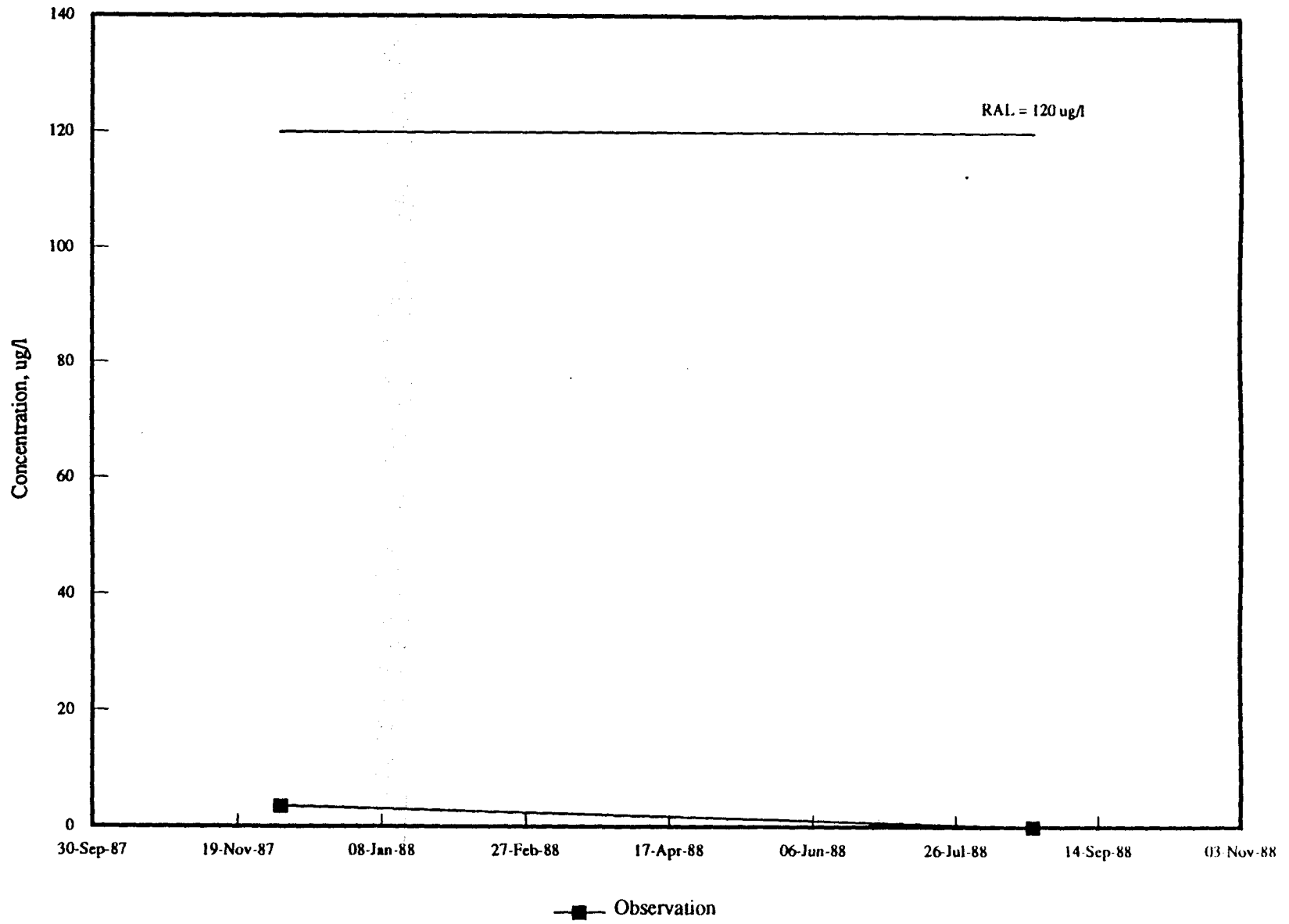
BARIUM - WELL 03U671



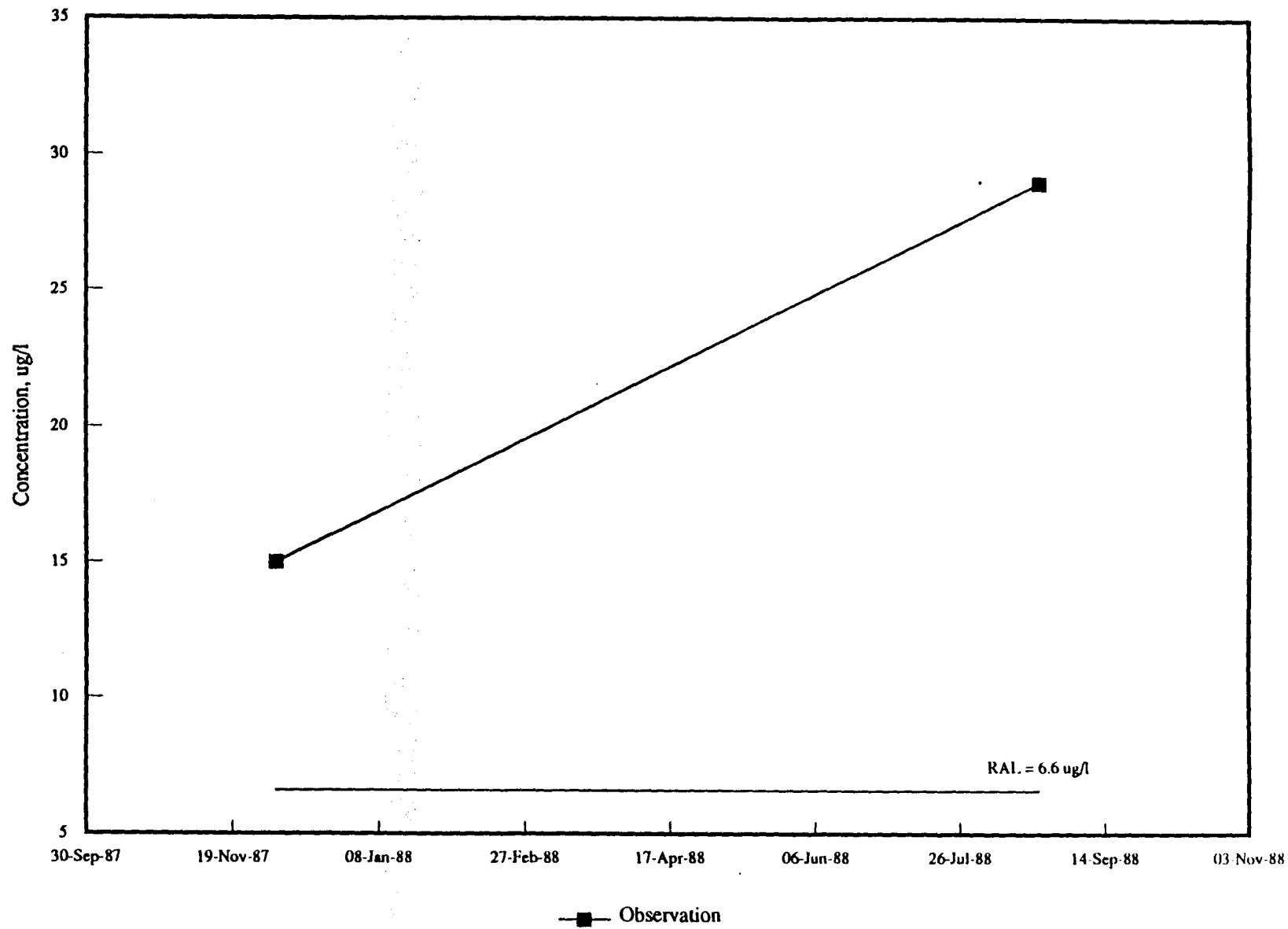
CHLOROFORM - WELL 03U671



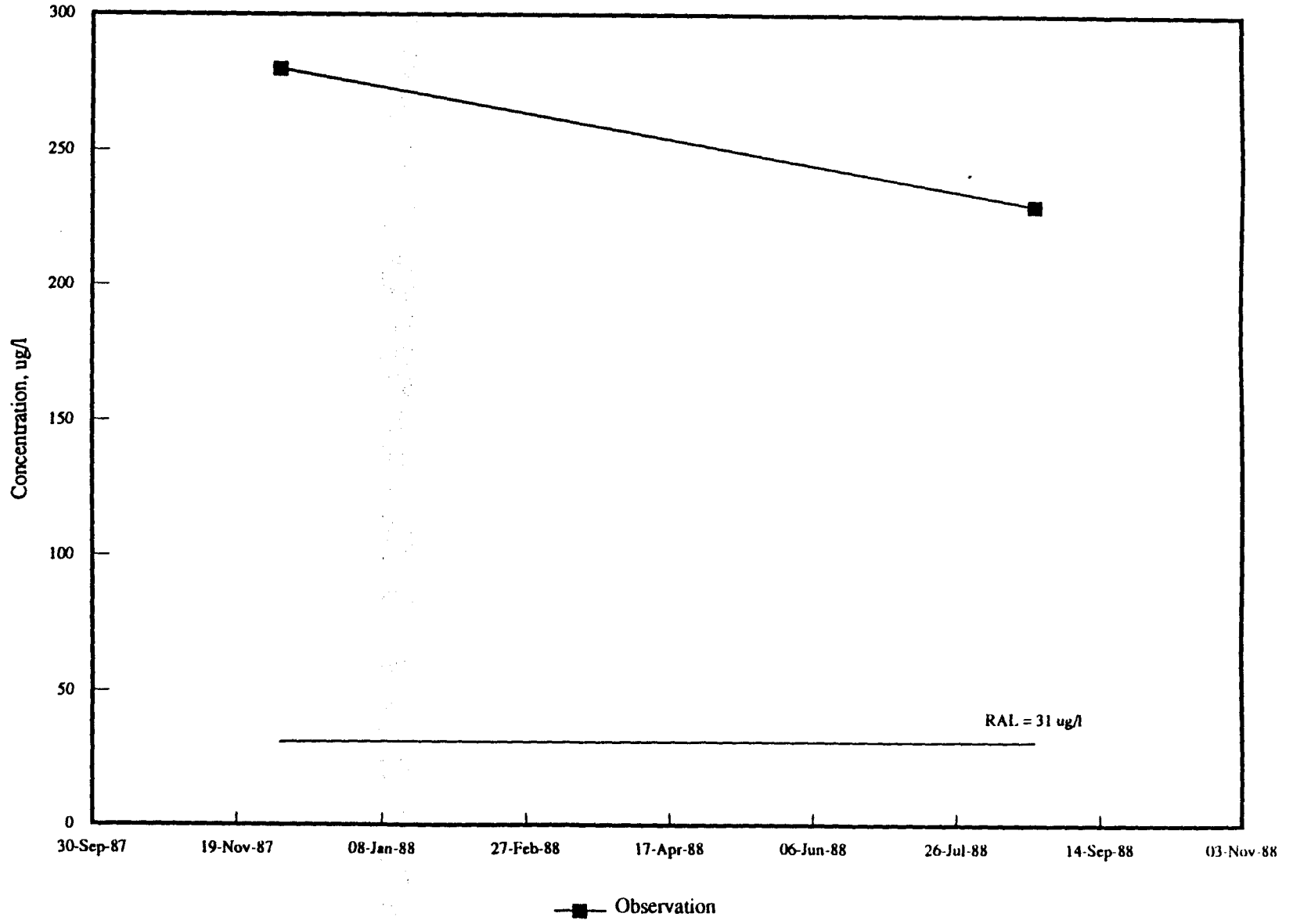
CHROMIUM - WELL 03U671



