

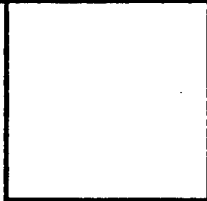
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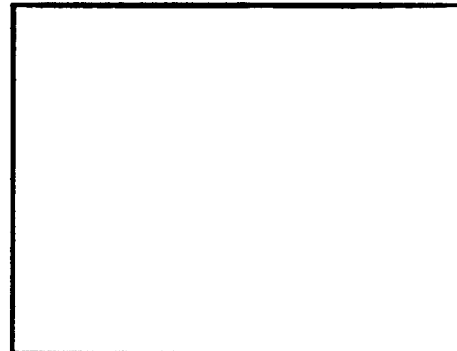
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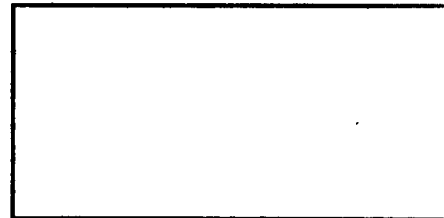
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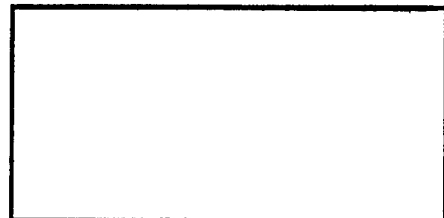
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AFRL-ML-TY-TR-1999-4507, VOL II



**DEMONSTRATION OF BIOVENTING FOR
REMEDICATION OF CHLORINATED SOLVENT
CONTAMINATION AT HILL AIR FORCE BASE
OGDEN, UTAH**

DATA PACKAGE

VOLUME II

**BRUCE C. ALLEMAN
JAMES T. GIBBS**

**BATTELLE
ENVIRONMENTAL RESTORATION DEPARTMENT
505 KING AVENUE
COLUMBUS OH 43201-2693**

25 JANUARY 1999

FINAL REPORT: 1 JUNE 1995 - 31 JANUARY 1999

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TYNDALL AFB FL 32403-5323**

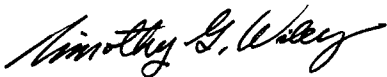
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1. AGENCY USE ONLY (Leave blank)	2. REPORT DATE 25 January 1999	3. REPORT TYPE AND DATES COVERED Final Report: 1 June 1995 to 31 Jan 1999	
4. TITLE AND SUBTITLE Demonstration of Bioventing for Remediation of Chlorinated Solvent Contamination at Hill Air Force Base, Ogden, Utah. Volume II of II Technical Report for Task 4B: Bioventing Non-Petroleum Hydrocarbons		5. FUNDING NUMBERS Contract No. F08637-95-D-6004 Delivery Order 5400 63723F 2103W503	
6. AUTHOR(S) Bruce C. Alleman and James T. Gibbs			
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Battelle Environmental Restoration Department 505 King Avenue Columbus, OH 43201-2693		8. PERFORMING ORGANIZATION REPORT NUMBER	
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13. ABSTRACT (Maximum 200 words) This report describes the evaluation of the application of bioventing technology to non-petroleum hydrocarbon impacted soils. Bioventing has been thoroughly demonstrated to be a cost-effective remediation technology for a variety of petroleum hydrocarbons. This work included a laboratory column study and a field pilot-scale demonstration to evaluate the potential for applying bioventing to treat dichlorobenzenes in order to expand the list of contaminants impacting Air Force and other Department of Defense Installations beyond petroleum hydrocarbons. A pilot-scale bioventing system consisting of a single vent well and eight tri-level in situ soil gas monitoring points was installed at Hill Air Force Base, Utah. The system was designed to provide oxygen to an anoxic volume of soil and for monitoring the aeration effectiveness and conducting in situ respiration rates. Soil samples were collected at system installation and after approximately one year of system operation. Significant reductions in dichlorobenzene concentrations were observed over the one year demonstration, only a small portion of which could be accounted for by volatilization. In situ respiration tests indicated that significant biodegradation and supported the results observed in the field. The demonstration was supported by personnel in the Hill Air Force Base Environmental Management Office. This volume contains the data and supporting analysis for the project.			
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CONTENTS

Graphic Representations of Concentrations of Selected Compounds of Concern Before and After Bioventing for 1 Year	1
Cross Sections	2
Plan View Slices.....	11
Oxygen Utilization Plots Monitored by Manual Method During Respiration Testing	27
July 1997	28
October 1997	53
January 1998.....	75
April 1998.....	100
August 1998	125
Plots of Respiration Gases (Oxygen and Carbon Dioxide) Monitored by OEMS During Bioventing: July 1997 to July 1998.....	150
Plots of Periodic Soil-Gas Monitoring Results for 1,2-DCB, 1,3-DCB, 1,4-DCB, and TPH During Bioventing: July 1997 to July 1998.....	175
Respiration Test Data and Linear Regression Results.....	224
July 1997	225
October 1997	269
January 1998.....	312
April 1998.....	346
August 1998	383

GRAPHIC REPRESENTATIONS
OF
CONCENTRATIONS OF SELECTED COMPOUNDS OF CONCERN
BEFORE AND AFTER BIOVENTING FOR 1 YEAR

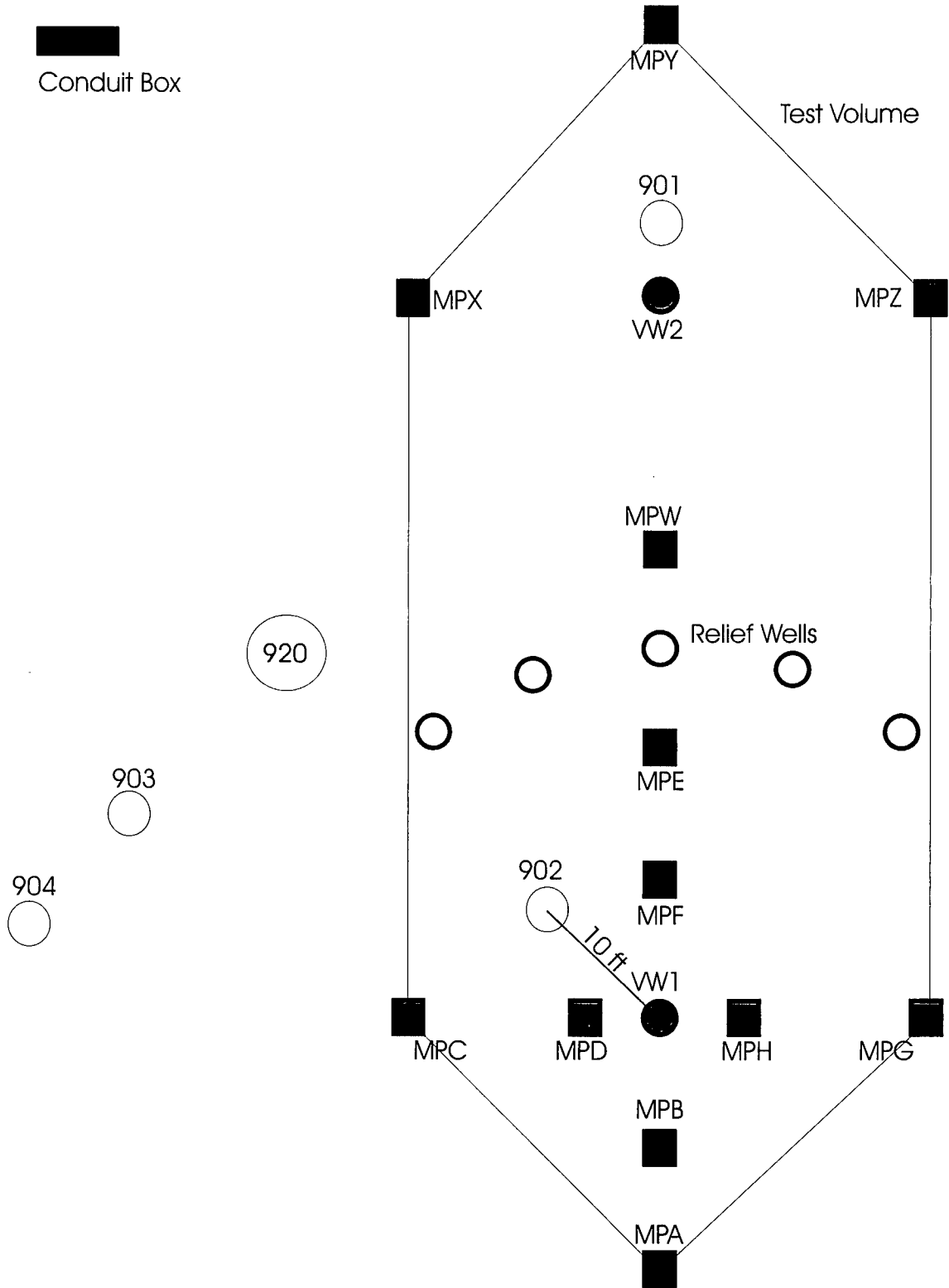
CROSS SECTIONS
PLAN VIEW SLICES

GRAPHIC REPRESENTATIONS
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BEFORE AND AFTER BIOVENTING FOR 1 YEAR

CROSS SECTIONS

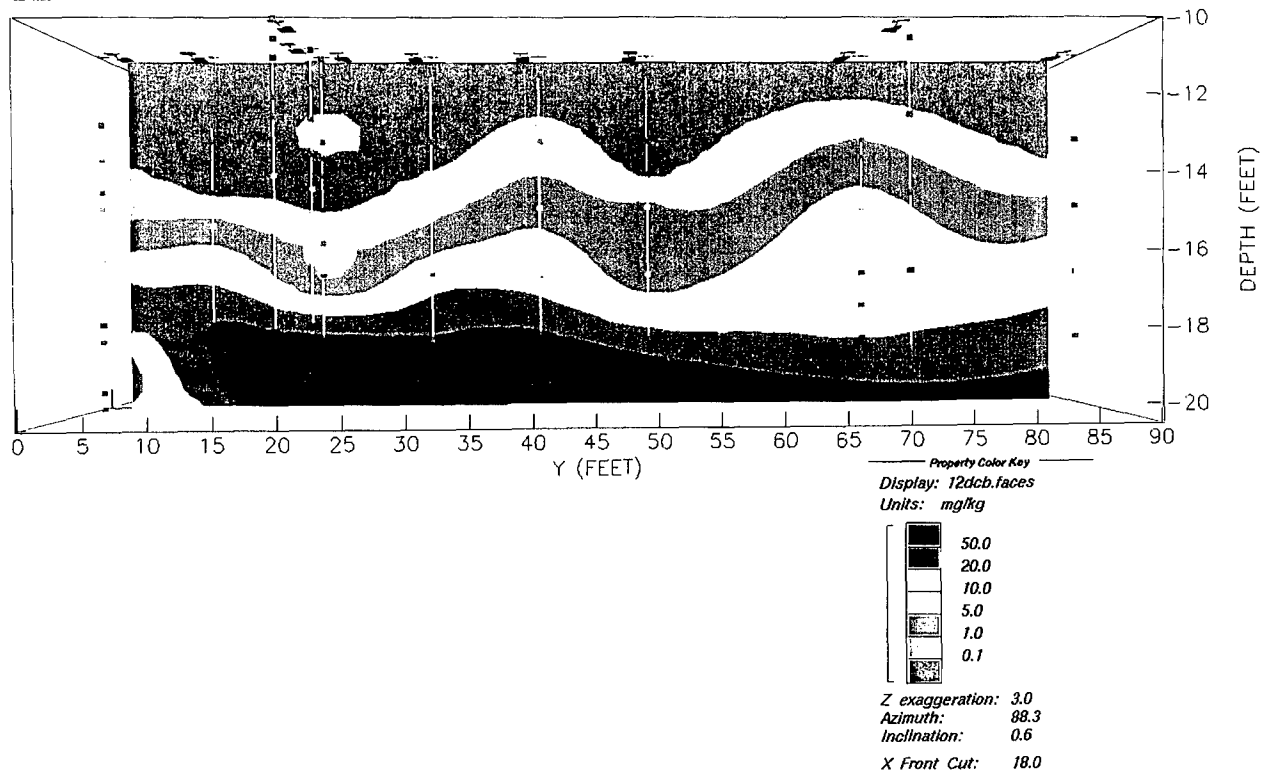
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■ Conduit Box

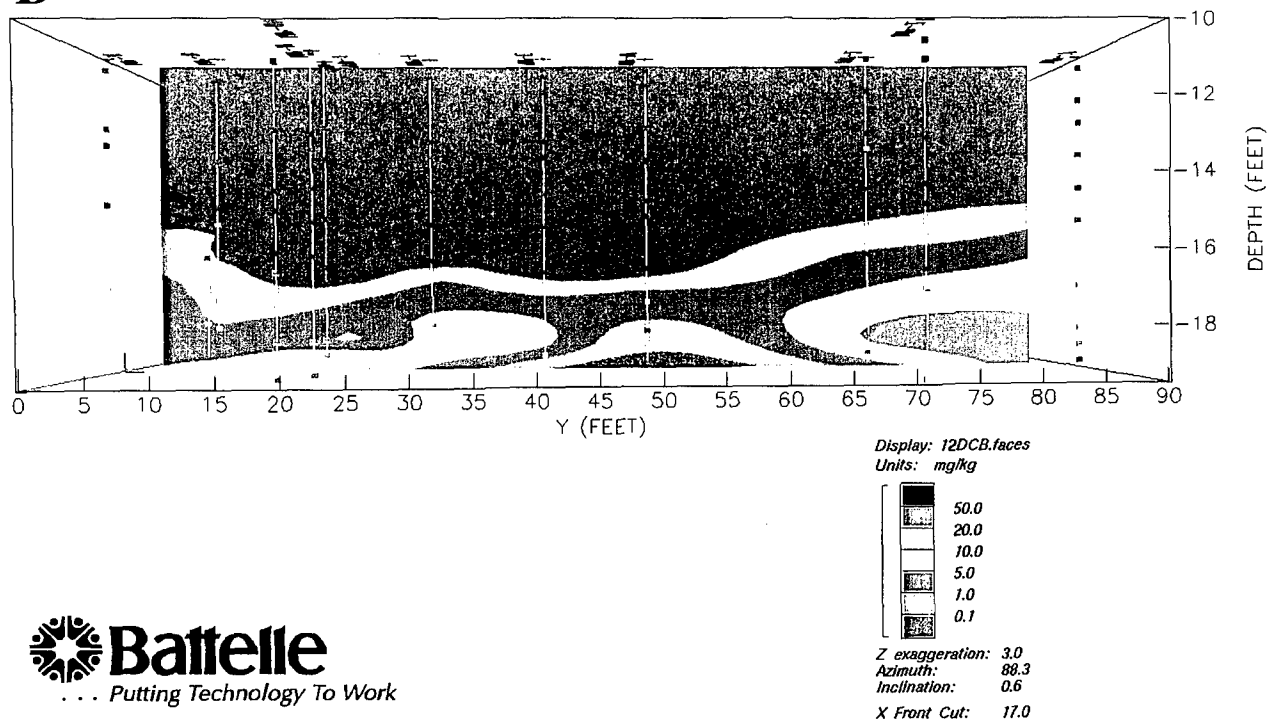


Cross Sectional View Slices through 3D Block Diagrams of 1,2-DCB along Wells MP-A - MP-Y A) July '97, B) July '98

A

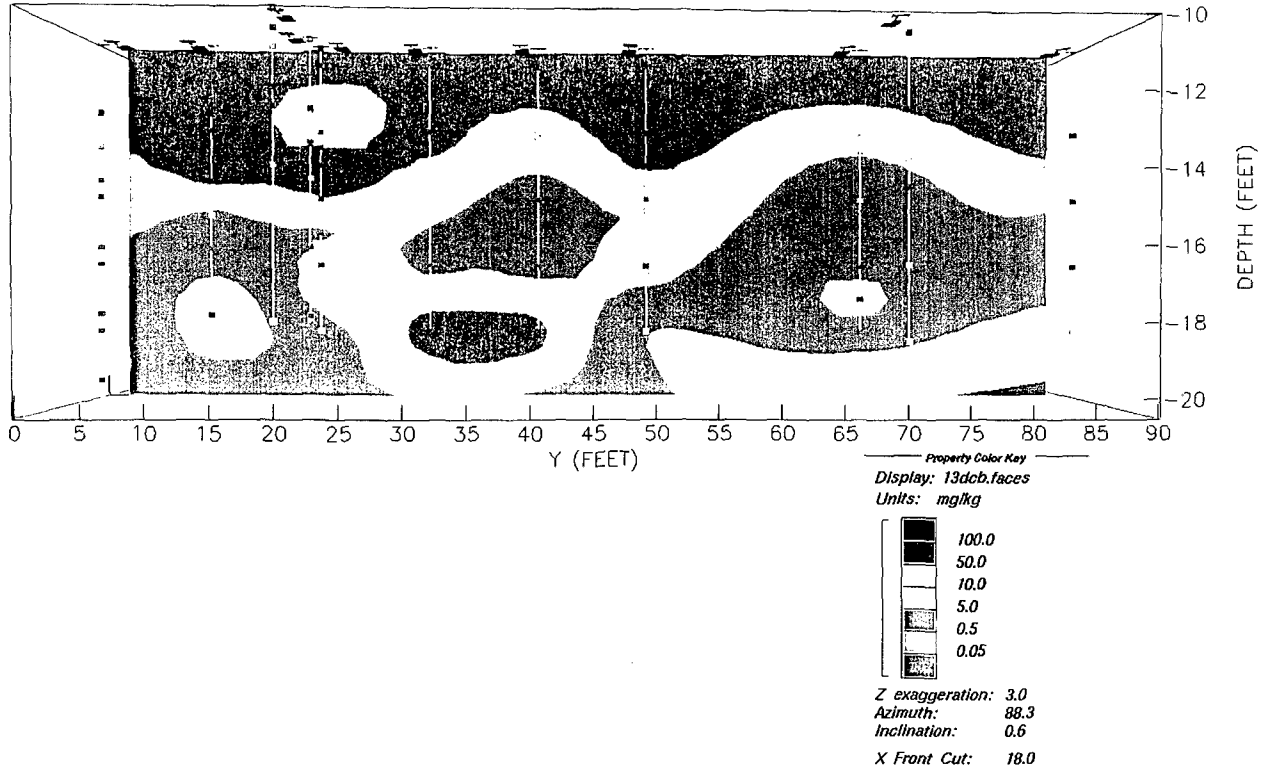


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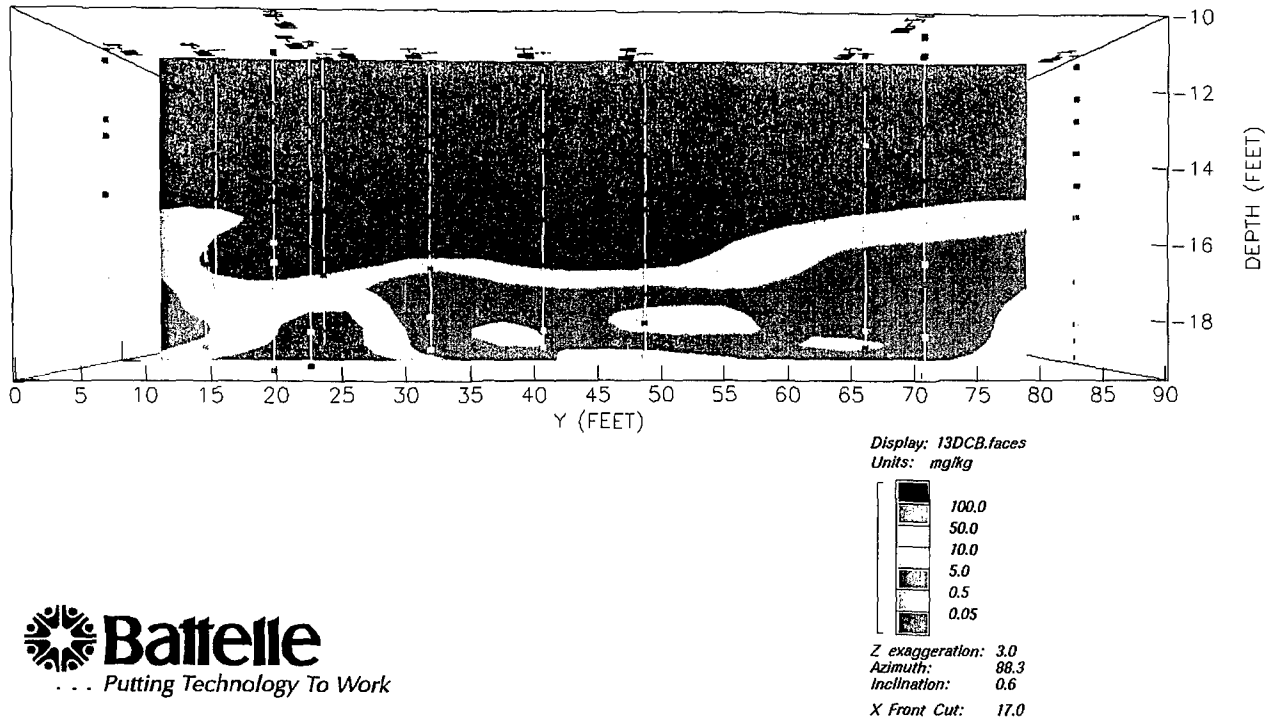


Cross Sectional View Slices through 3D Block Diagrams of 1,3-DCB
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A

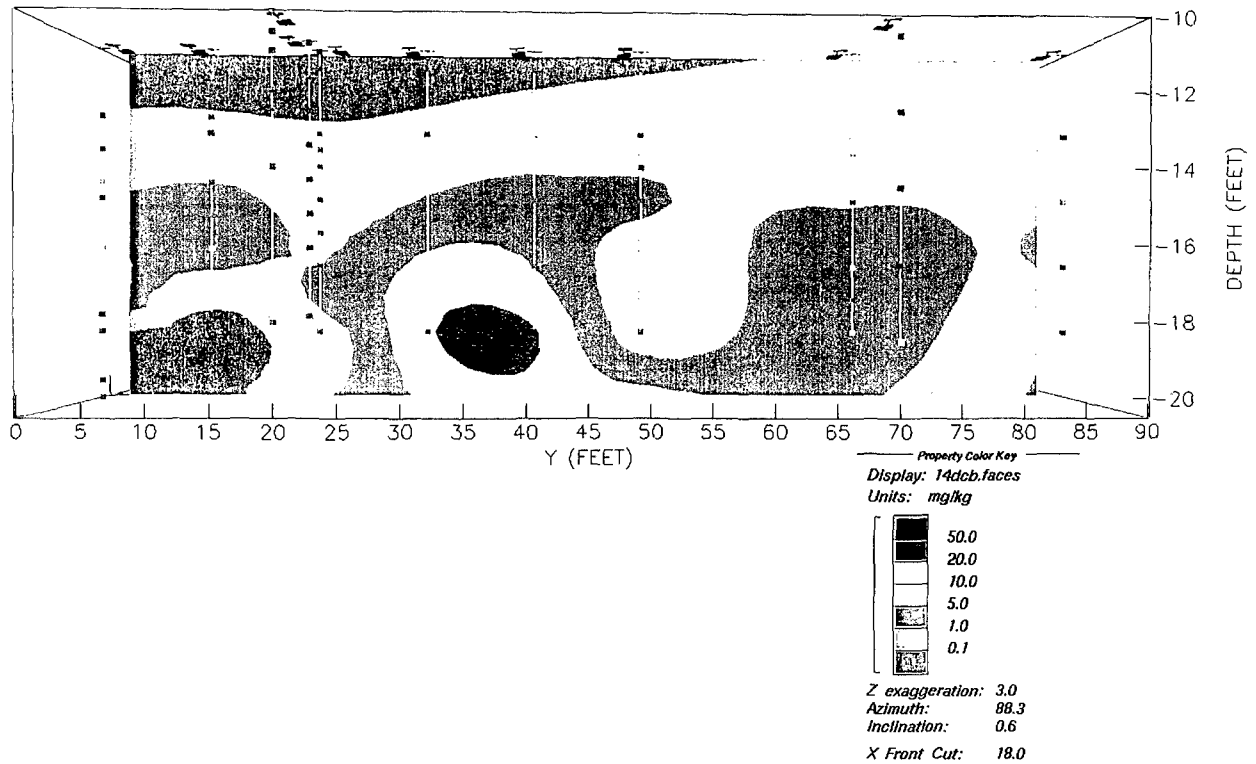


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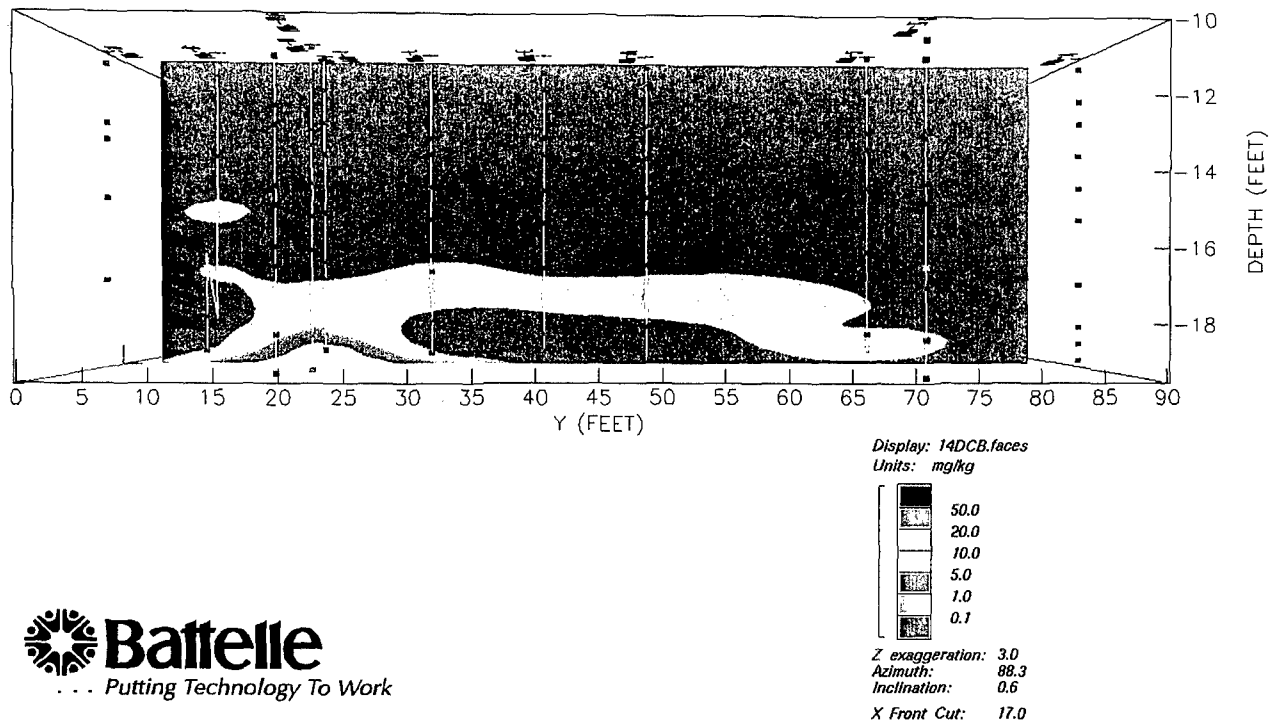


Cross Sectional View Slices through 3D Block Diagrams of 1,4-DCB
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A

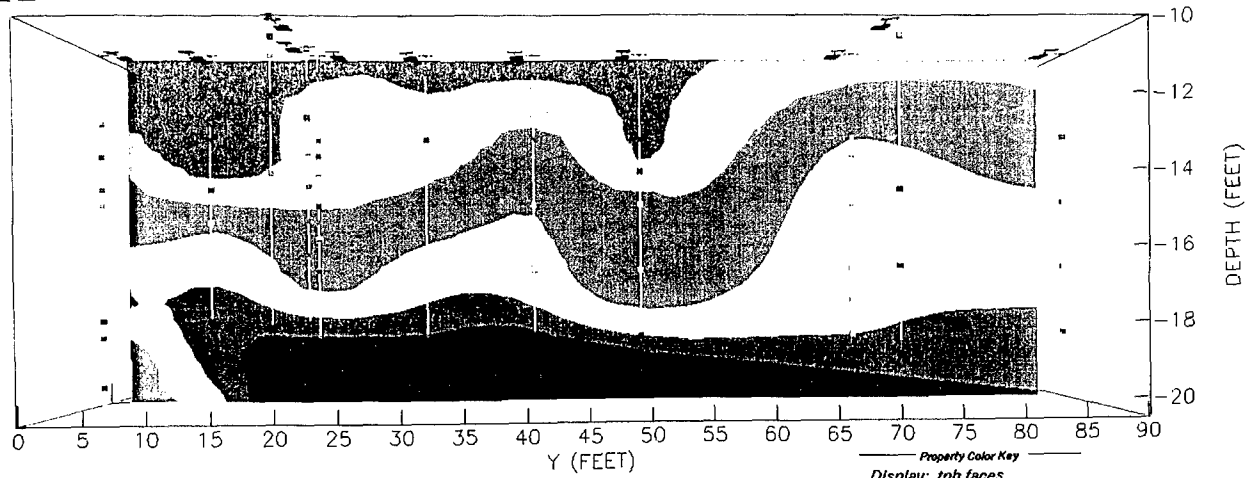


B



Cross Sectional View Slices through 3D Block Diagrams of TPH along Wells MP-A - MP-Y A) July '97, B) July '98

A

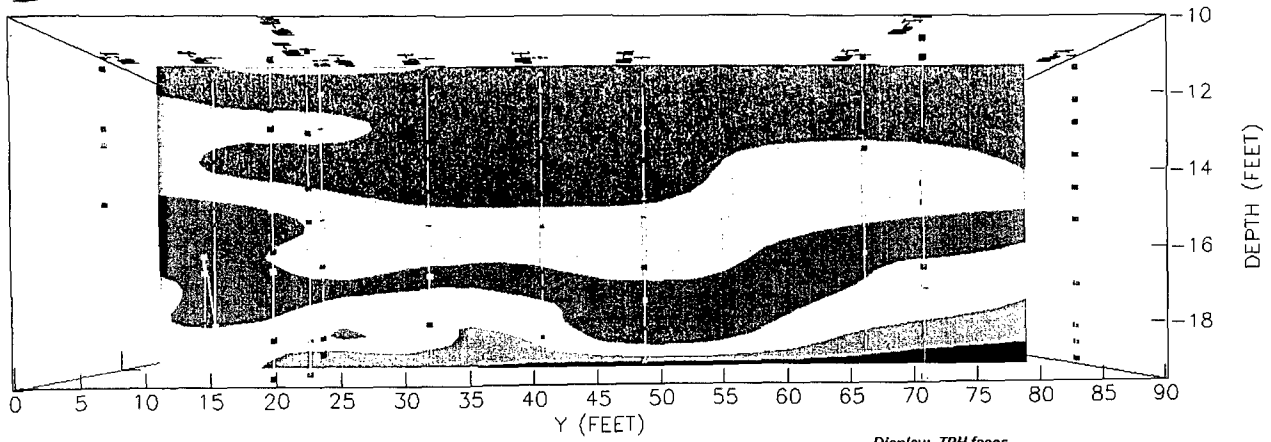


Property Color Key
 Display: *tph.faces*
 Units: *mg/kg*

	400.0
	200.0
	100.0
	50.0
	5.0
	0.5

Z exaggeration: 3.0
Azimuth: 88.3
Inclination: 0.6
X Front Cut: 18.0

B



Display: TPH.faces
 Units: *mg/kg*

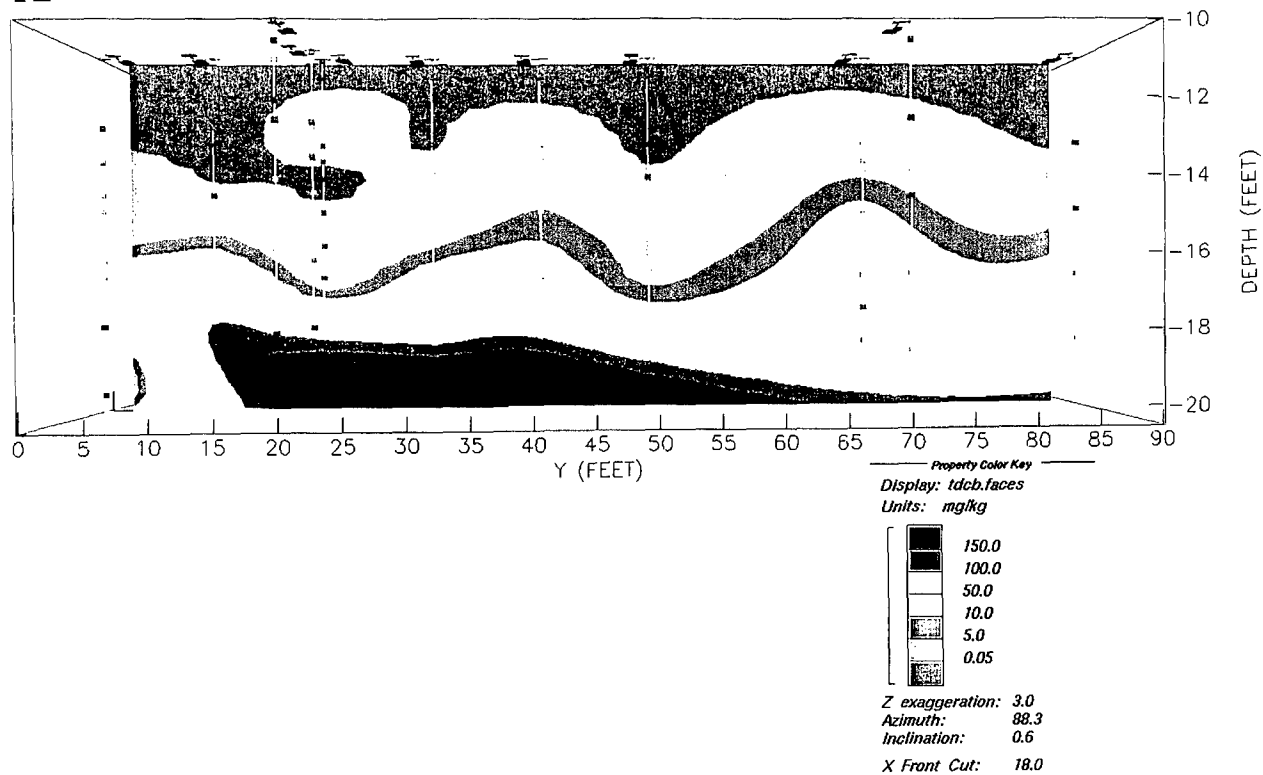
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	200.0
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Z exaggeration: 3.0
Azimuth: 88.3
Inclination: 0.6
X Front Cut: 17.0

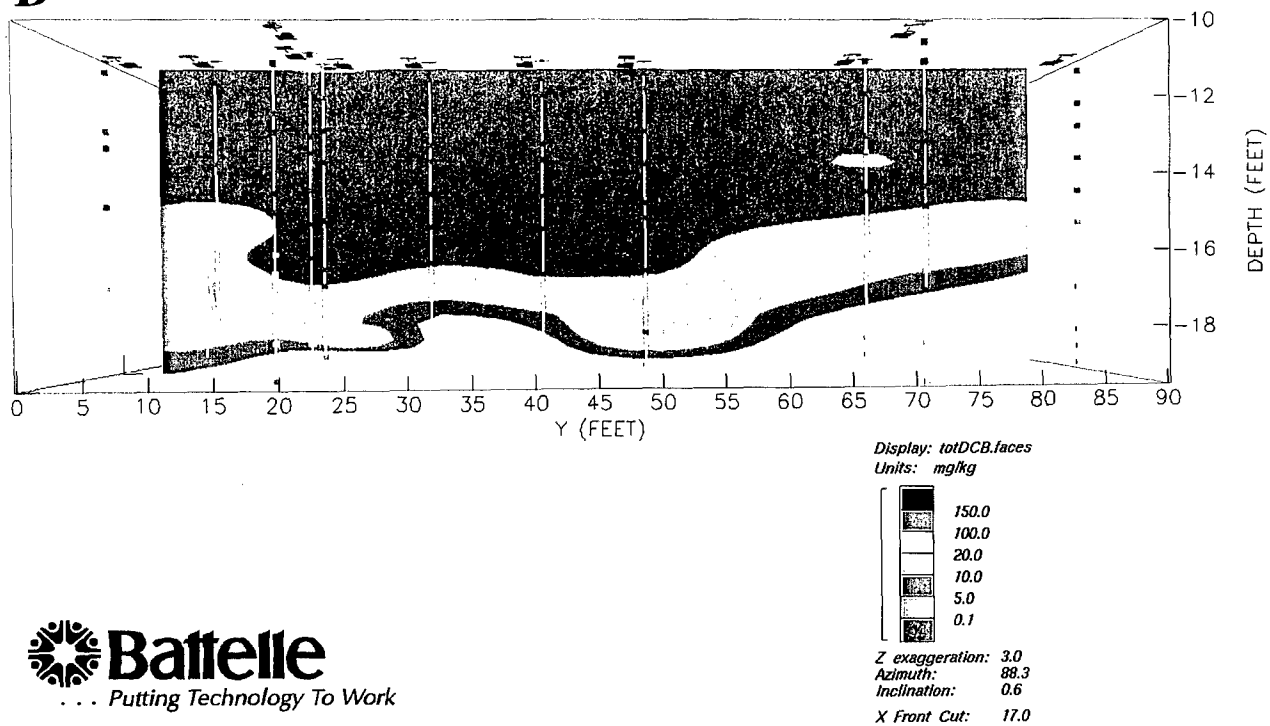


Cross Sectional View Slices through 3D Block Diagrams of Total DCB along Wells MP-A - MP-Y A) July '97, B) July '98

A

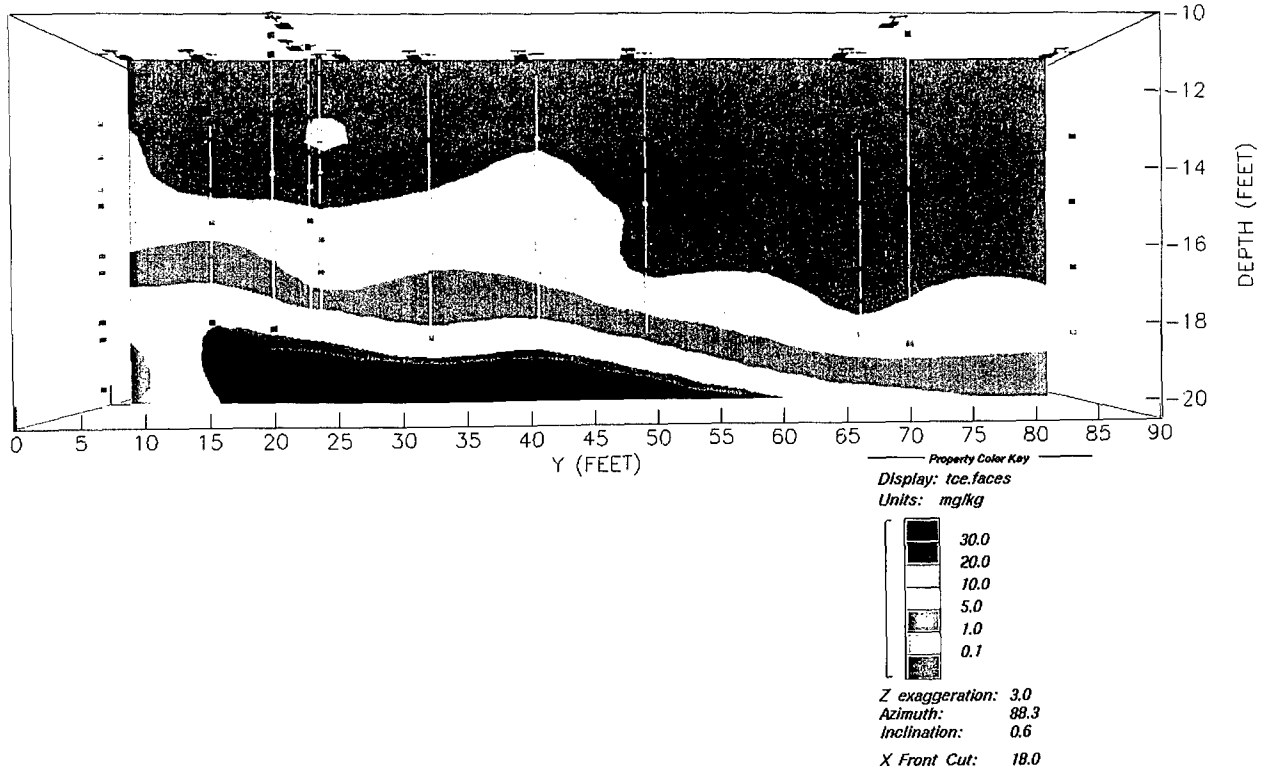


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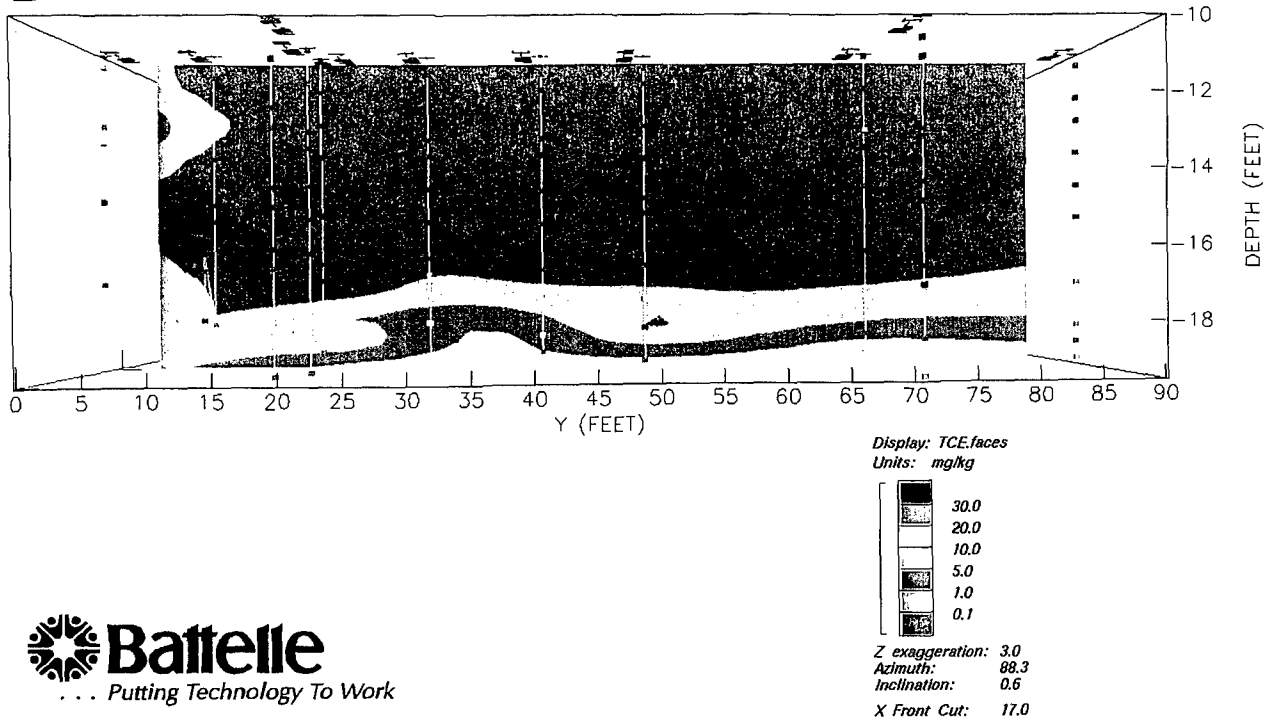


Cross Sectional View Slices through 3D Block Diagrams of TCE
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A

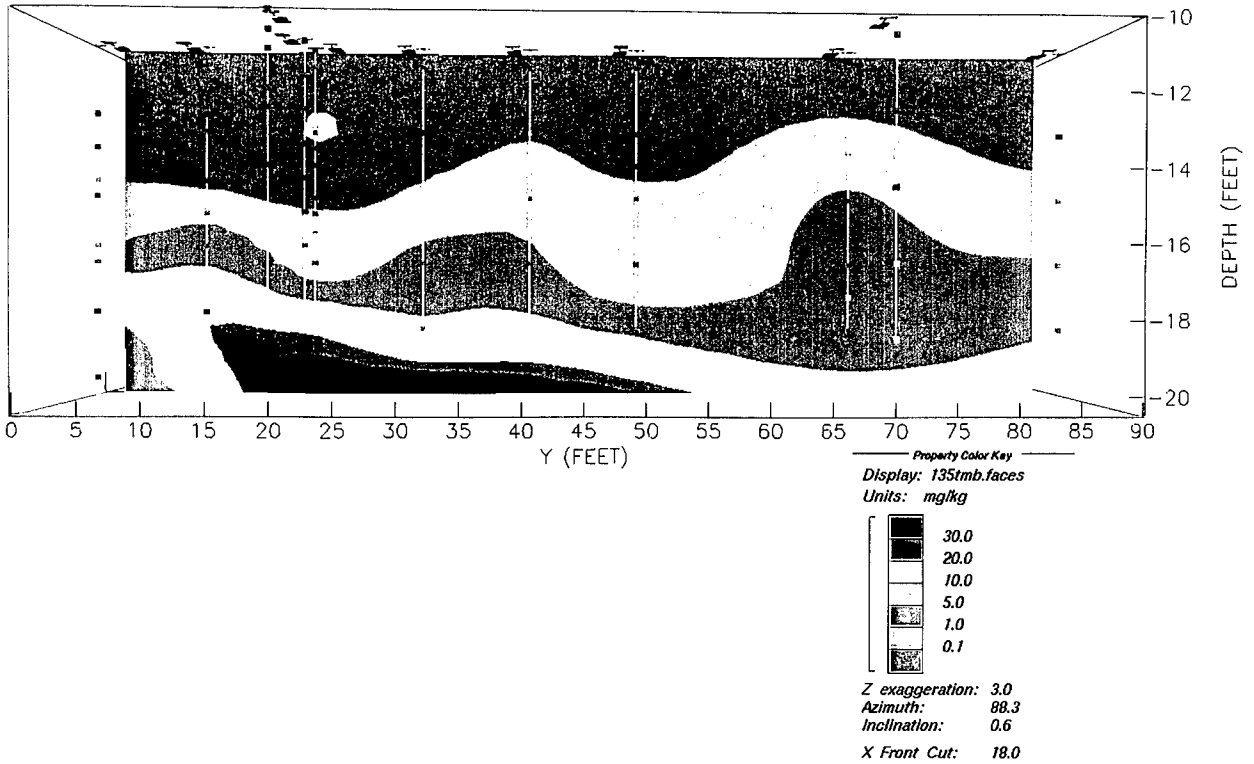


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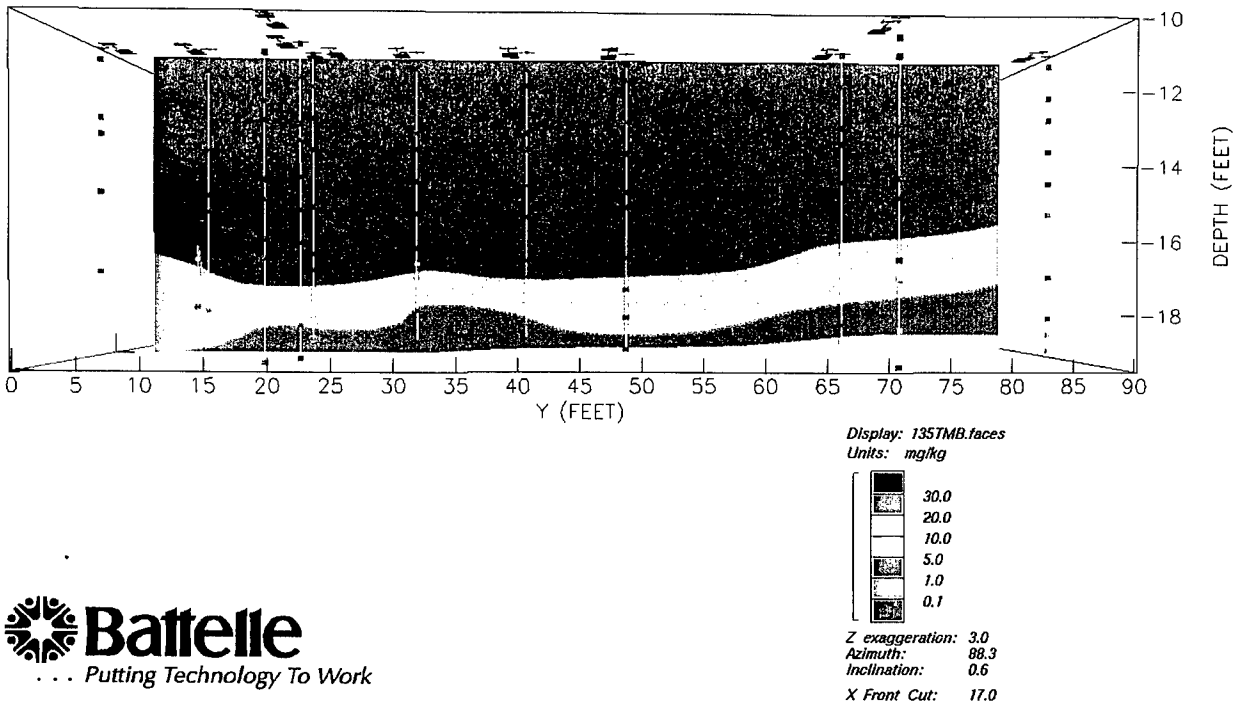