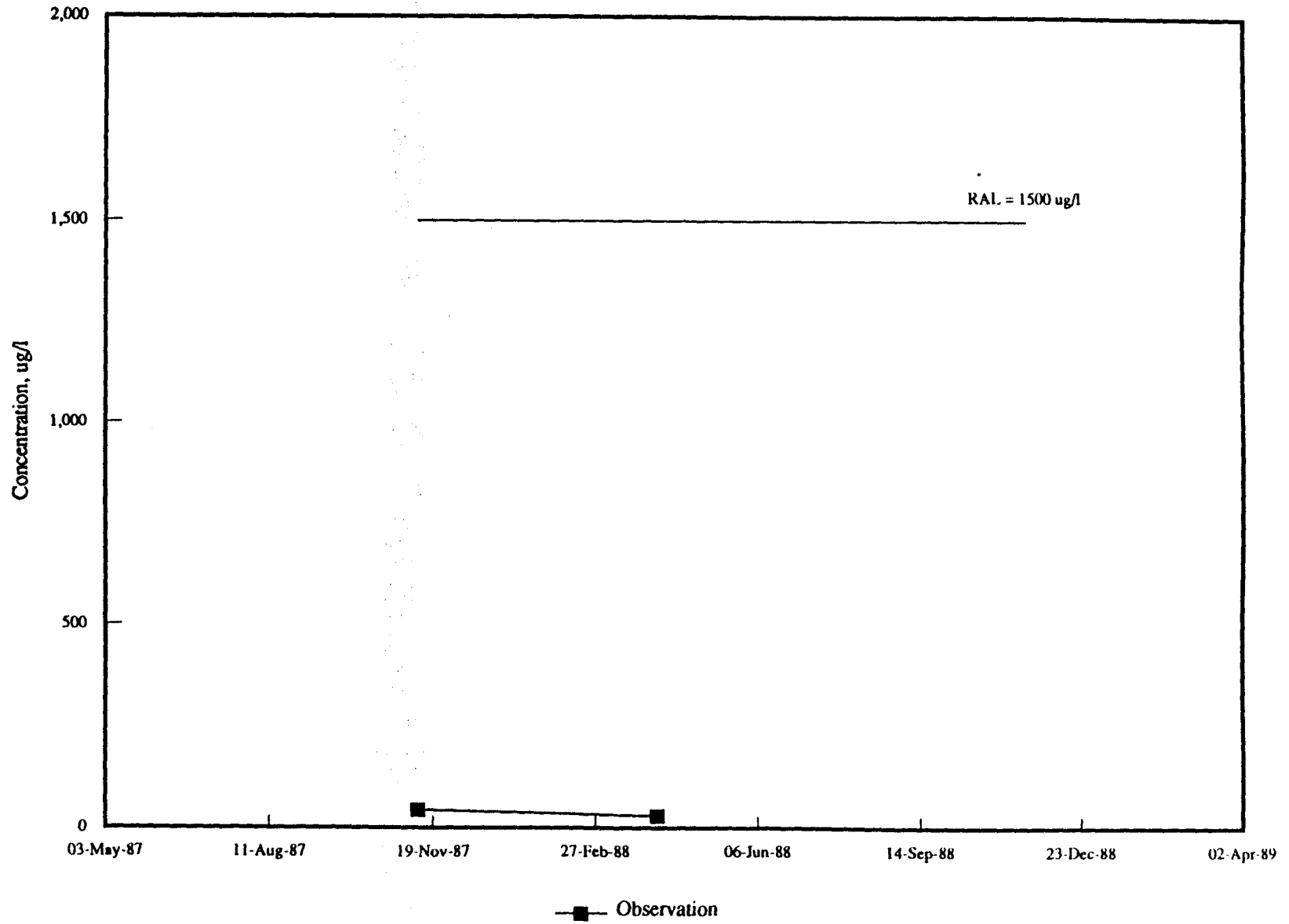
TETRACHLOROETHENE - WELL 03U671



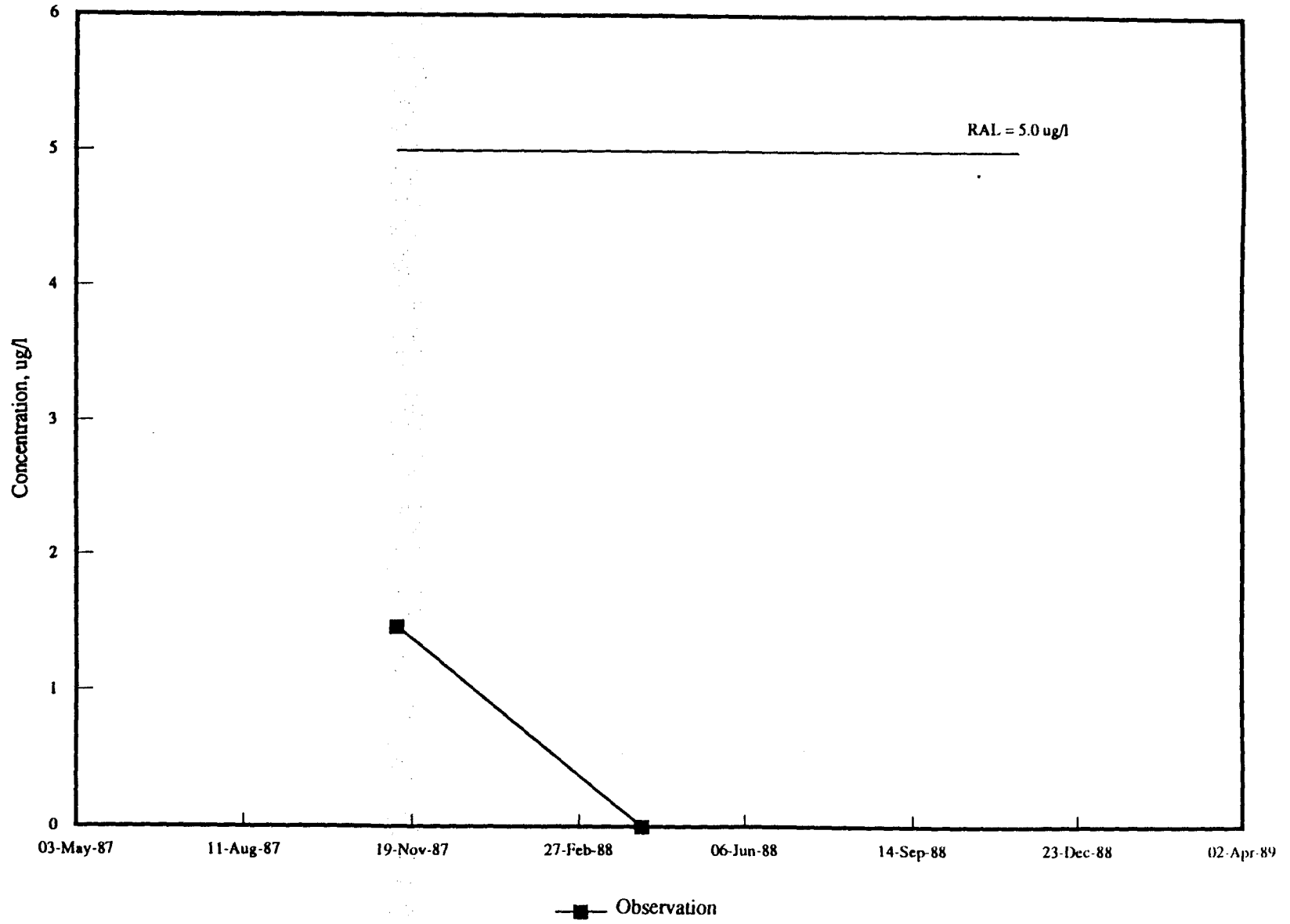
TRICHLOROETHENE - WELL 03U671



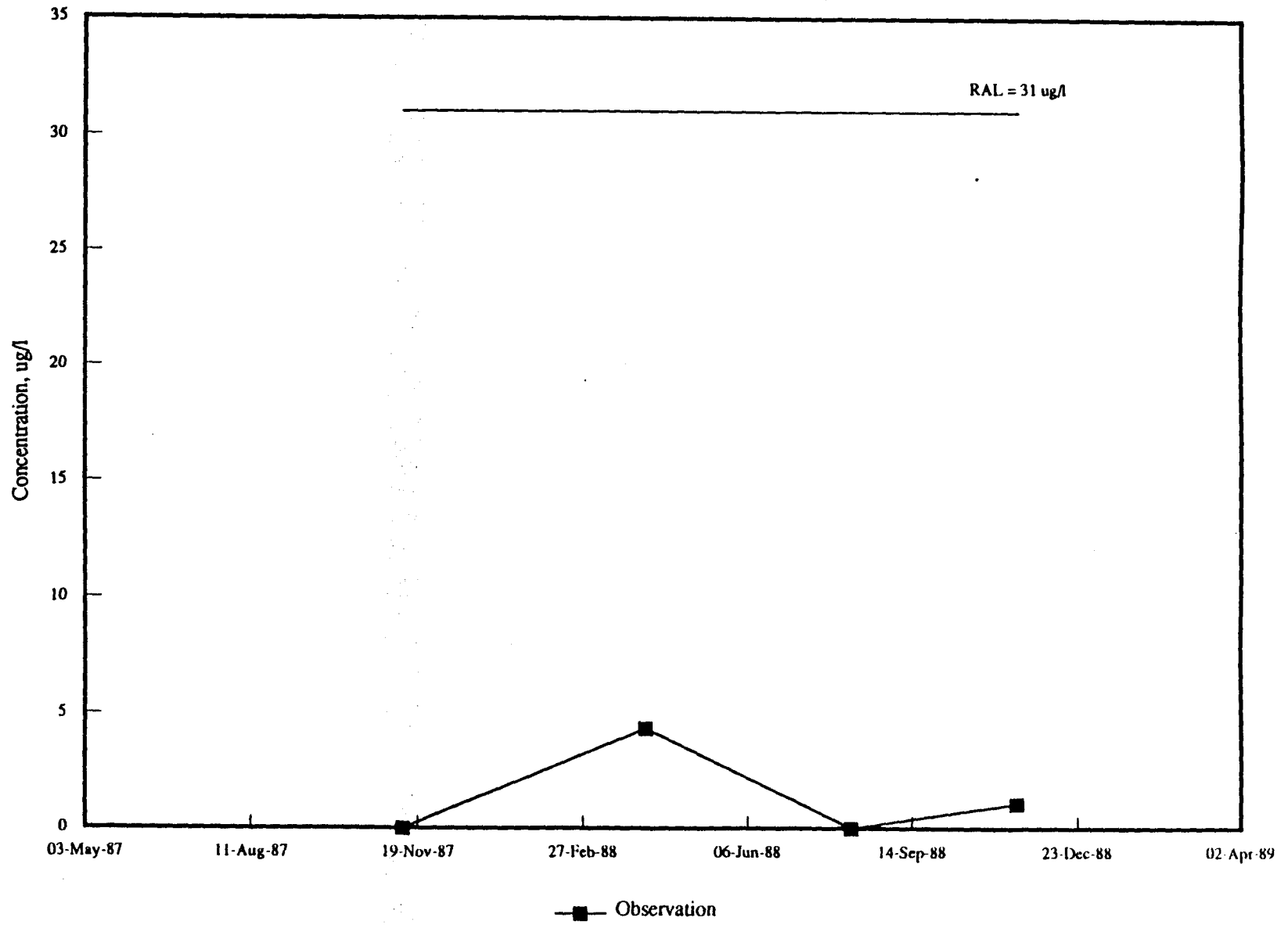
BARIUM - WELL 03U704



CADMIUM - WELL 03U704



TRICHLOROETHENE - WELL 03U704

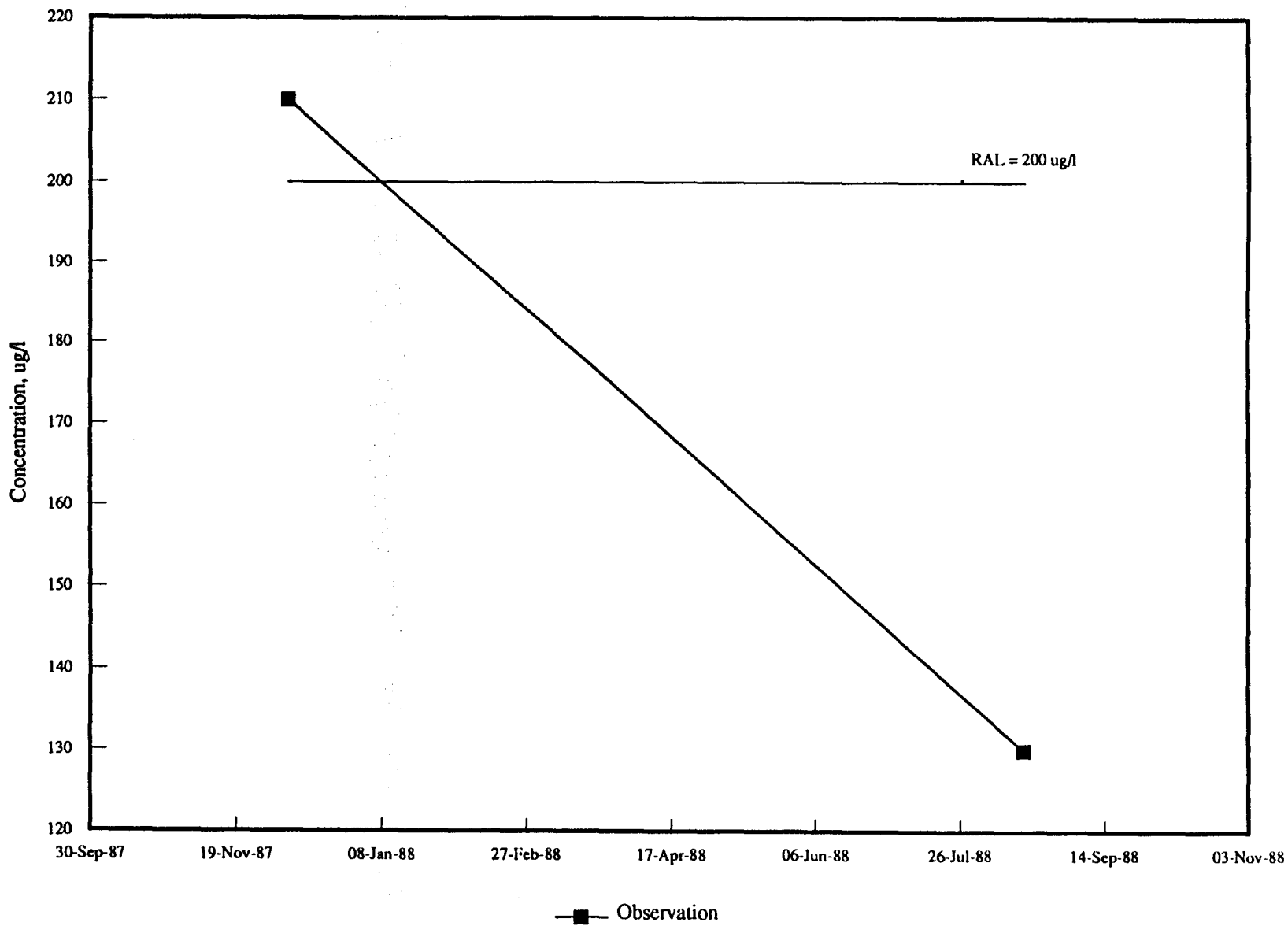




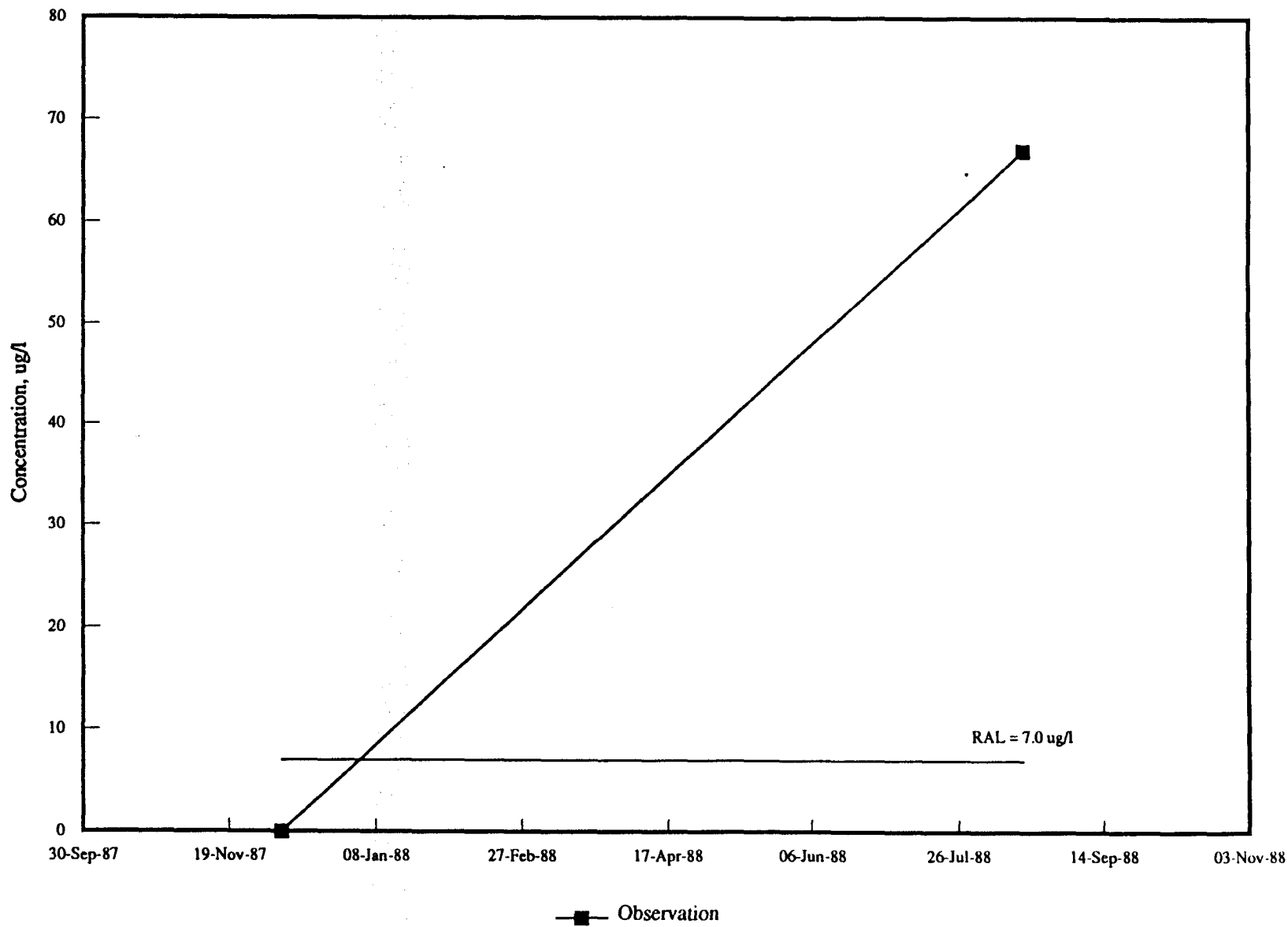
**APPENDIX I**

**UNIT 4**

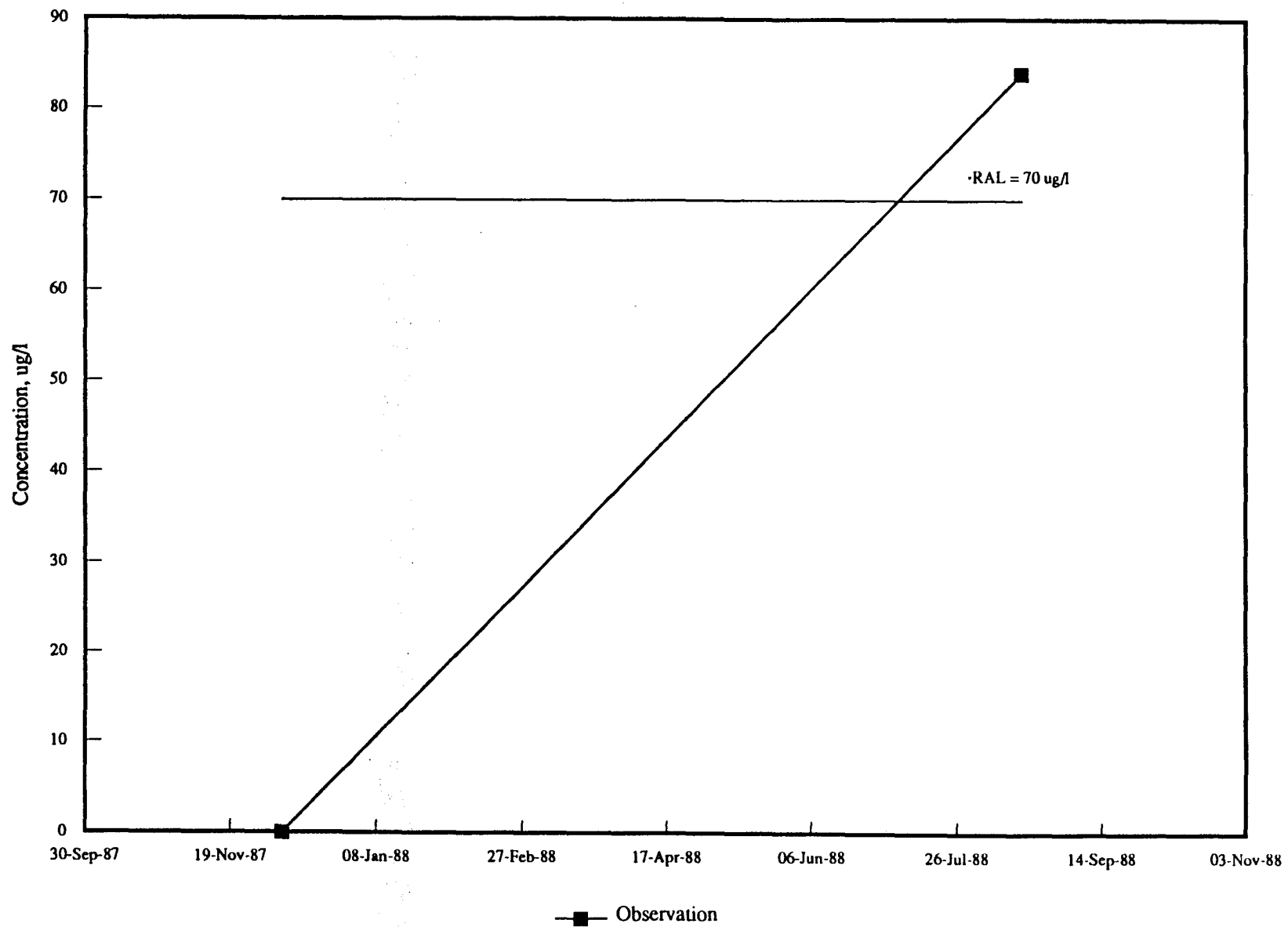
1,1,1-TRICHLOROETHANE - WELL 04U020