Cross Sectional View Slices through 3D Block Diagrams of 1,3,5-TMB
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A



B

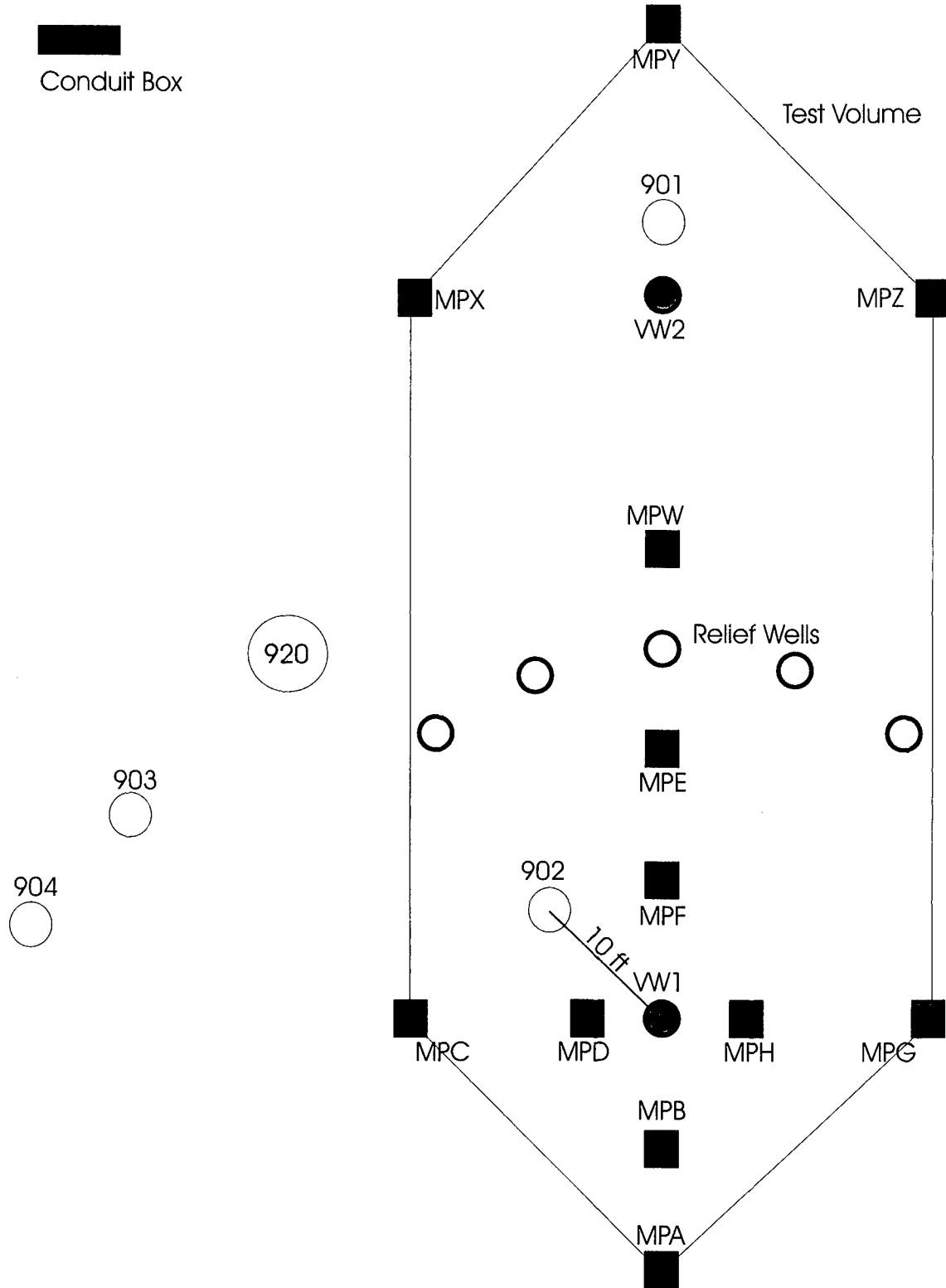


GRAPHIC REPRESENTATIONS
OF
CONCENTRATIONS OF SELECTED COMPOUNDS OF CONCERN
BEFORE AND AFTER BIOVENTING FOR 1 YEAR

PLAN VIEW SLICES

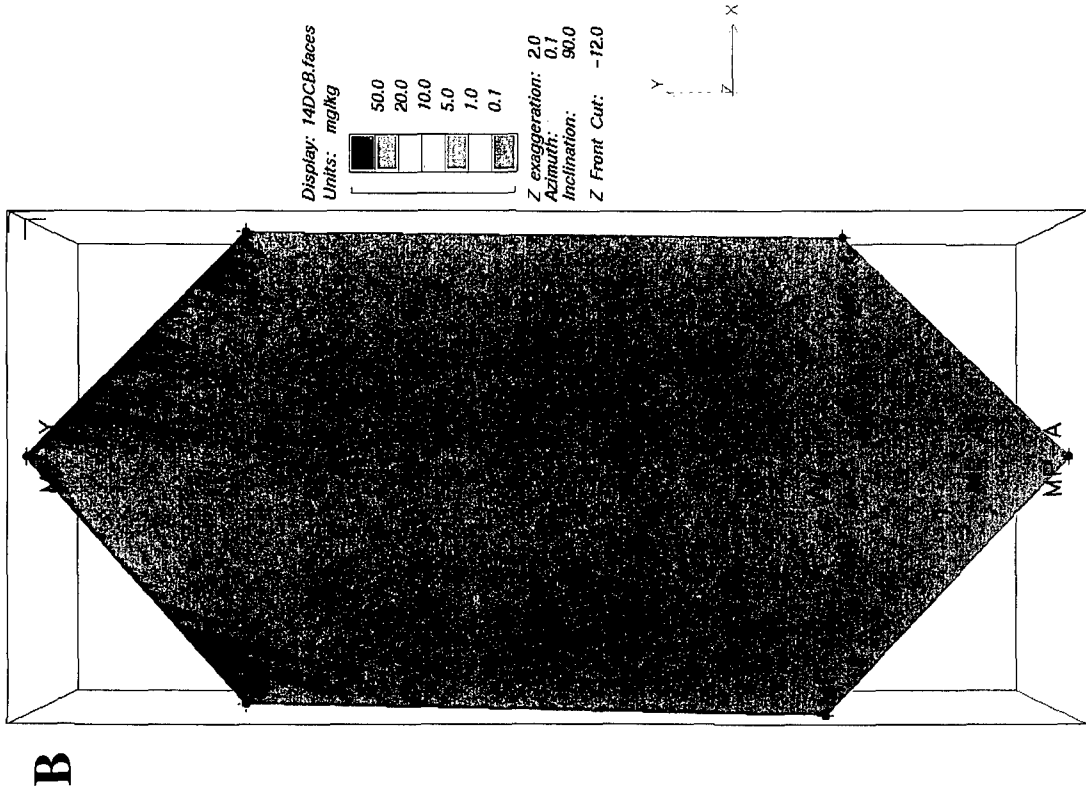
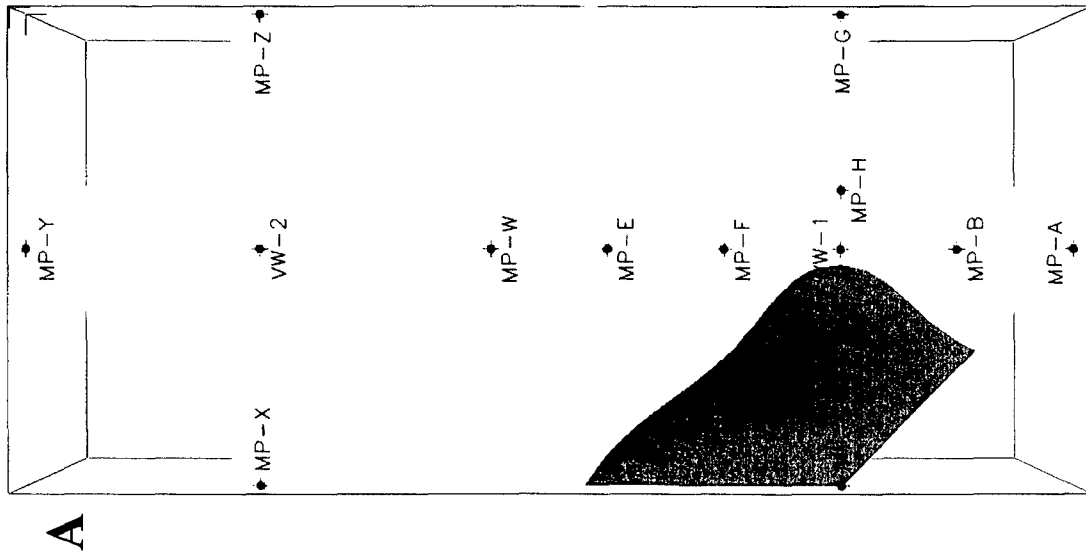
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■ Conduit Box



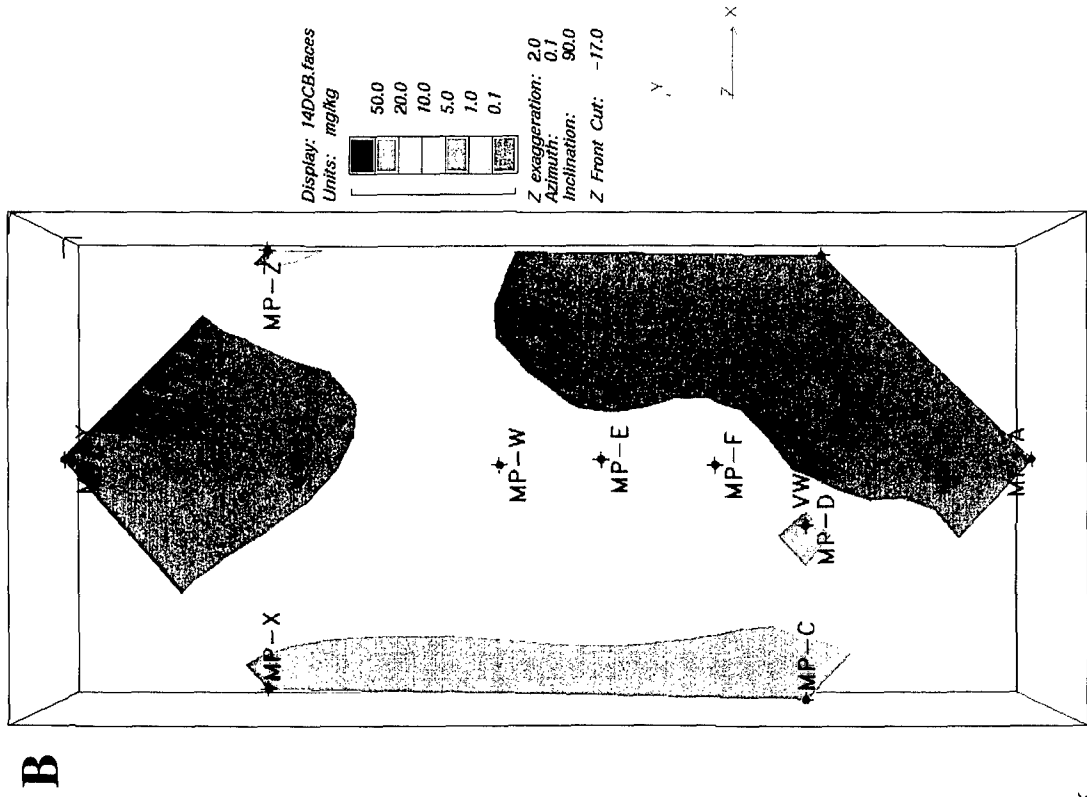
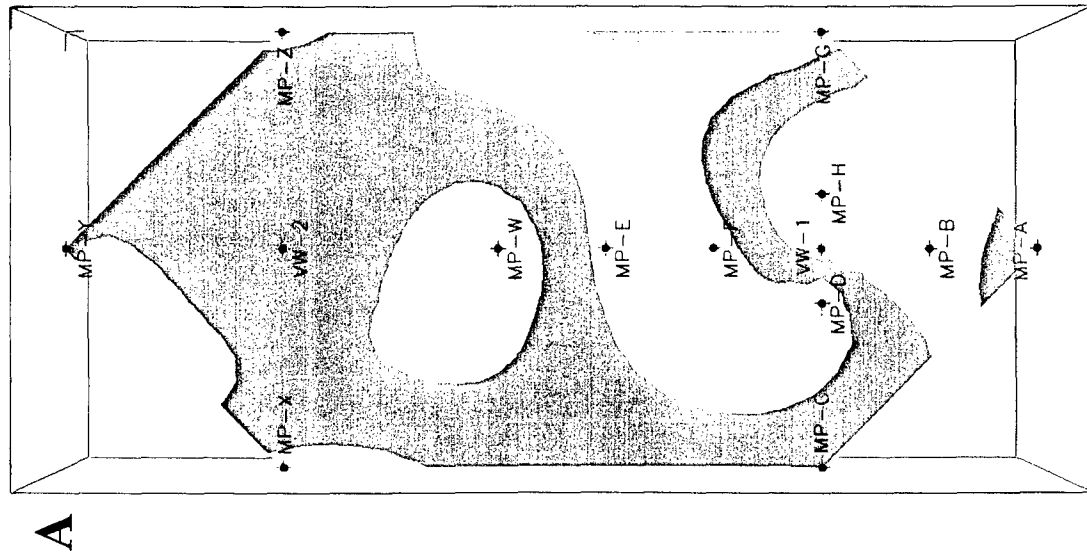
Plan View Slices through 3D Block Diagrams of 1,4-DCB

at 12' BLS A) July '97, B) July '98



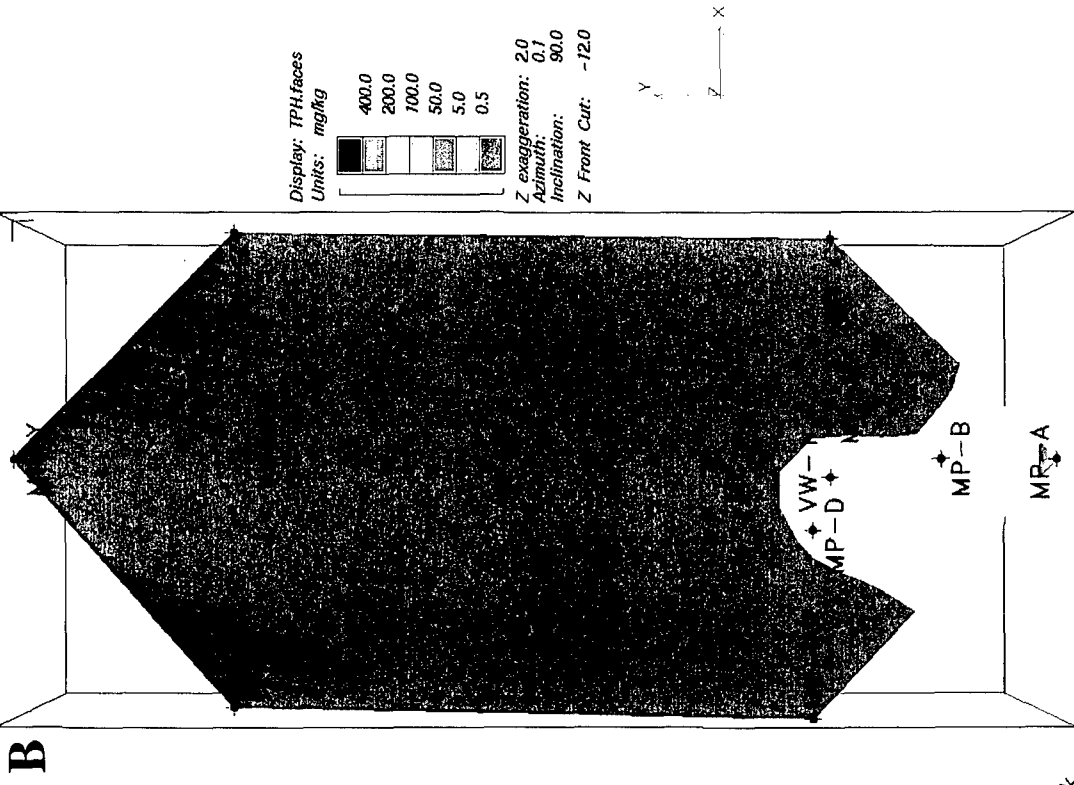
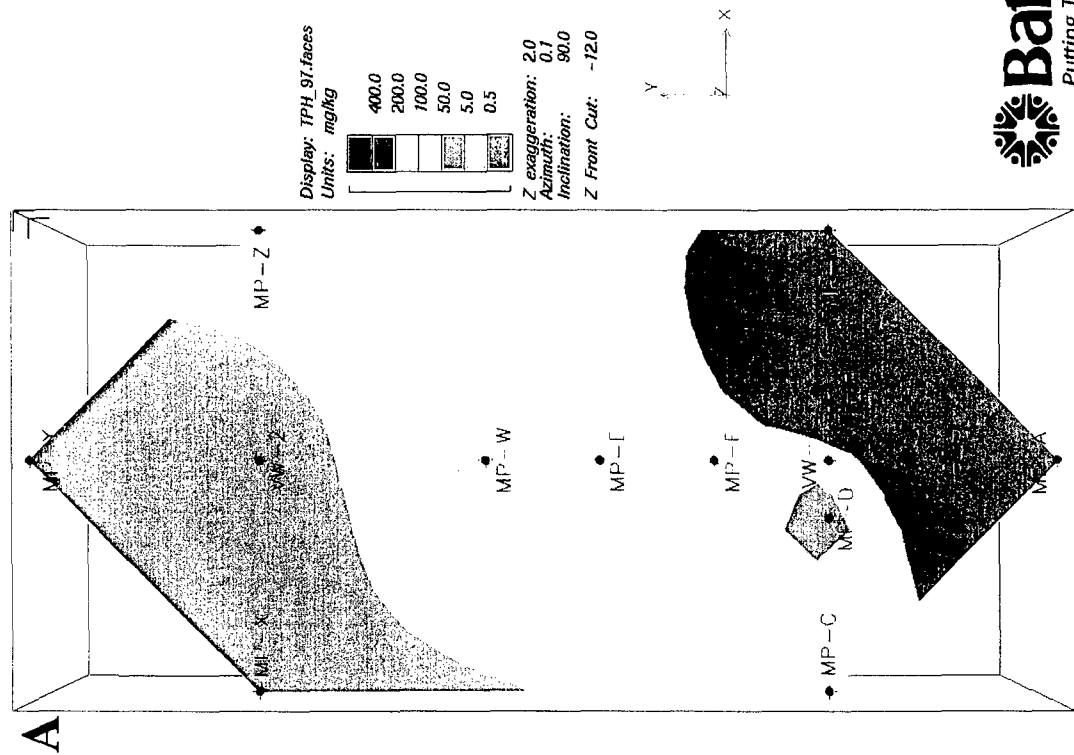
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at 17' BLS A) July '97, B) July '98



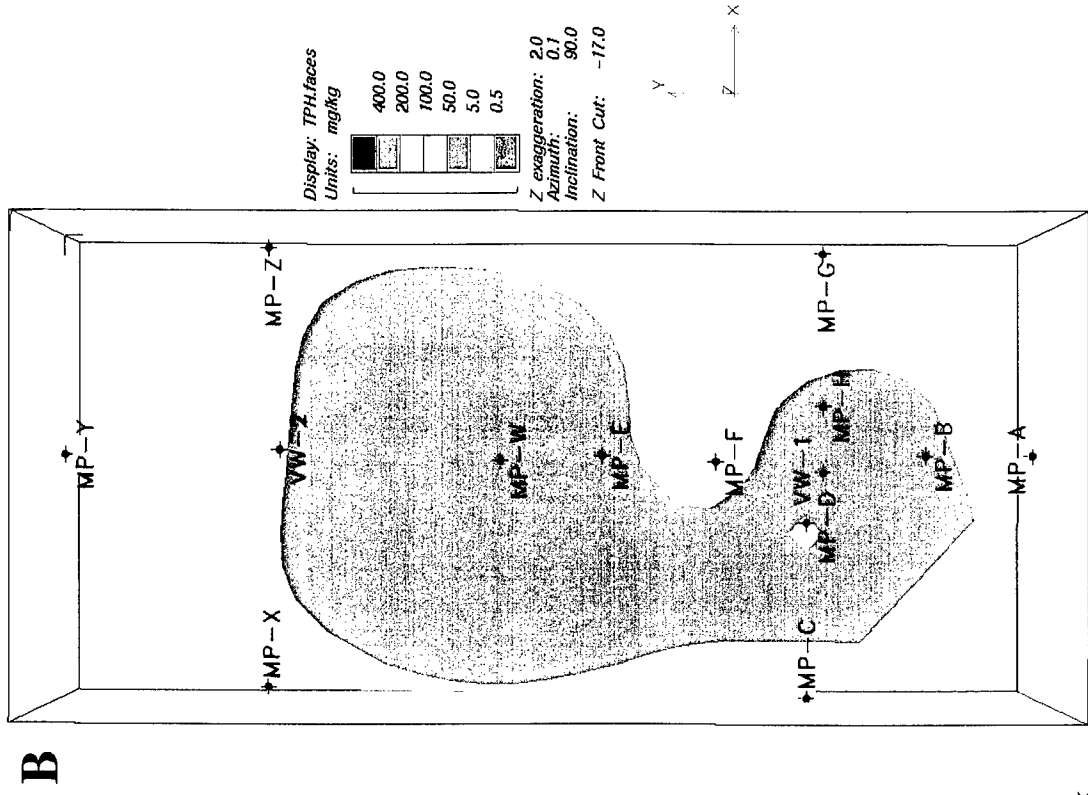
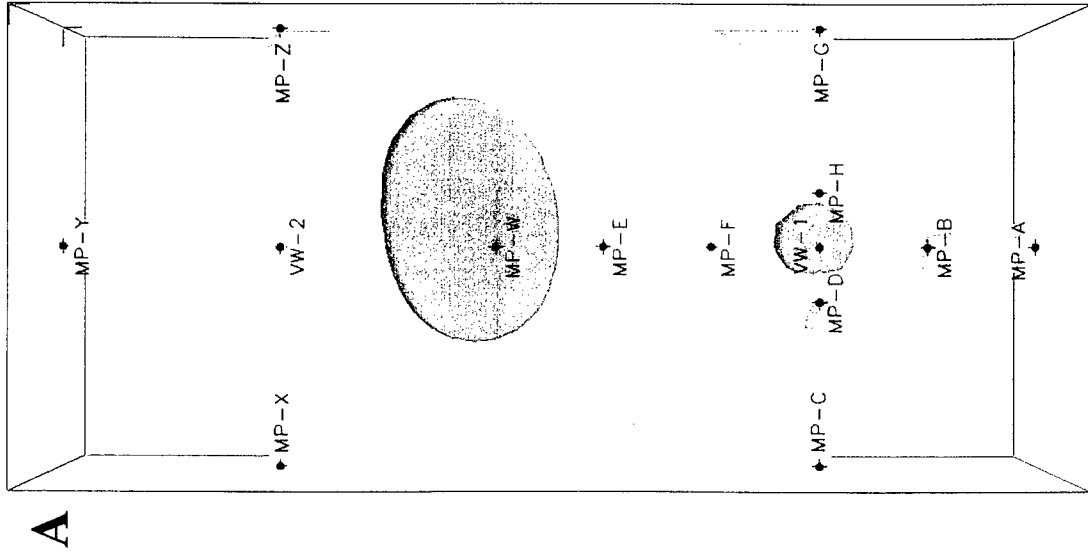
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at 12' BLS A) July '97, B) July '98



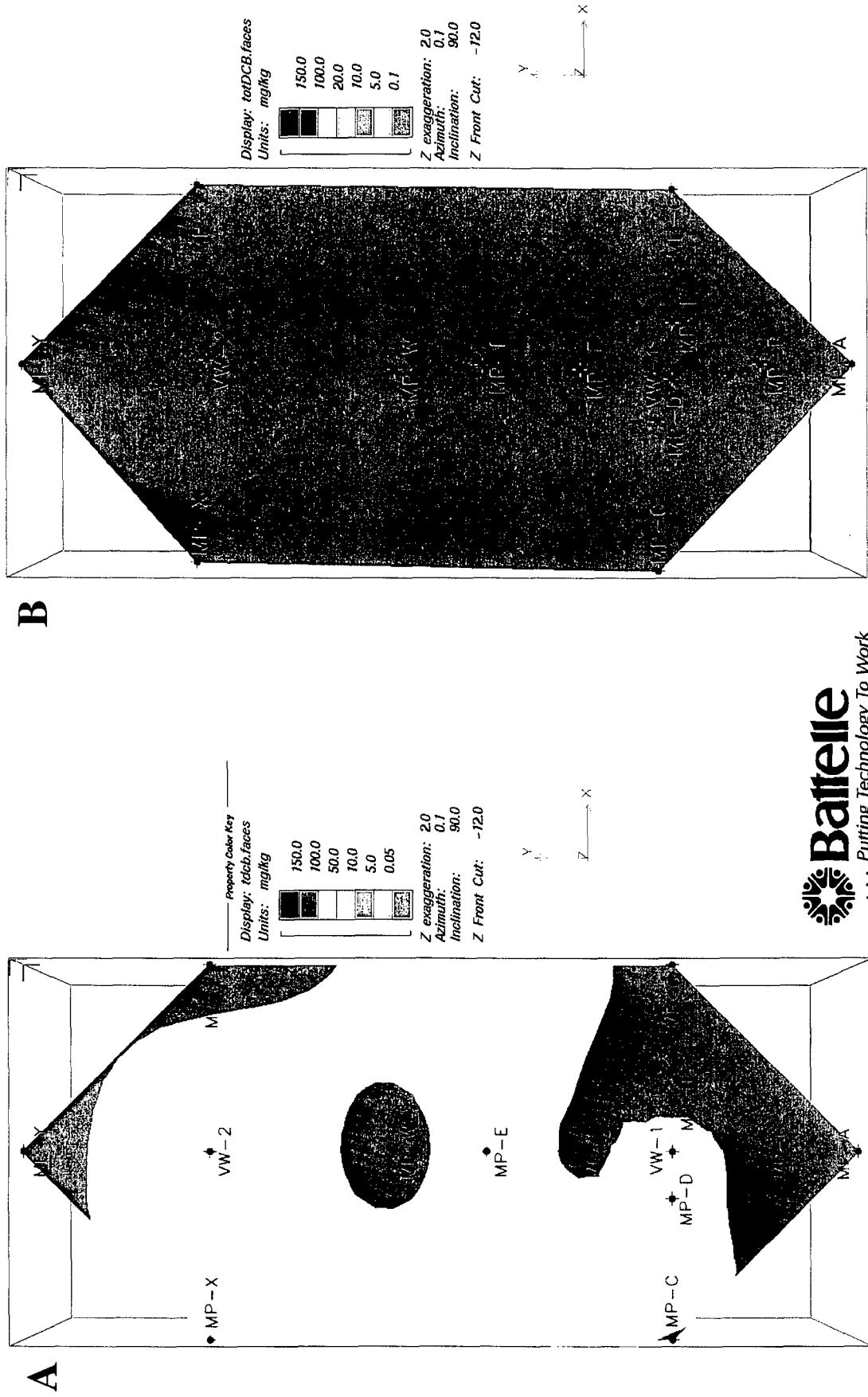
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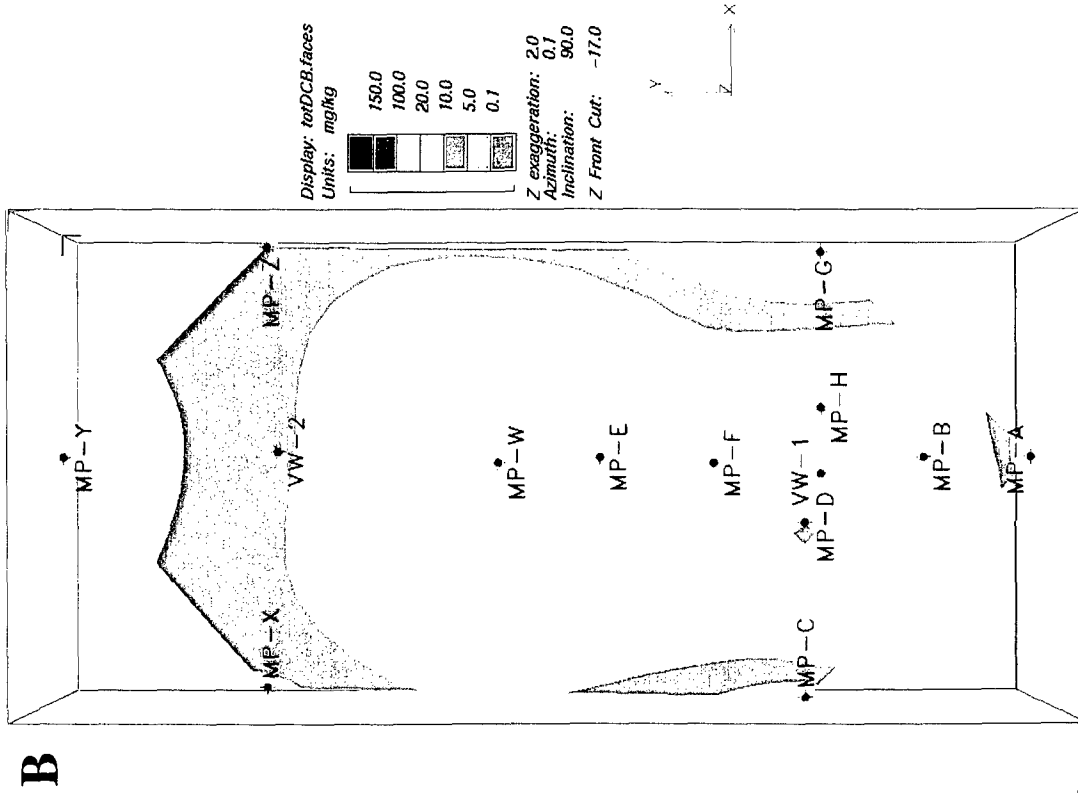
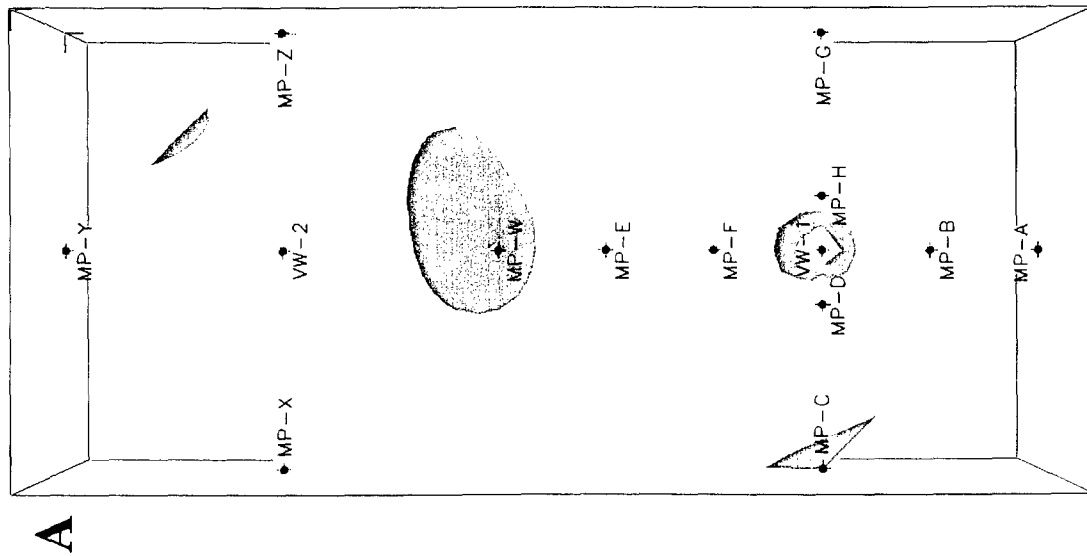
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at 12' BLS A) July '97, B) July '98



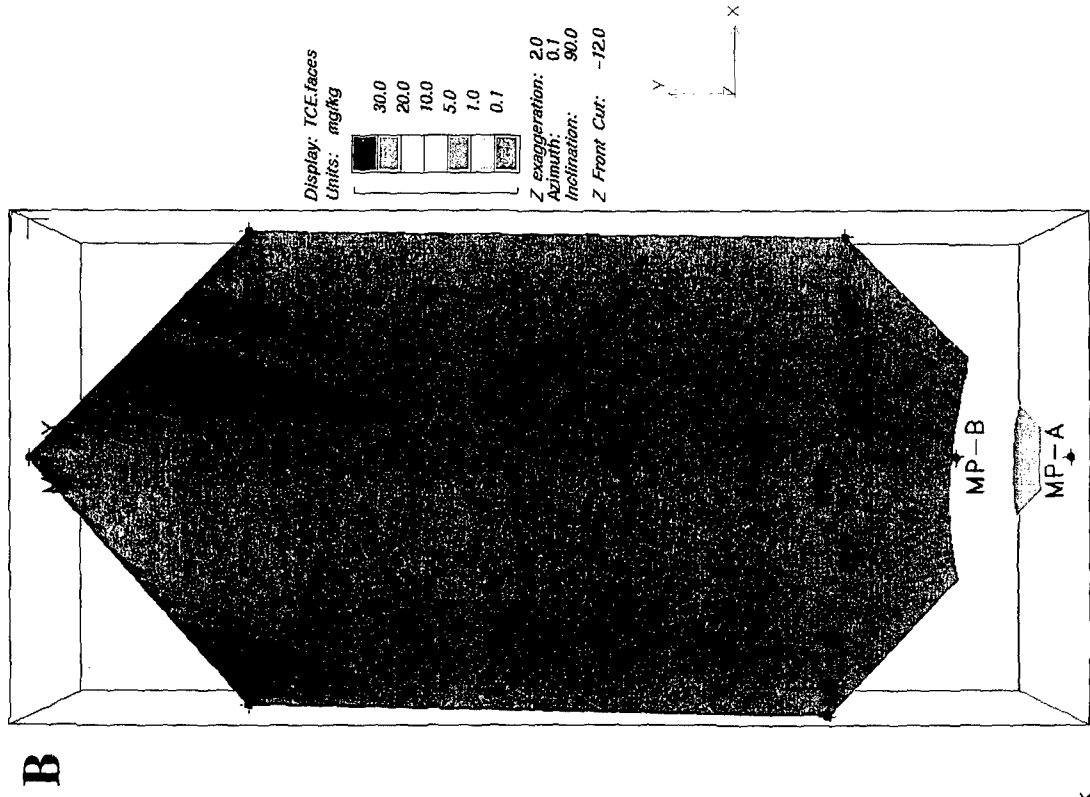
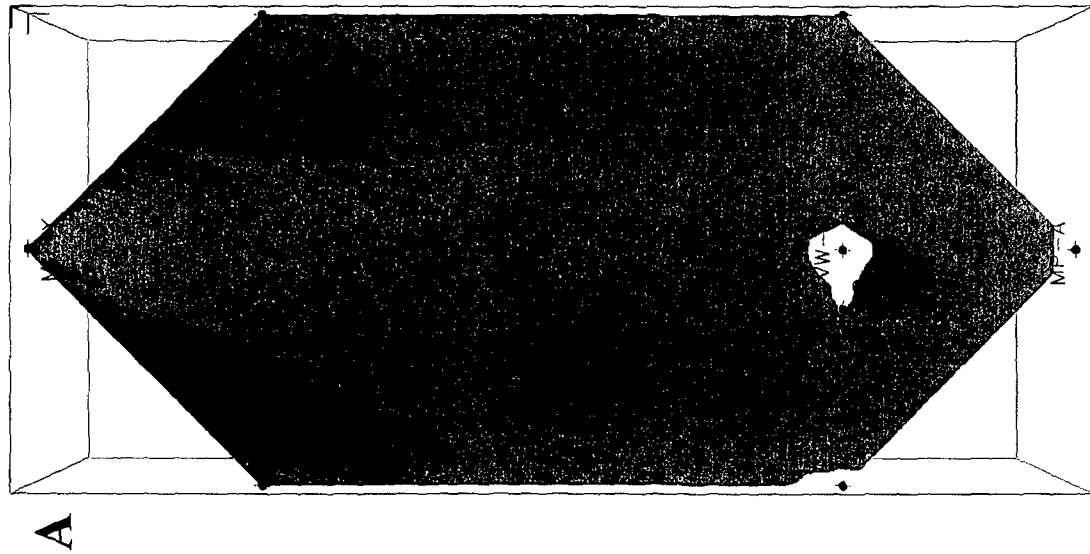
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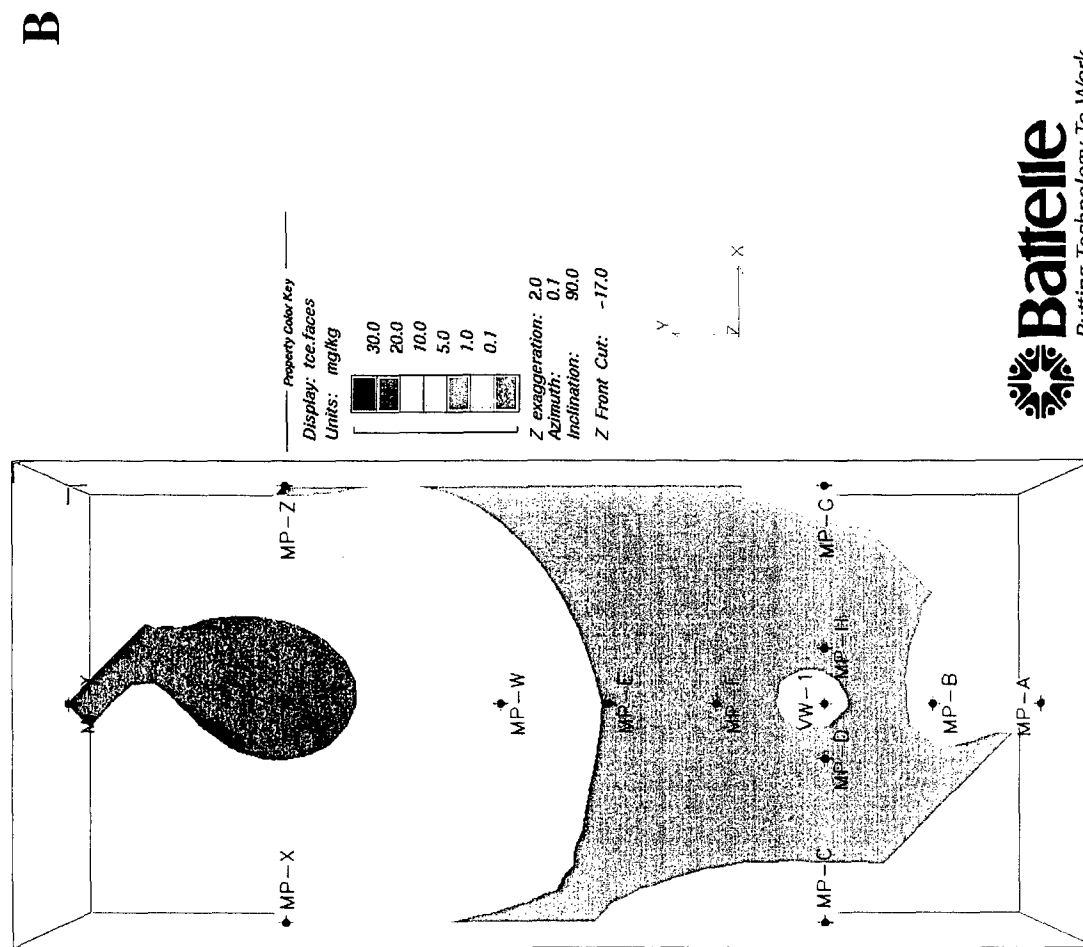
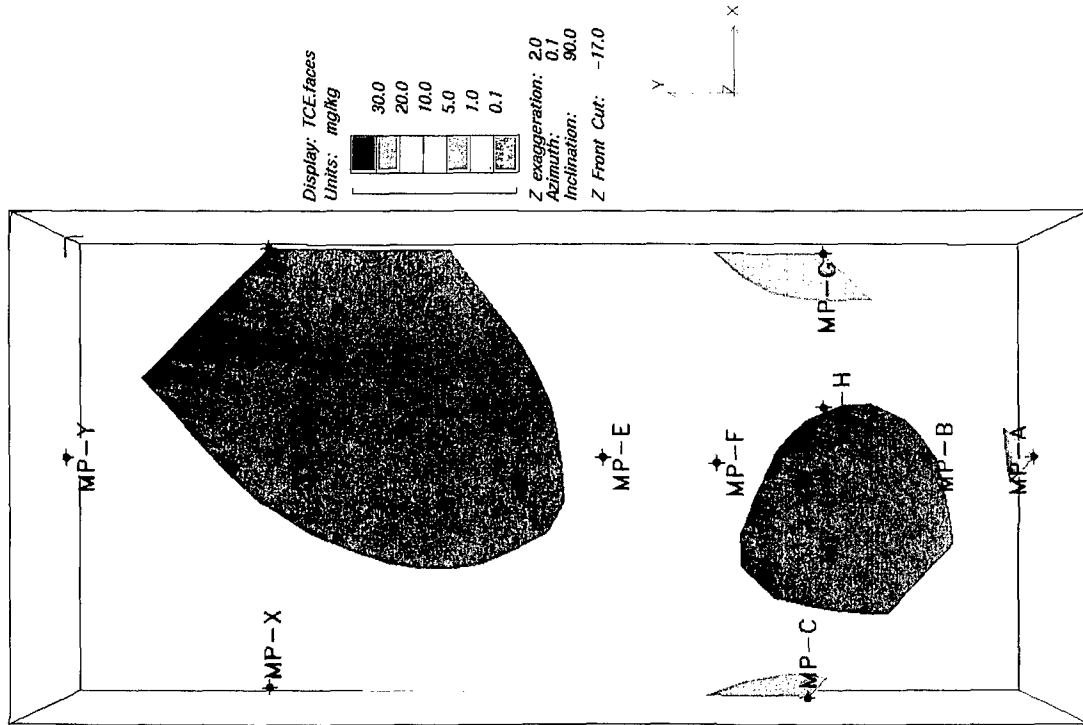
Plan View Slices through 3D Block Diagrams of TCE

at 12' BLS A) July '97, B) July '98

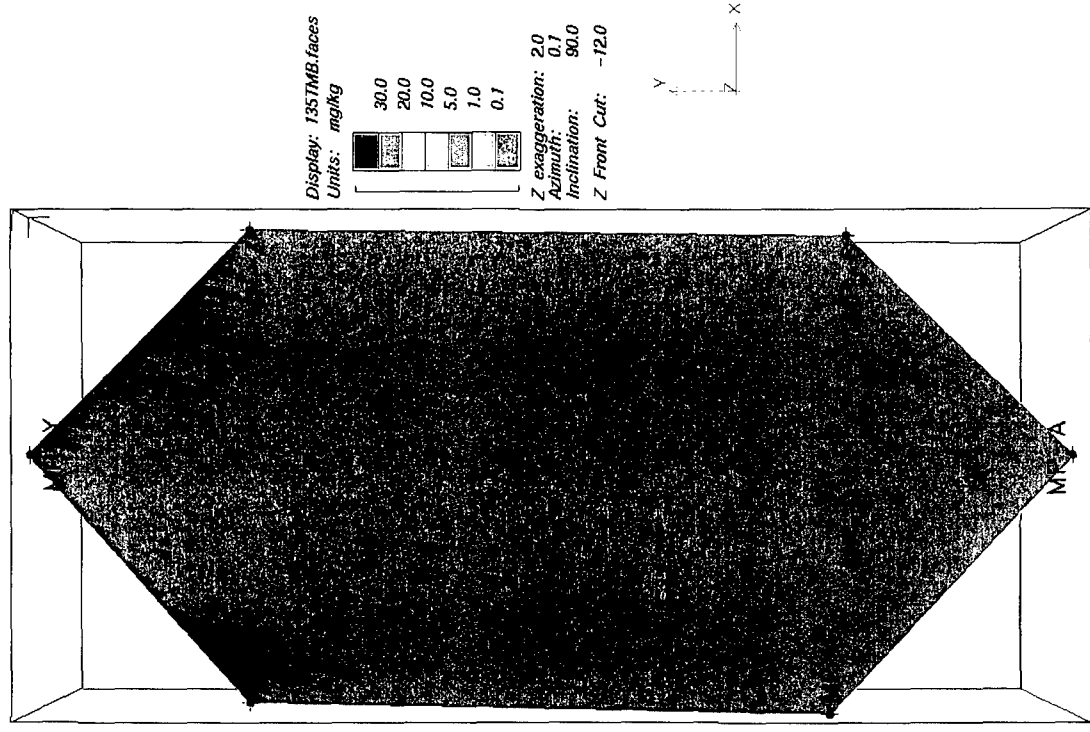


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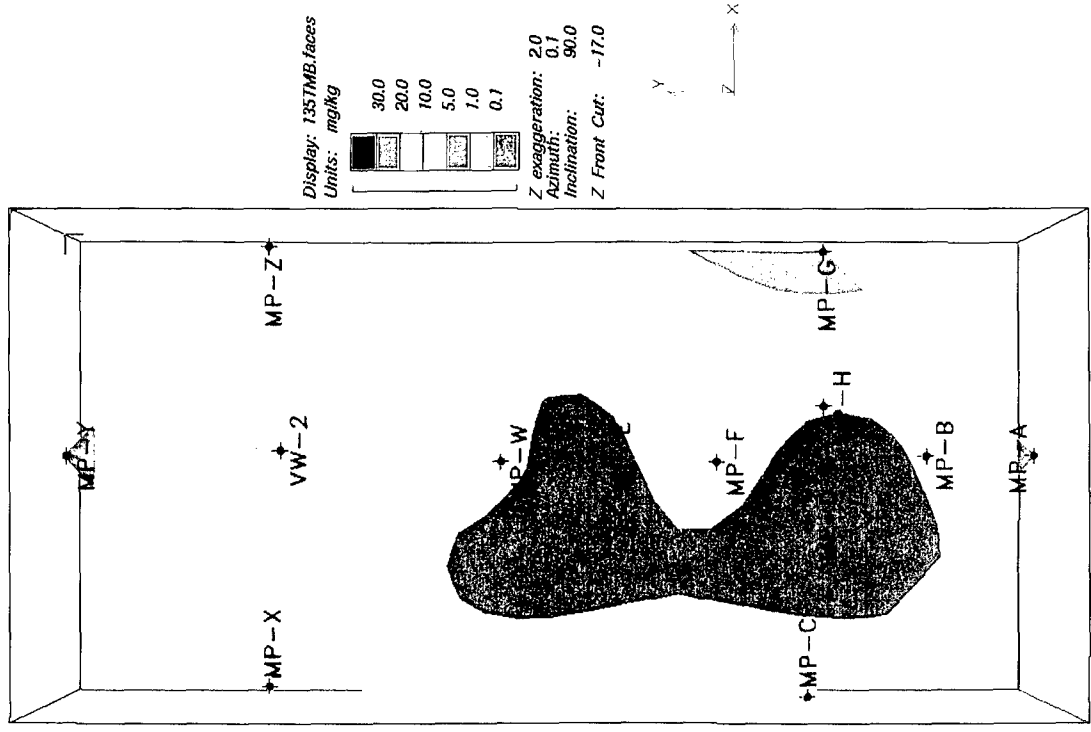
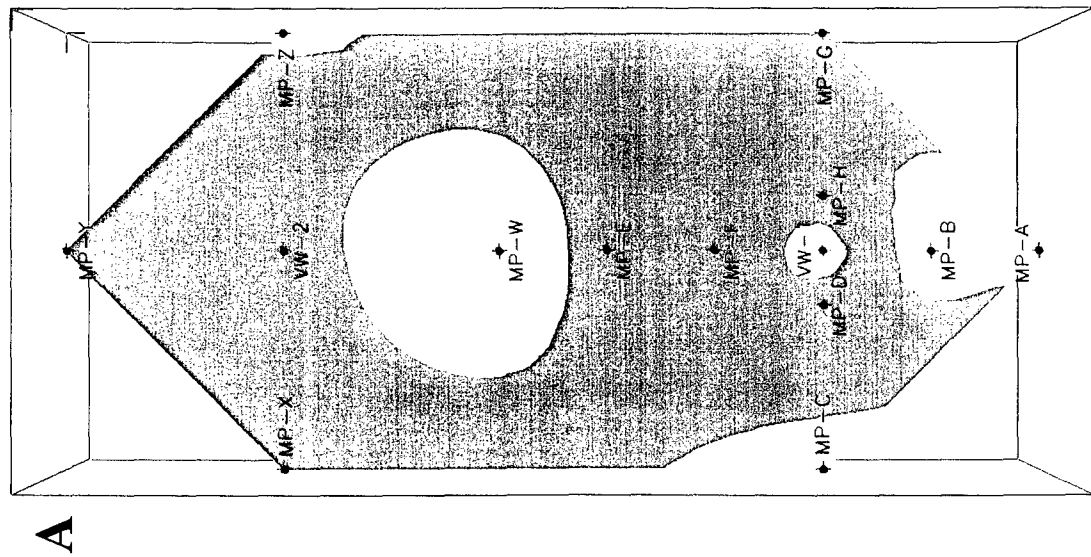