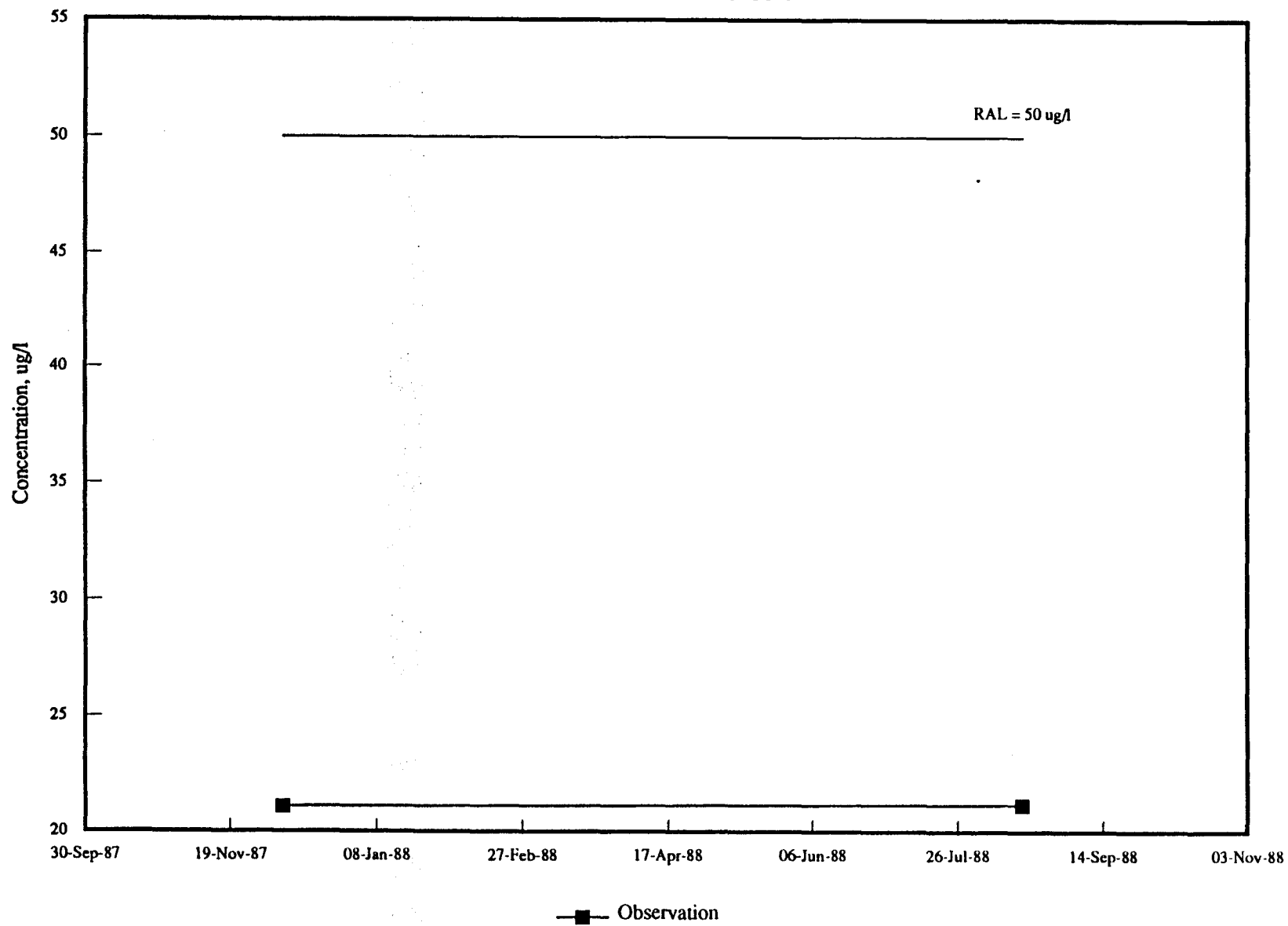
1,1-DICHLOROETHENE - WELL 04U020



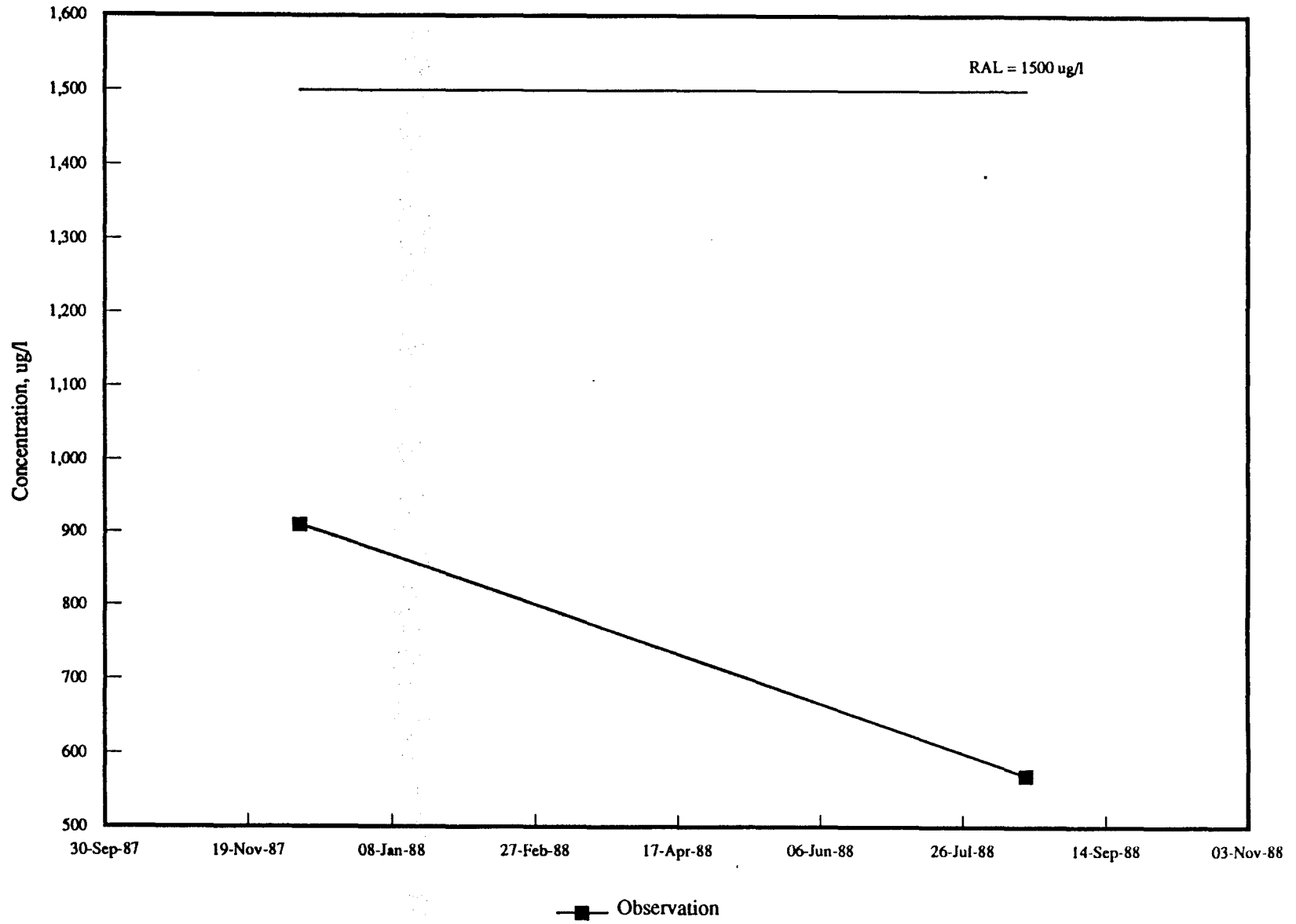
1,2-DICHLOROETHENE - WELL 04U020



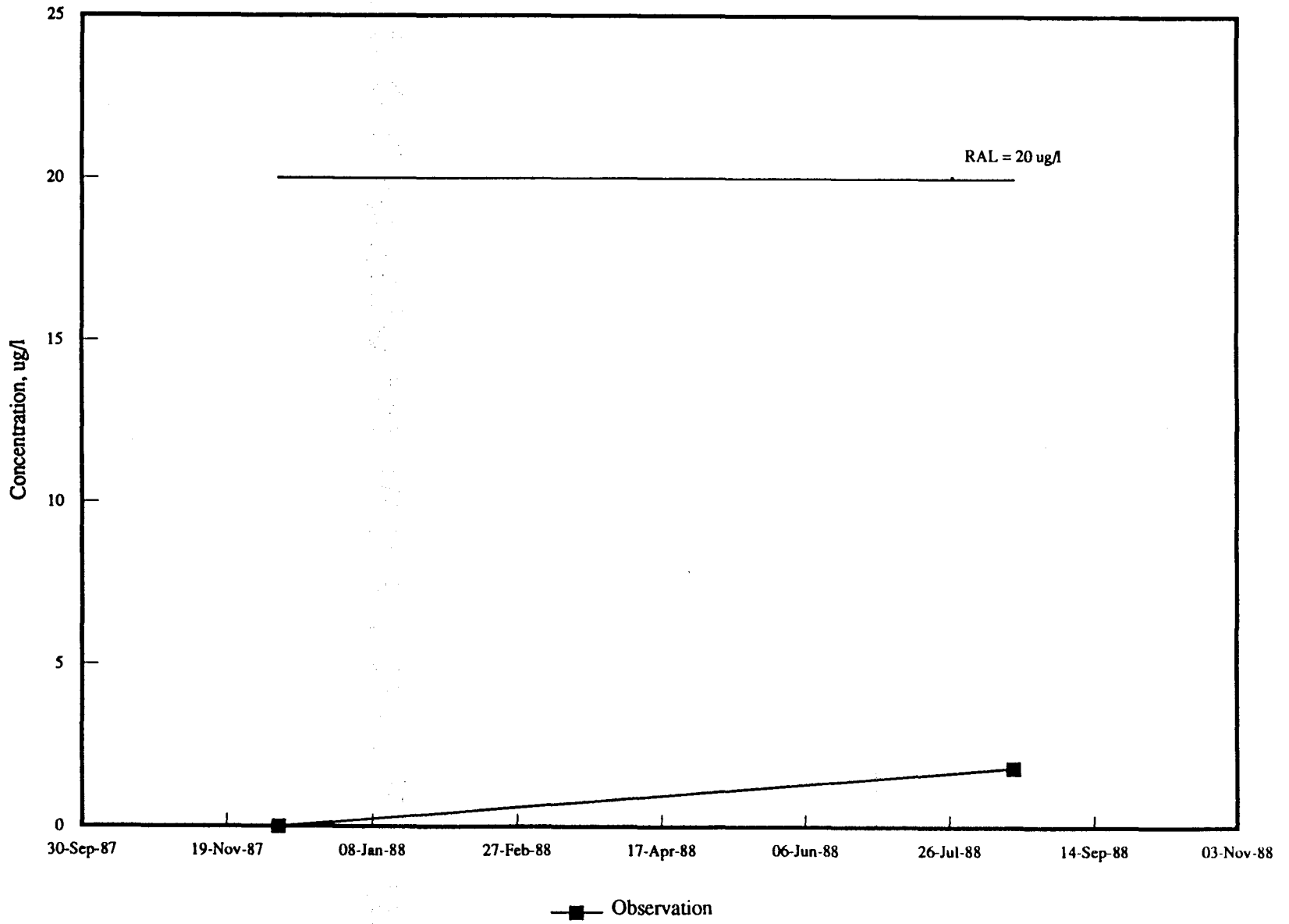
ARSENIC - WELL 04U020