Plan View Slices through 3D Block Diagrams of 1,3,5-TMB
 at 12' BLS A) July '97, B) July '98

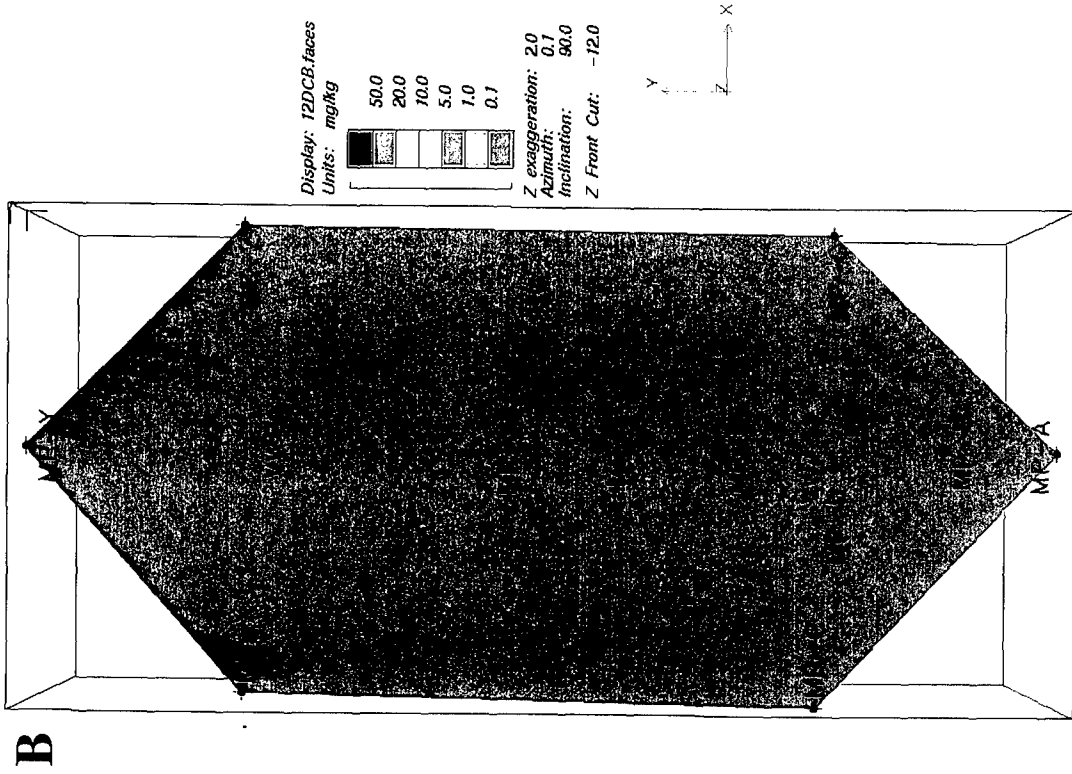
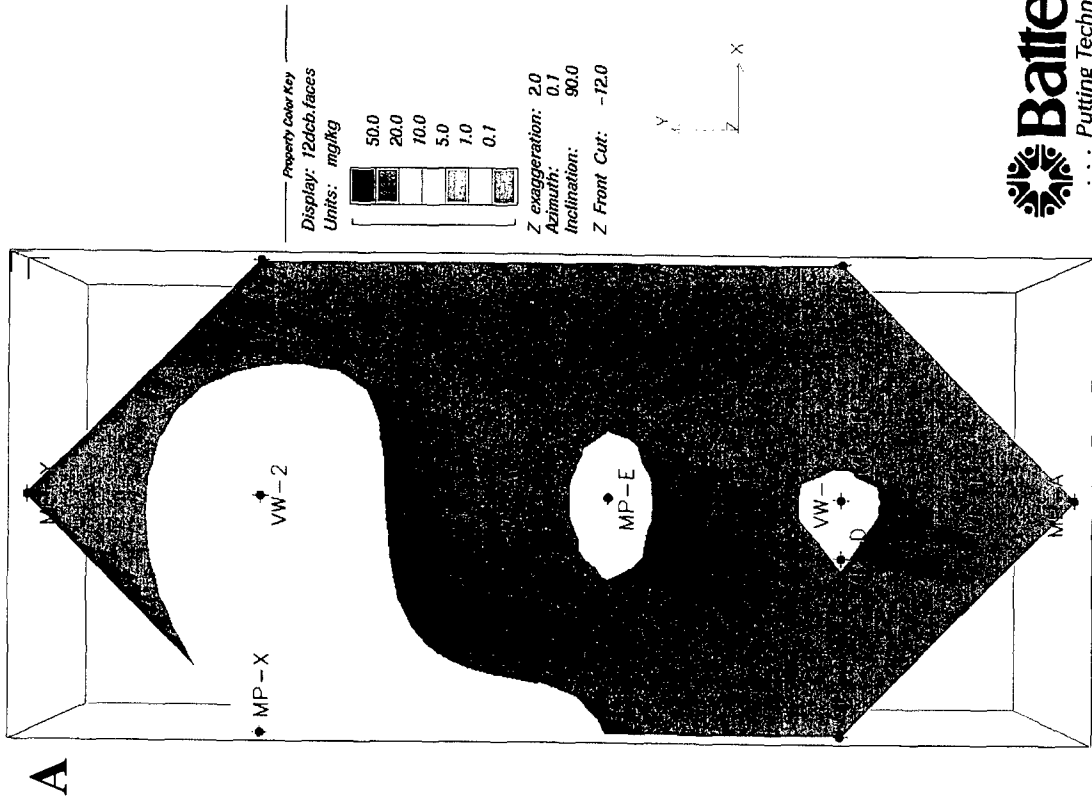


Plan View Slices through 3D Block Diagrams of 1,3,5-TMB

at 17' BLS A) July '97, B) July '98

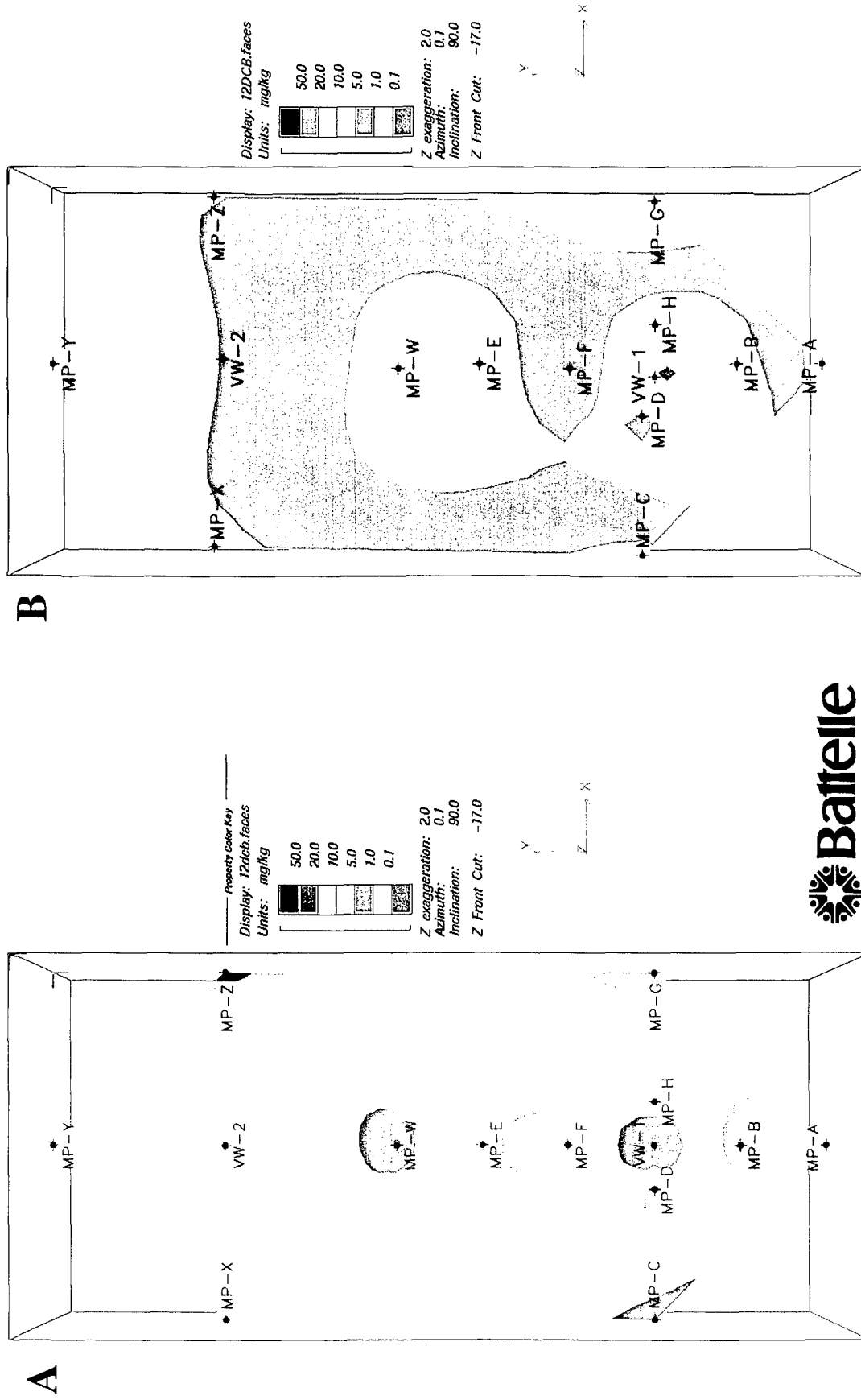


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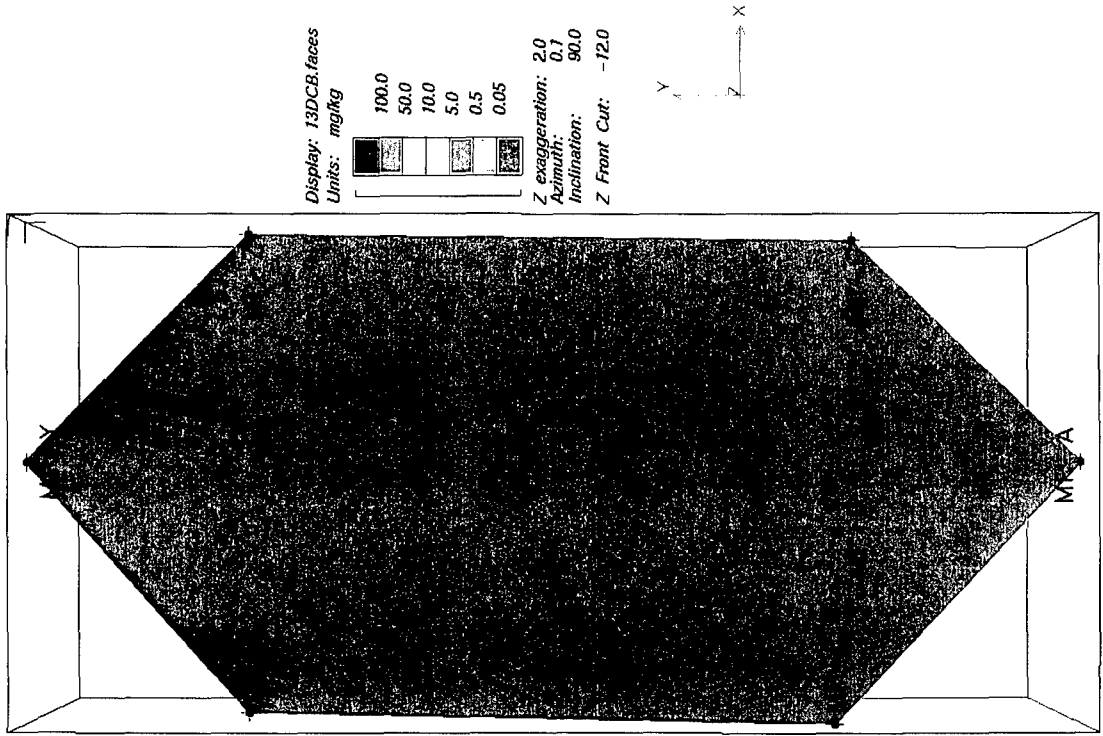
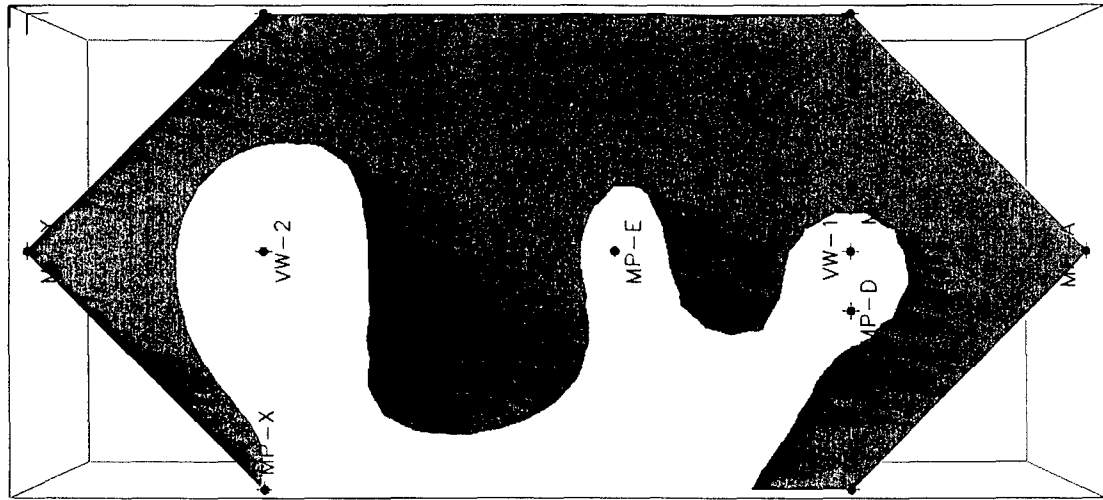
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at 17' BLS A) July '97, B) July '98



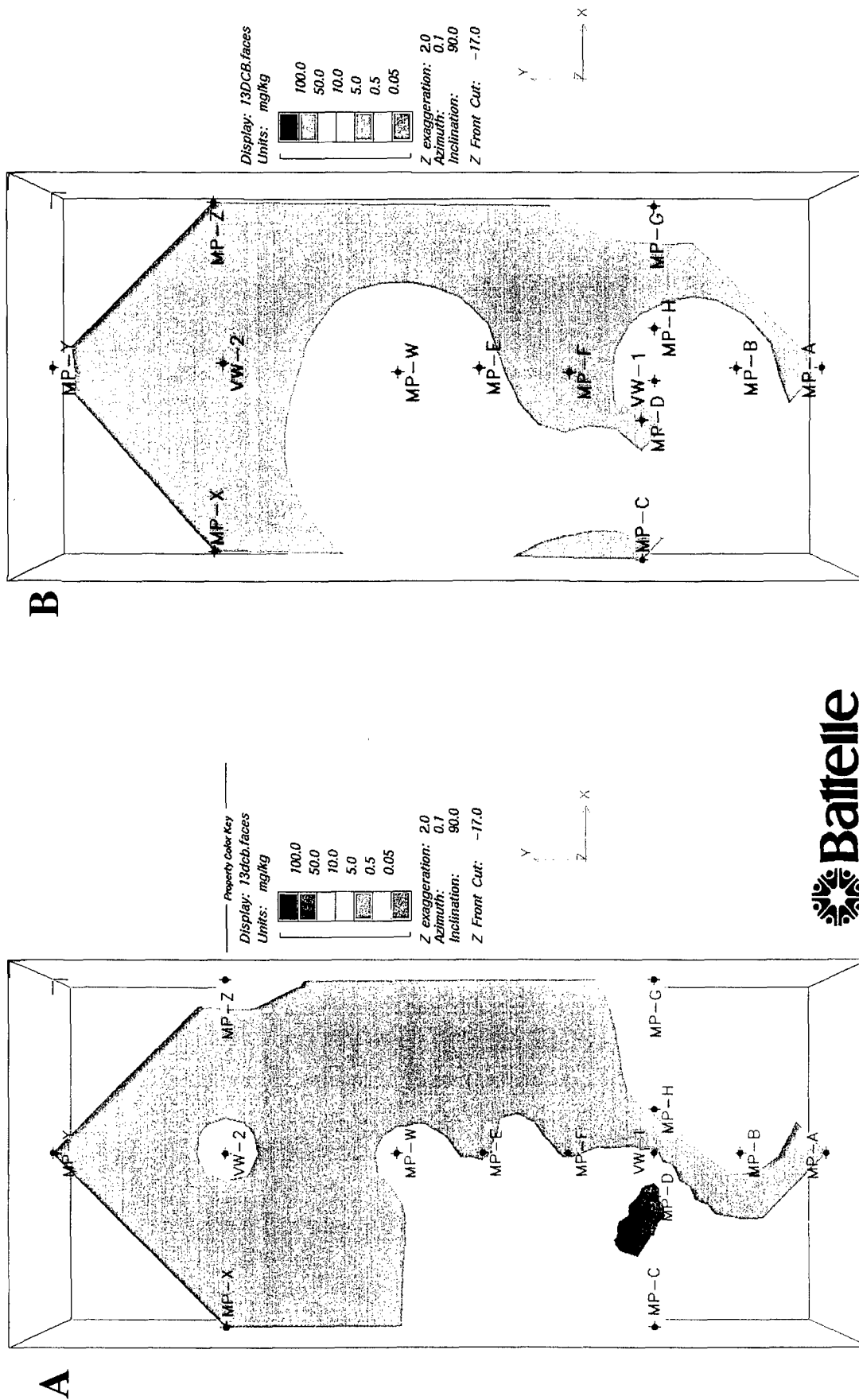
Plan View Slices through 3D Block Diagrams of 1,3-DCB

at 12' BLS A) July '97, B) July '98



PlanView Slices through 3D Block Diagrams of 1,3-DCB

at 17' BLS A) July '97, B) July '98



**OXYGEN UTILIZATION PLOTS
MONITORED BY
MANUAL METHOD
DURING RESPIRATION TESTING**

July 1997

October 1997

January 1998

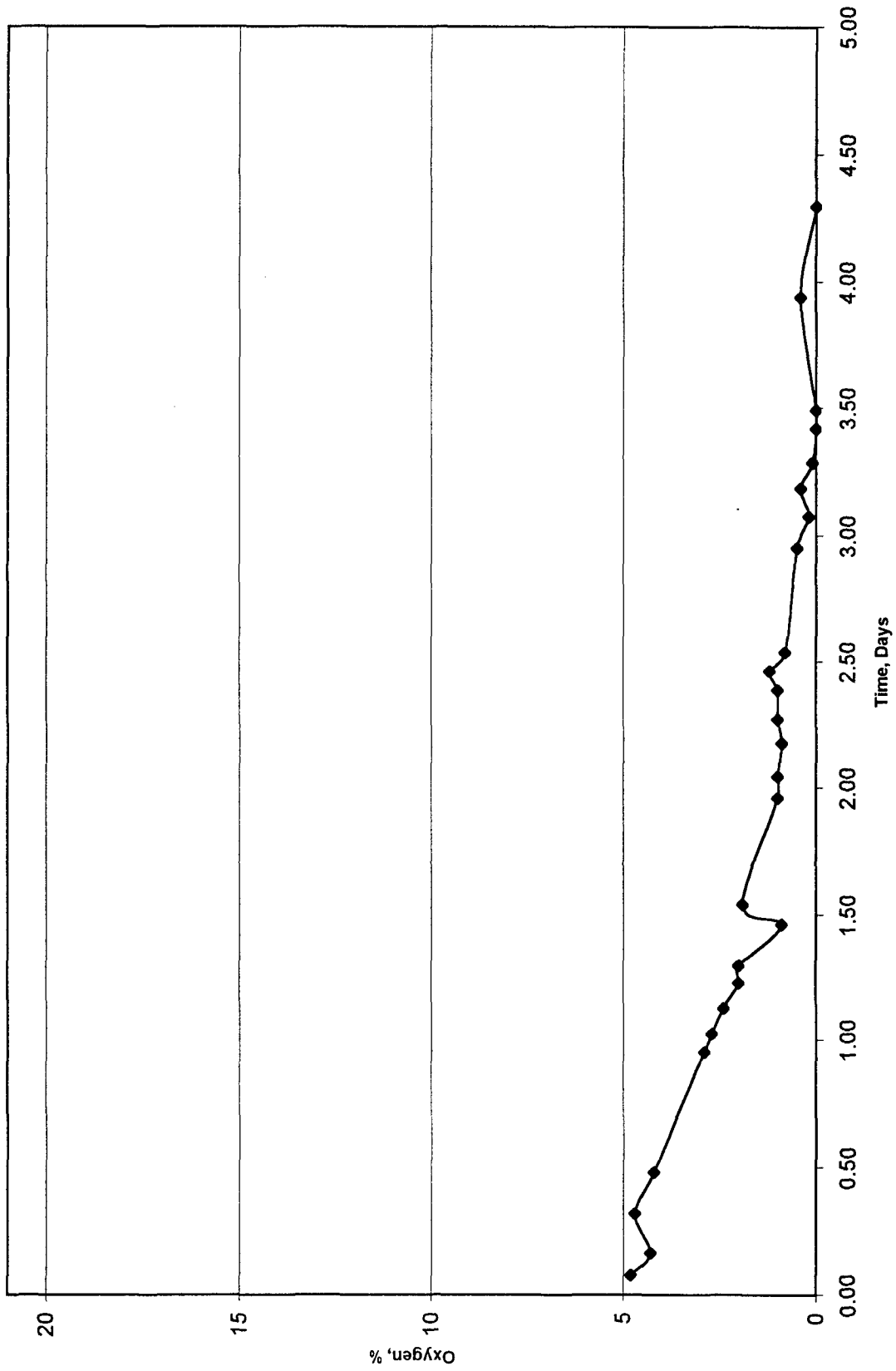
April 1998

August 1998

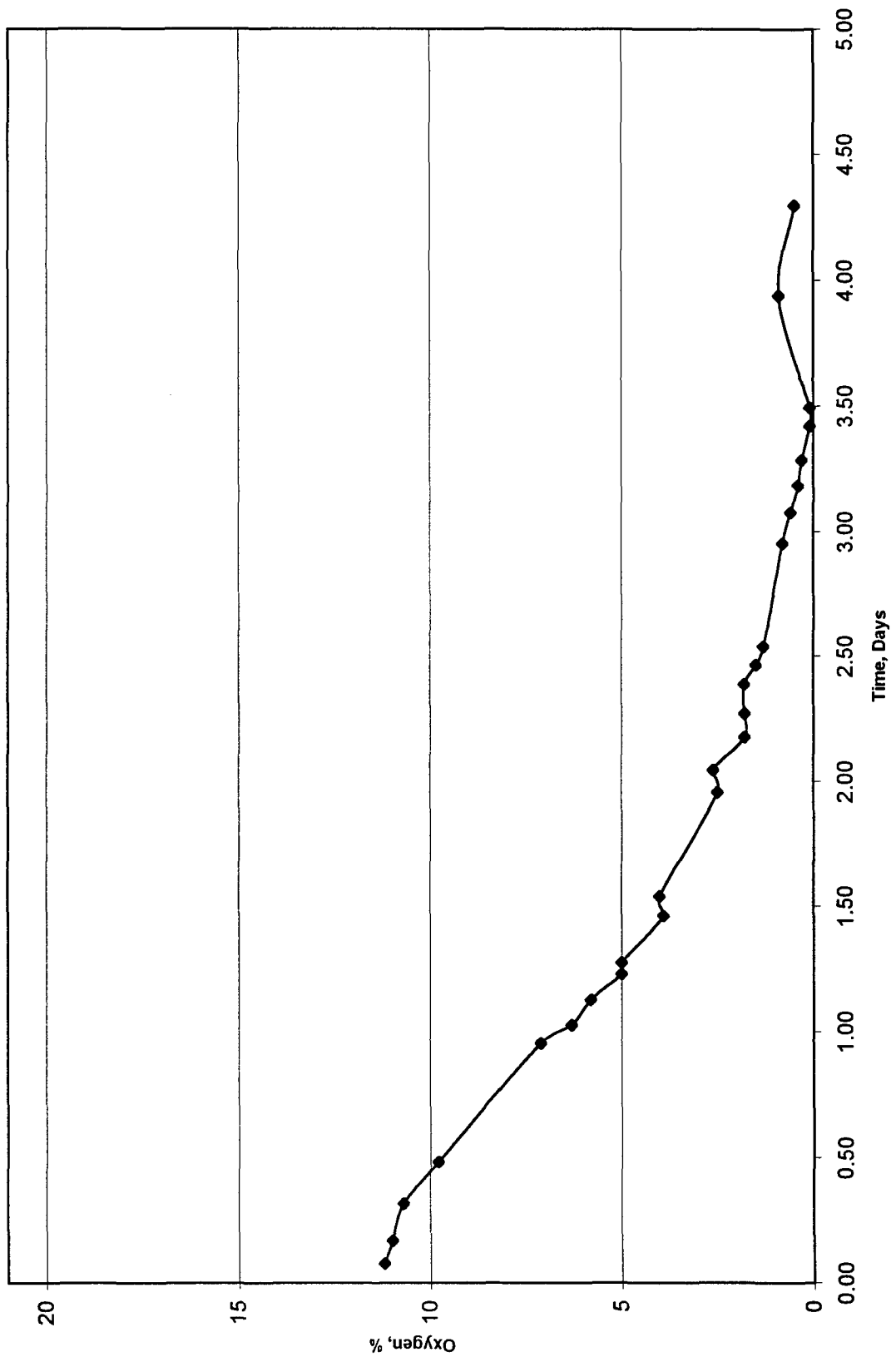
**OXYGEN UTILIZATION PLOTS
MONITORED BY
MANUAL METHOD
DURING RESPIRATION TESTING**

July 1997

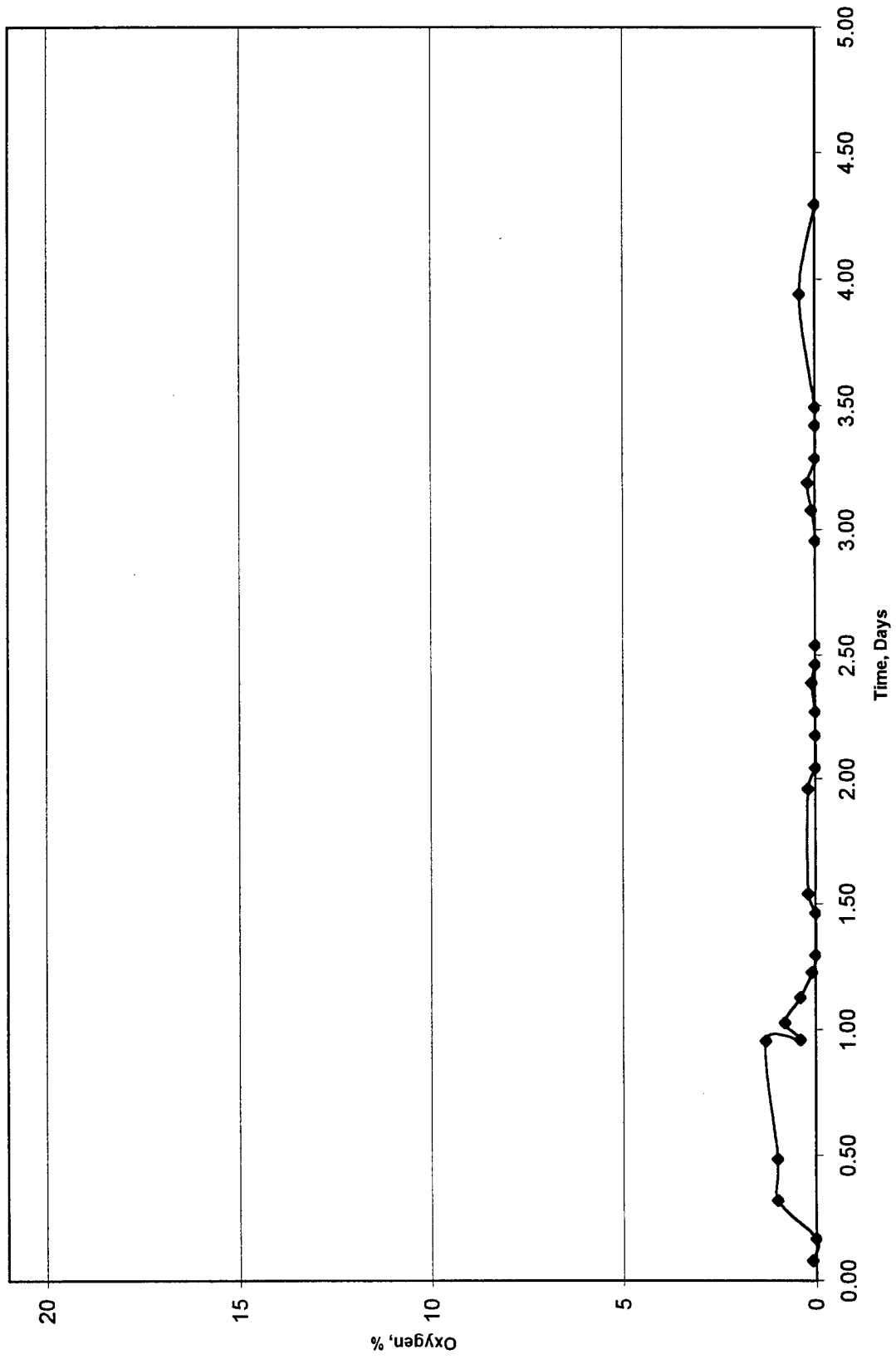
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Hill AFB, UT Manual Method July 97 Respiration Test

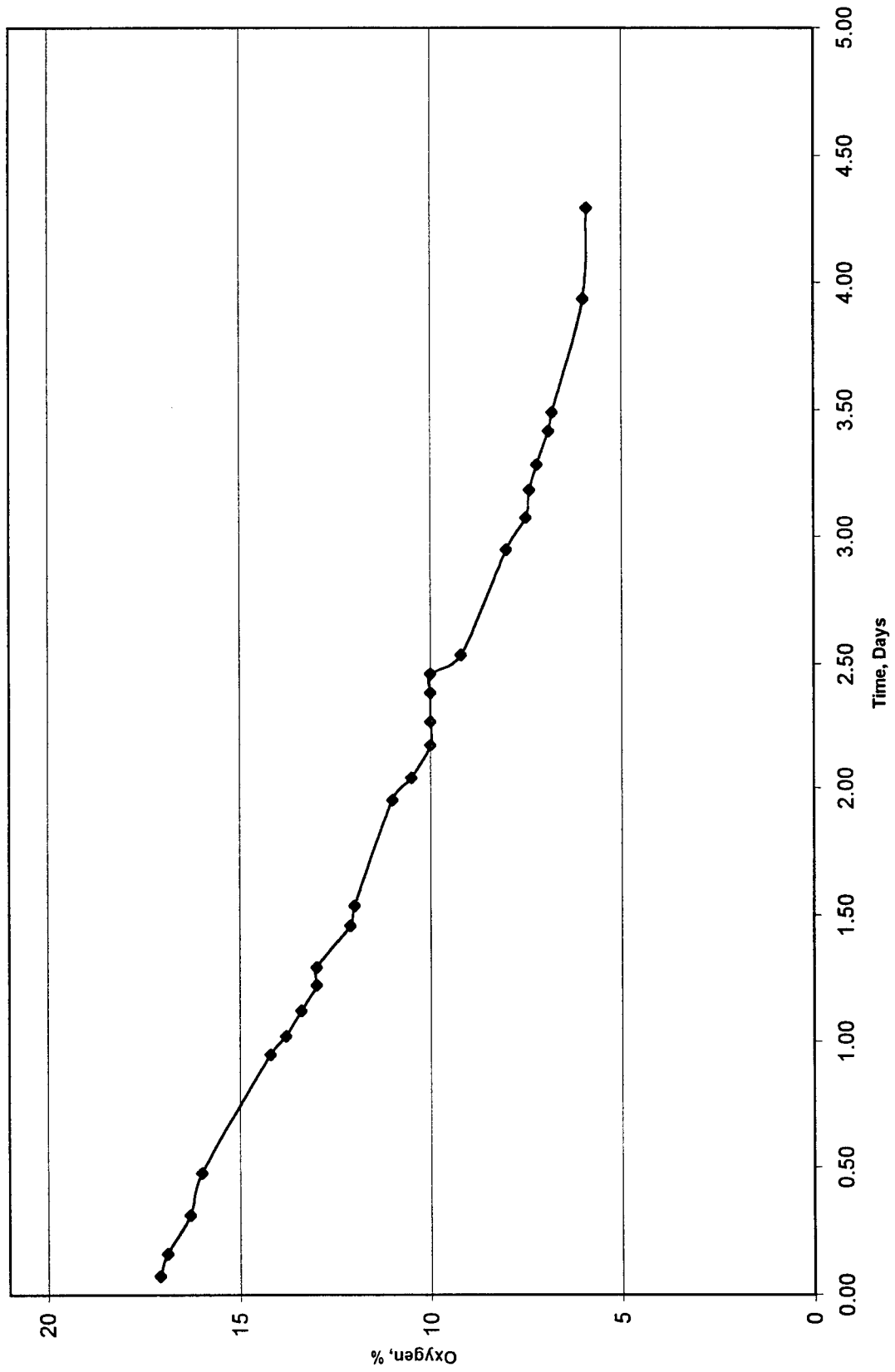


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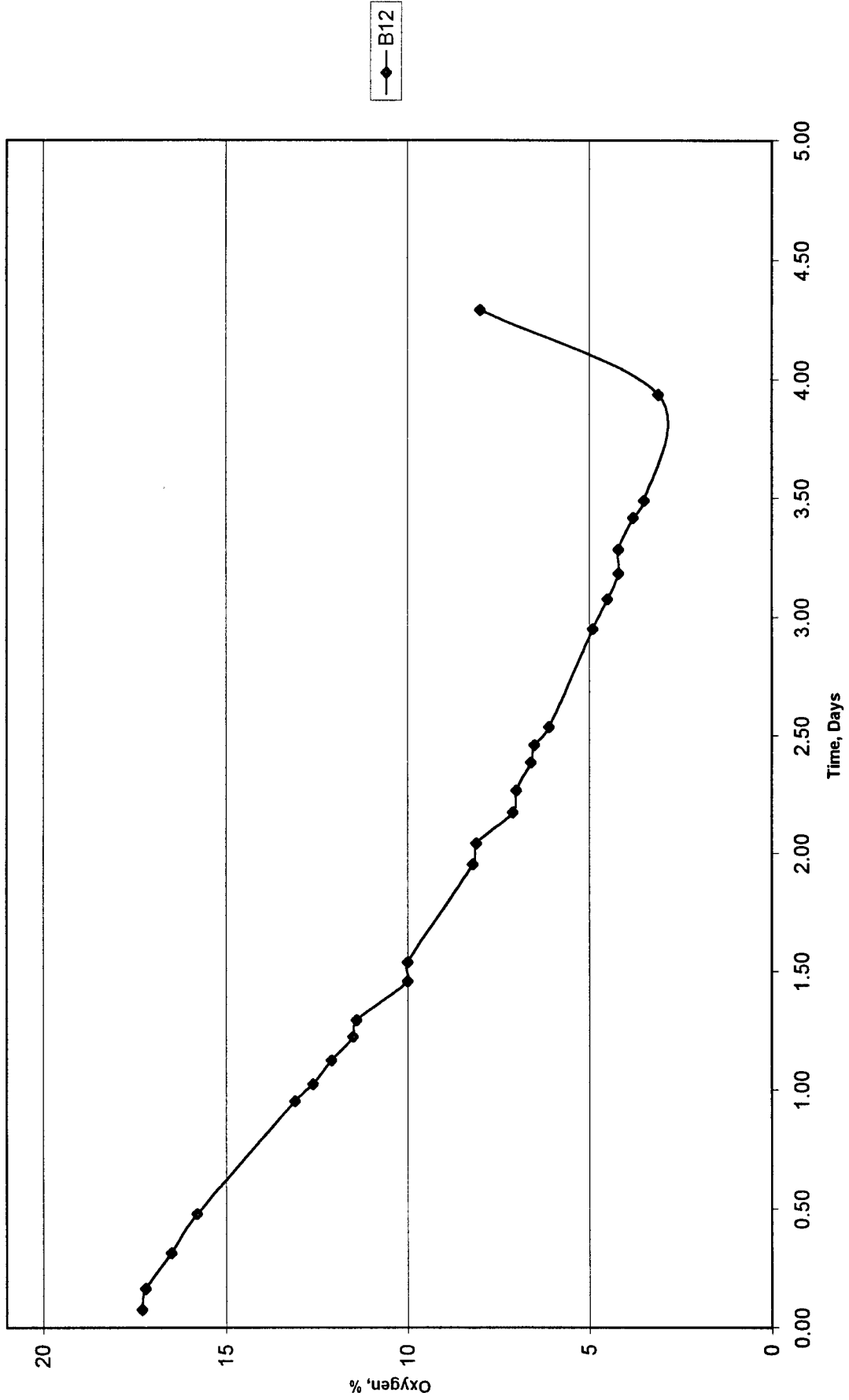


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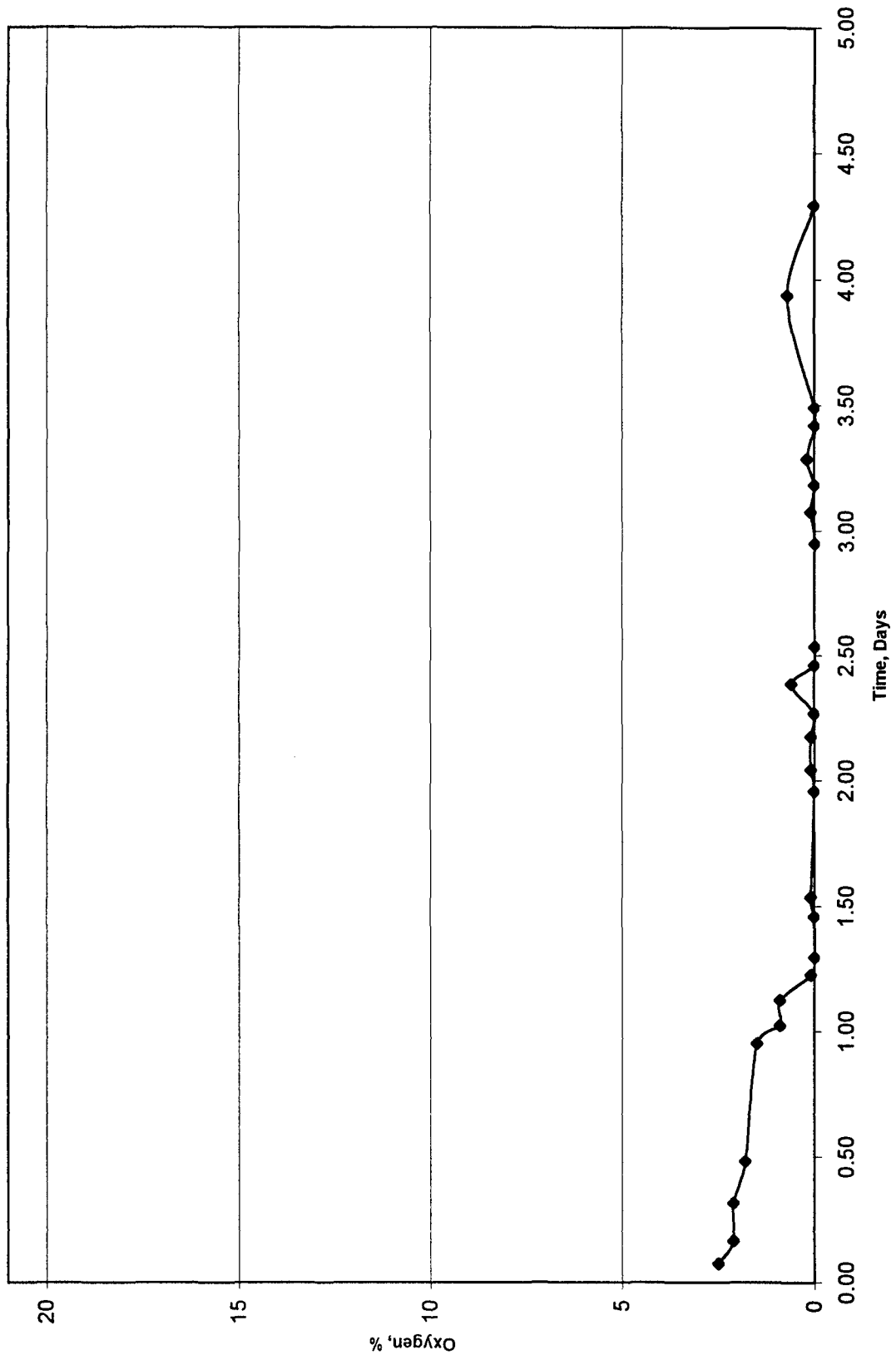
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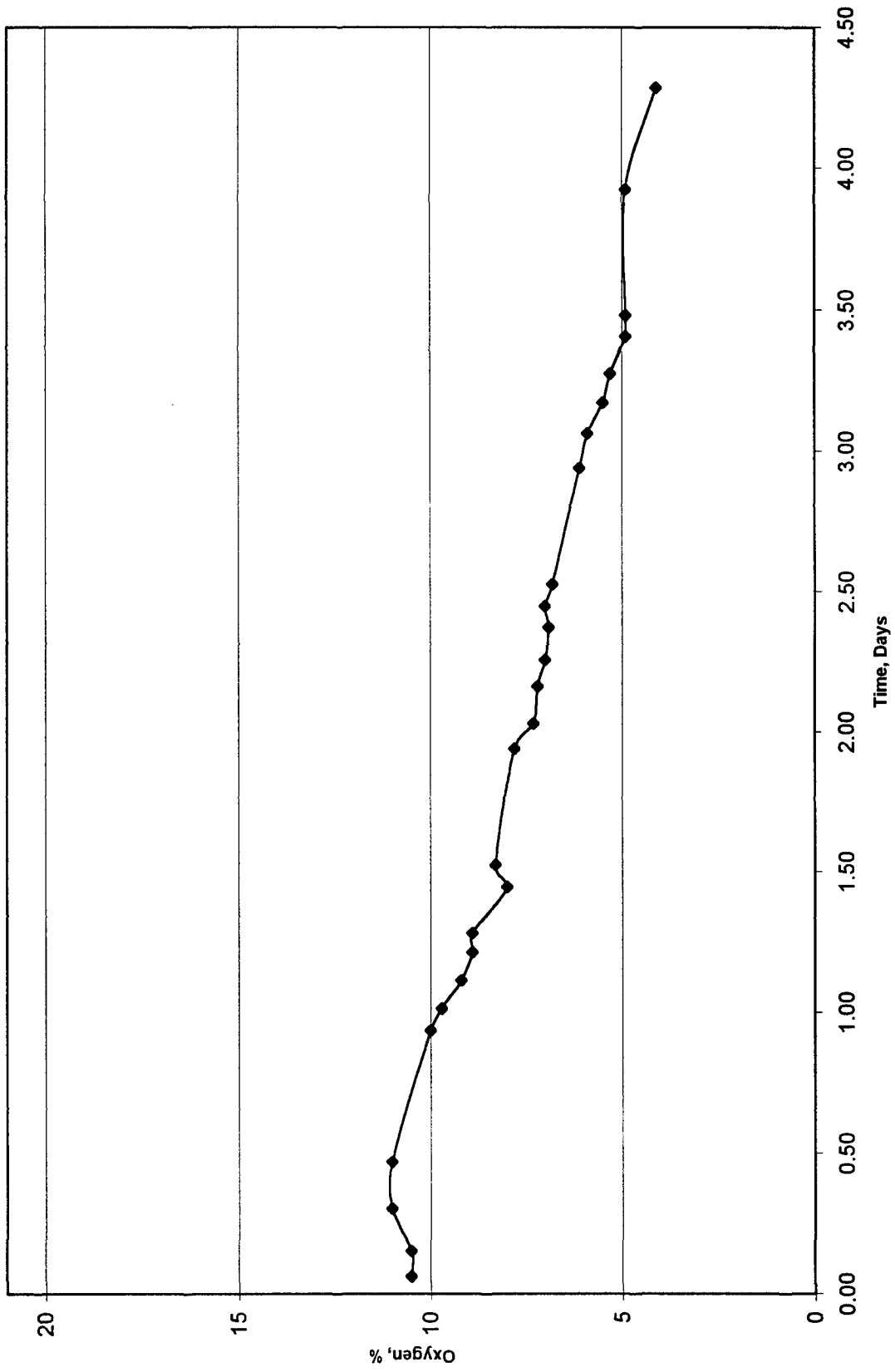
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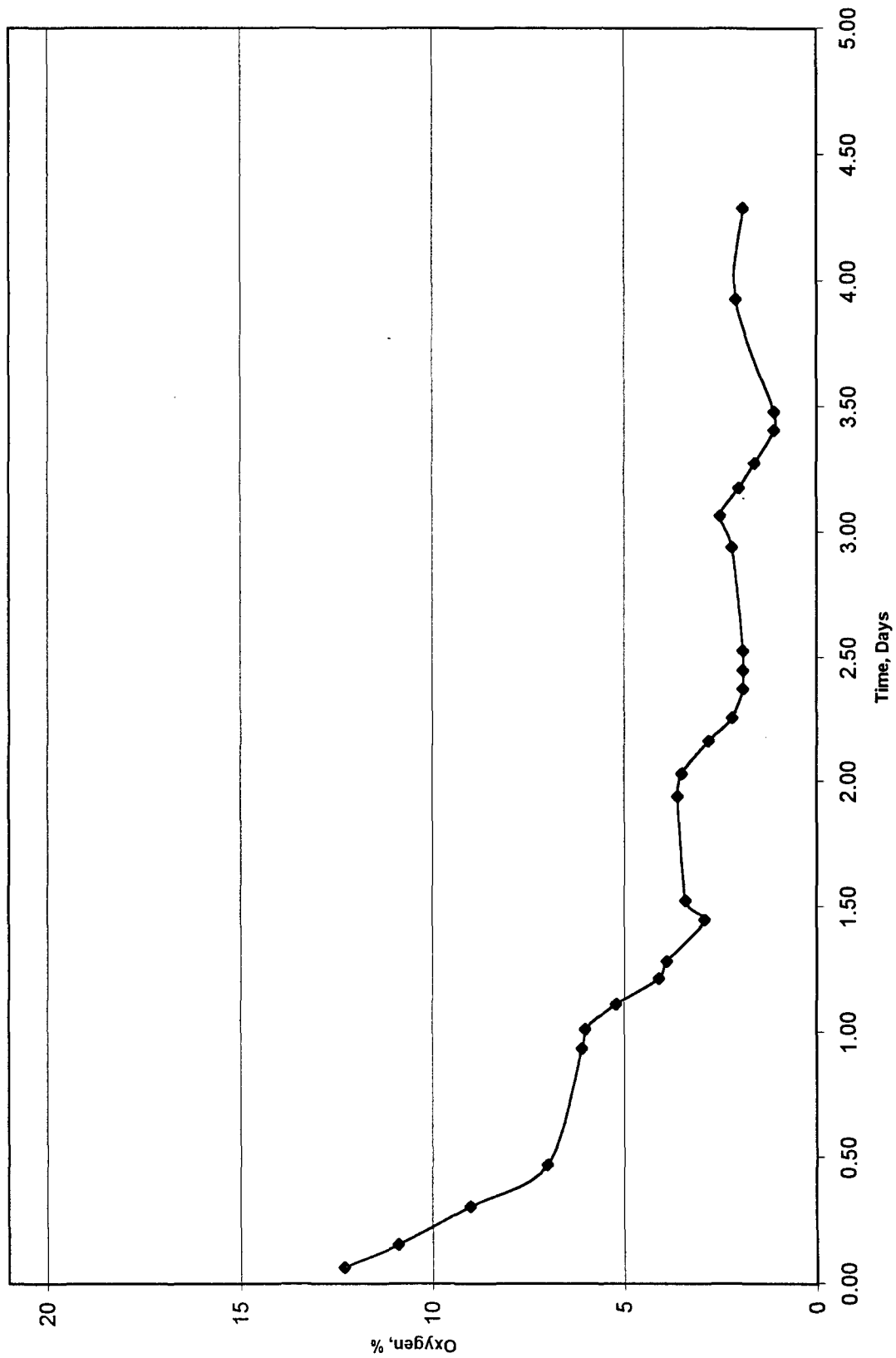
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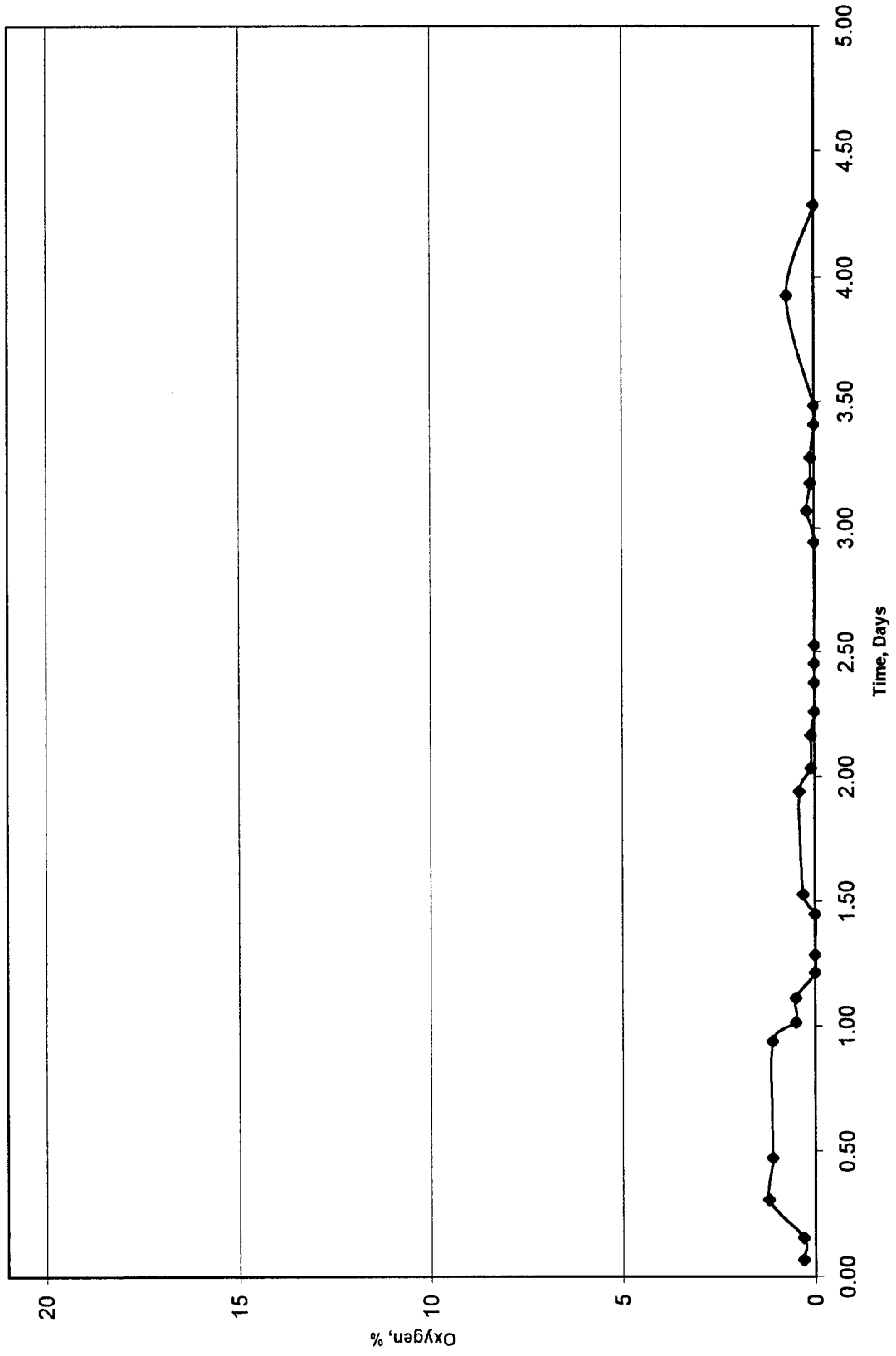
Hill AFB, UT Manual Method July 97 Respiration Test