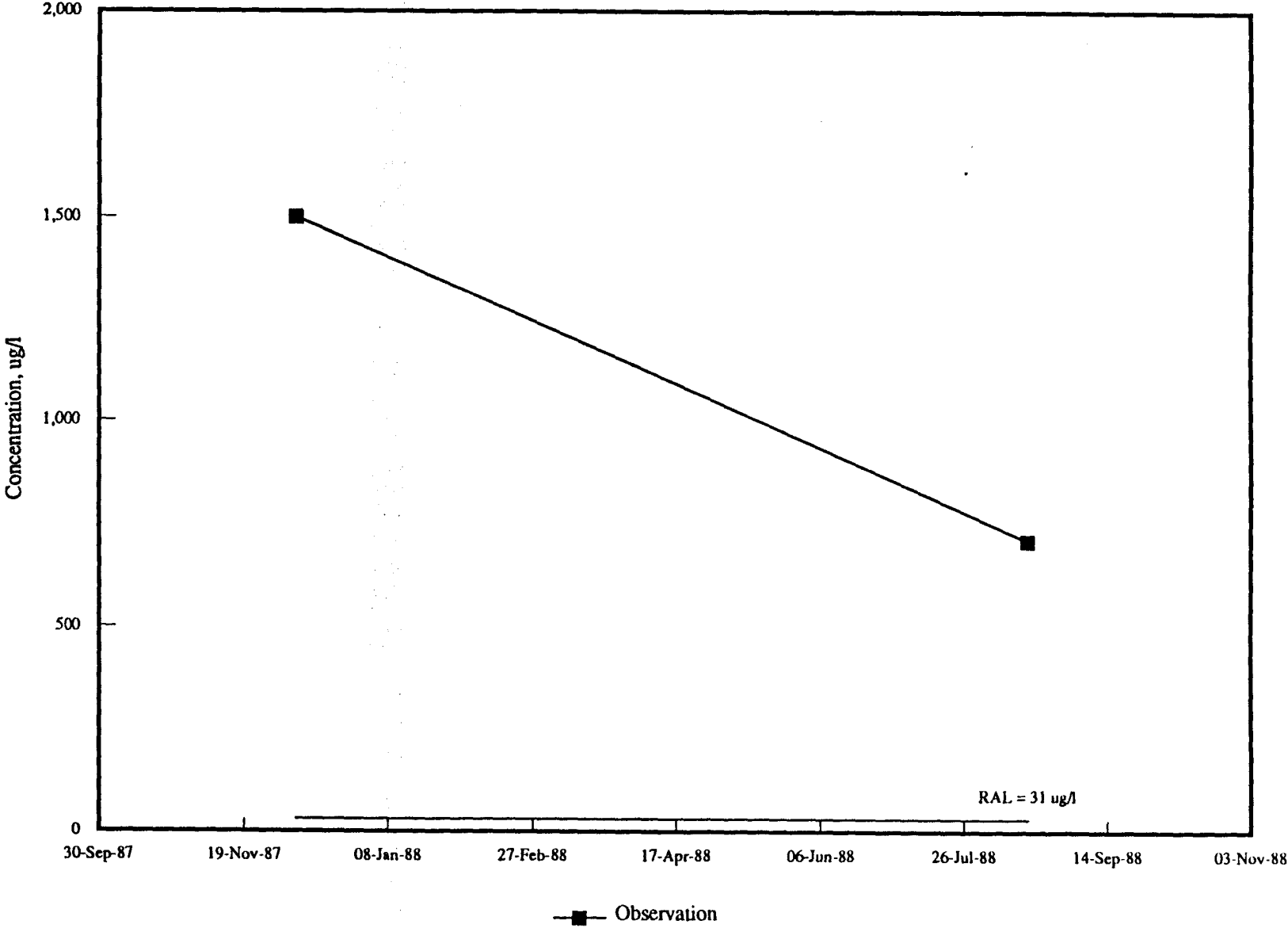
BARIUM - WELL 04U020



LEAD - WELL 04U020

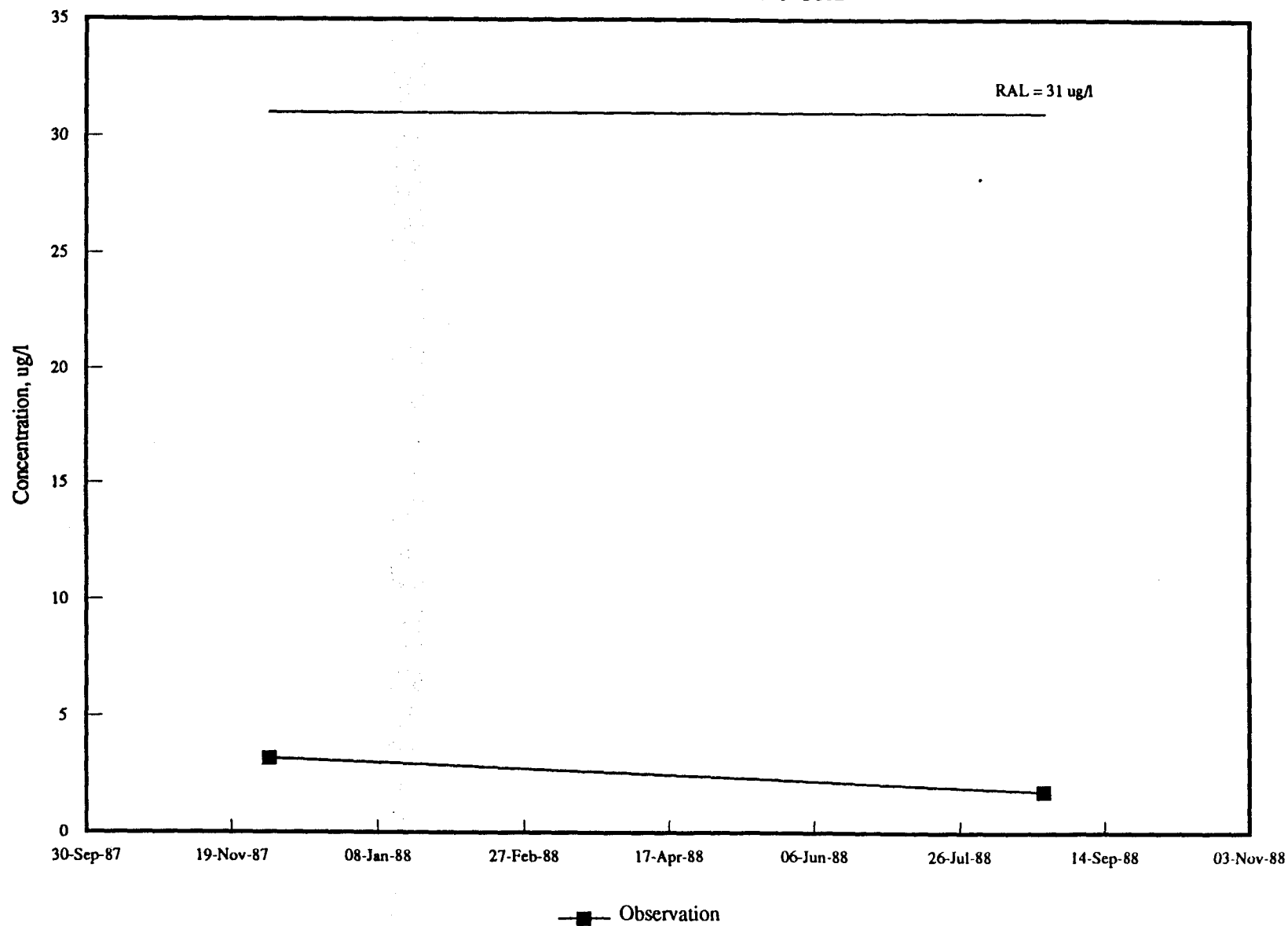


TRICHLOROETHENE - WELL 04U020

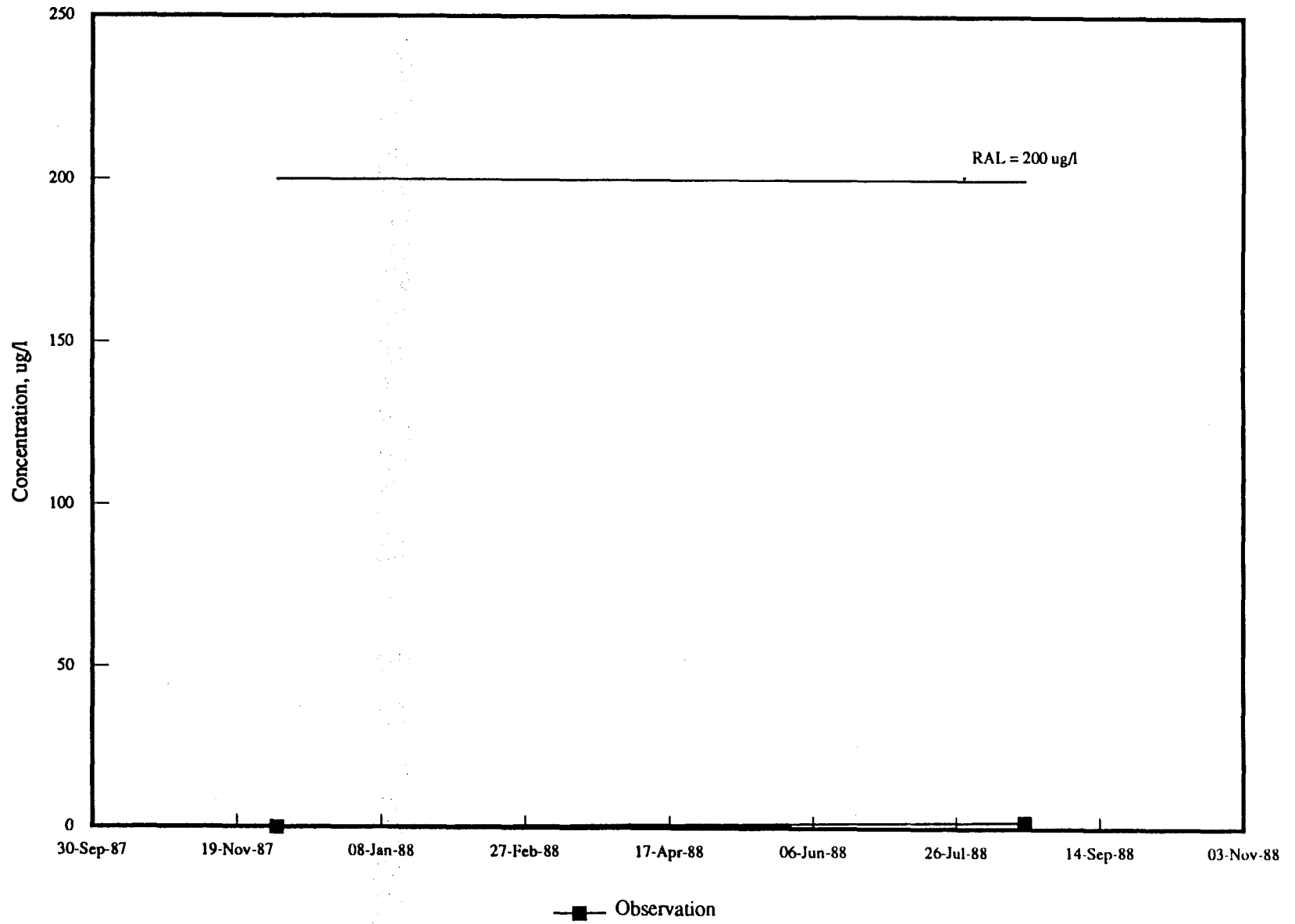