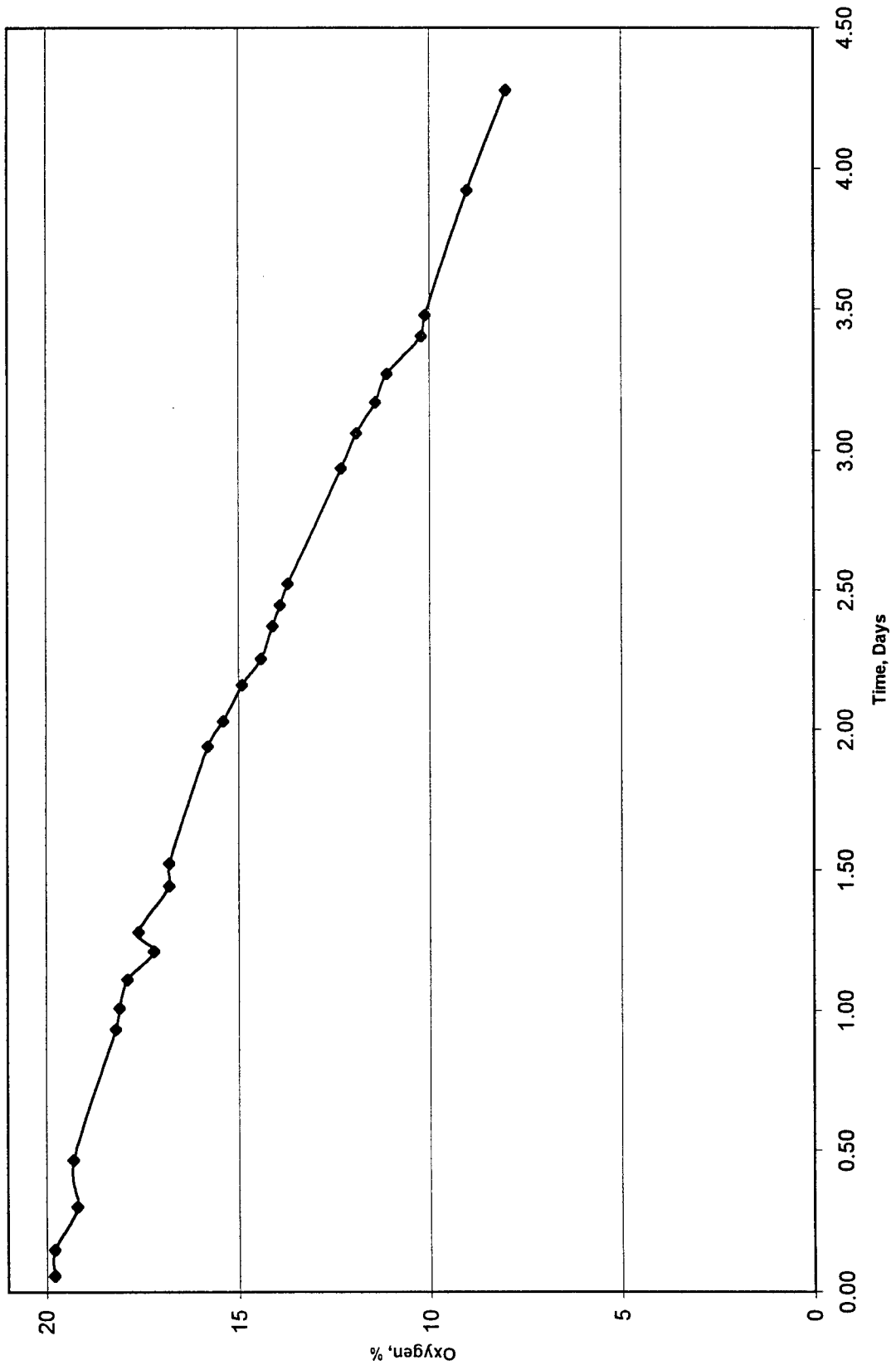
Hill AFB, UT Manual Method July 97 Respiration Test



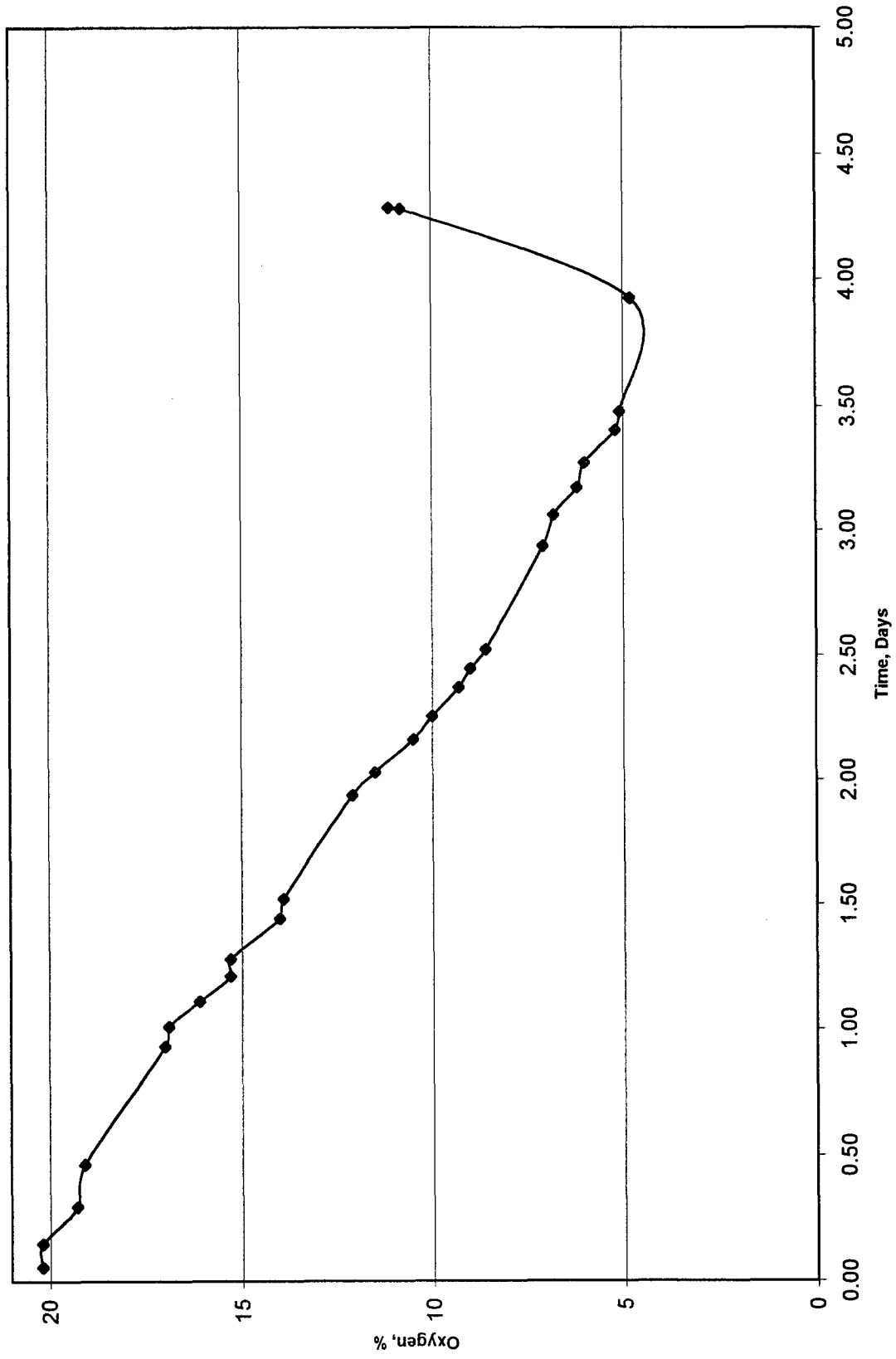
Hill AFB, UT Manual Method July 97 Respiration Test



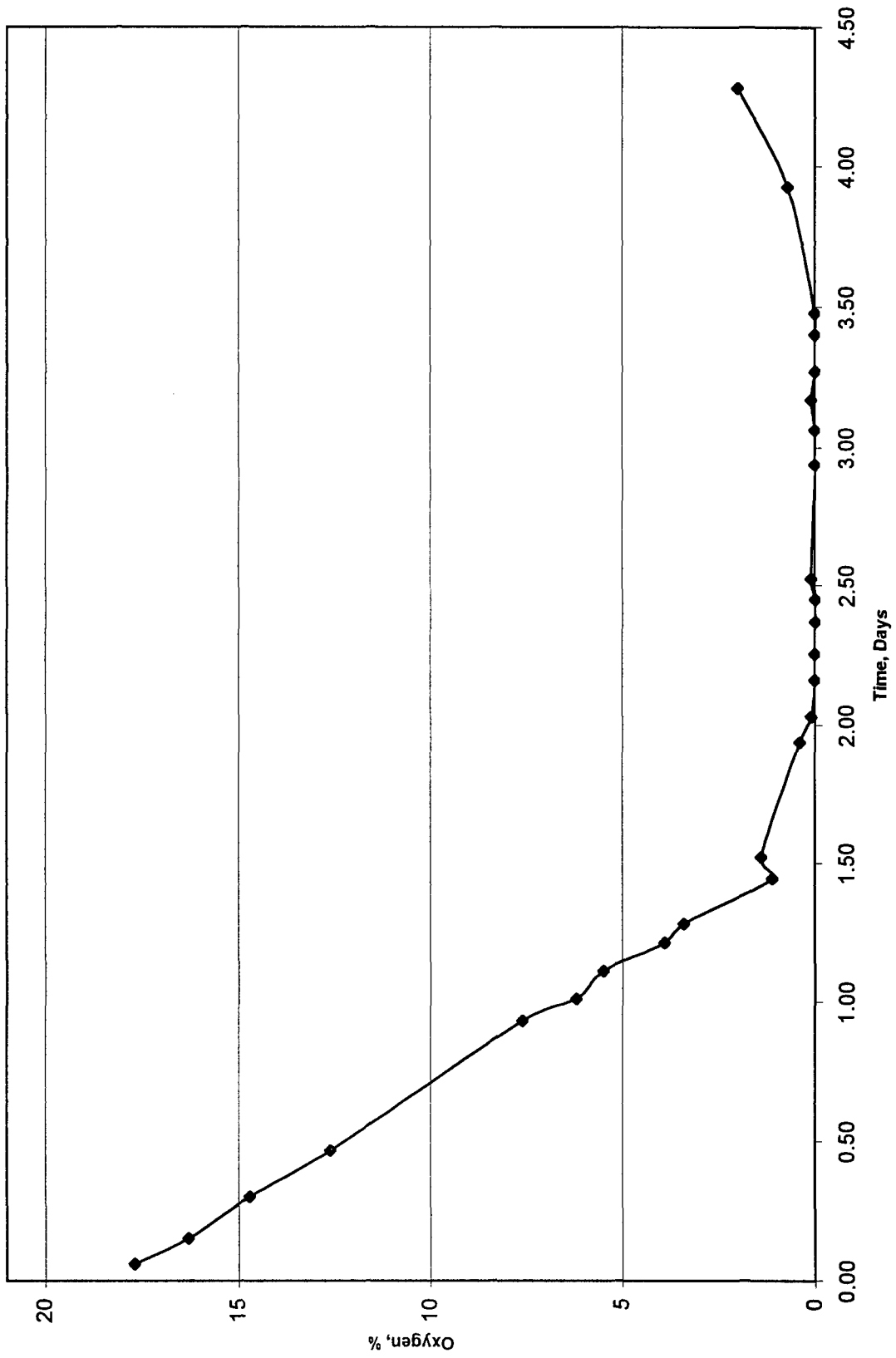
Hill AFB, UT Manual Method July 97 Respiration Test



Hill AFB, UT Manual Method July 97 Respiration Test

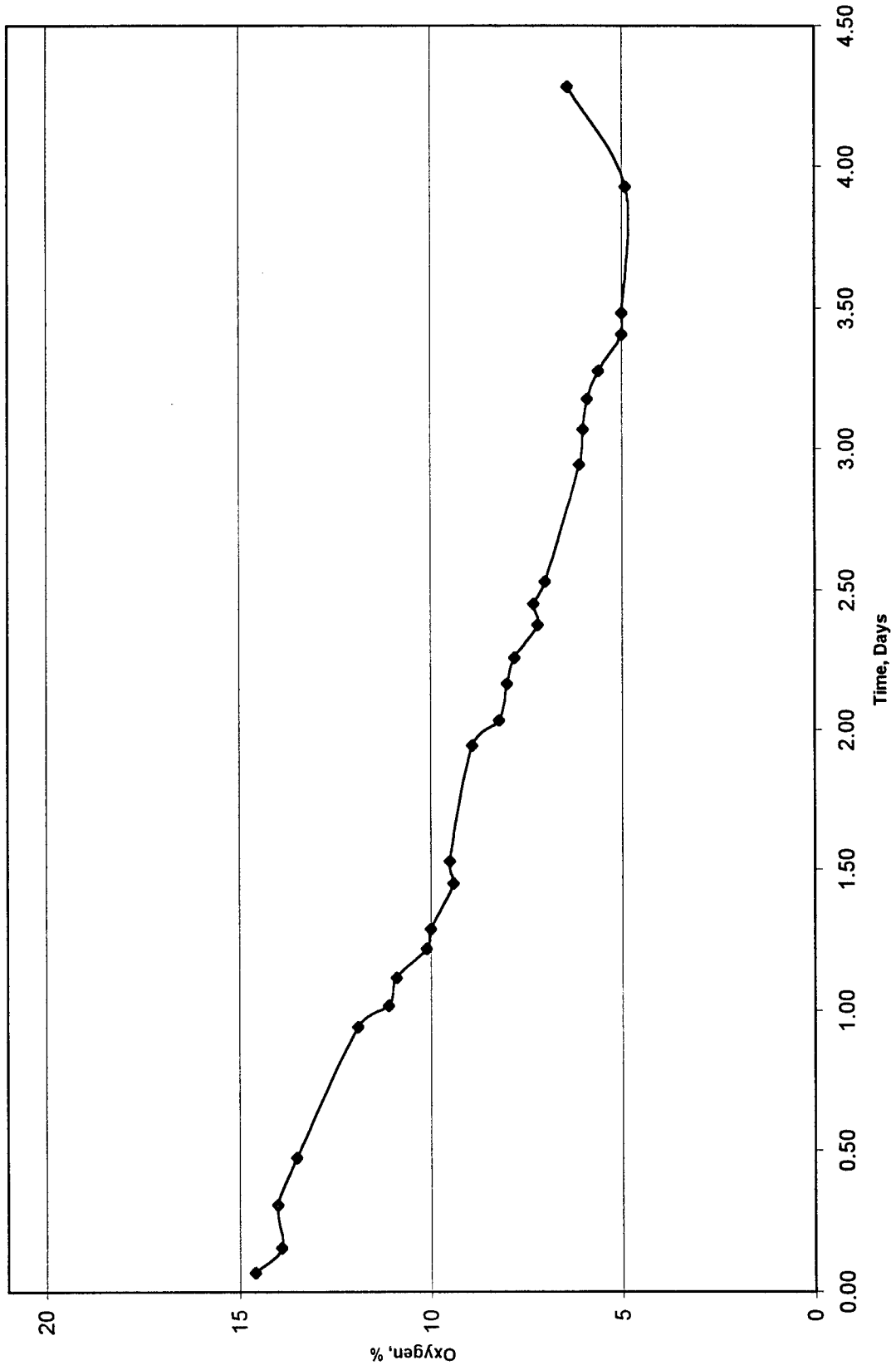


Hill AFB, UT Manual Method July 97 Respiration Test



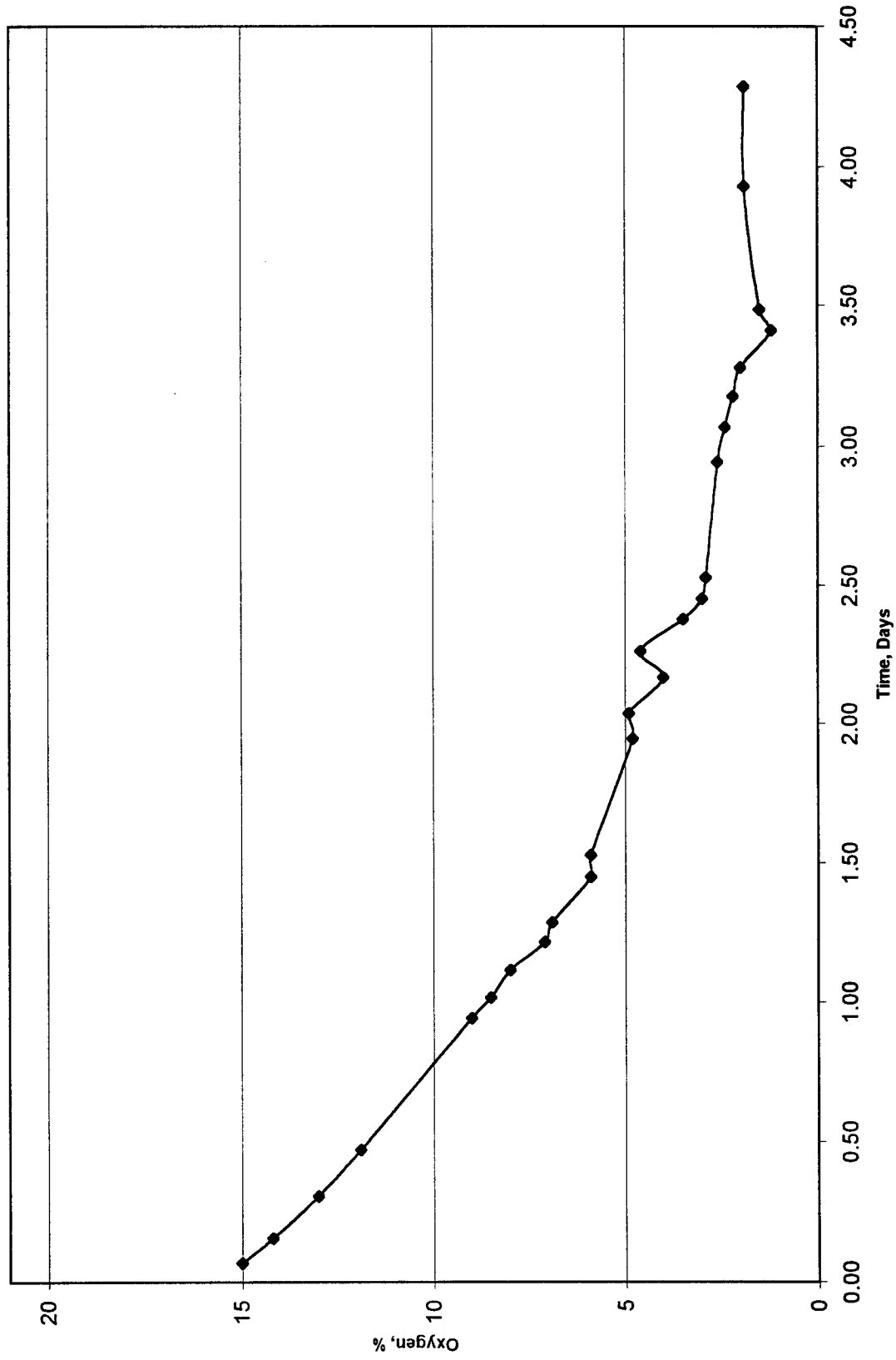
D17

Hill AFB, UT Manual Method July 97 Respiration Test

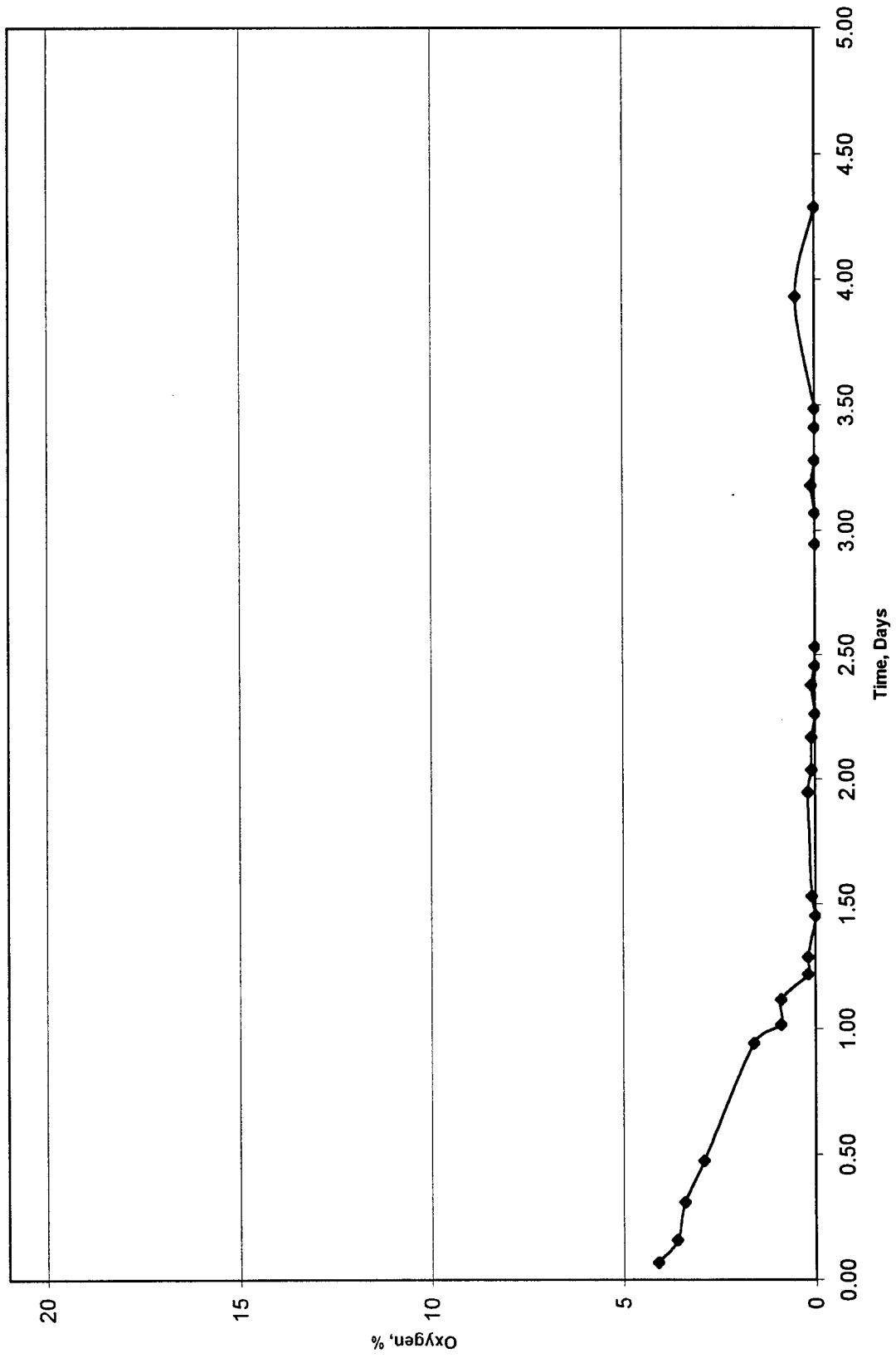


E7

Hill AFB, UT Manual Method July 97 Respiration Test

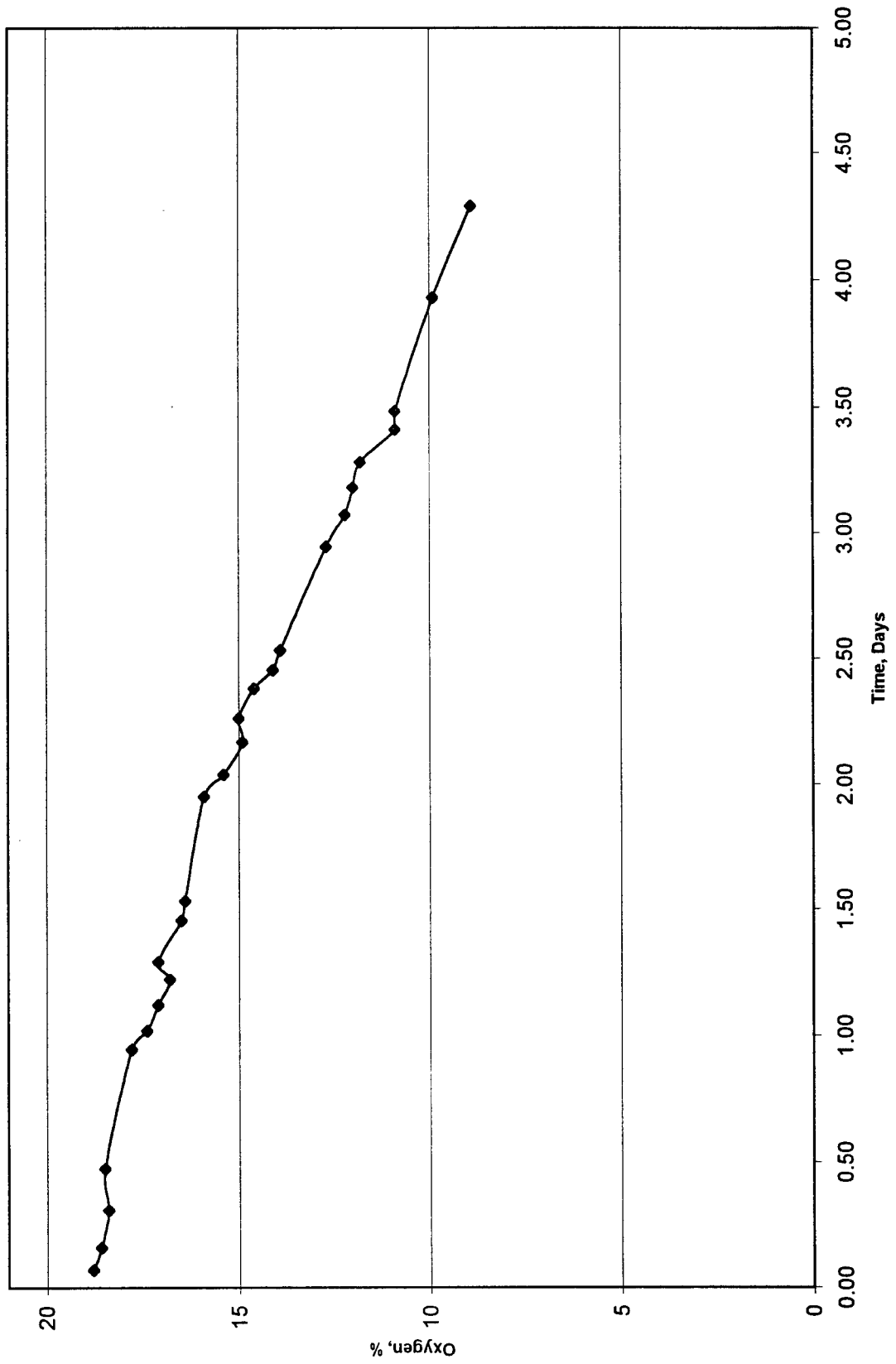


Hill AFB, UT Manual Method July 97 Respiration Test

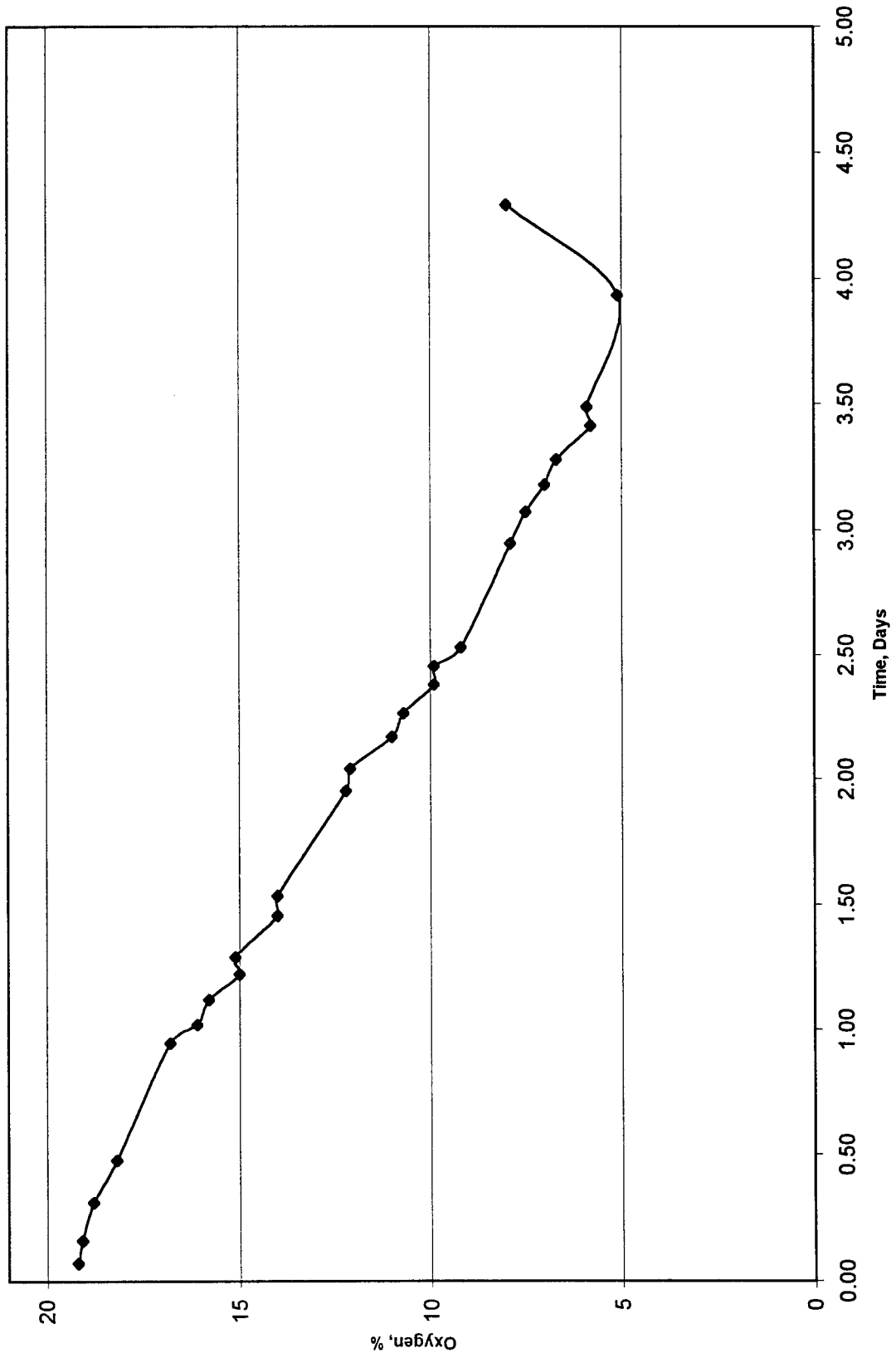


E17

Hill AFB, UT Manual Method July 97 Respiration Test

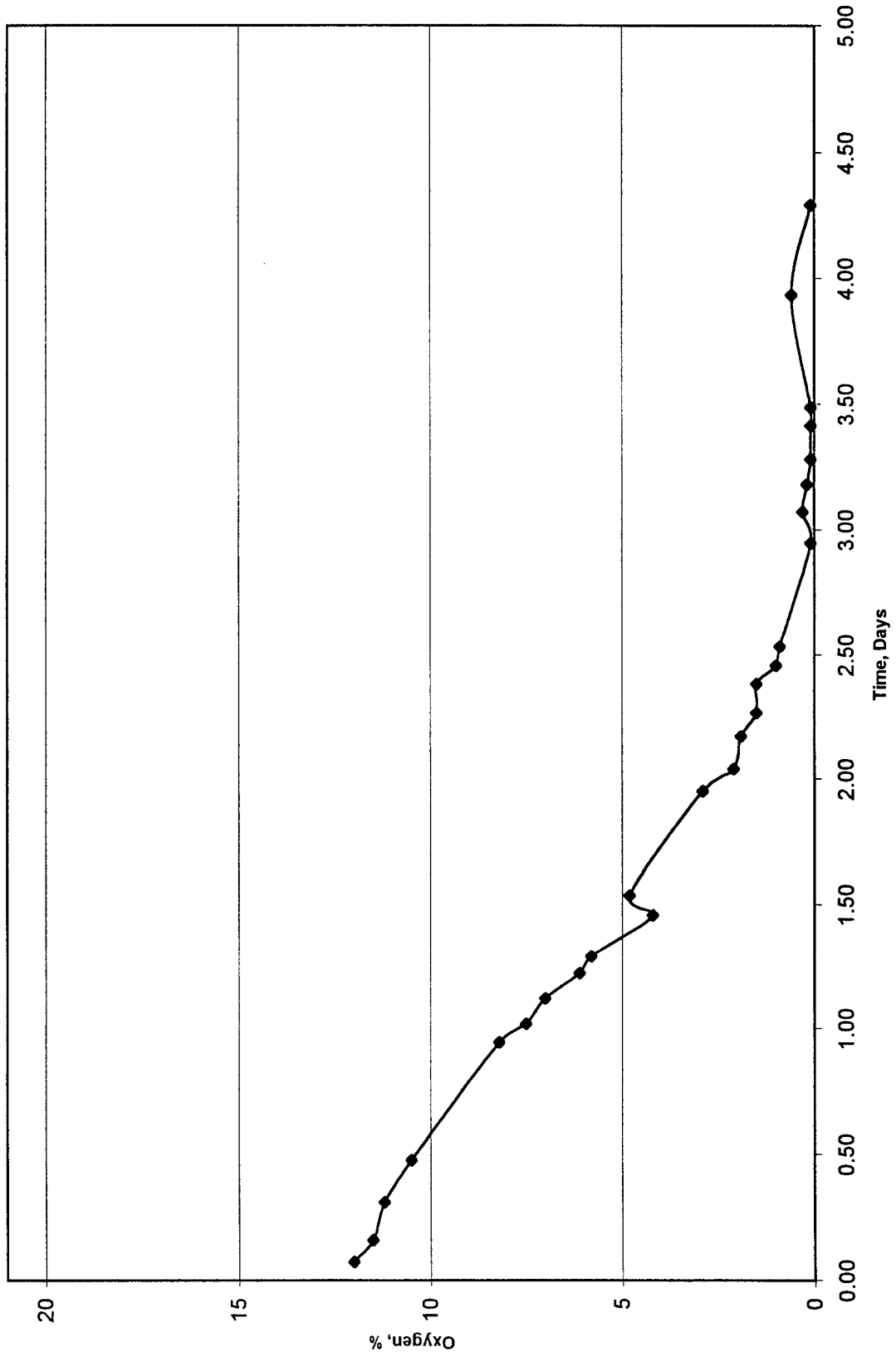


Hill AFB, UT Manual Method July 97 Respiration Test

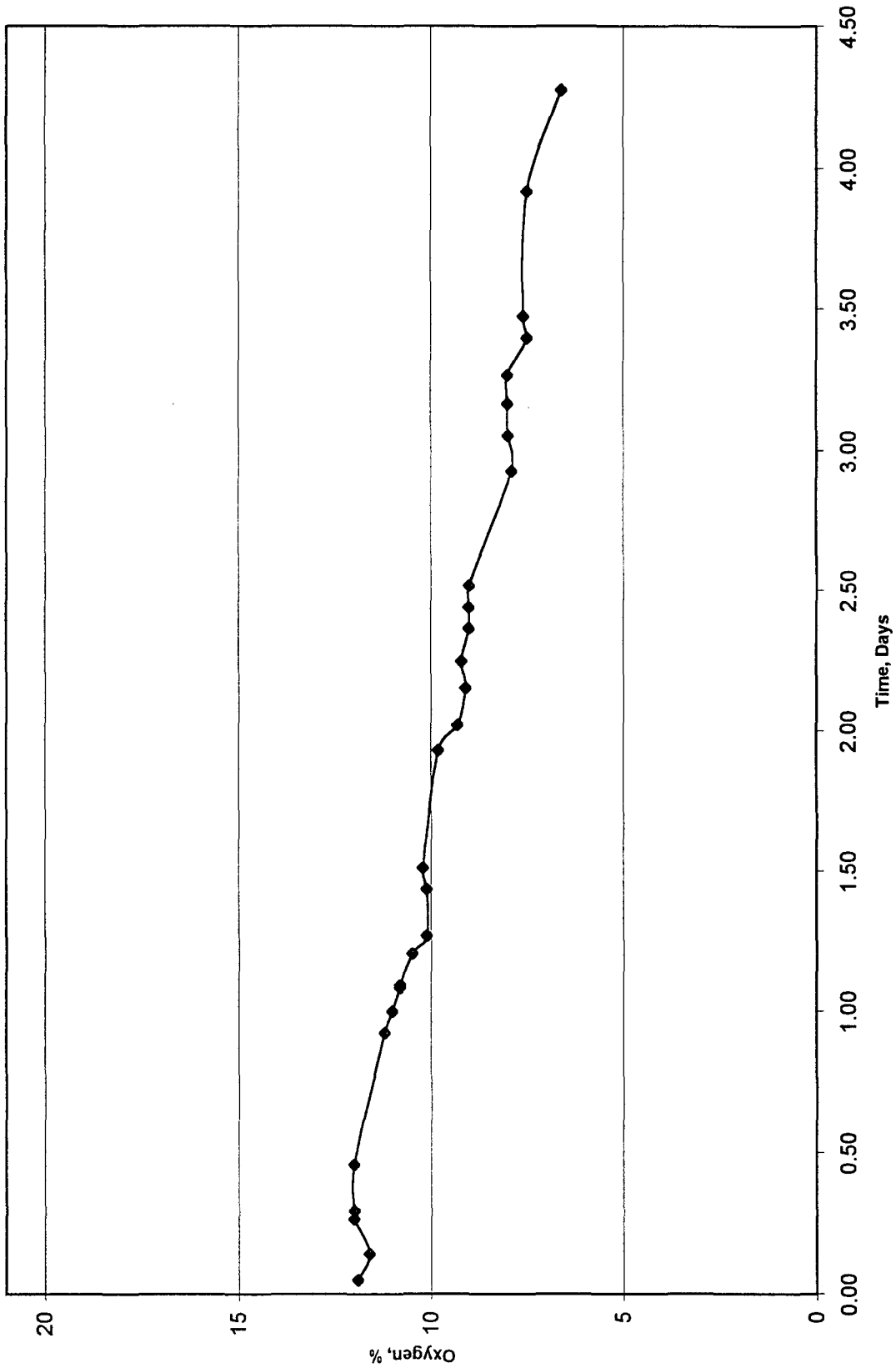


F12

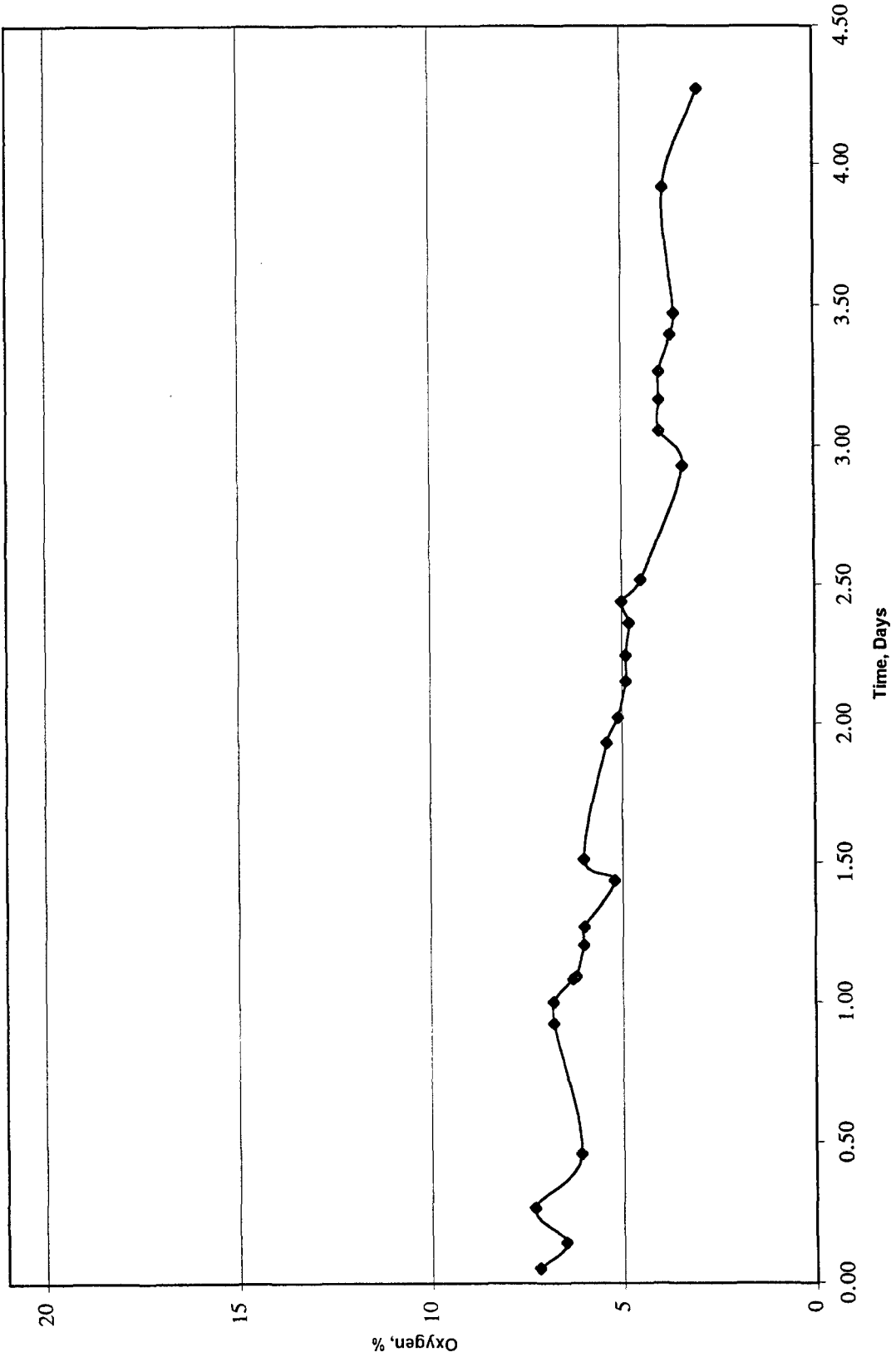
Hill AFB, UT Manual Method July 97 Respiration Test



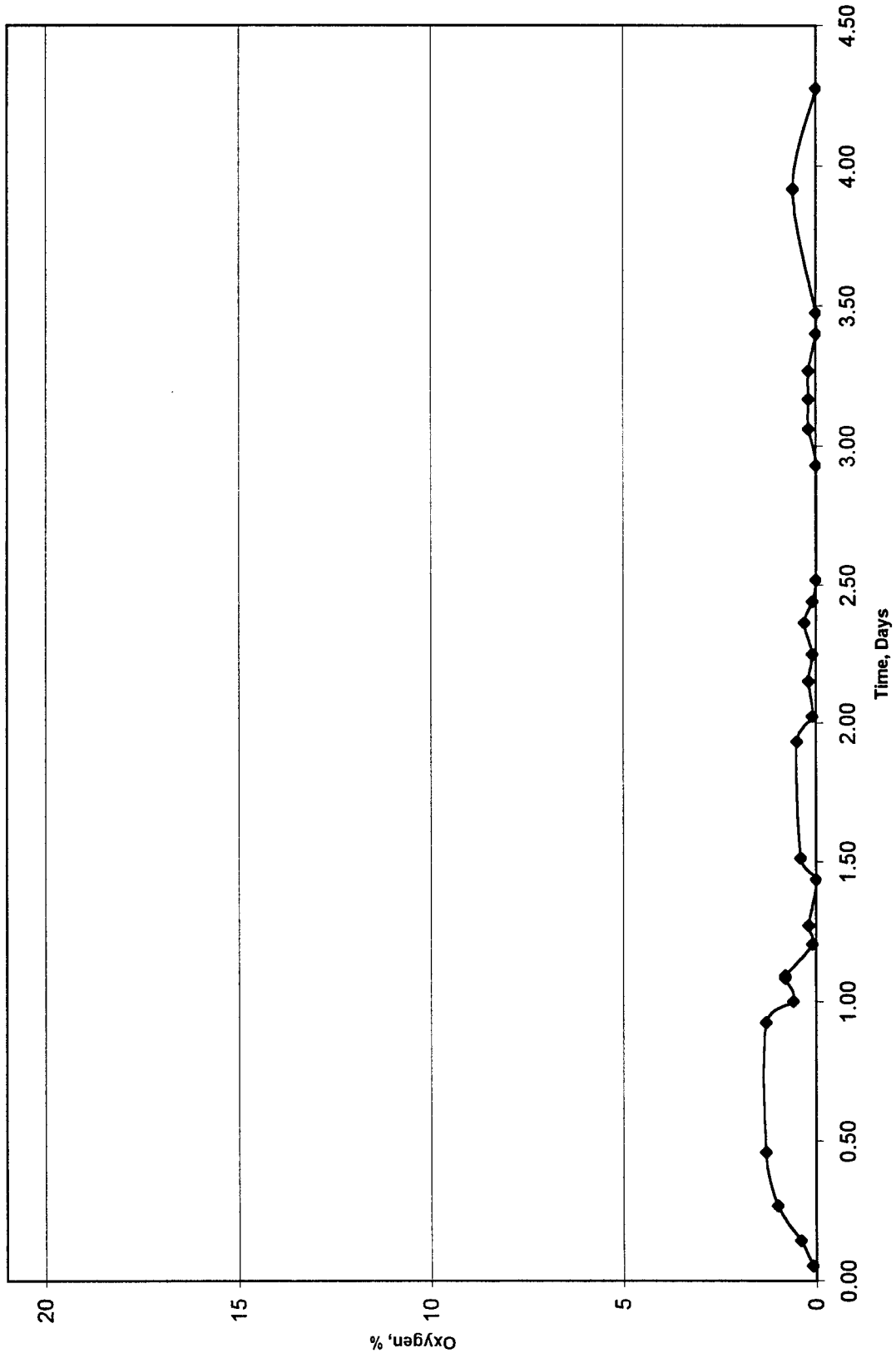
Hill AFB, UT Manual Method July 97 Respiration Test