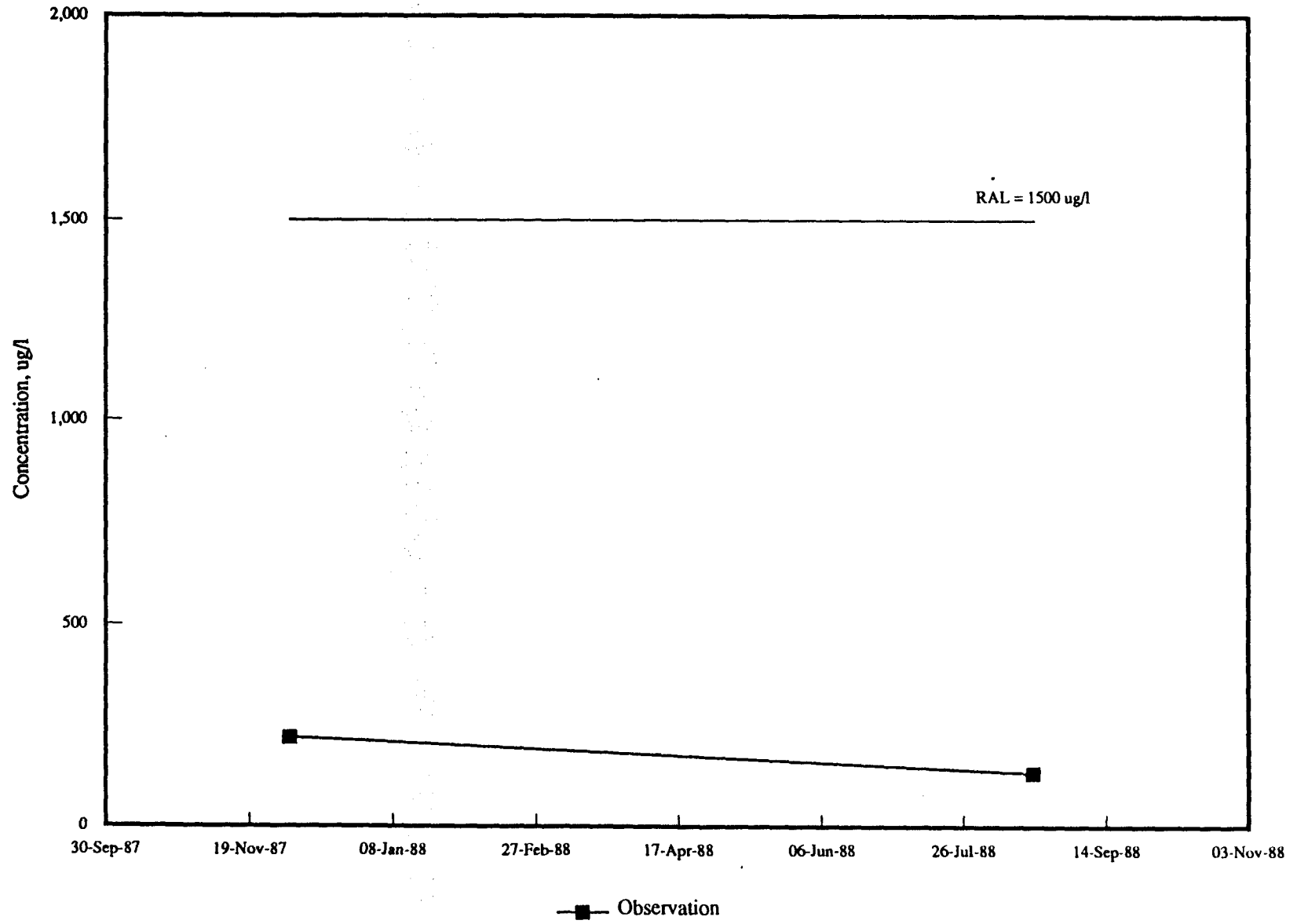
TRICHLOROETHENE - WELL 04U802



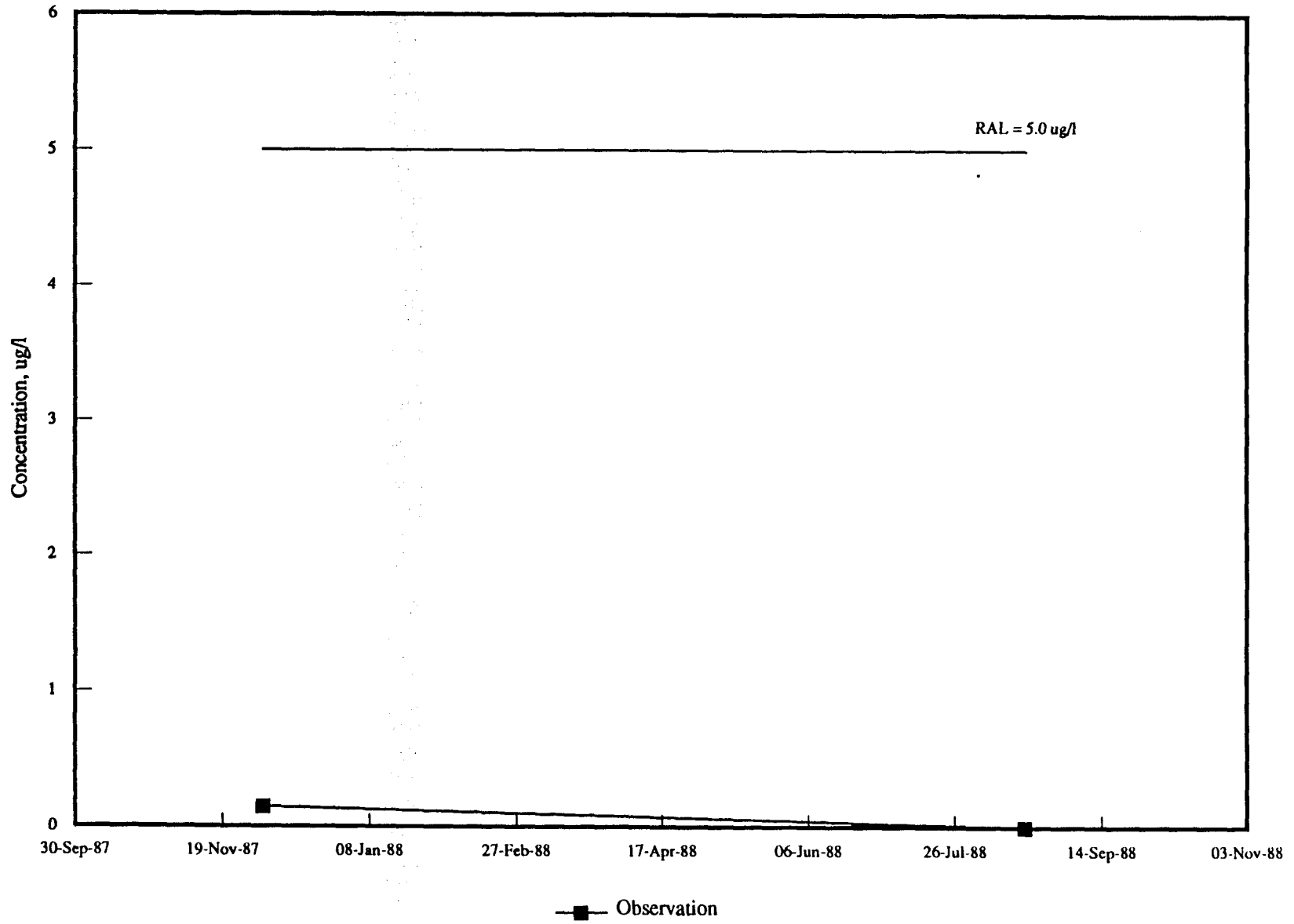
1,1,1-TRICHLOROETHANE - WELL PJ#074



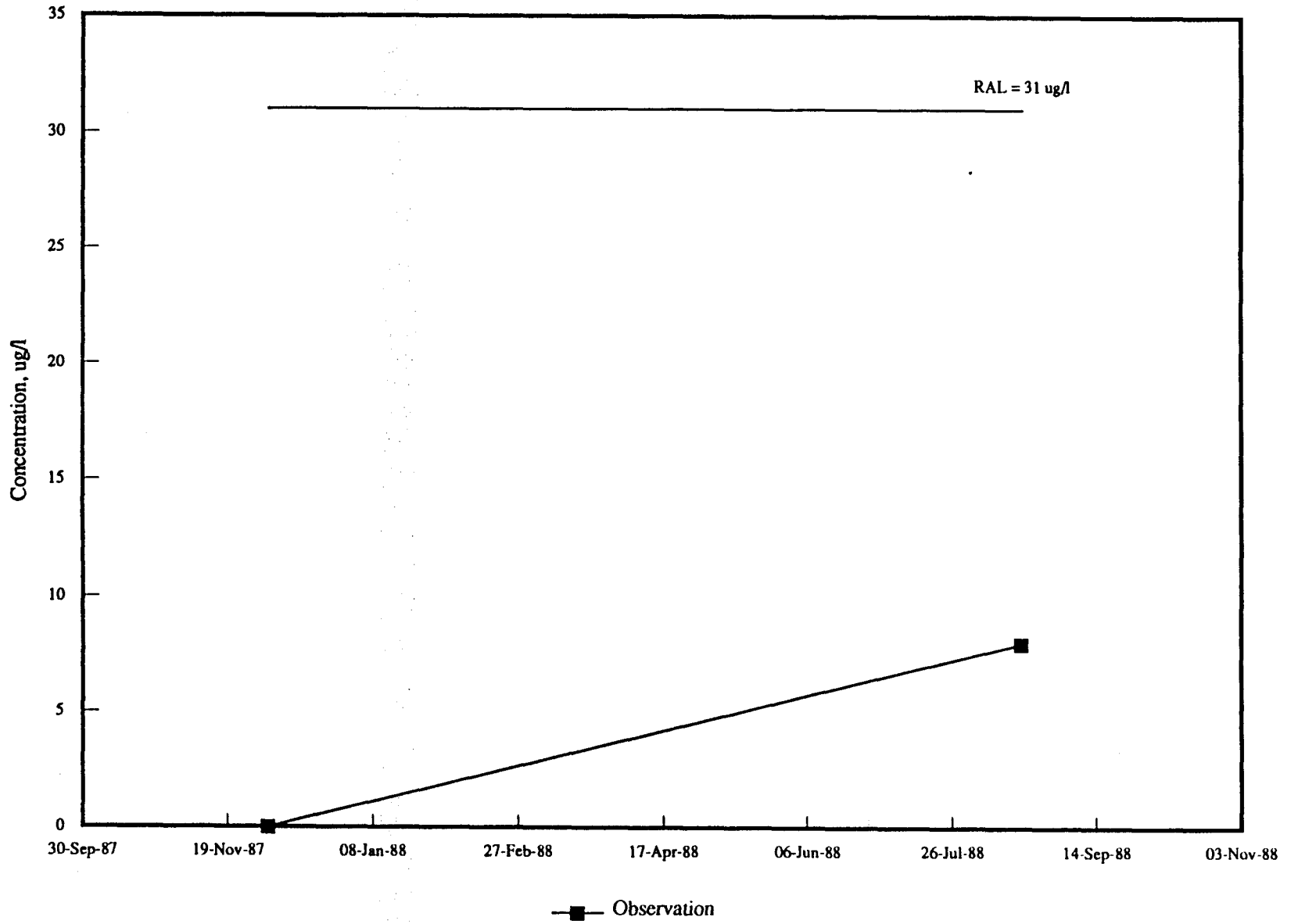
BARIUM - WELL PJ#074



CADMIUM - WELL PJ#074



TRICHLOROETHENE - WELL PJ#074



**APPENDIX J**

**NPDES SURFACE WATER SAMPLING  
NUMBER/LETTER CROSS REFERENCE LIST**

APPENDIX J

NPDES SURFACE WATER SAMPLE  
NUMBER/LETTER CROSS REFERENCE LIST

<u>Surface Water Sample Point Letter Designation</u>	<u>Surface Water Sample Point Number Designation</u>
A	20500
B	20700
C	20200
D	20300
E	20400
F	20800
G	20100
H	20900
I	21000
J	21100
K	21200
L	21300
M	21400
N	21500