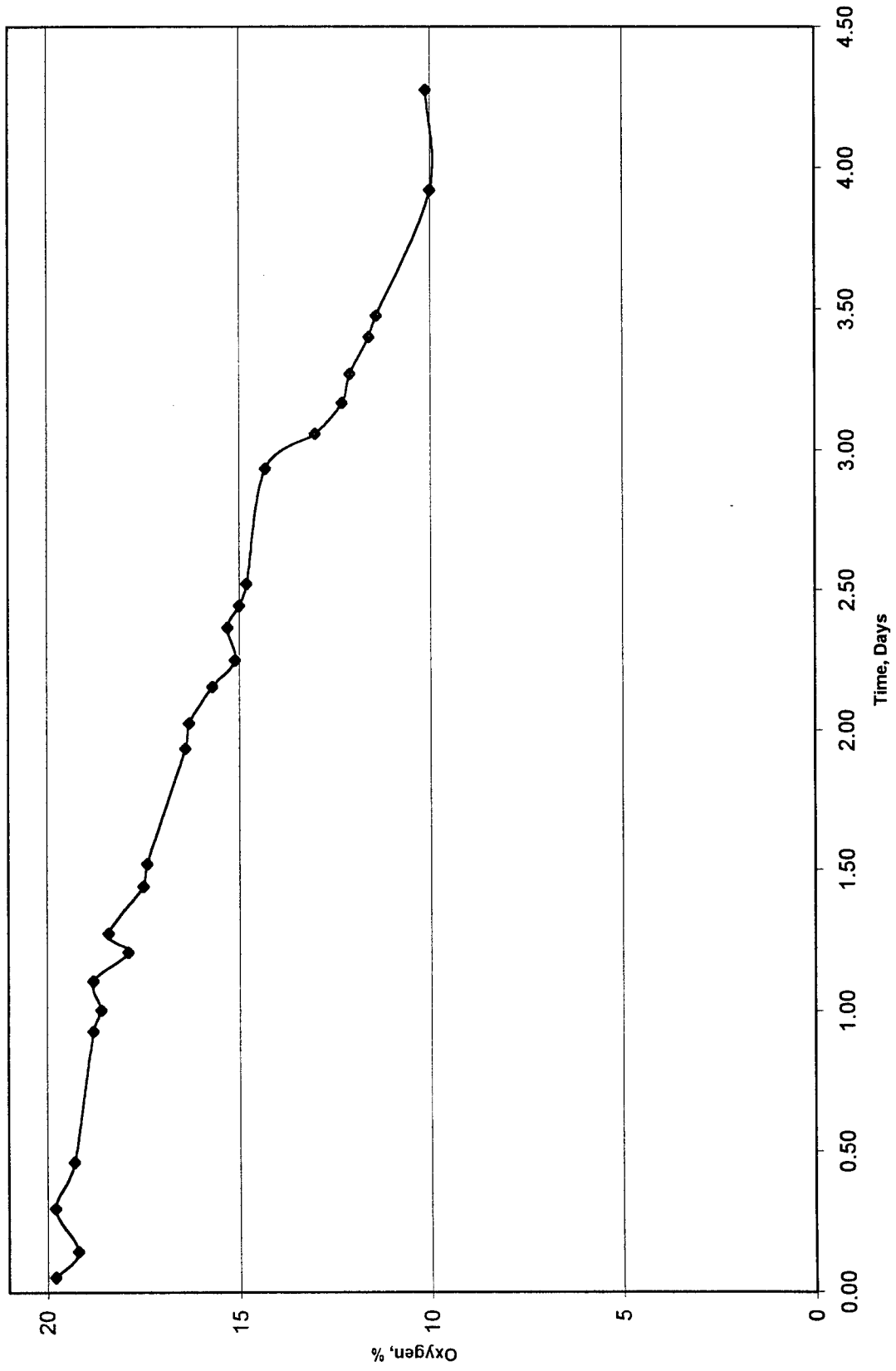
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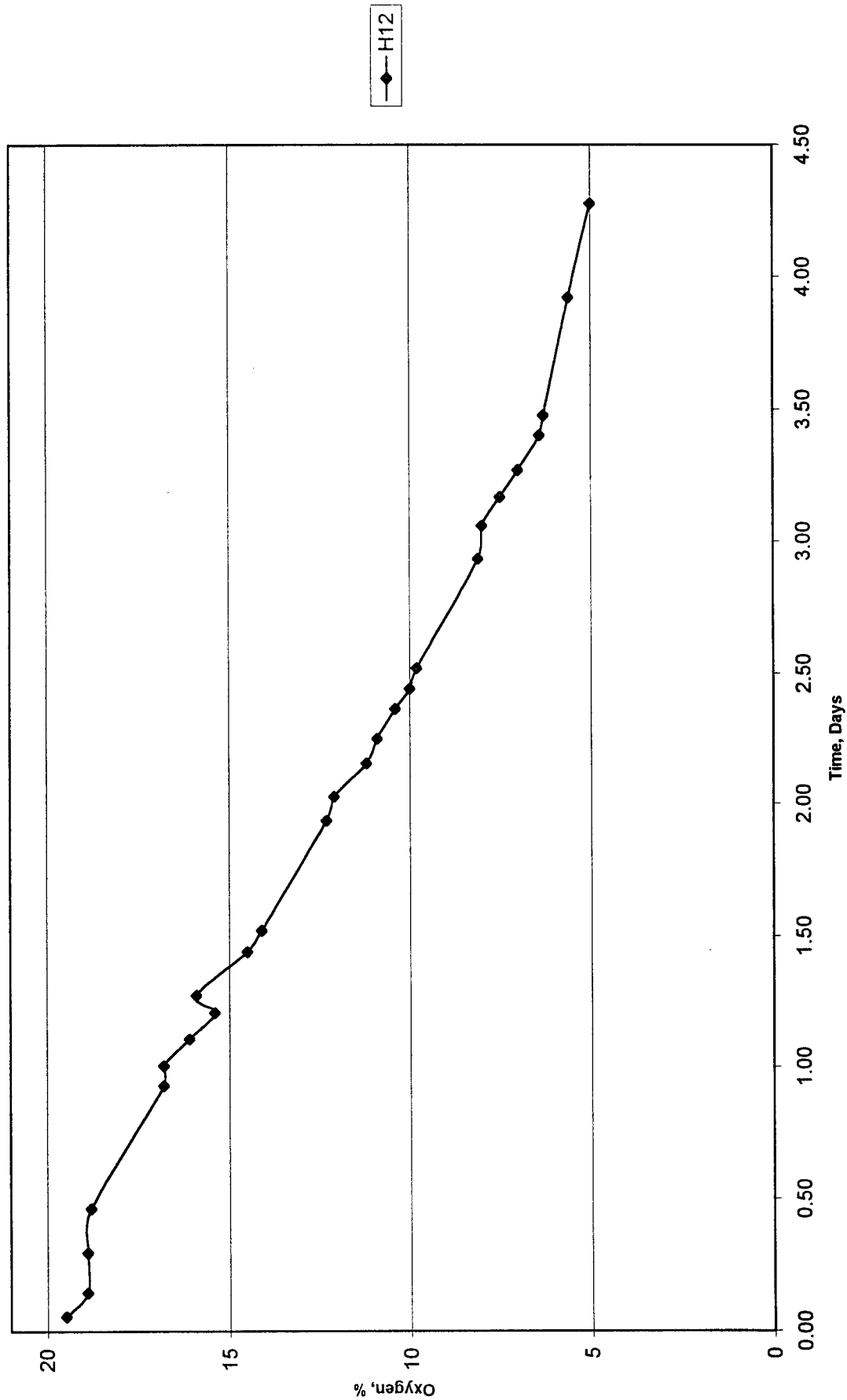
Hill AFB, UT Manual Method July 97 Respiration Test



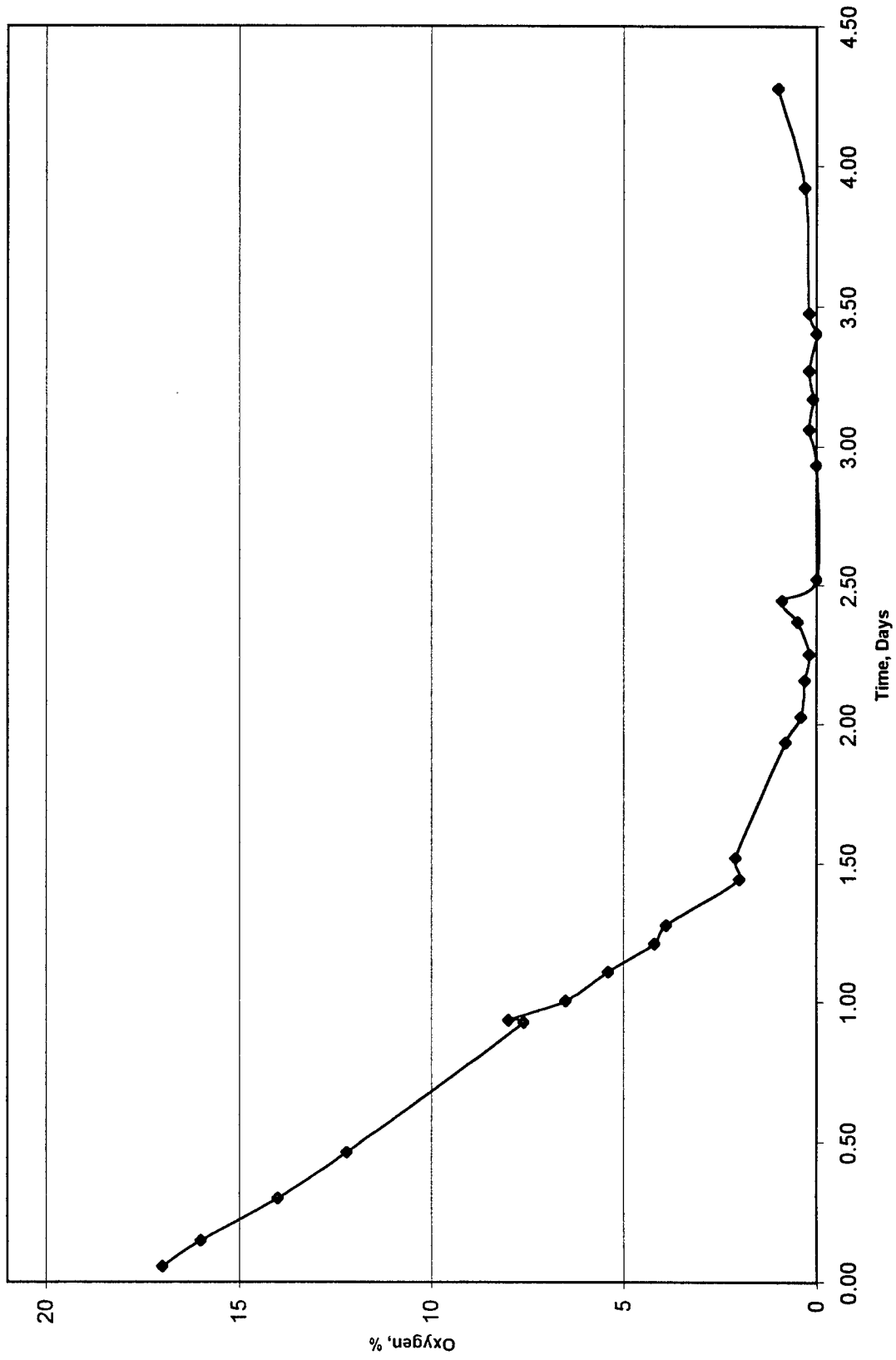
Hill AFB, UT Manual Method July 97 Respiration Test



Hill AFB, UT Manual Method July 97 Respiration Test



Hill AFB, UT Manual Method July 97 Respiration Test

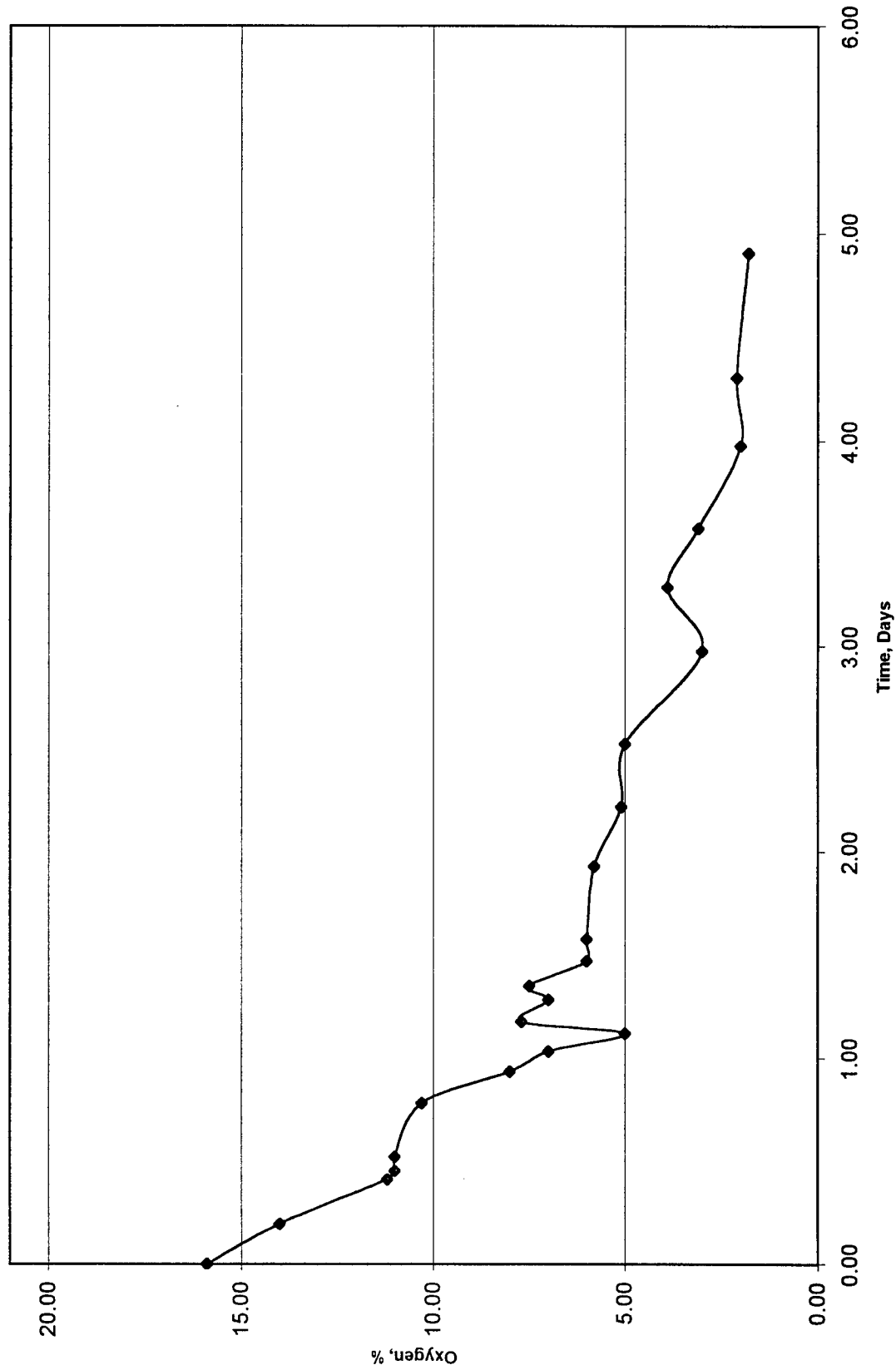


H17

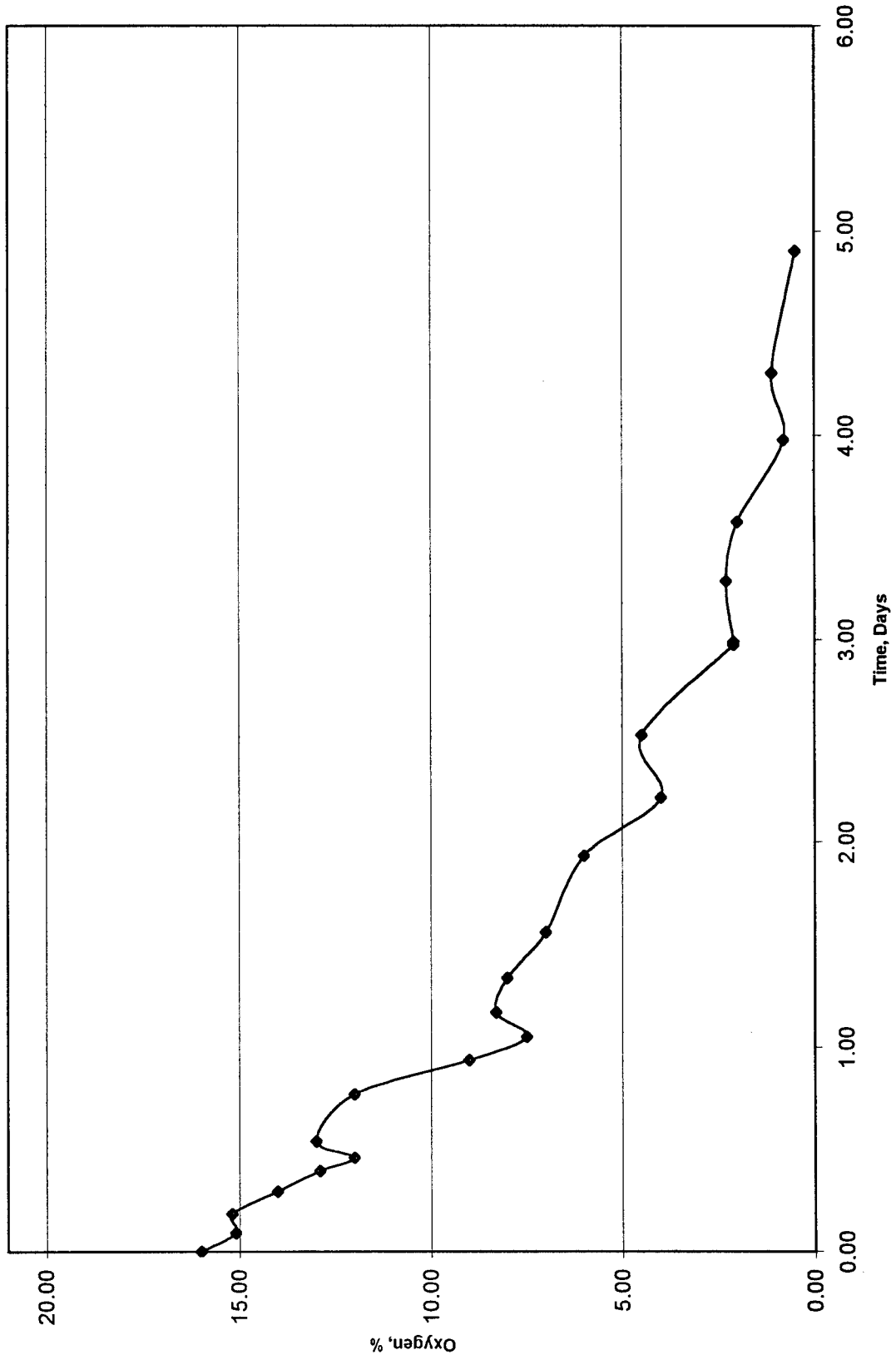
**OXYGEN UTILIZATION PLOTS
MONITORED BY
MANUAL METHOD
DURING RESPIRATION TESTING**

October 1997

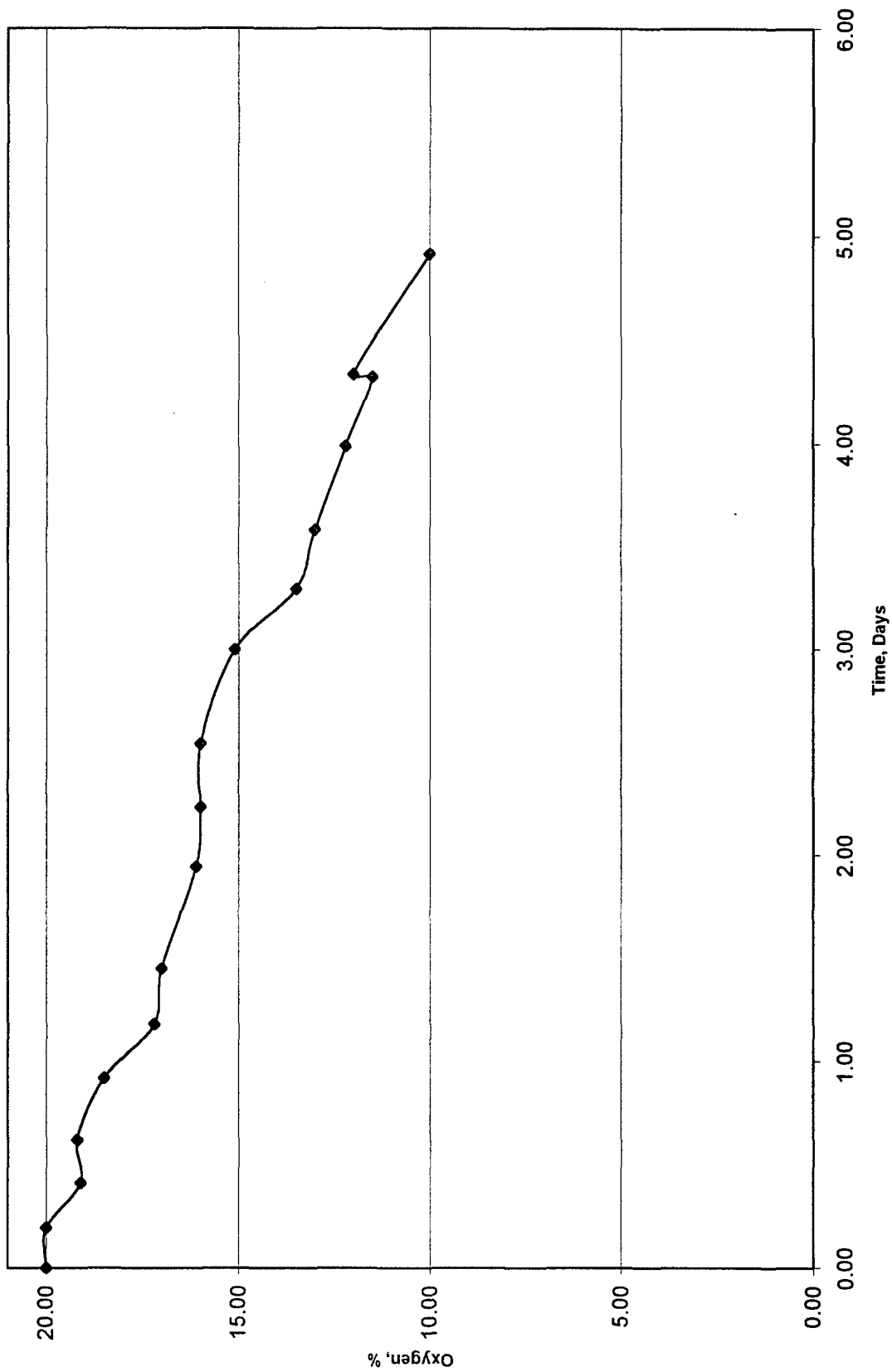
Hill AFB, UT Manual Method October 97 Respiration Test



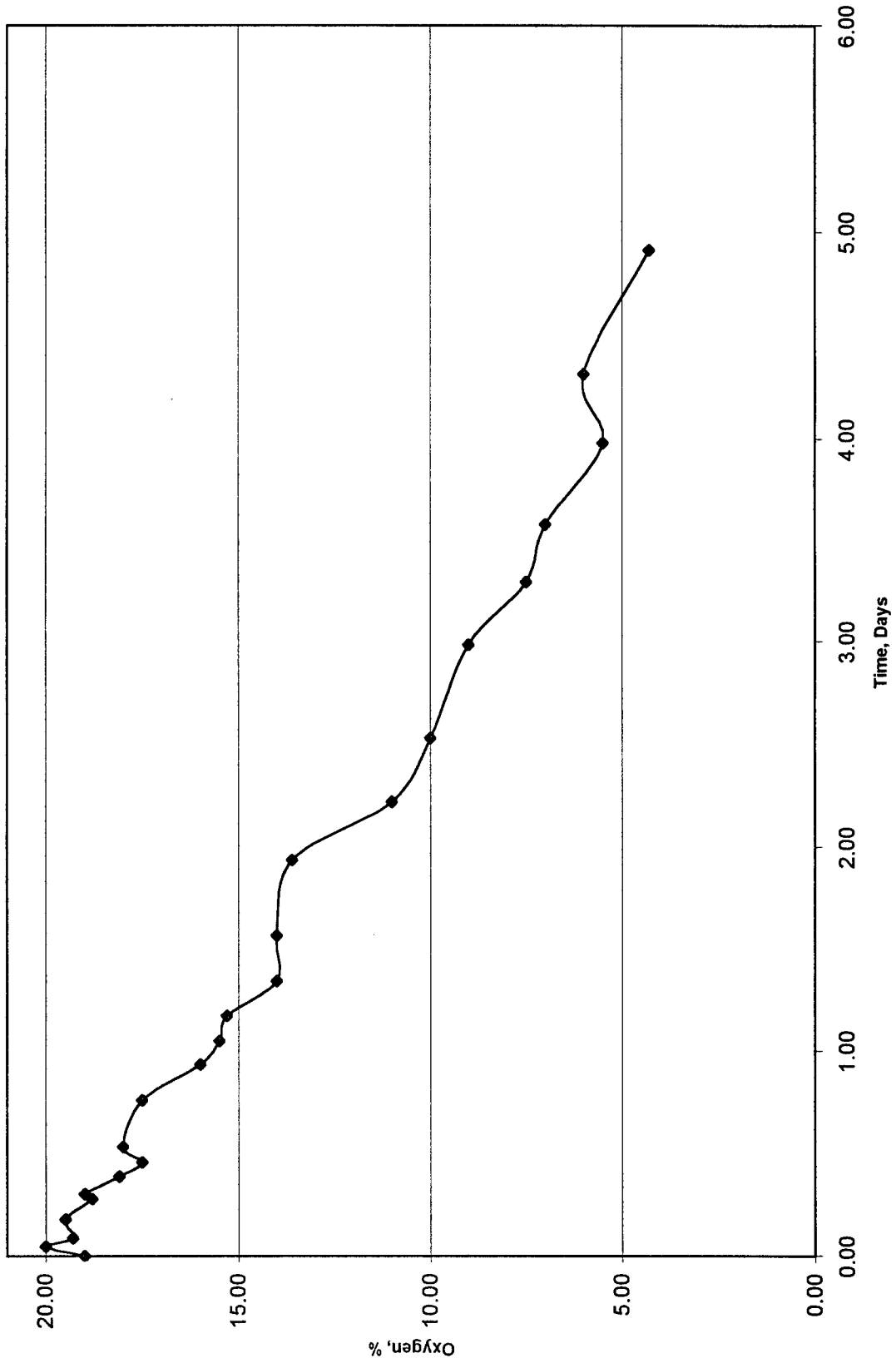
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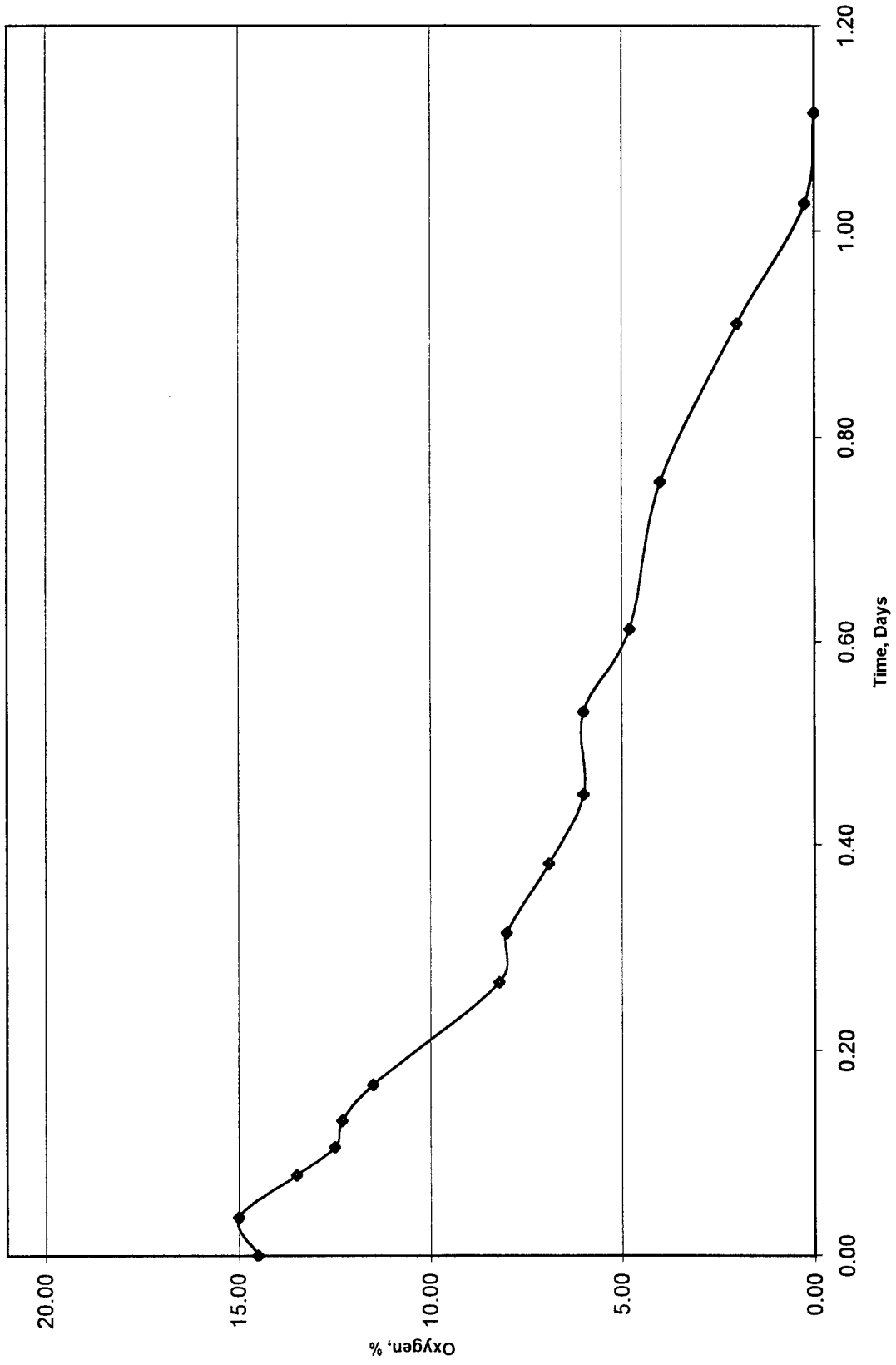
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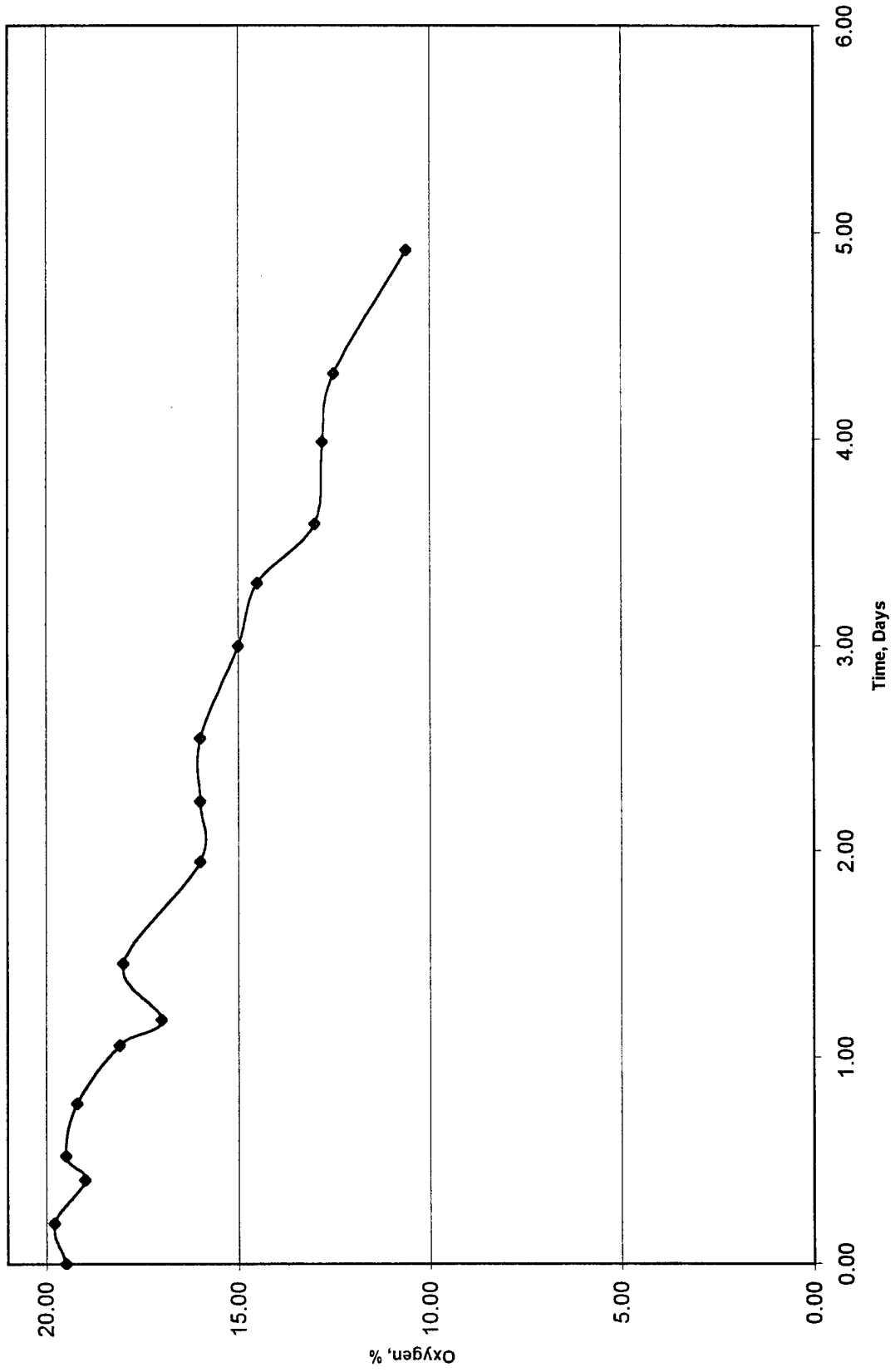
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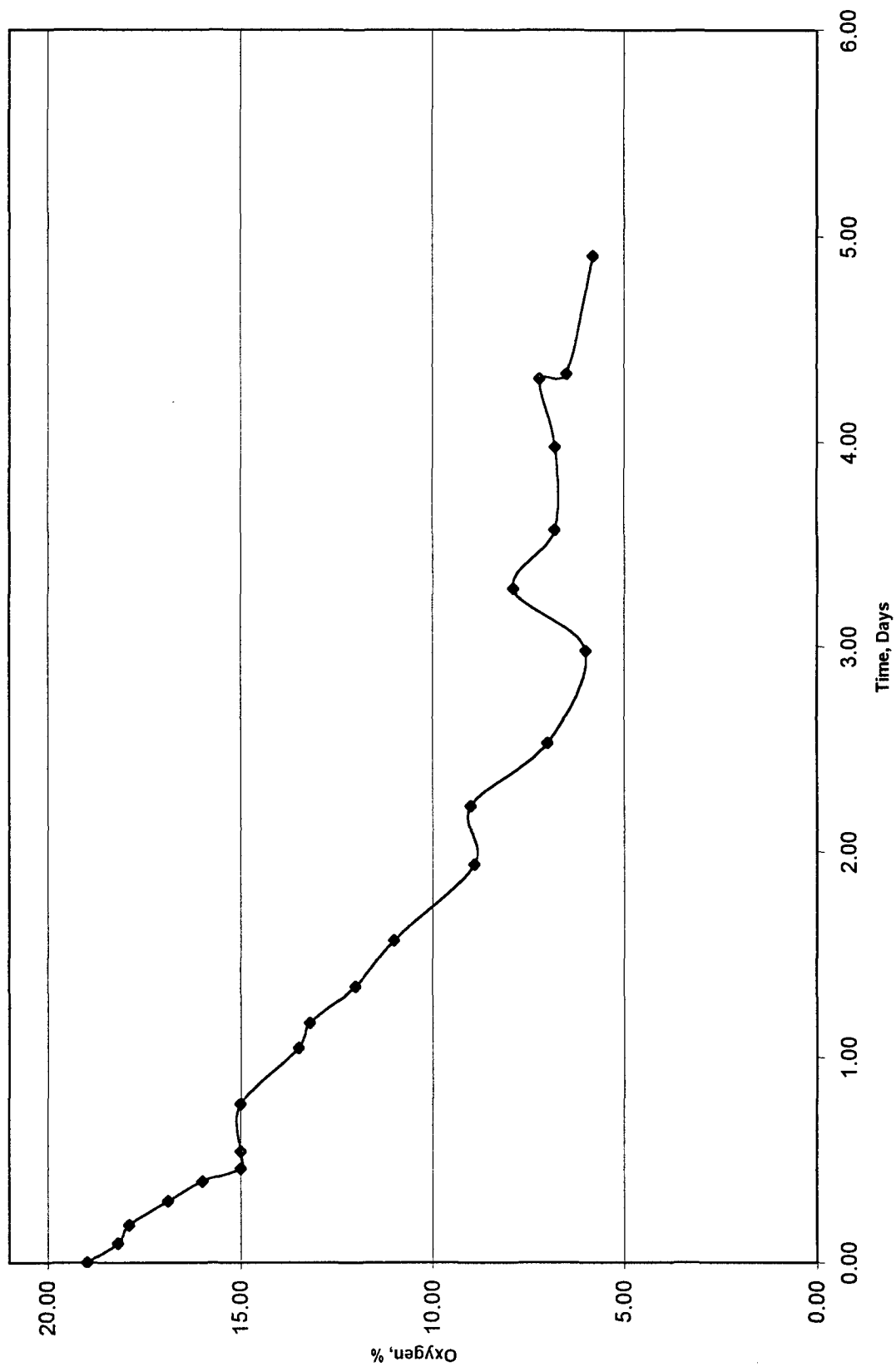
Hill AFB, UT Manual Method October 97 Respiration Test



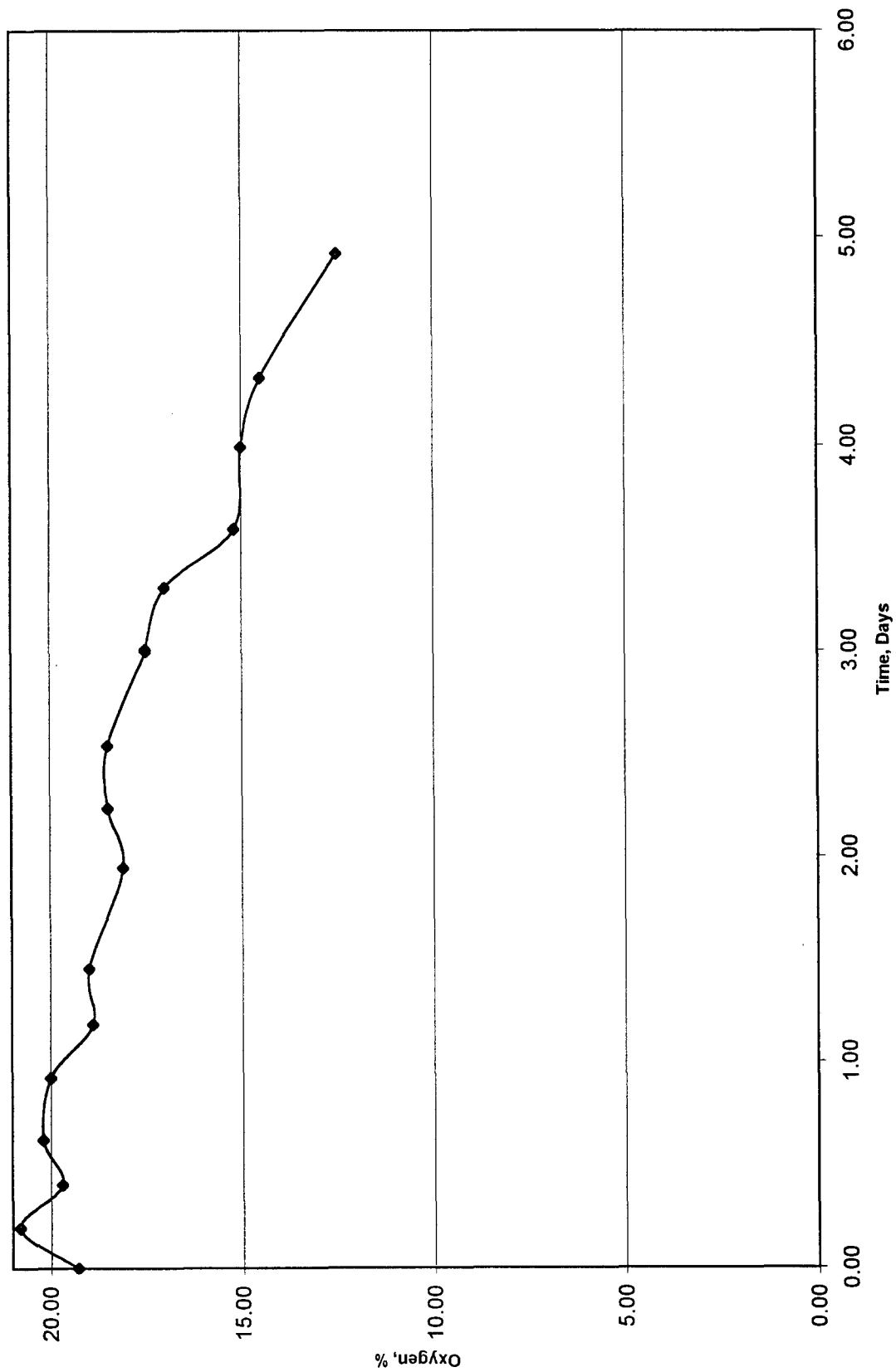
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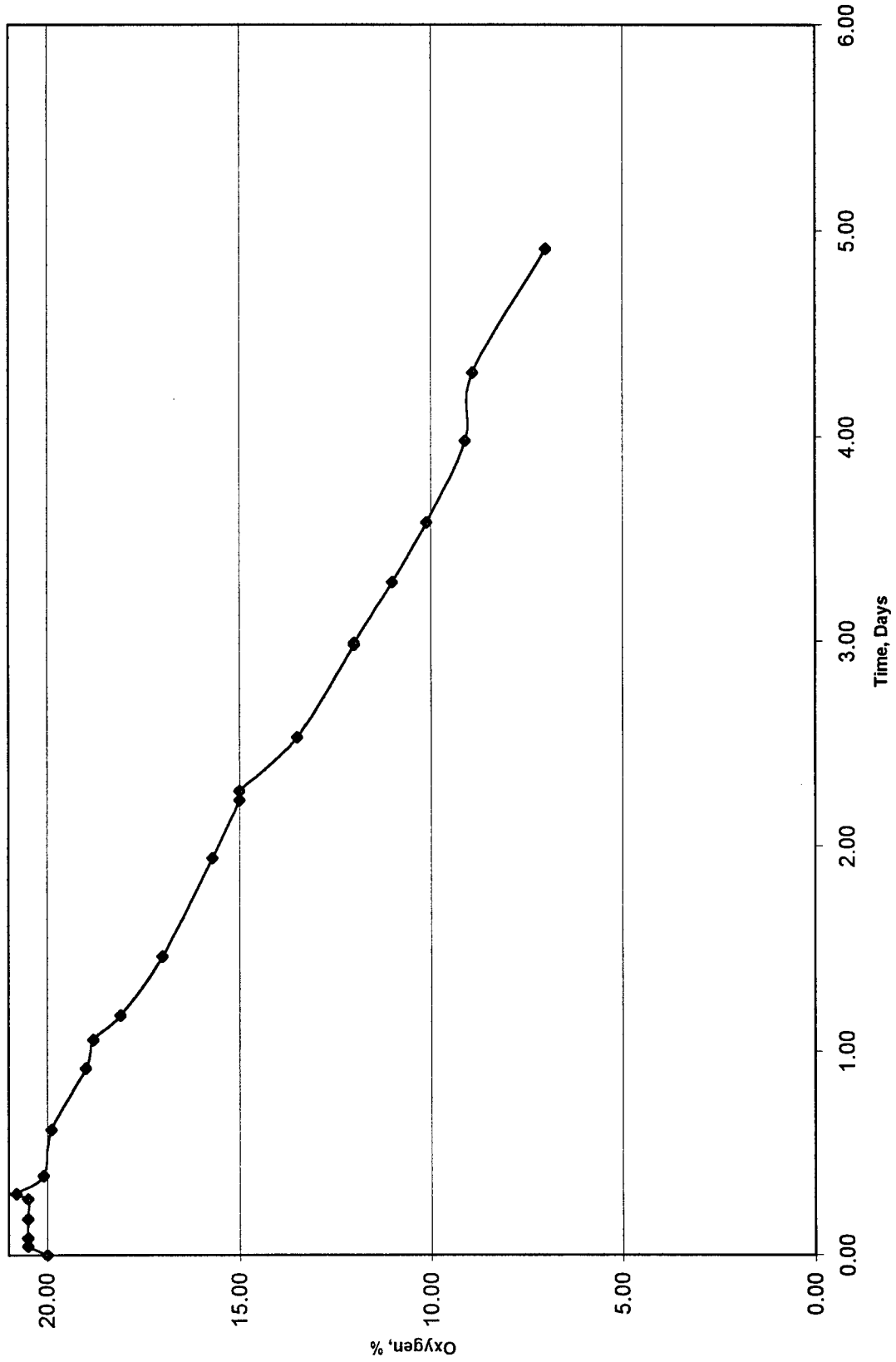
Hill AFB, UT Manual Method October 97 Respiration Test



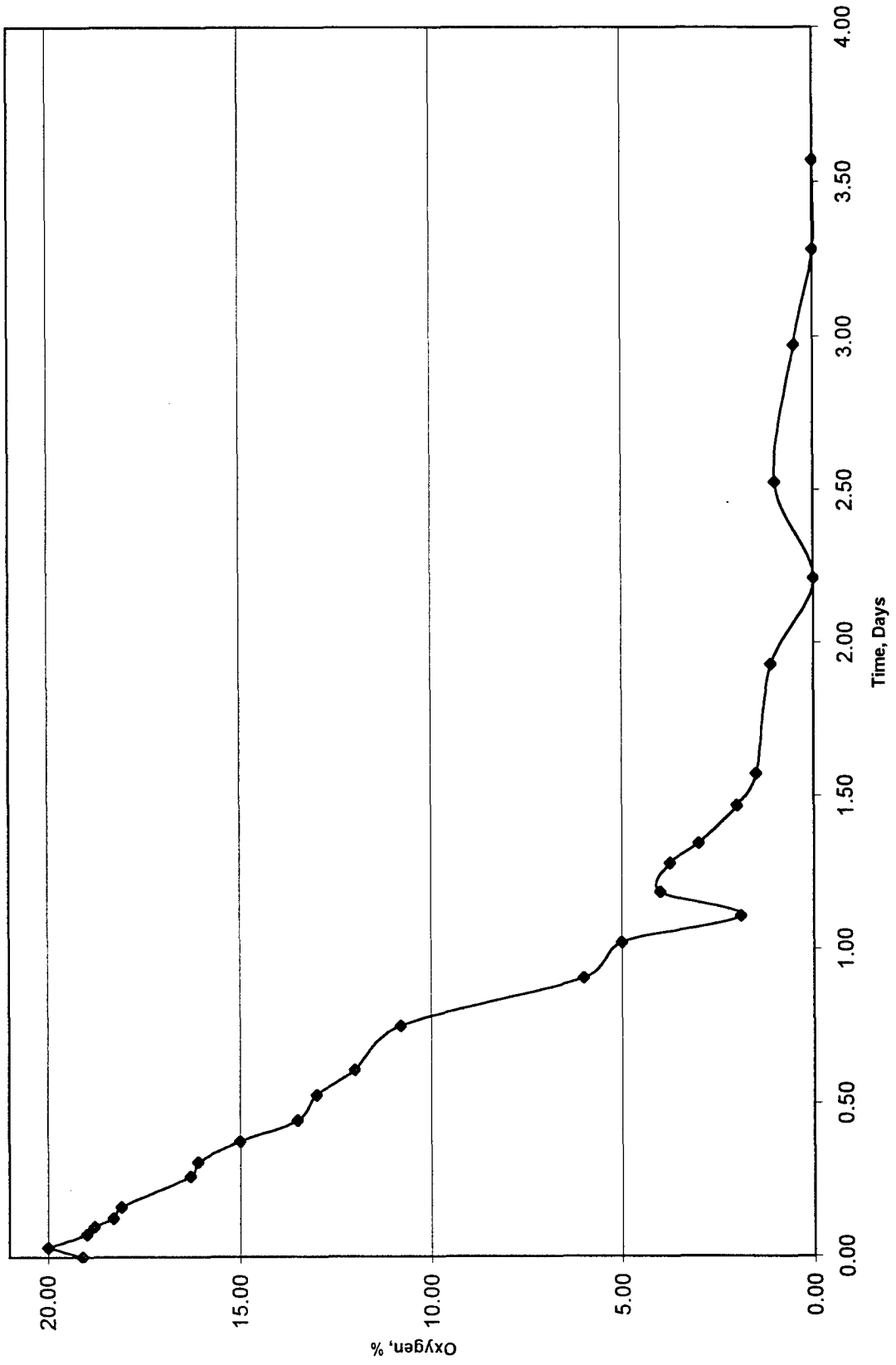
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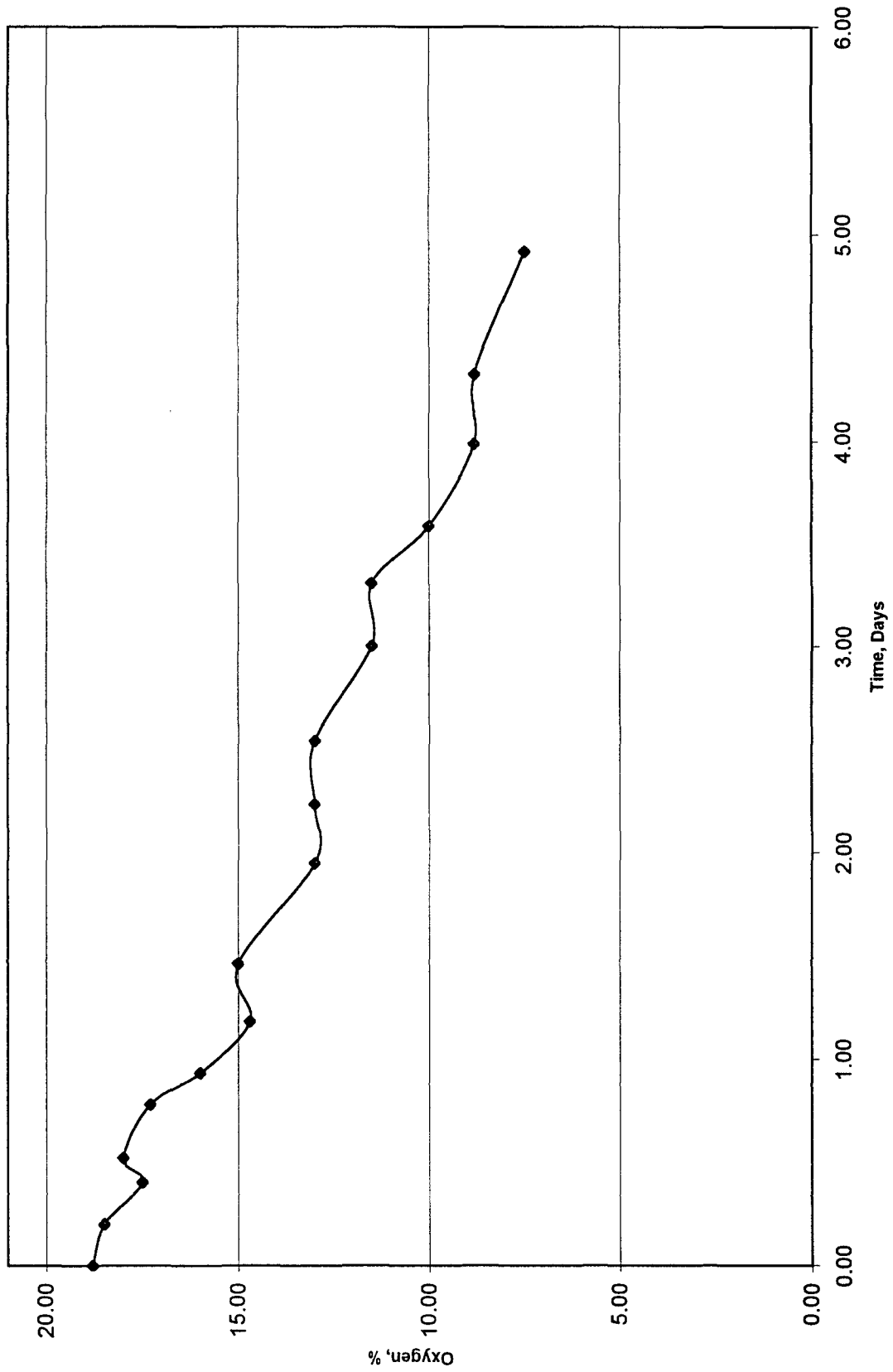
Hill AFB, UT Manual Method October 97 Respiration Test



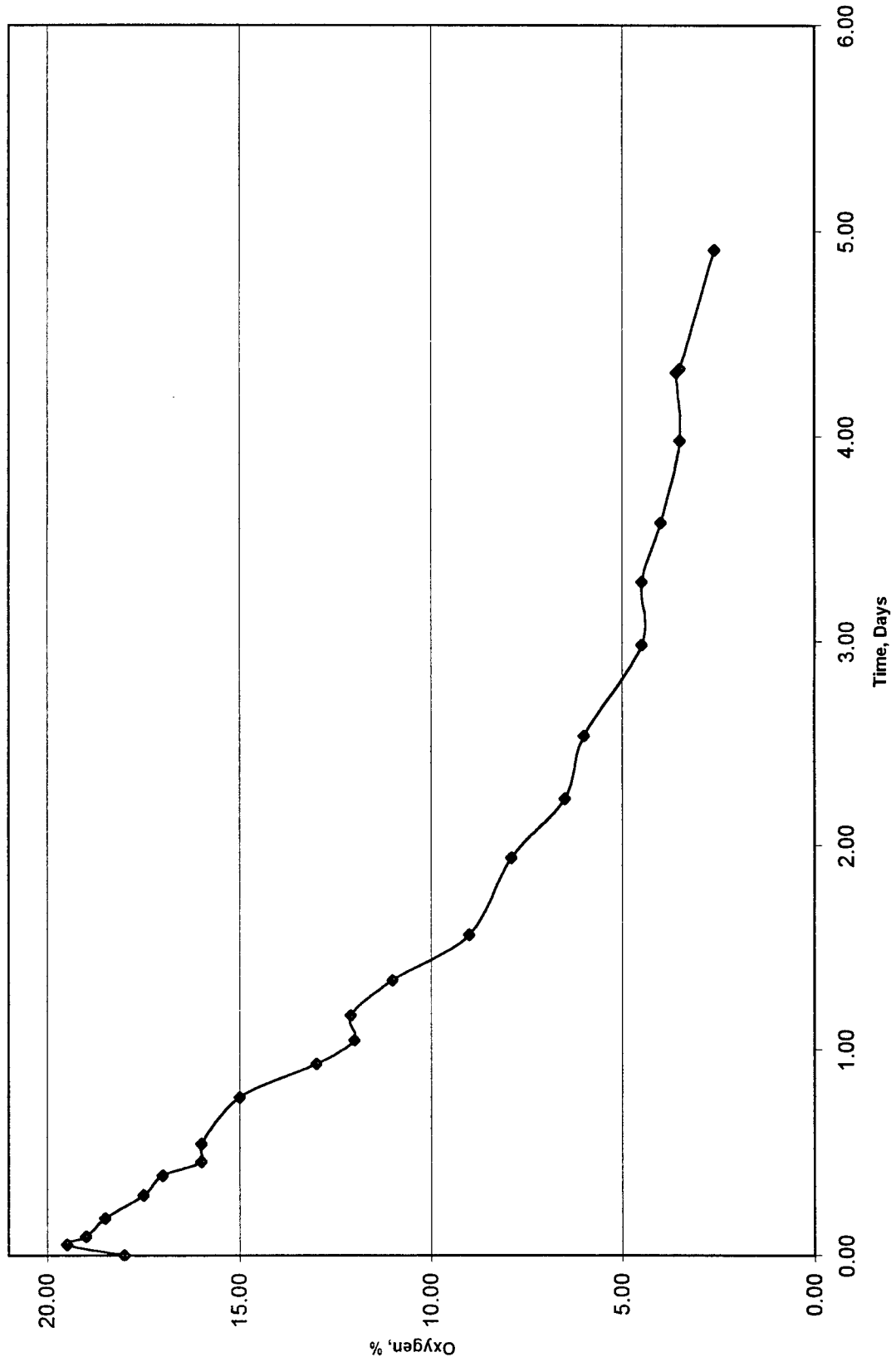
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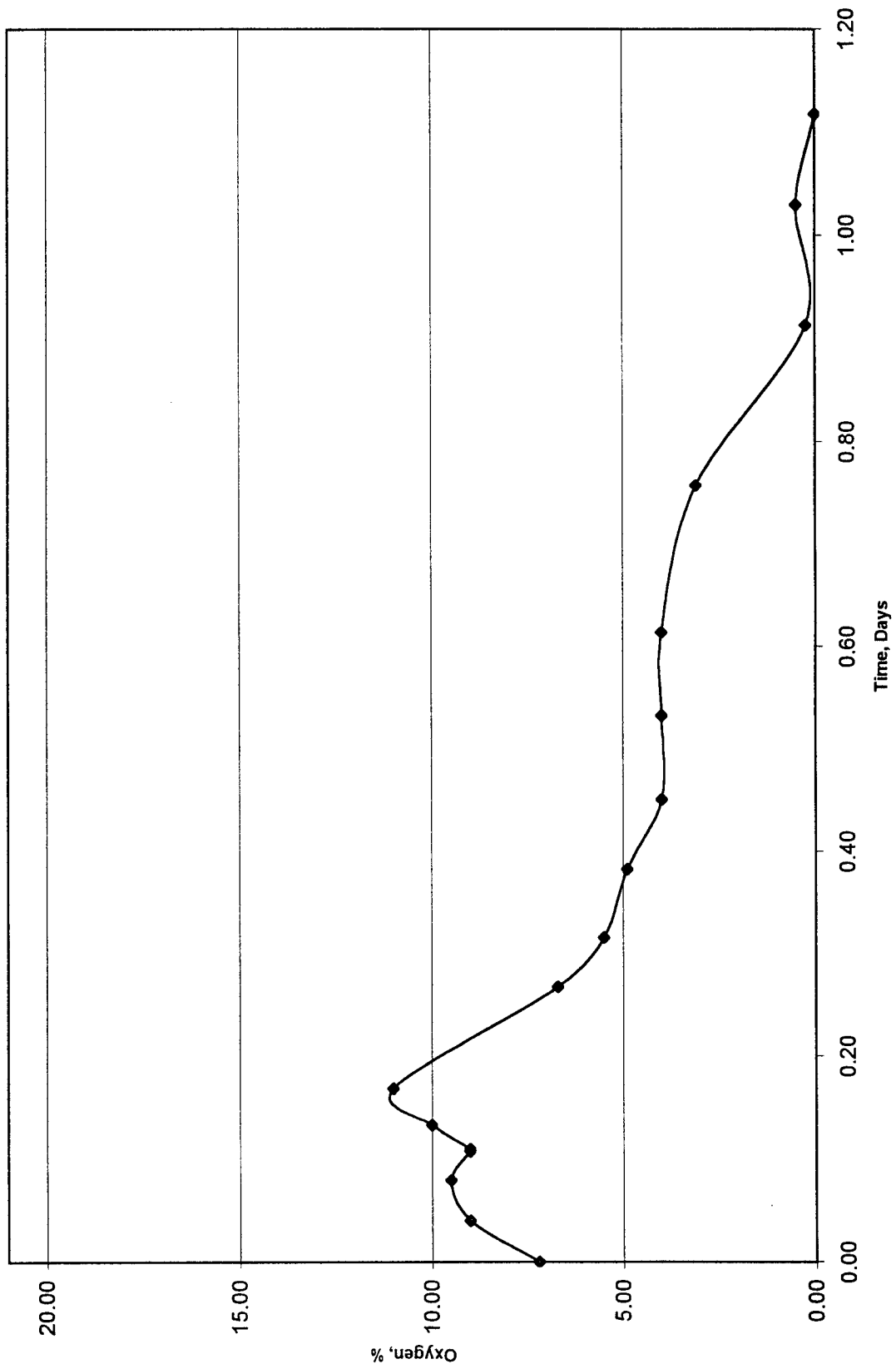
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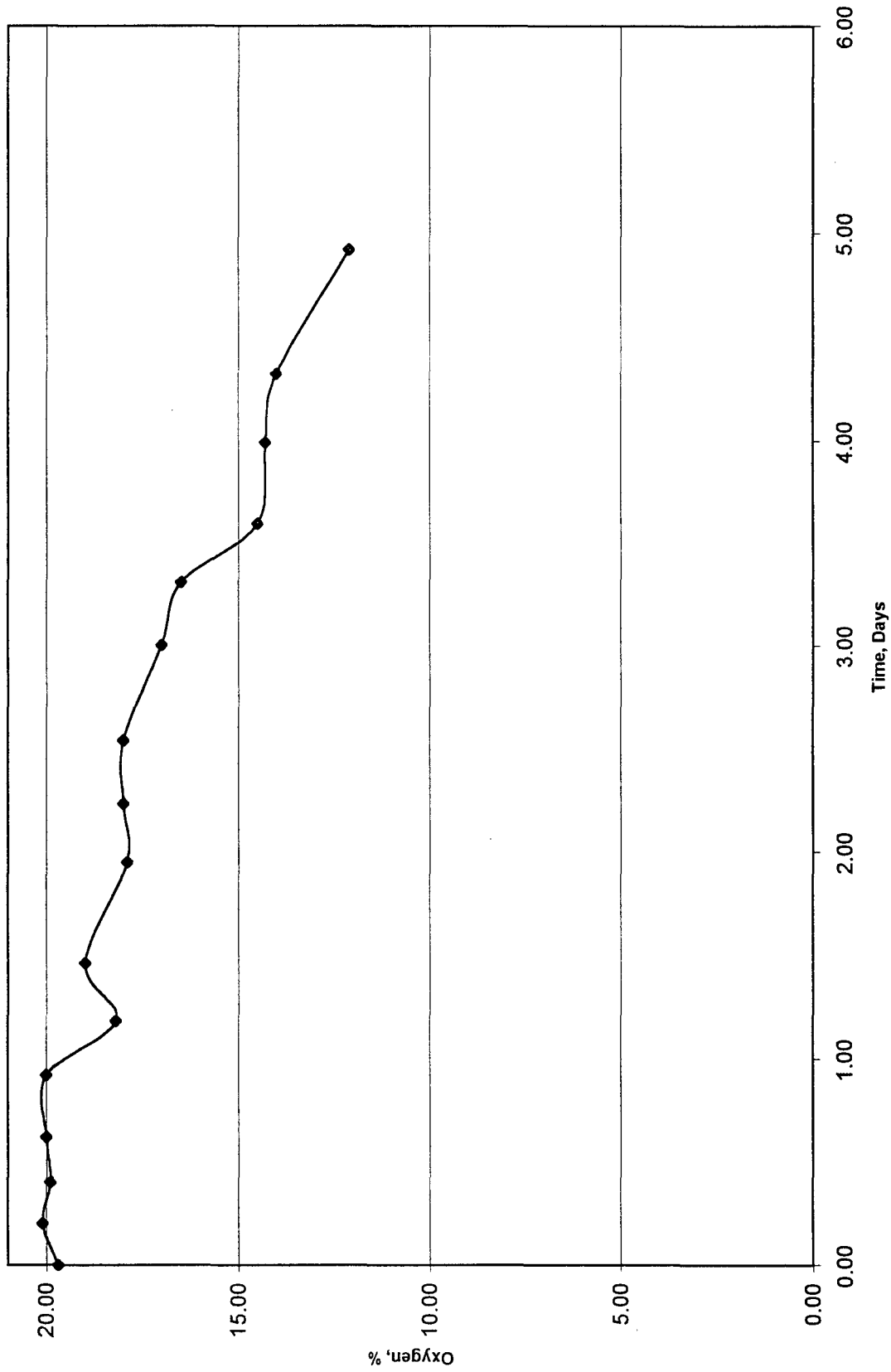
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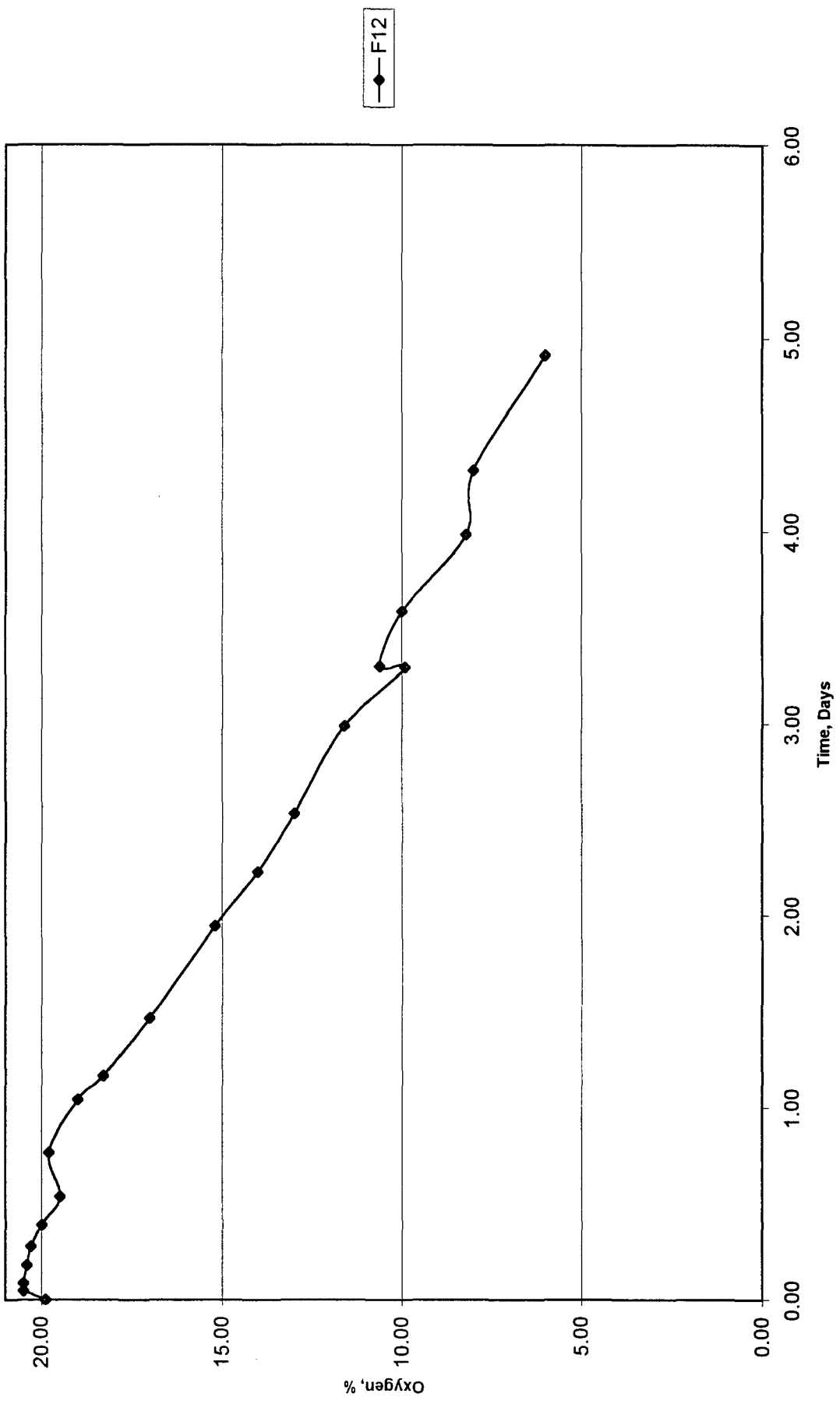
Hill AFB, UT Manual Method October 97 Respiration Test



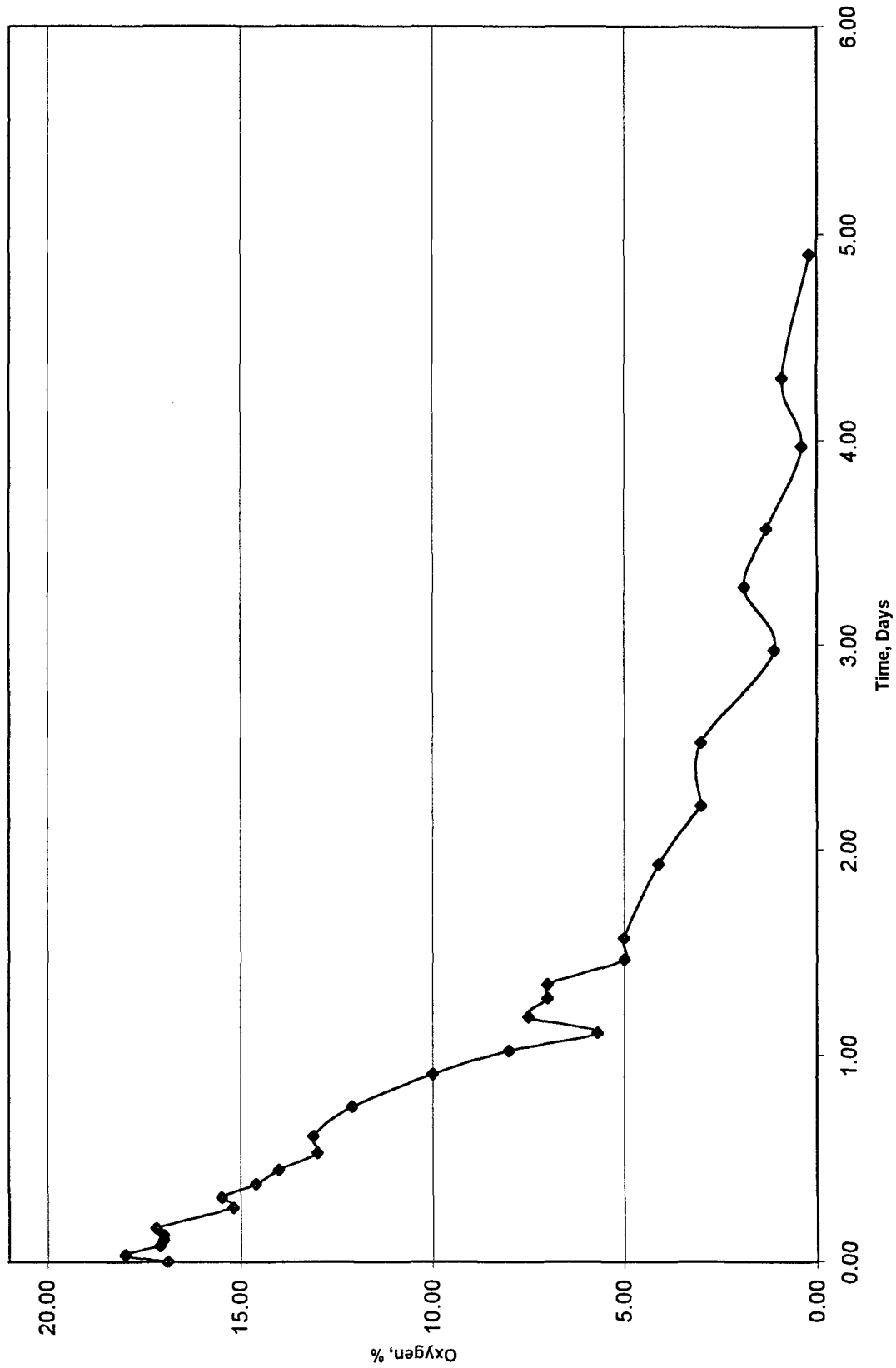
Hill AFB, UT Manual Method October 97 Respiration Test



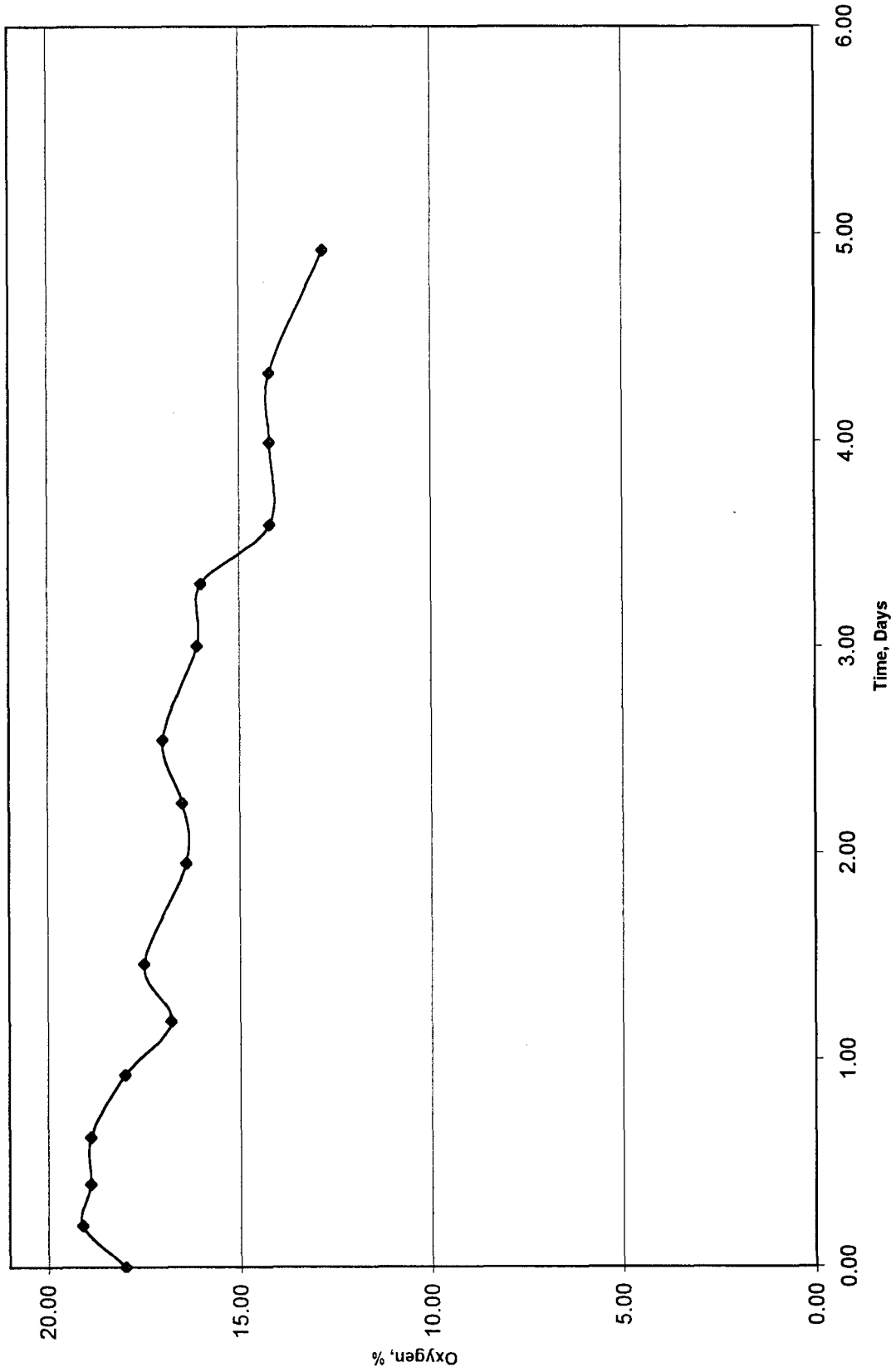
Hill AFB, UT Manual Method October 97 Respiration Test



Hill AFB, UT Manual Method October 97 Respiration Test

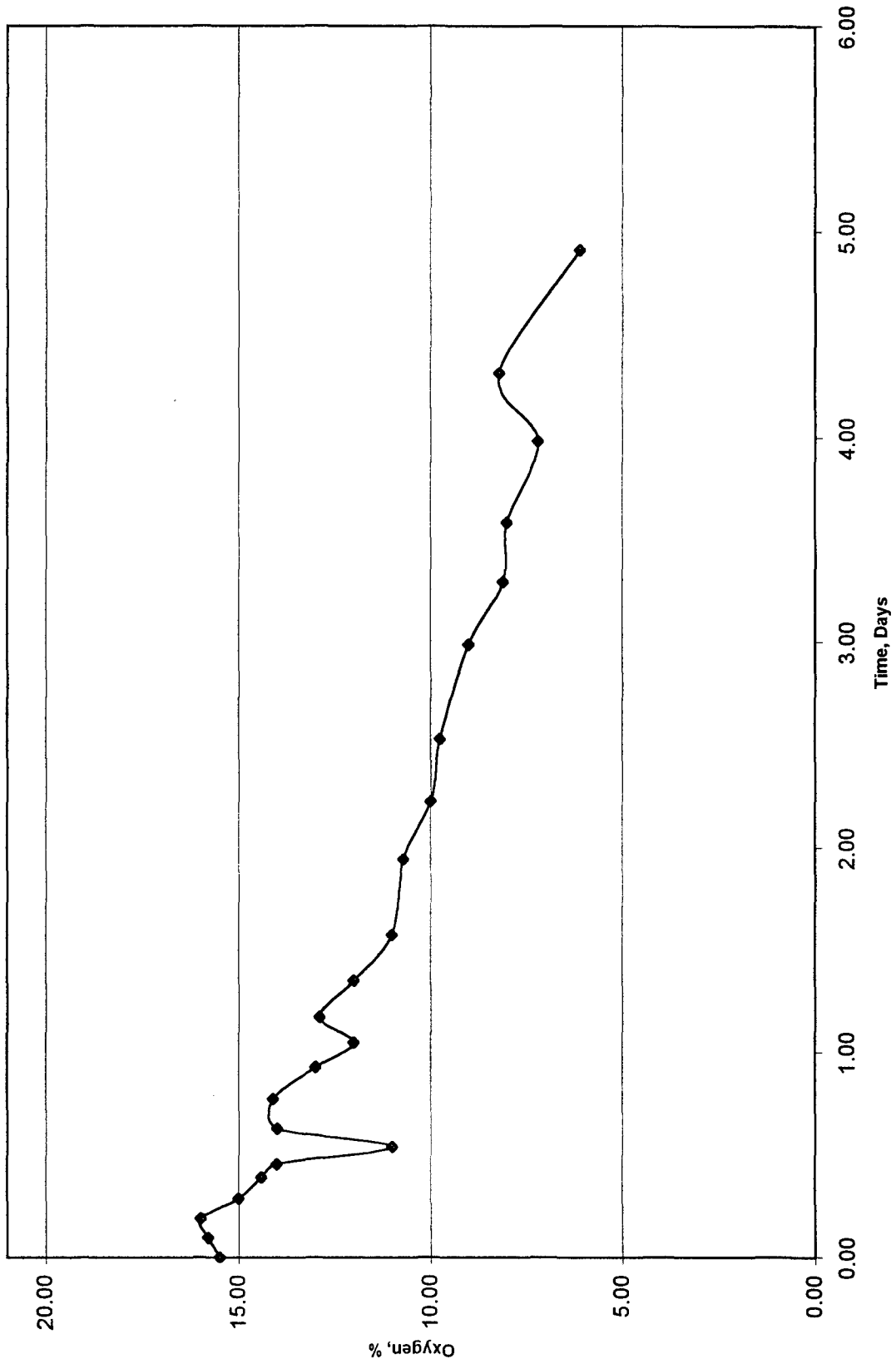


Hill AFB, UT Manual Method October 97 Respiration Test

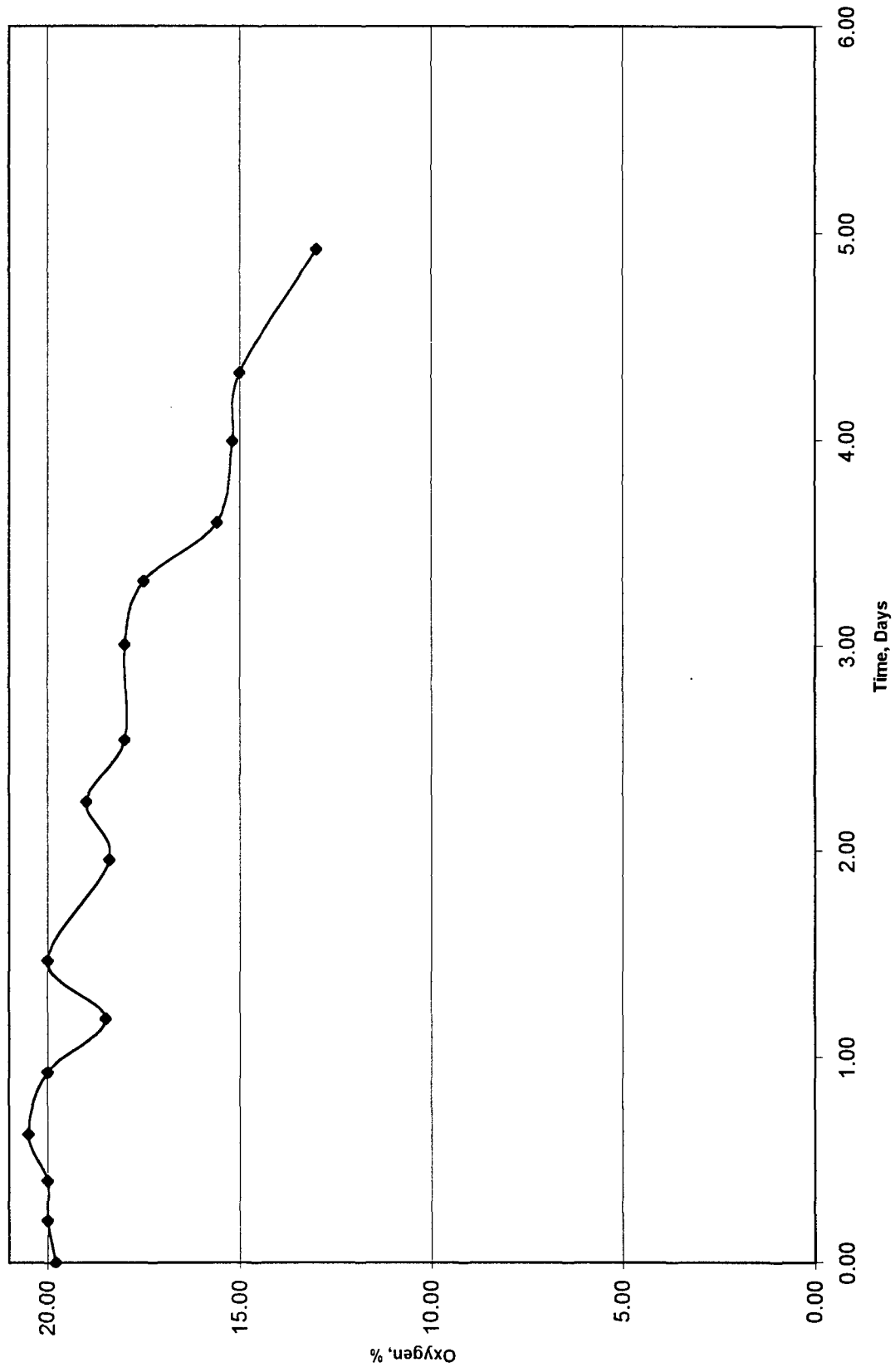


G7

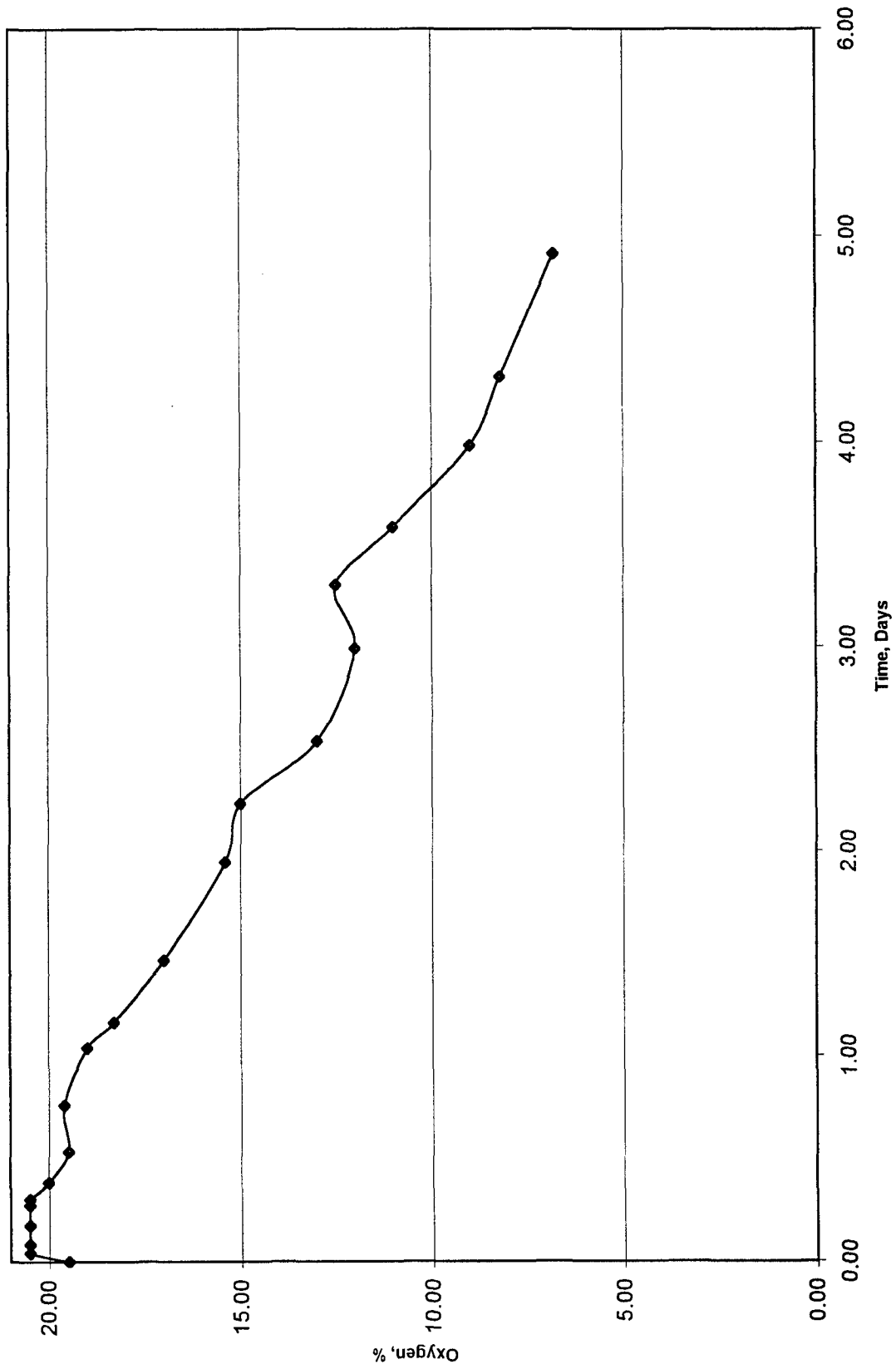
Hill AFB, UT Manual Method October 97 Respiration Test



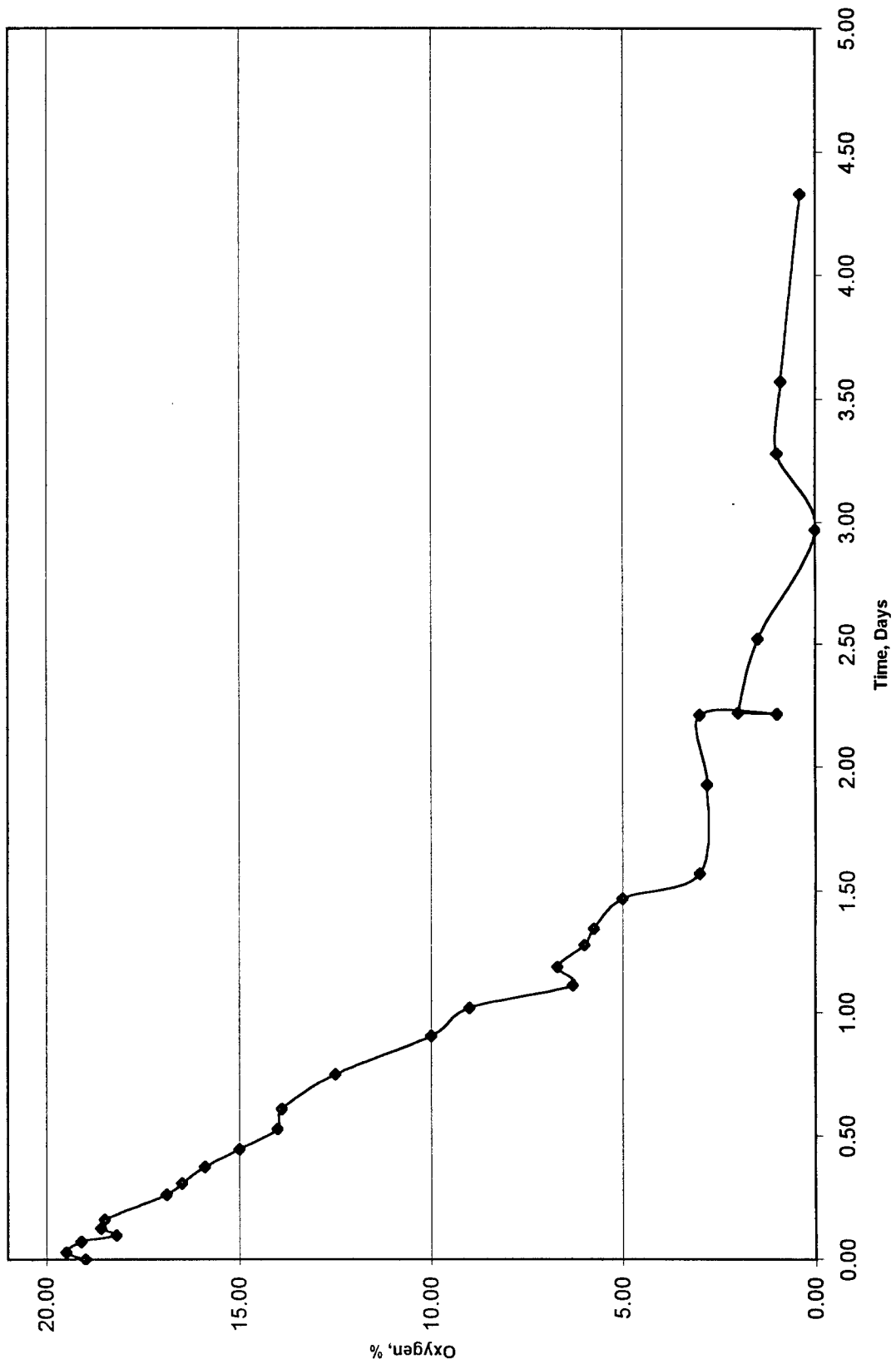
Hill AFB, UT Manual Method October 97 Respiration Test



Hill AFB, UT Manual Method October 97 Respiration Test



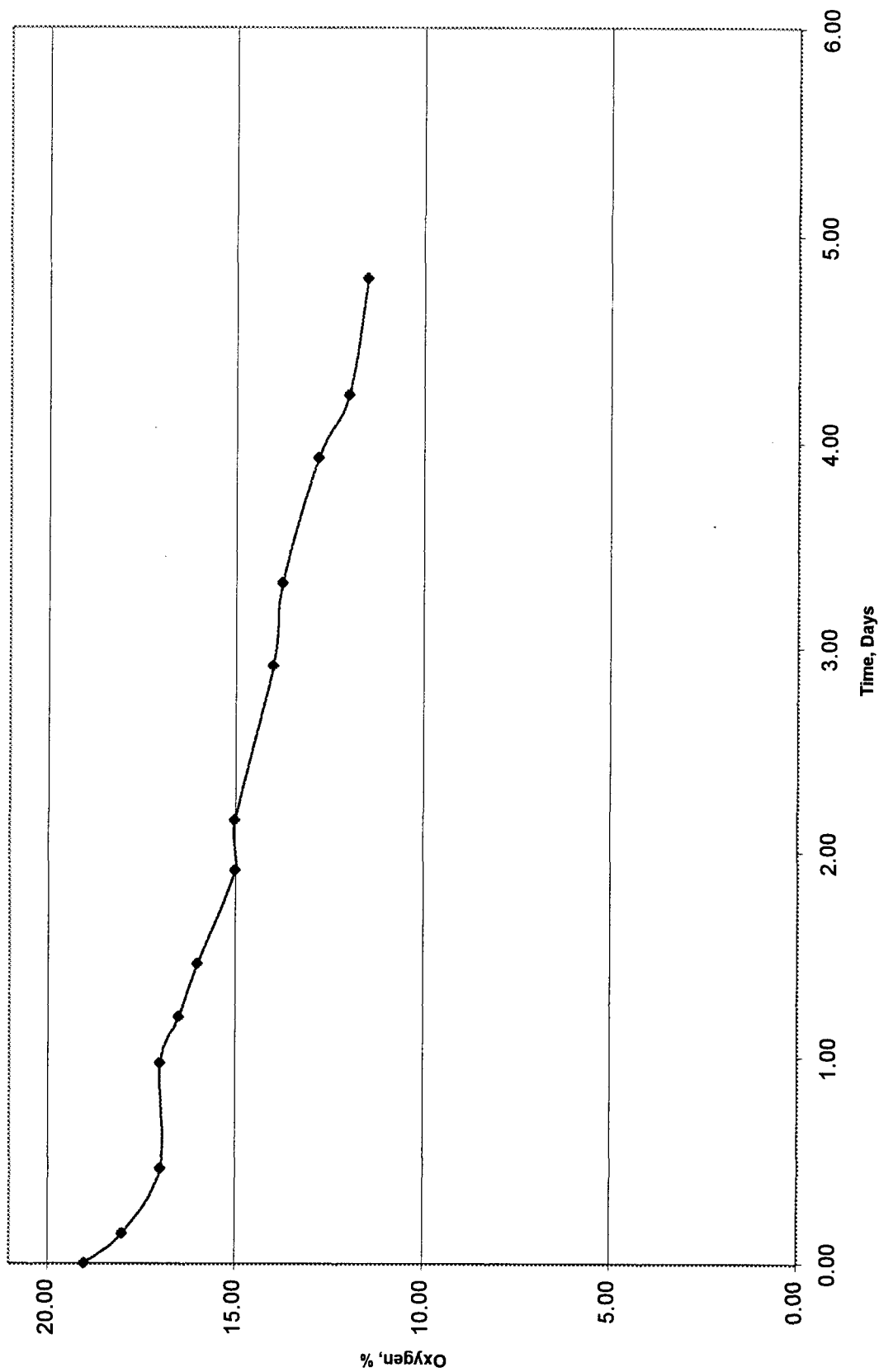
Hill AFB, UT Manual Method October 97 Respiration Test



**OXYGEN UTILIZATION PLOTS
MONITORED BY
MANUAL METHOD
DURING RESPIRATION TESTING**

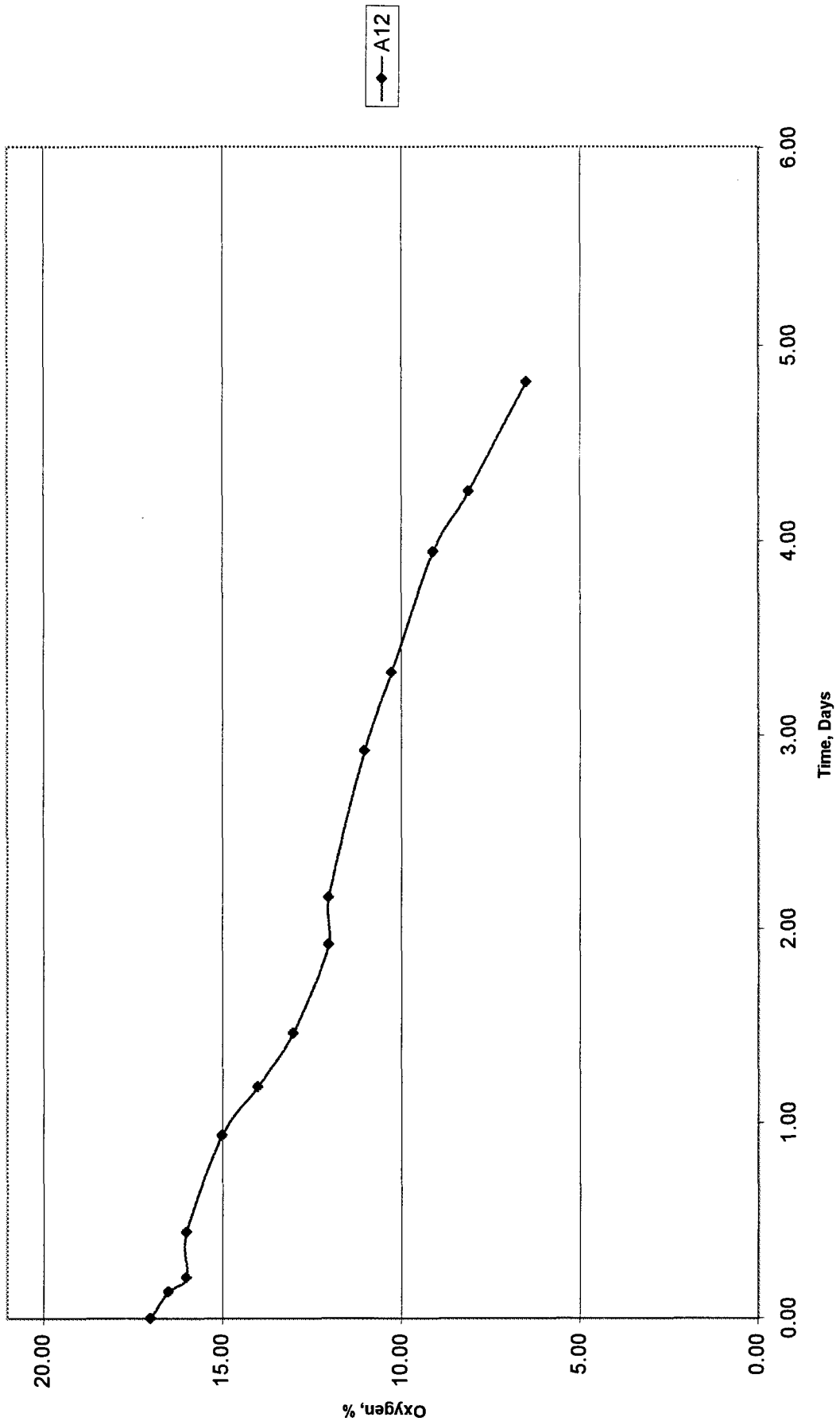
January 1998

Hill AFB, UT Manual Method January 1998 Respiration Test

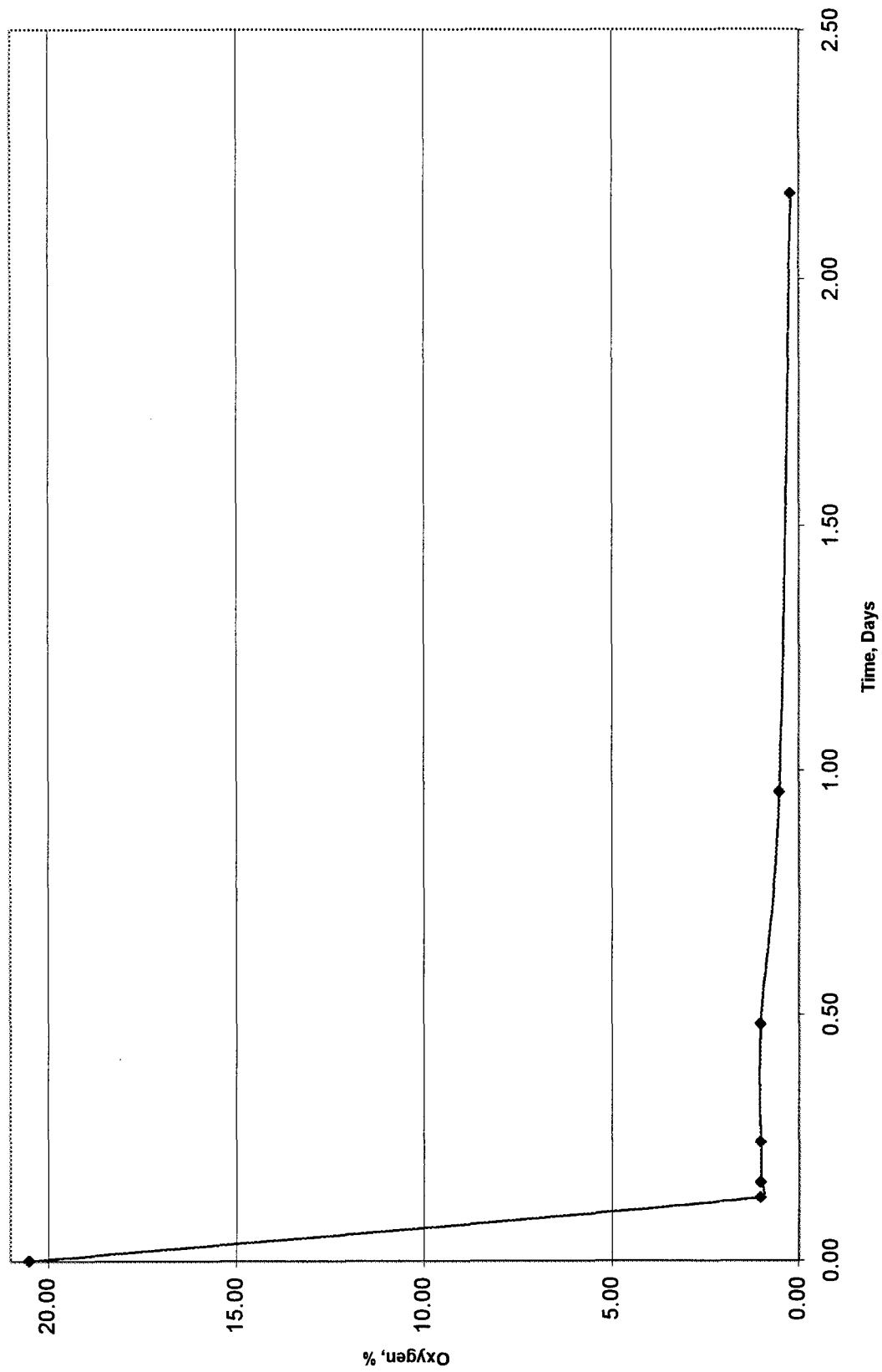


Hill AFB, UT Manual Method January 1998 Respiration Test

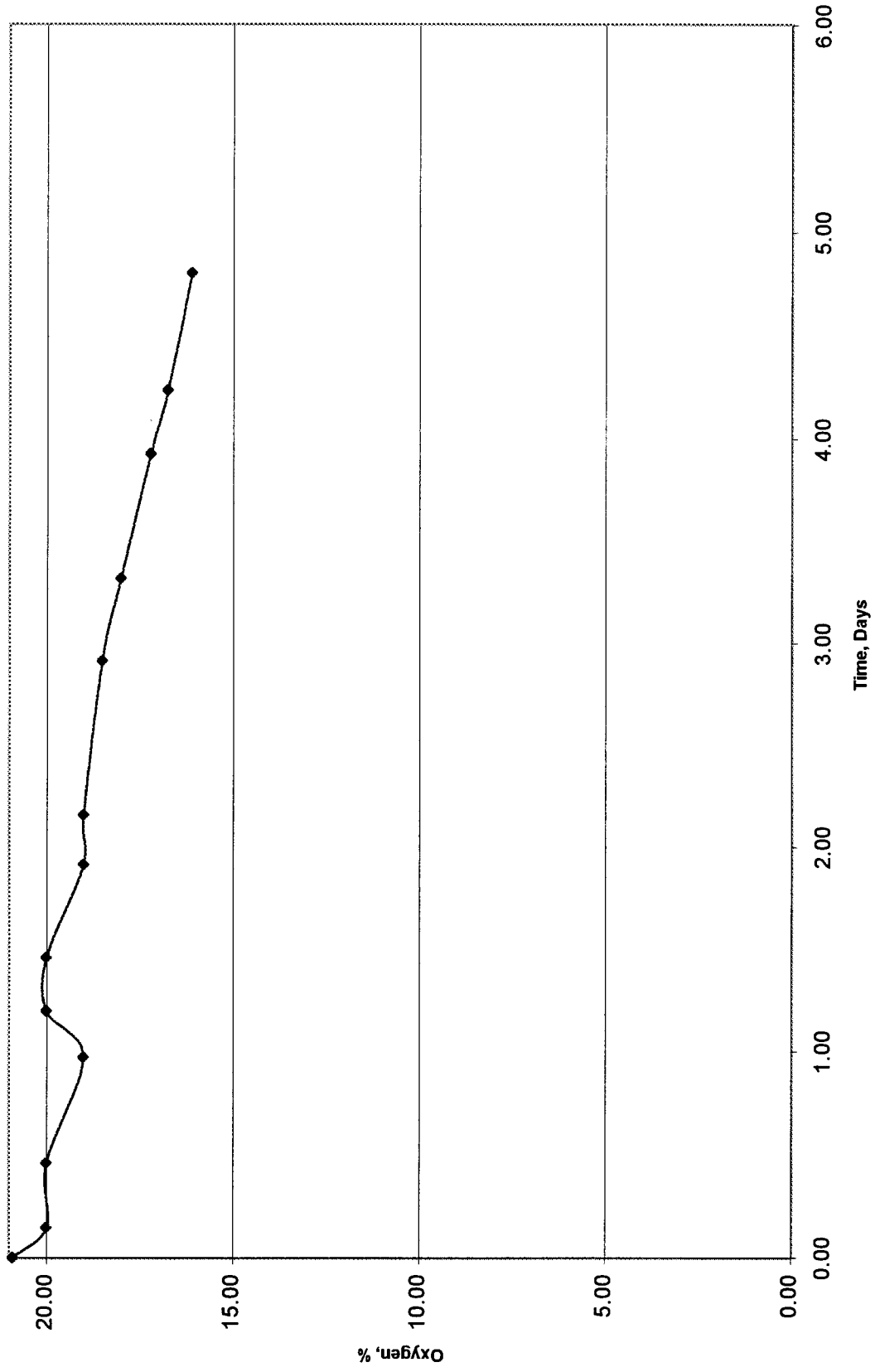
Hill AFB, UT Manual Method



Hill AFB, UT Manual Method January 1998 Respiration Test

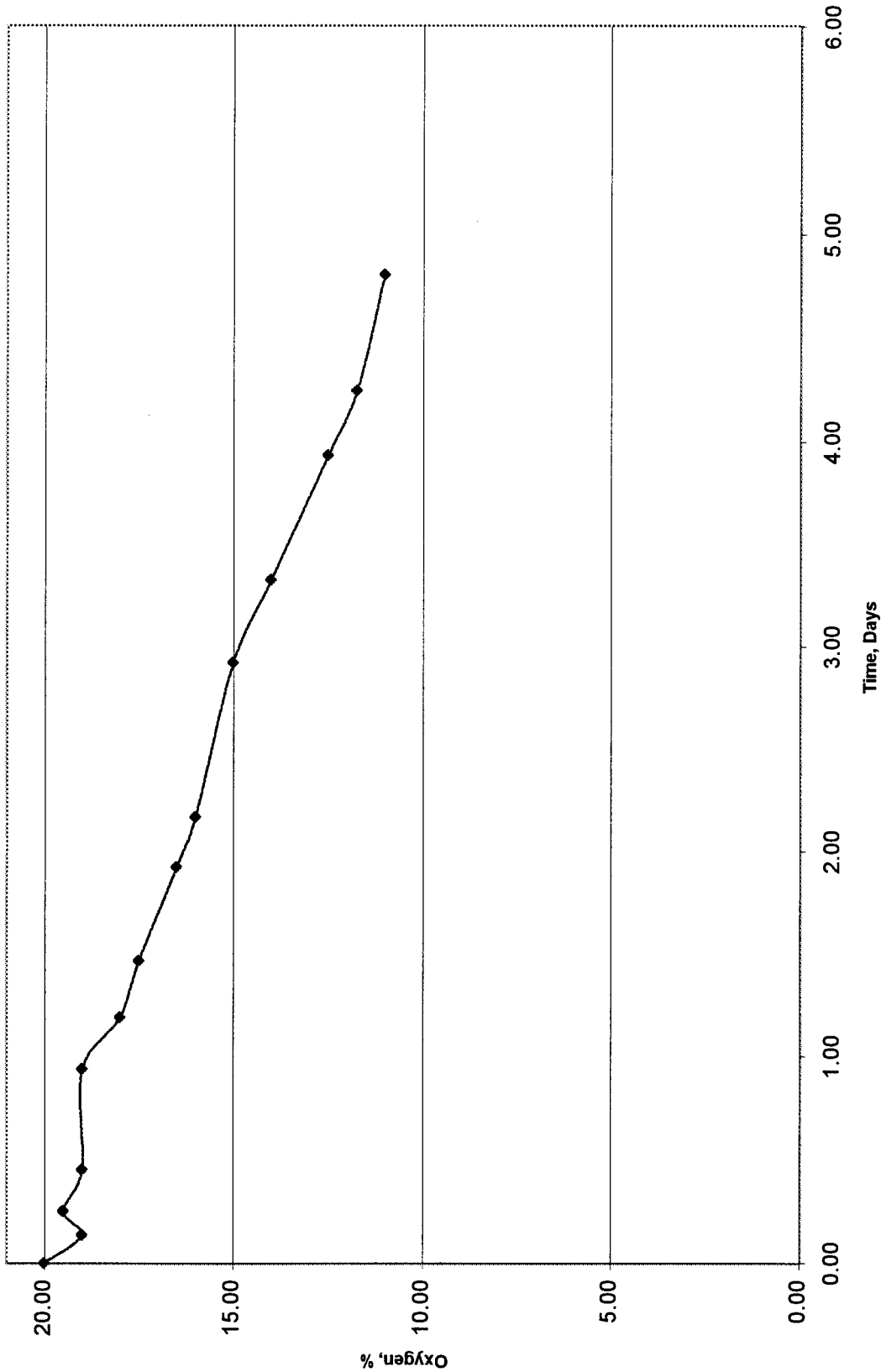


Hill AFB, UT Manual Method January 1998 Respiration Test

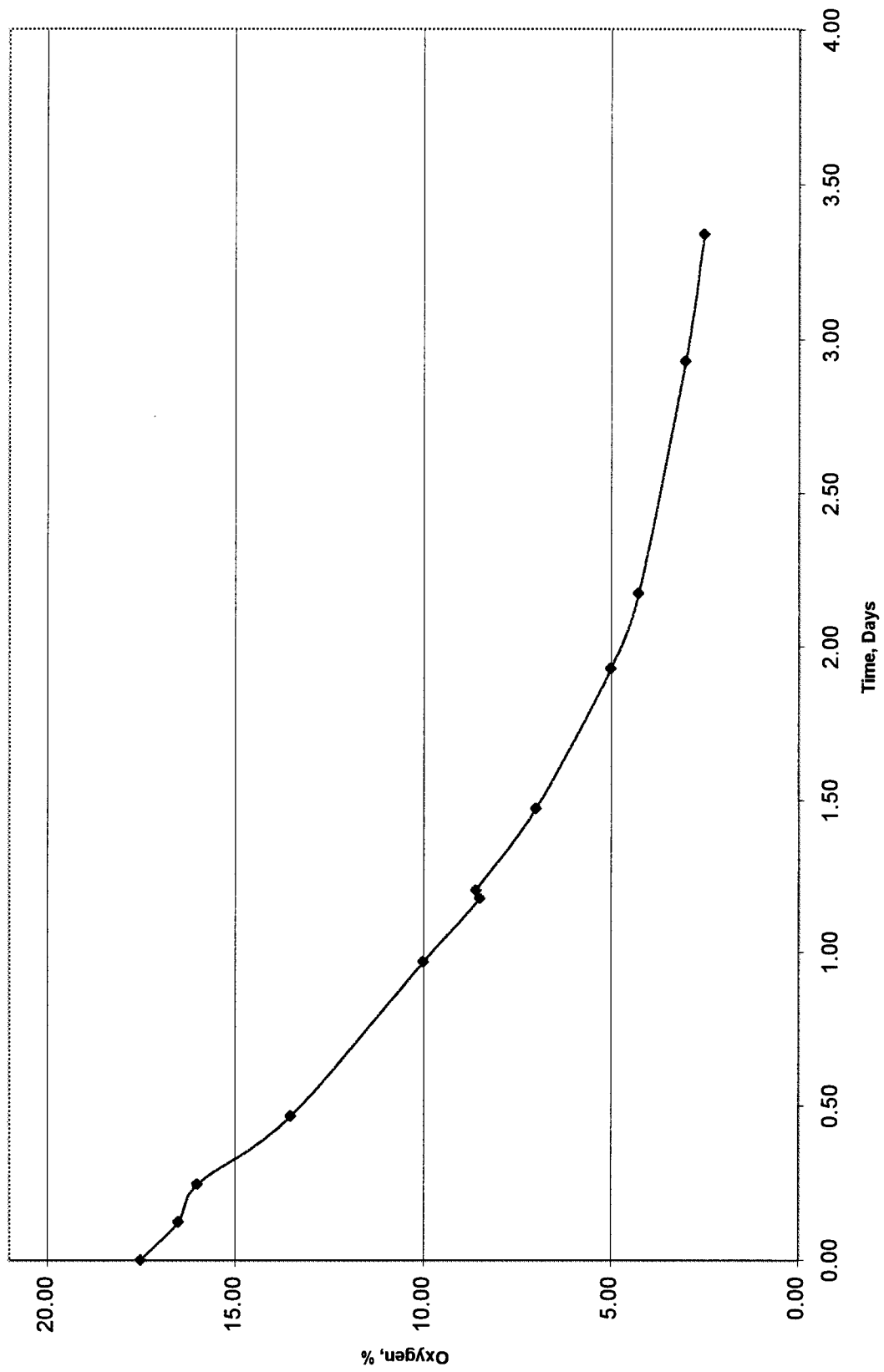


—●— B7

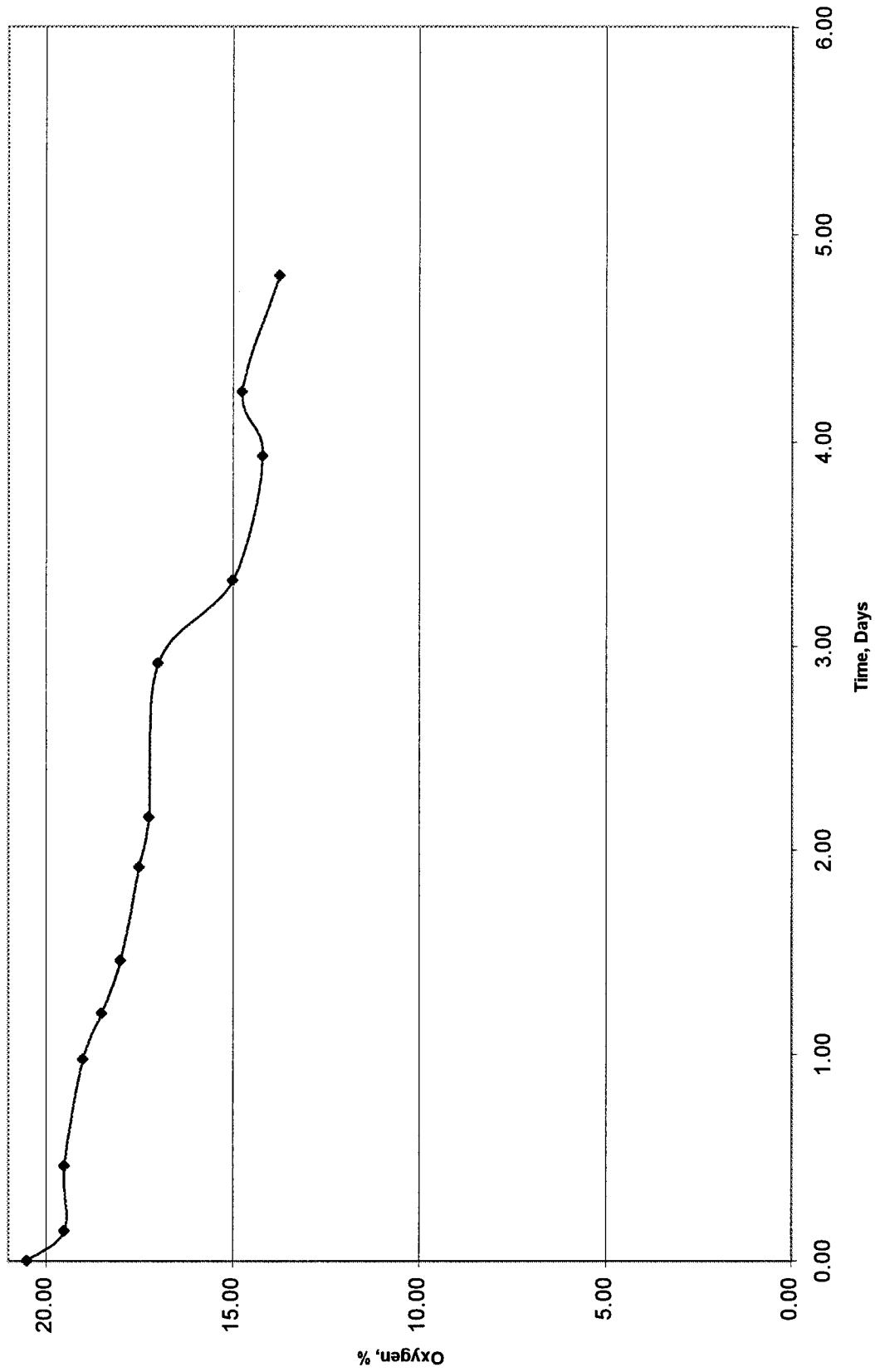
Hill AFB, UT Manual Method January 1998 Respiration Test



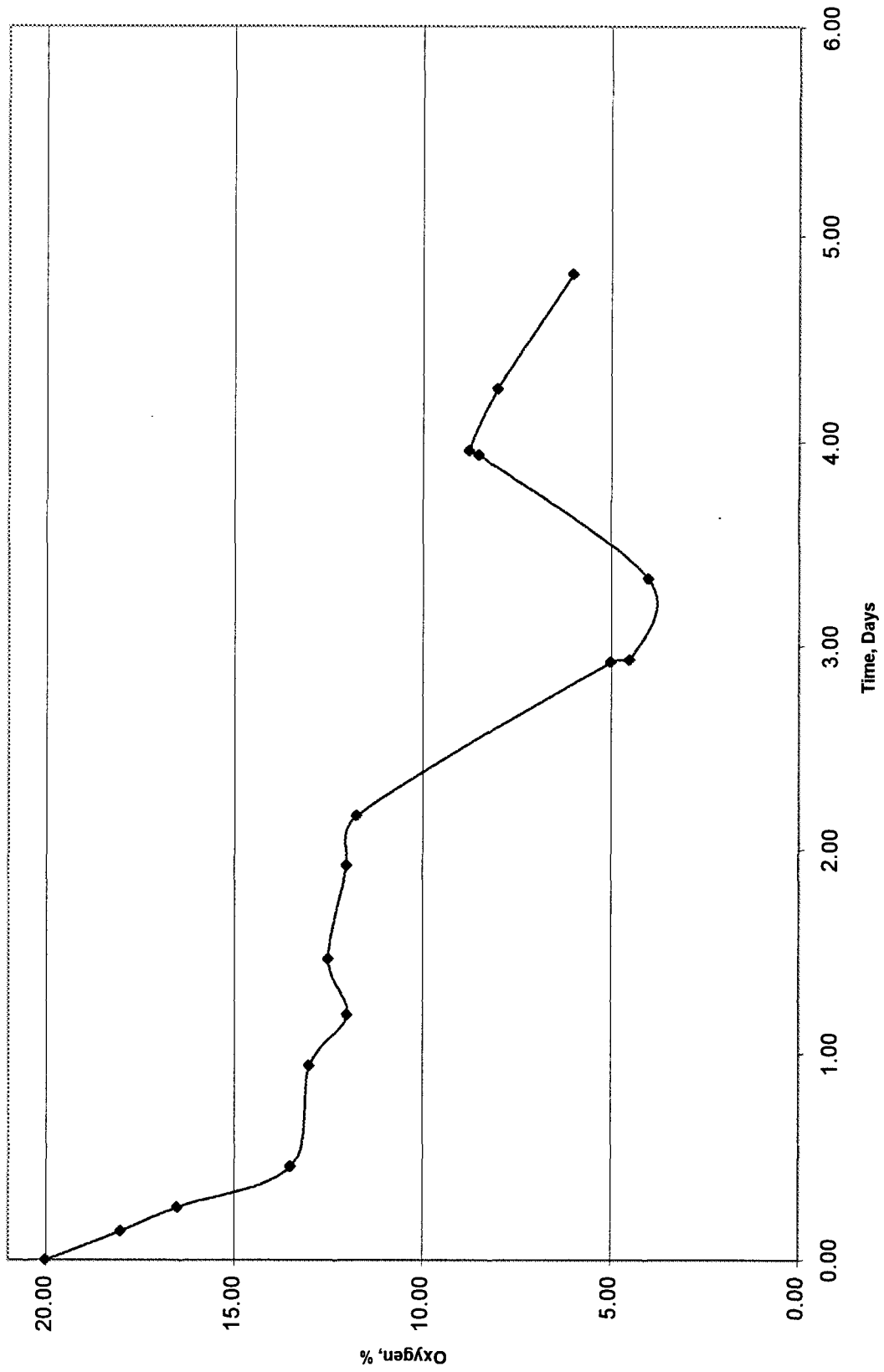
Hill AFB, UT Manual Method January 1998 Respiration Test



Hill AFB, UT Manual Method January 1998 Respiration Test

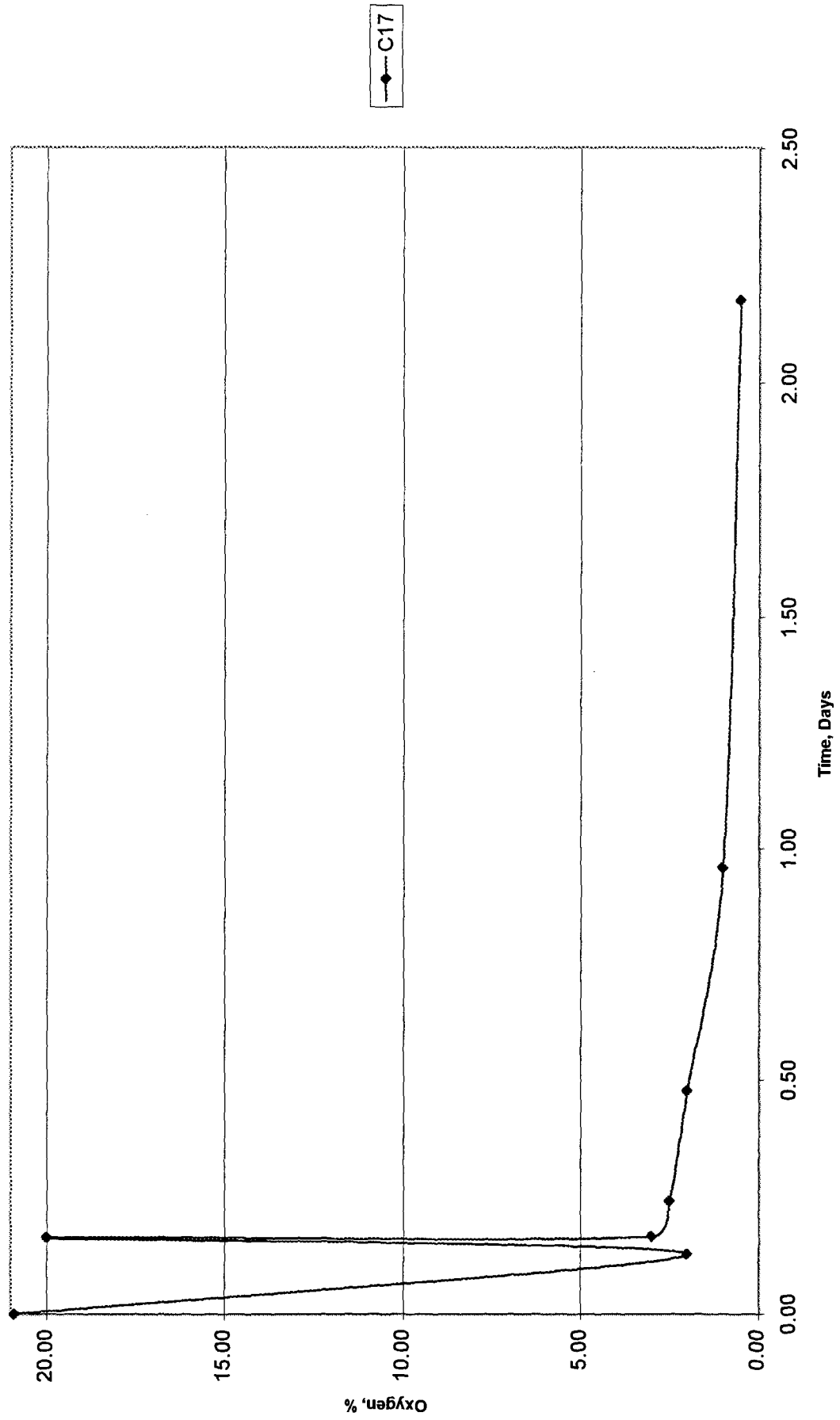


Hill AFB, UT Manual Method January 1998 Respiration Test

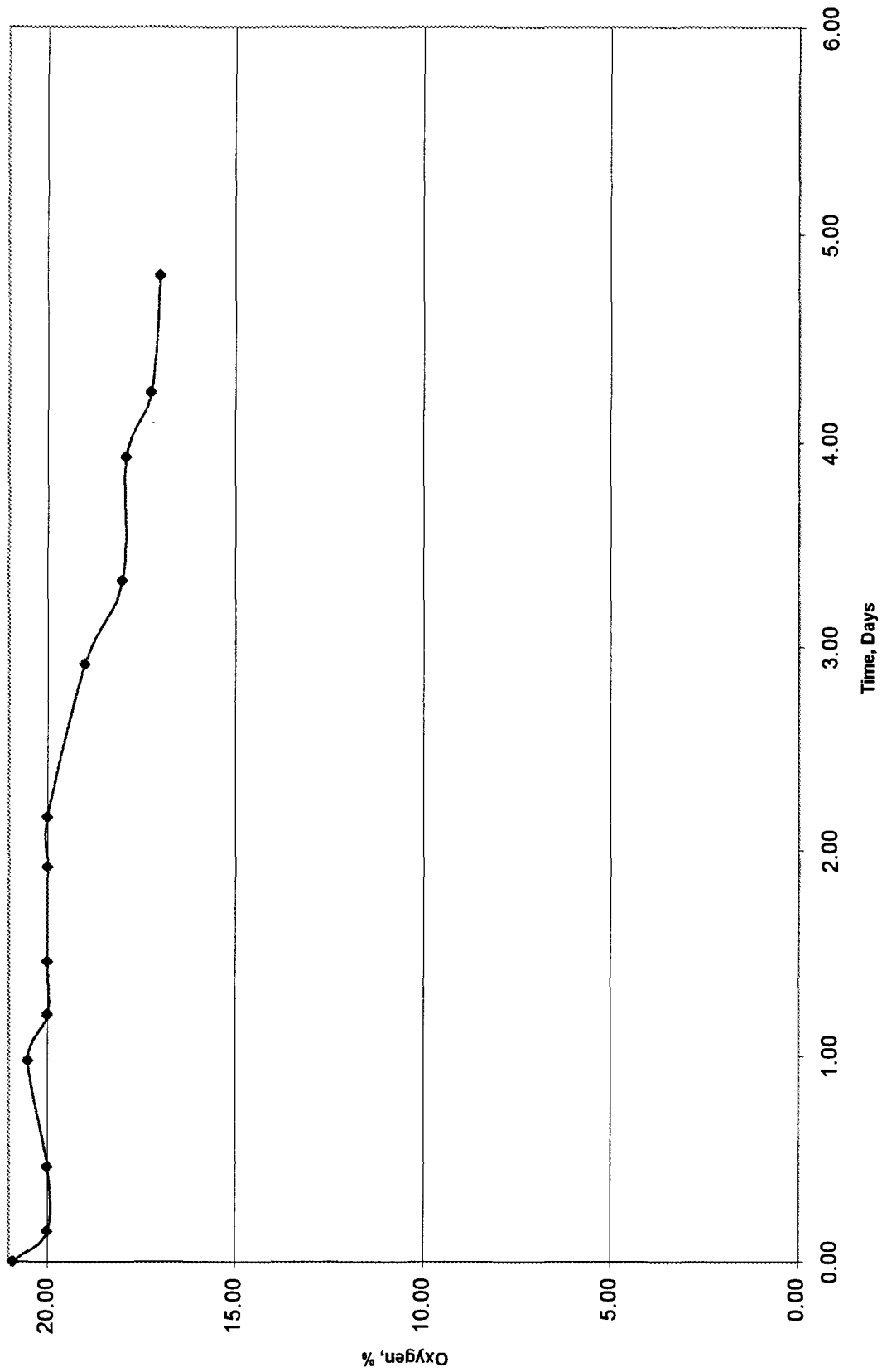


C12

Hill AFB, UT Manual Method January 1998 Respiration Test

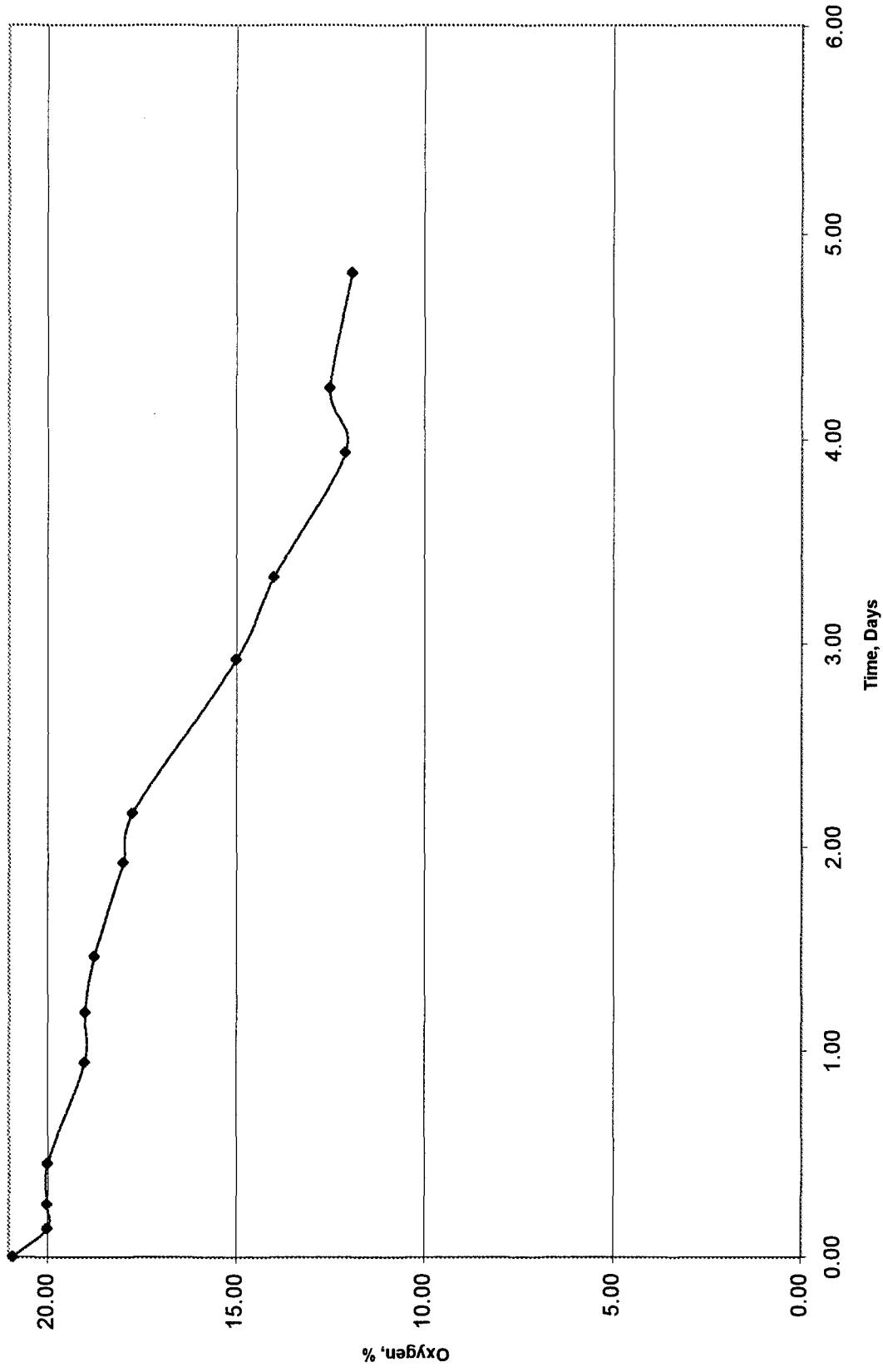


Hill AFB, UT Manual Method January 1998 Respiration Test

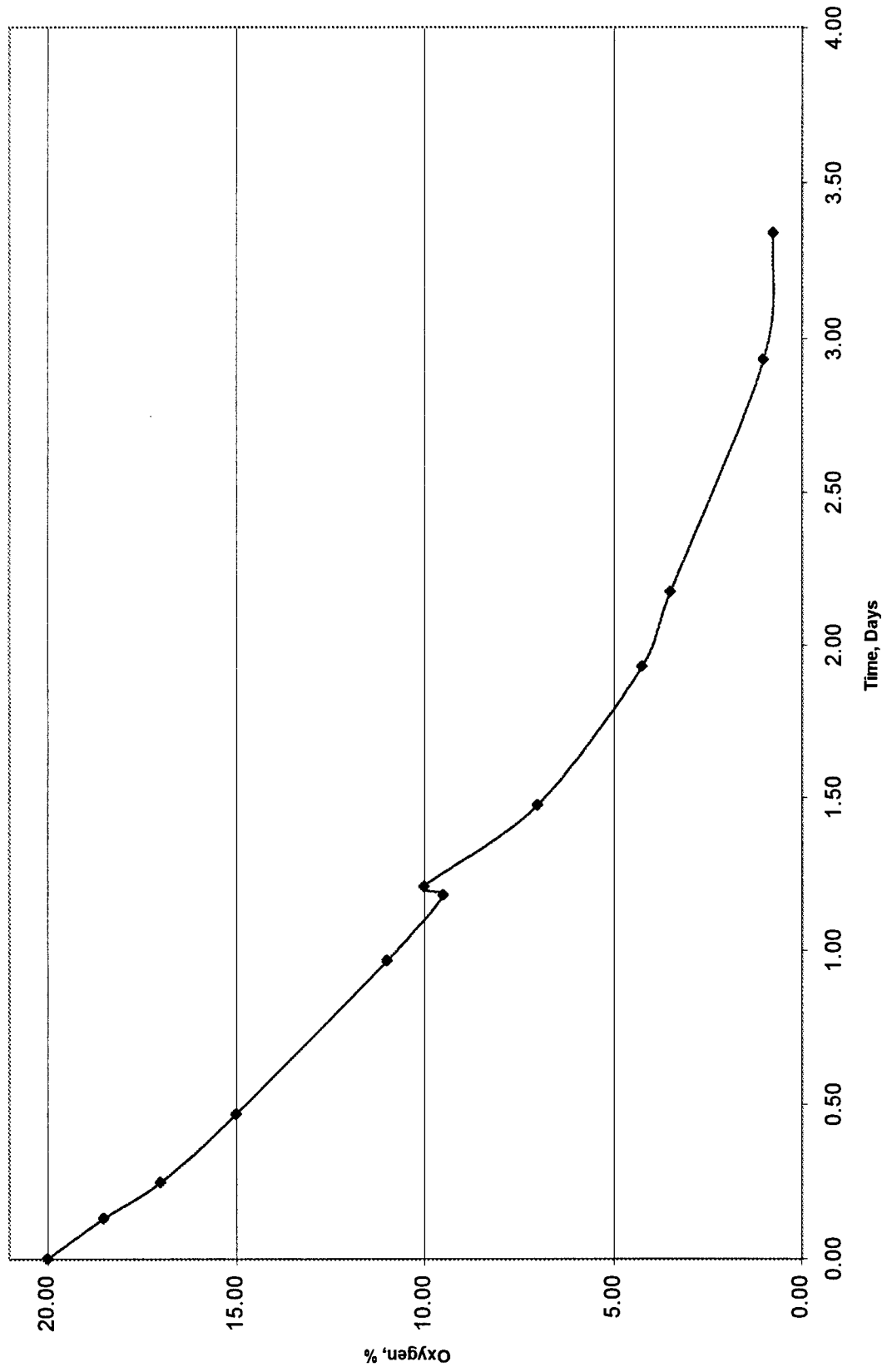


D7

Hill AFB, UT Manual Method January 1998 Respiration Test

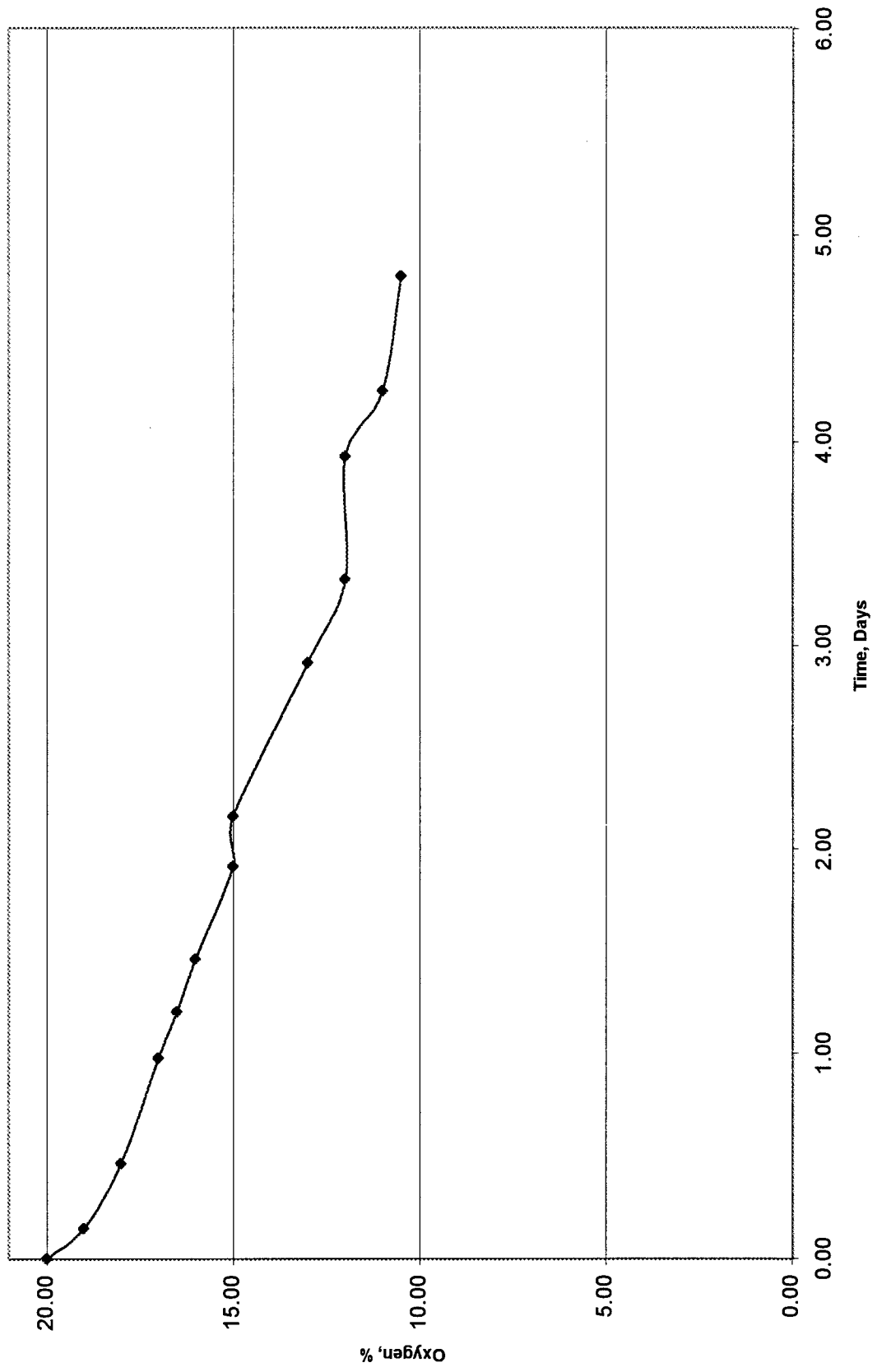


Hill AFB, UT Manual Method January 1998 Respiration Test



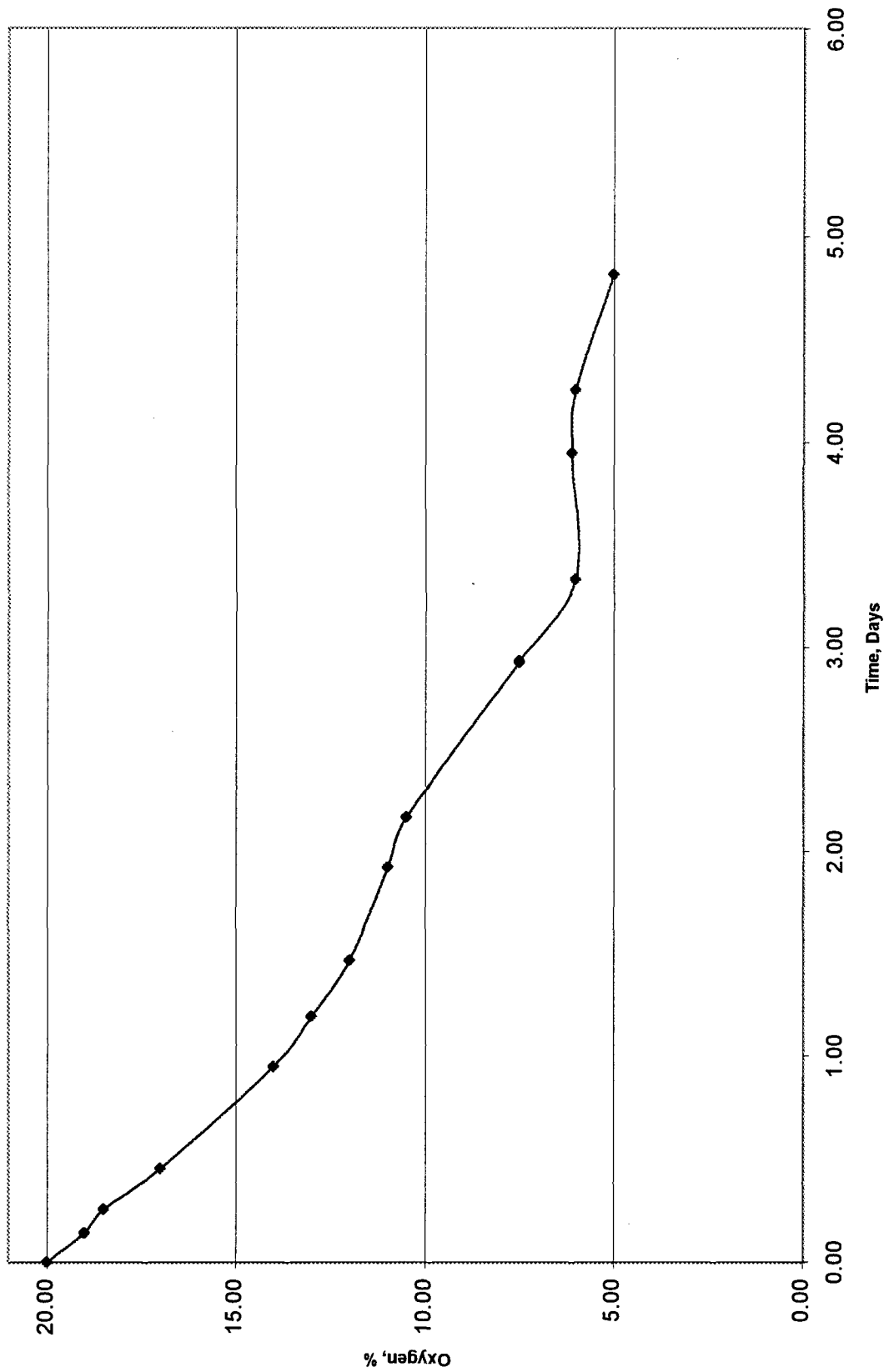
—●— D17

Hill AFB, UT Manual Method January 1998 Respiration Test



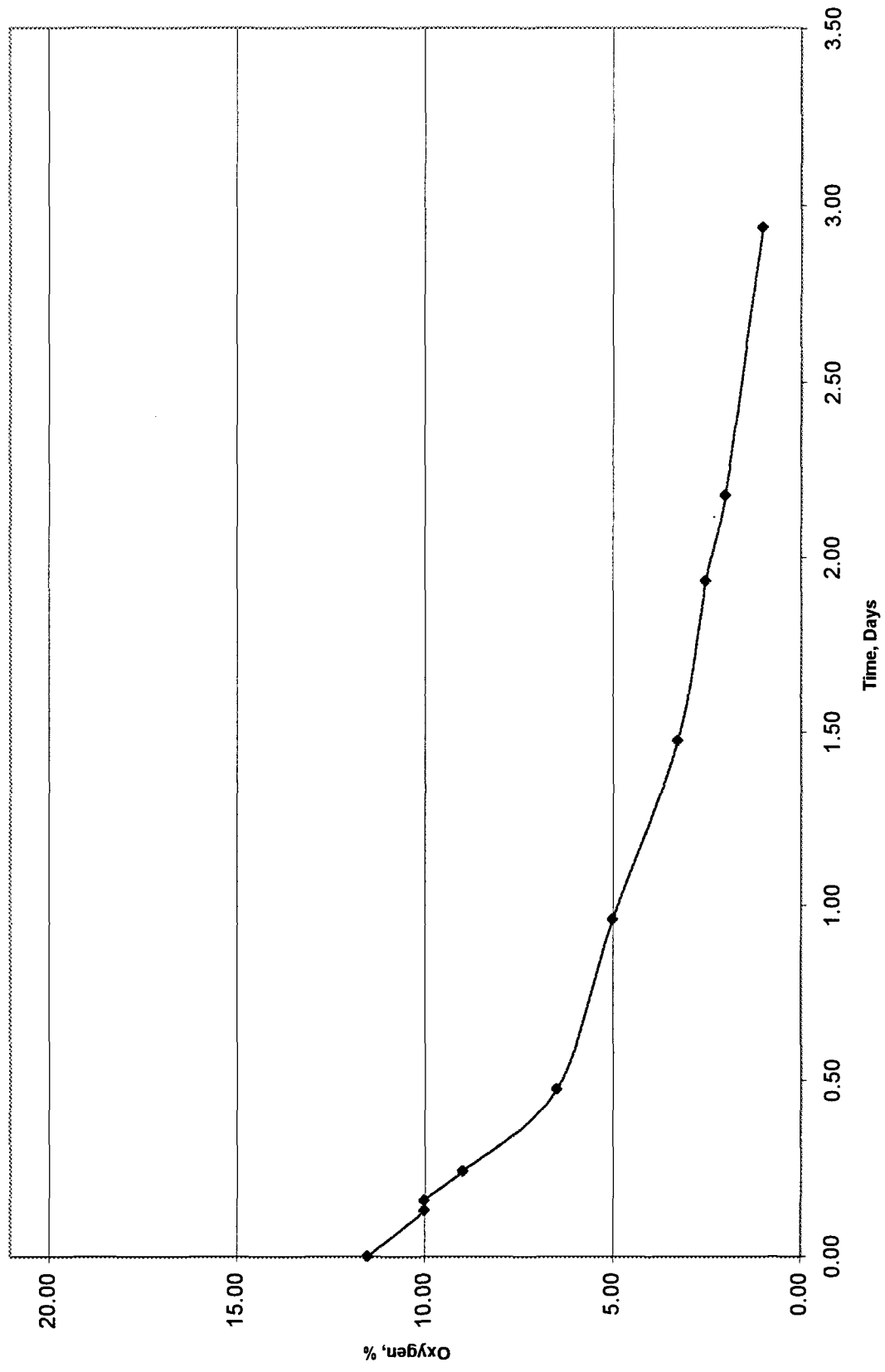
E7

Hill AFB, UT Manual Method January 1998 Respiration Test



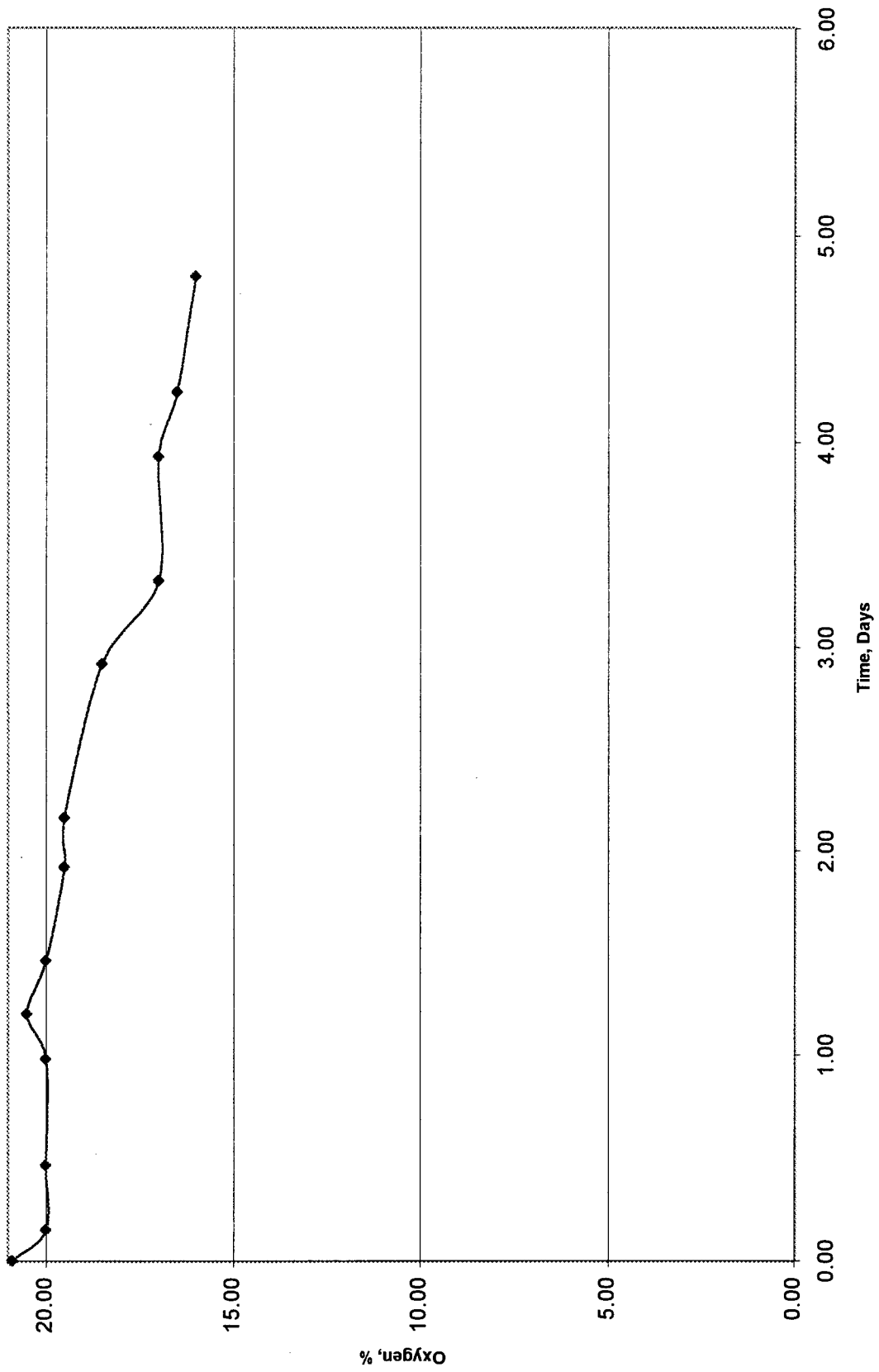
Hill AFB, UT Manual Method January 1998 Respiration Test

Hill AFB, UT Manual Method



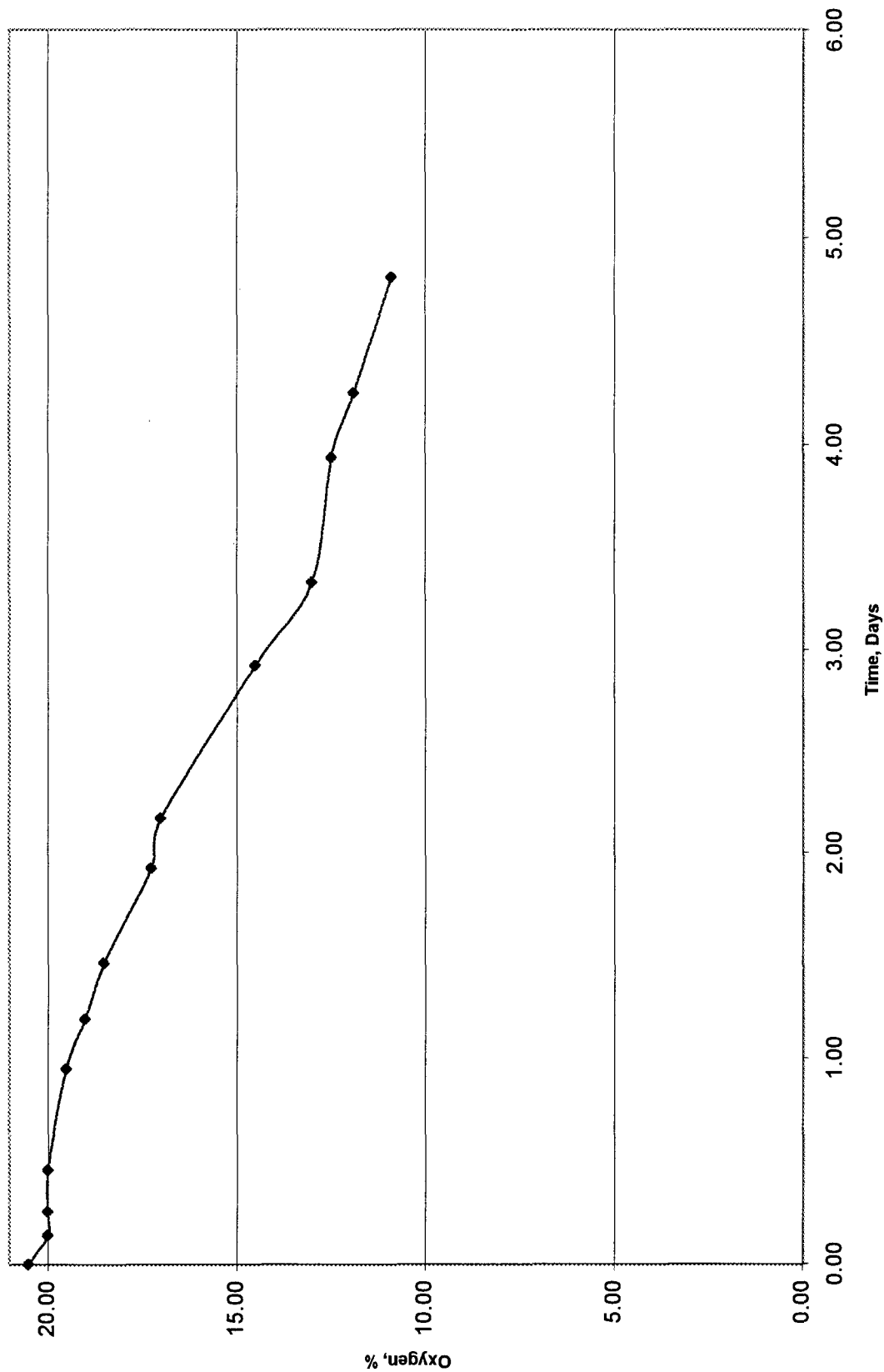
—◆— E17

Hill AFB, UT Manual Method January 1998 Respiration Test



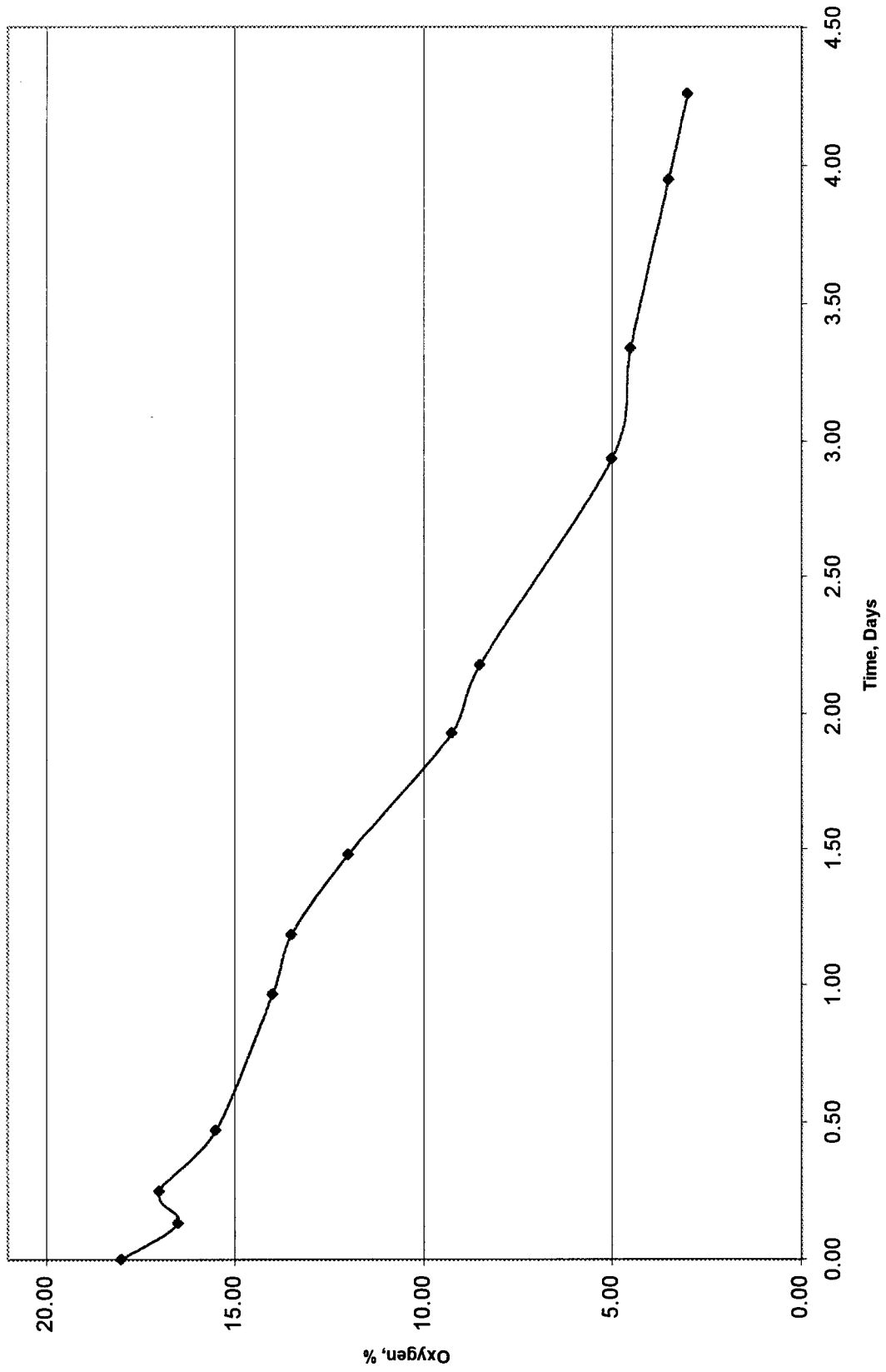
F7

Hill AFB, UT Manual Method January 1998 Respiration Test

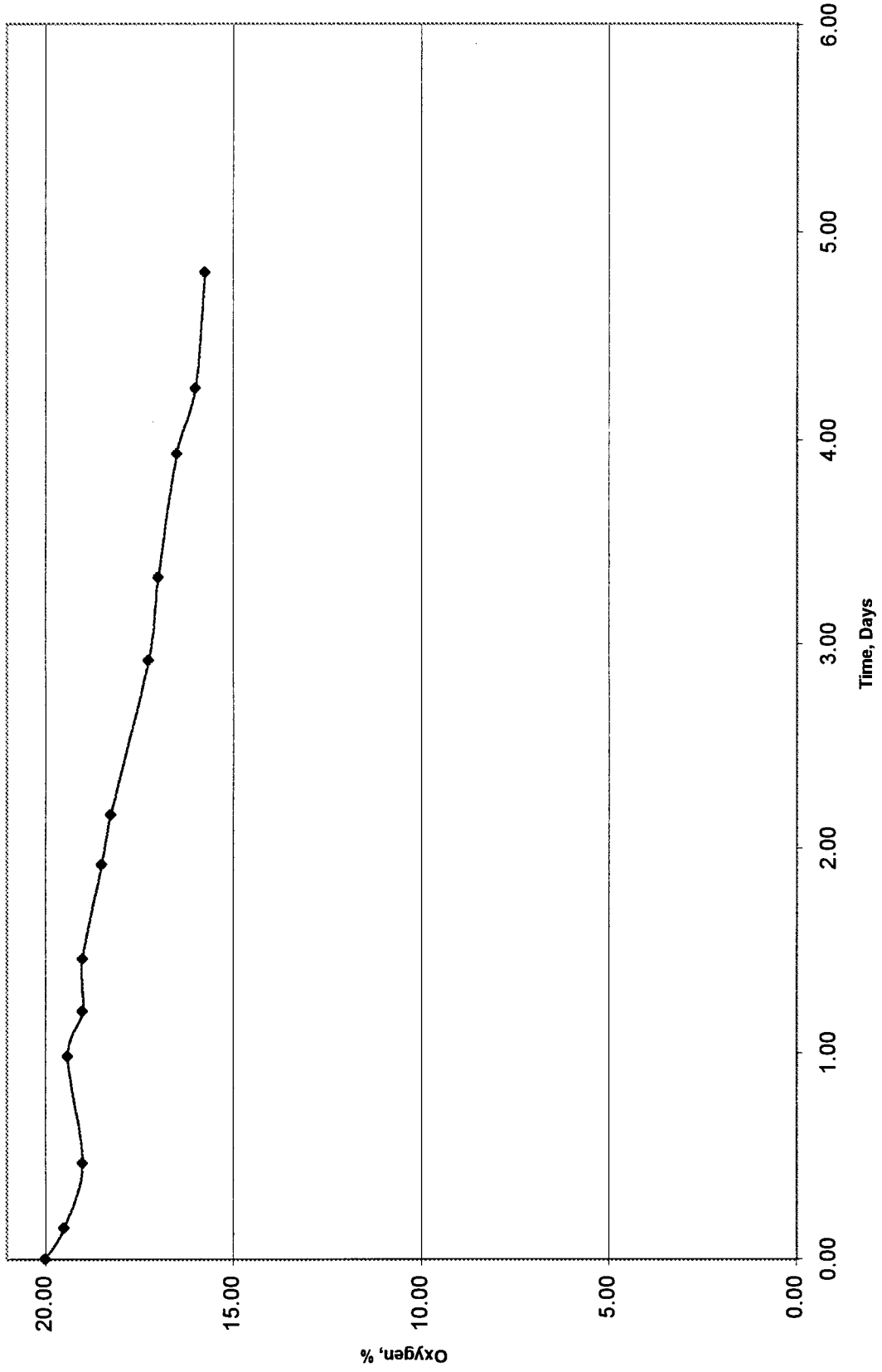


F12

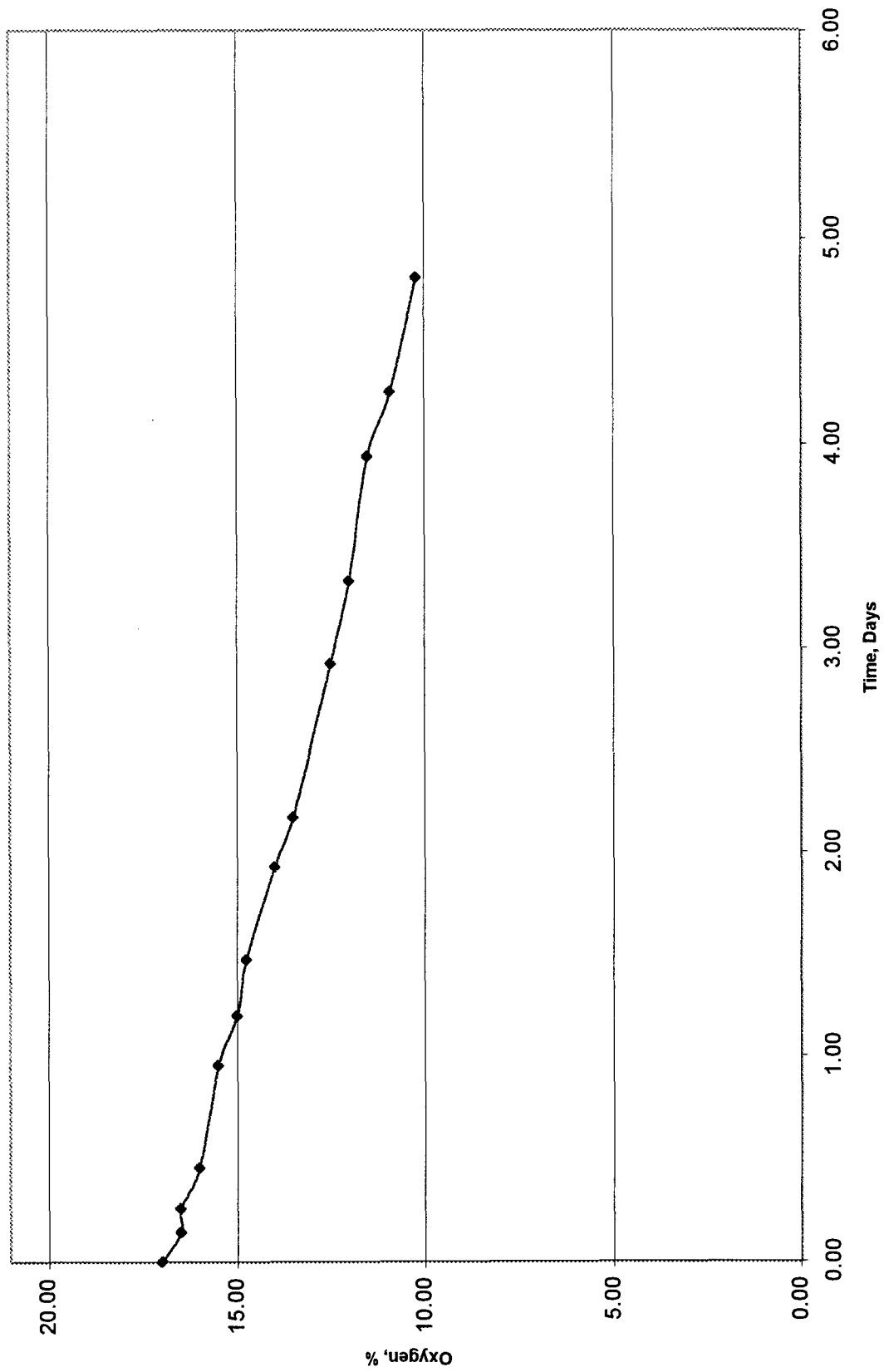
Hill AFB, UT Manual Method January 1998 Respiration Test



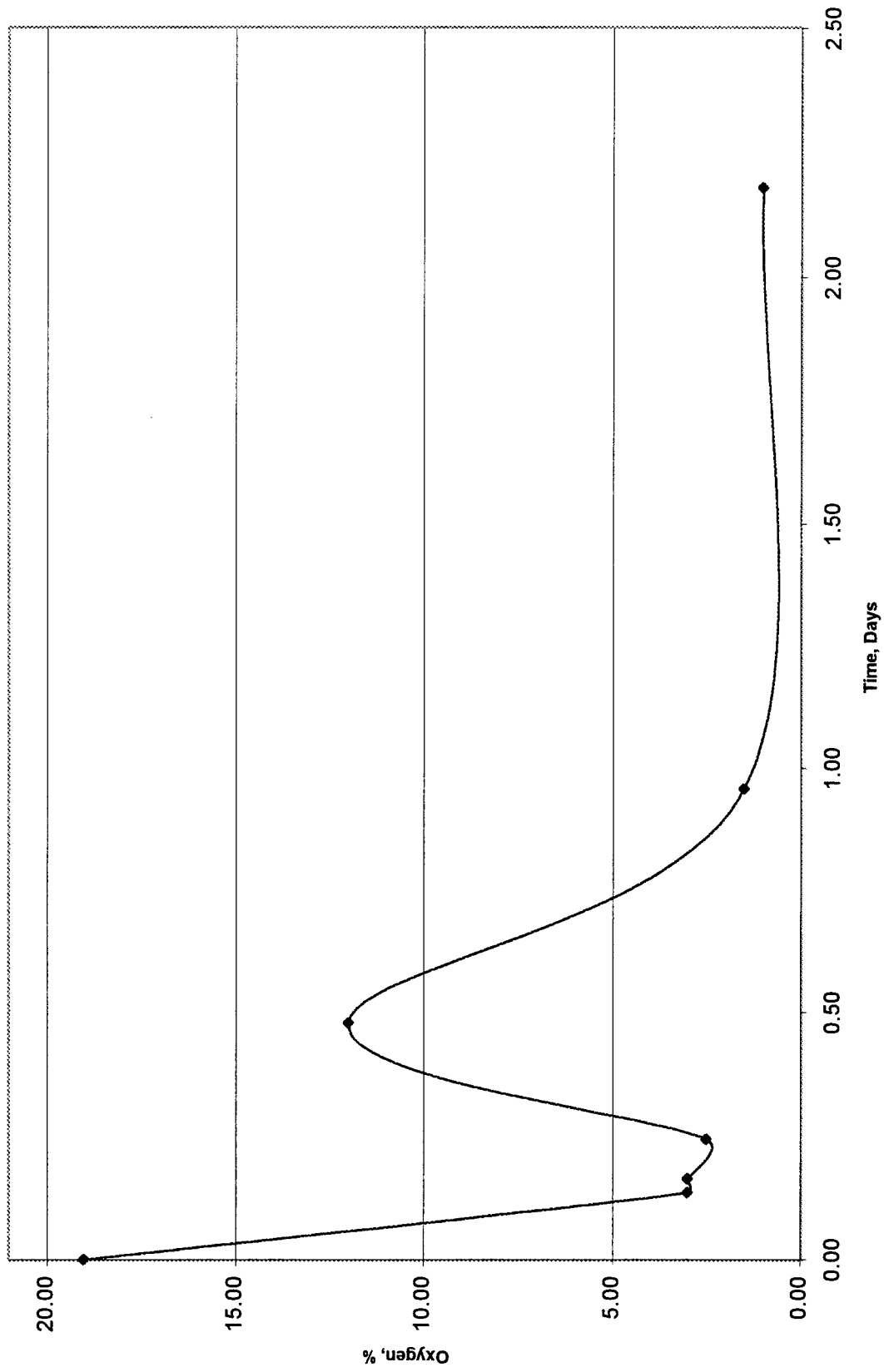
Hill AFB, UT Manual Method January 1998 Respiration Test



Hill AFB, UT Manual Method January 1998 Respiration Test

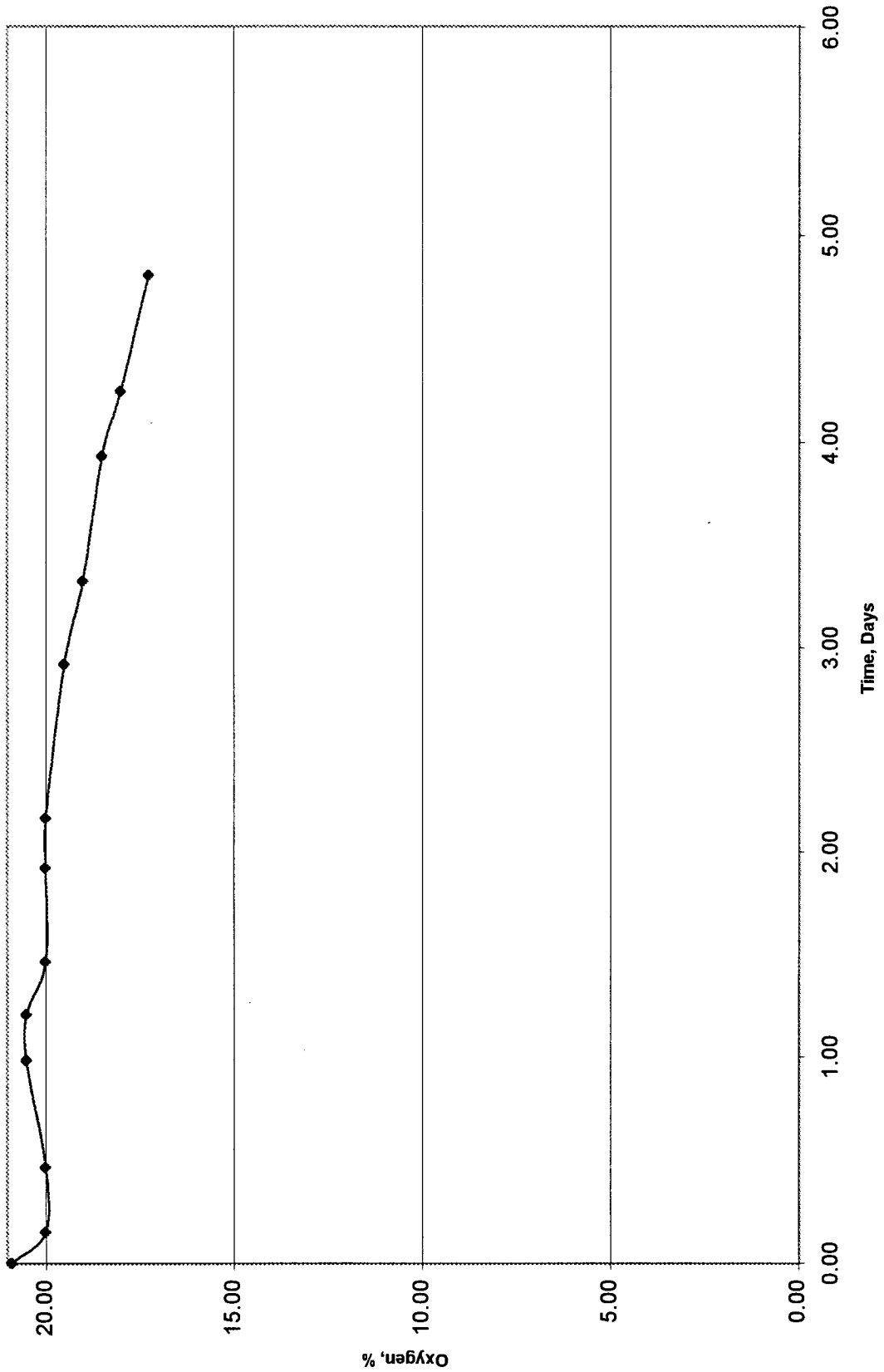


Hill AFB, UT Manual Method January 1998 Respiration Test

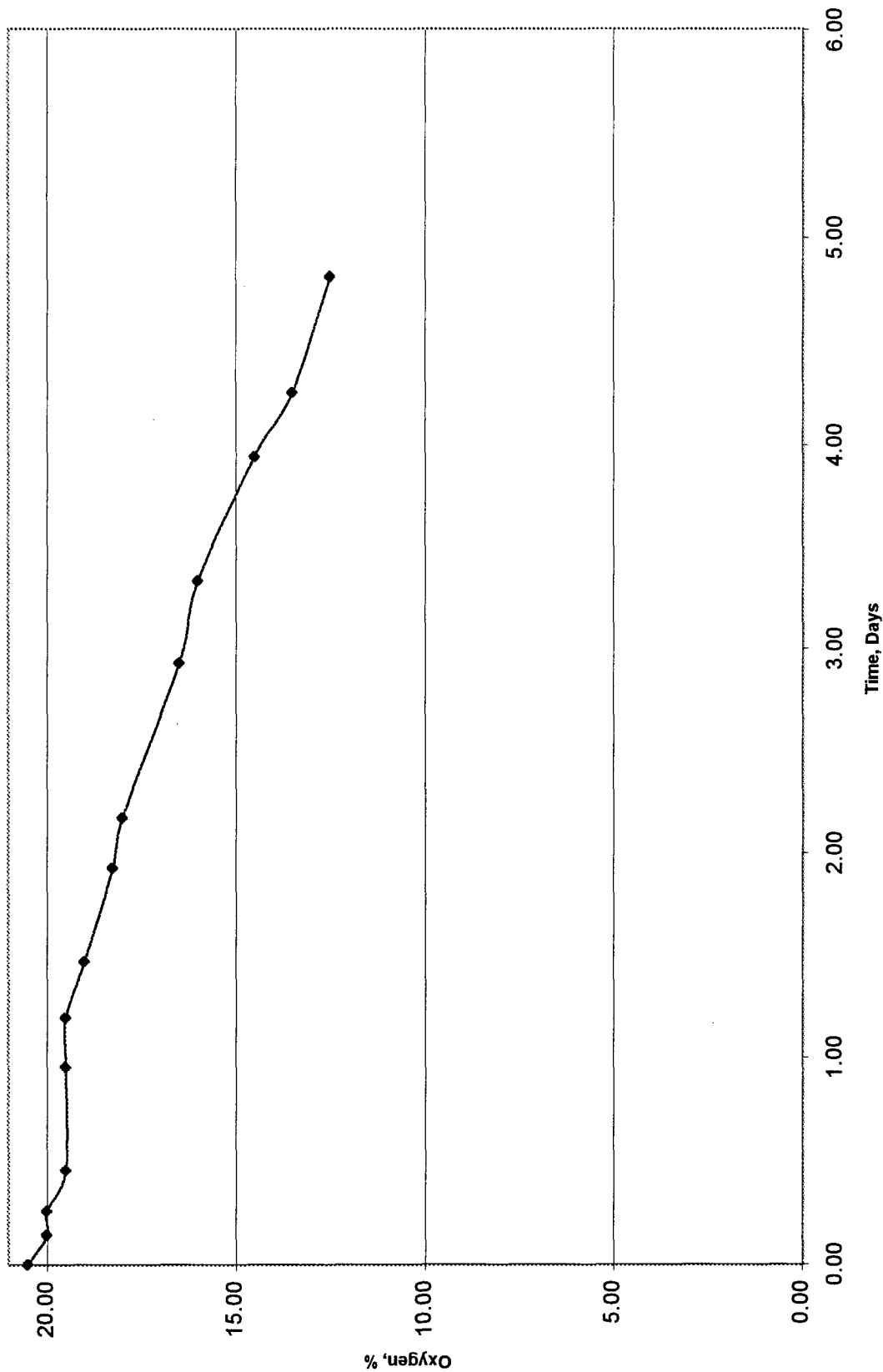


—●— G17

Hill AFB, UT Manual Method January 1998 Respiration Test

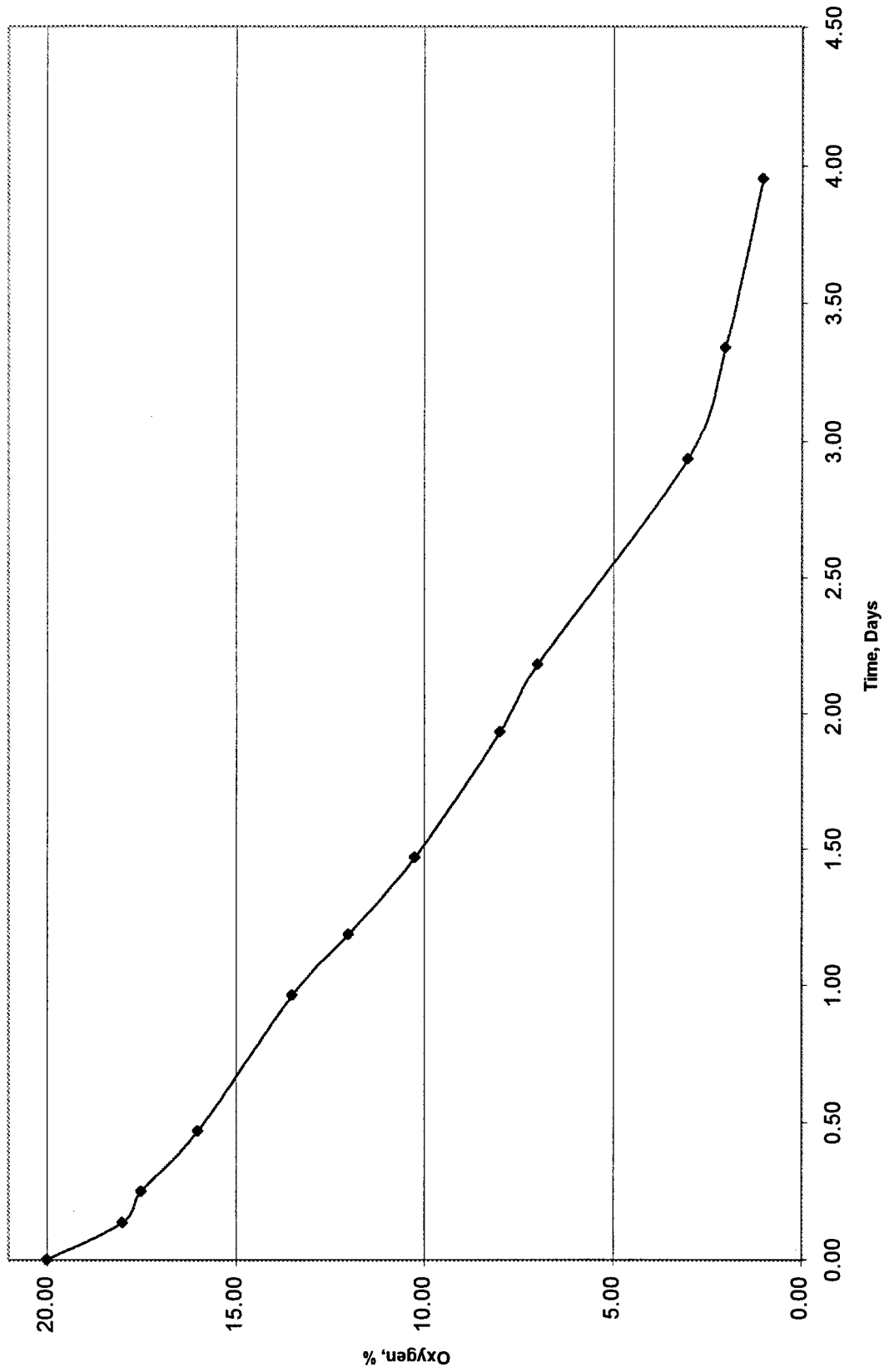


Hill AFB, UT Manual Method January 1998 Respiration Test



H12

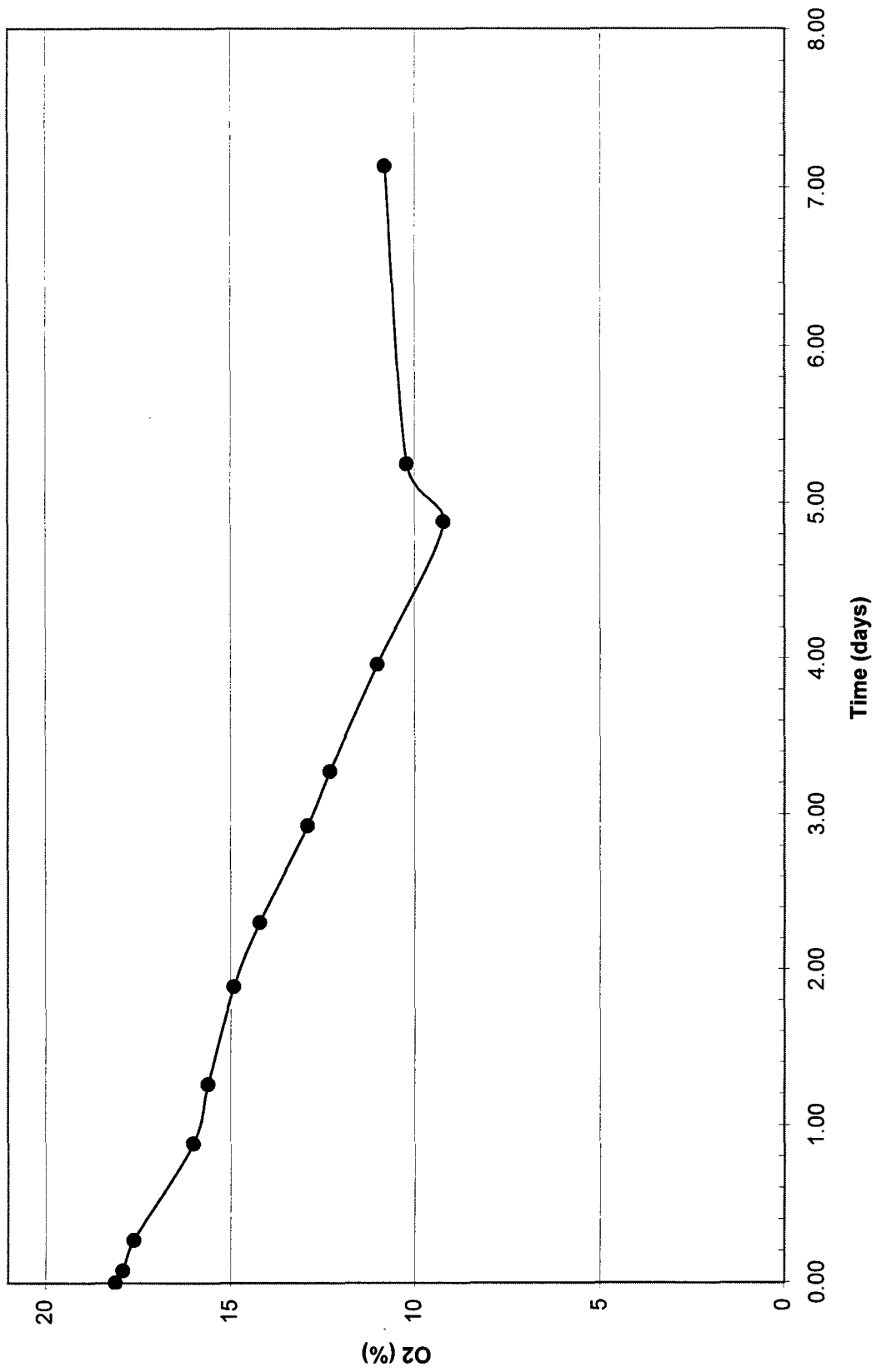
Hill AFB, UT Manual Method January 1998 Respiration Test



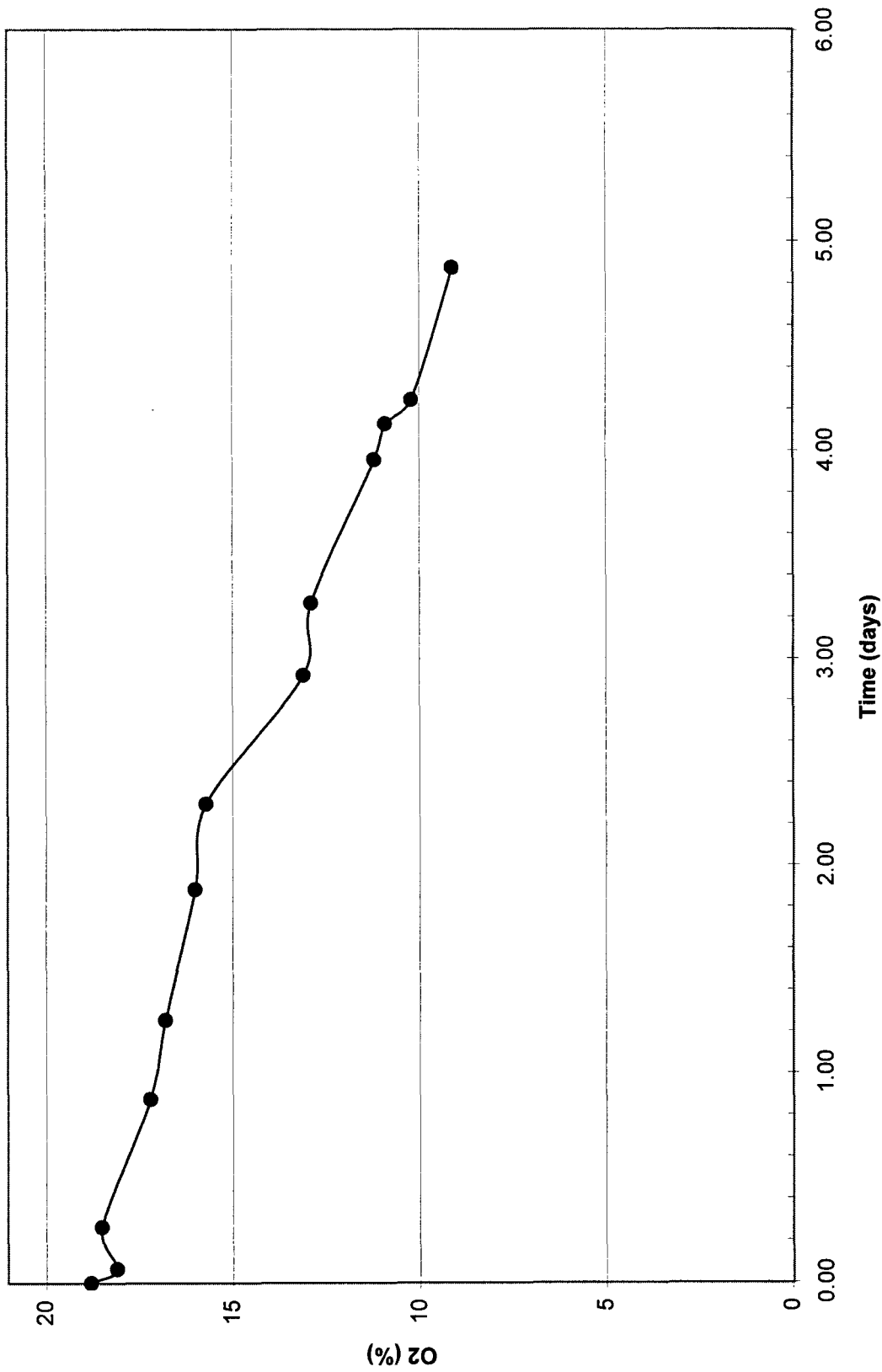
**OXYGEN UTILIZATION PLOTS
MONITORED BY
MANUAL METHOD
DURING RESPIRATION TESTING**

April 1998

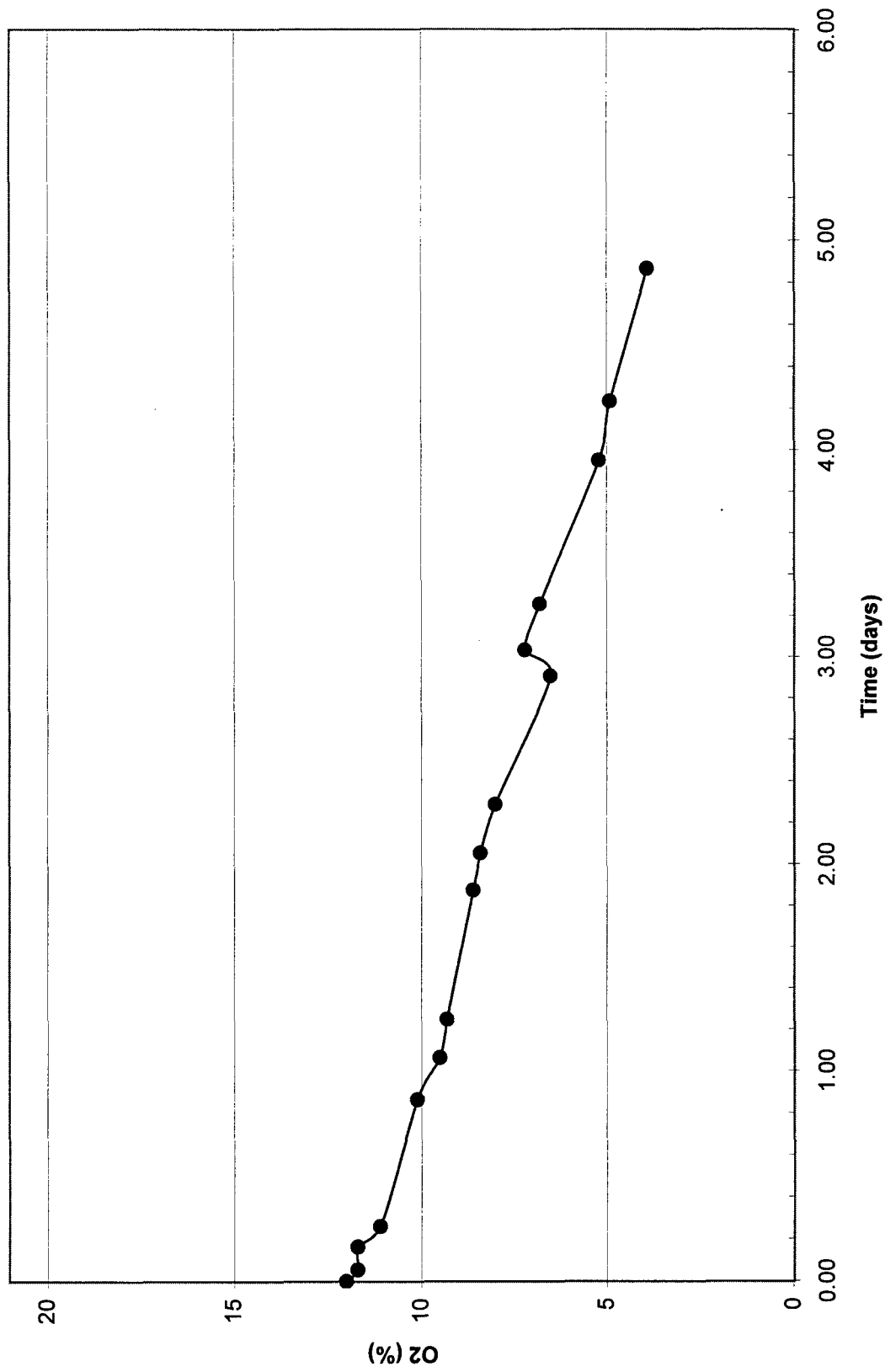
Hill AFB, UT Manual Method April 1998 Respiration Test



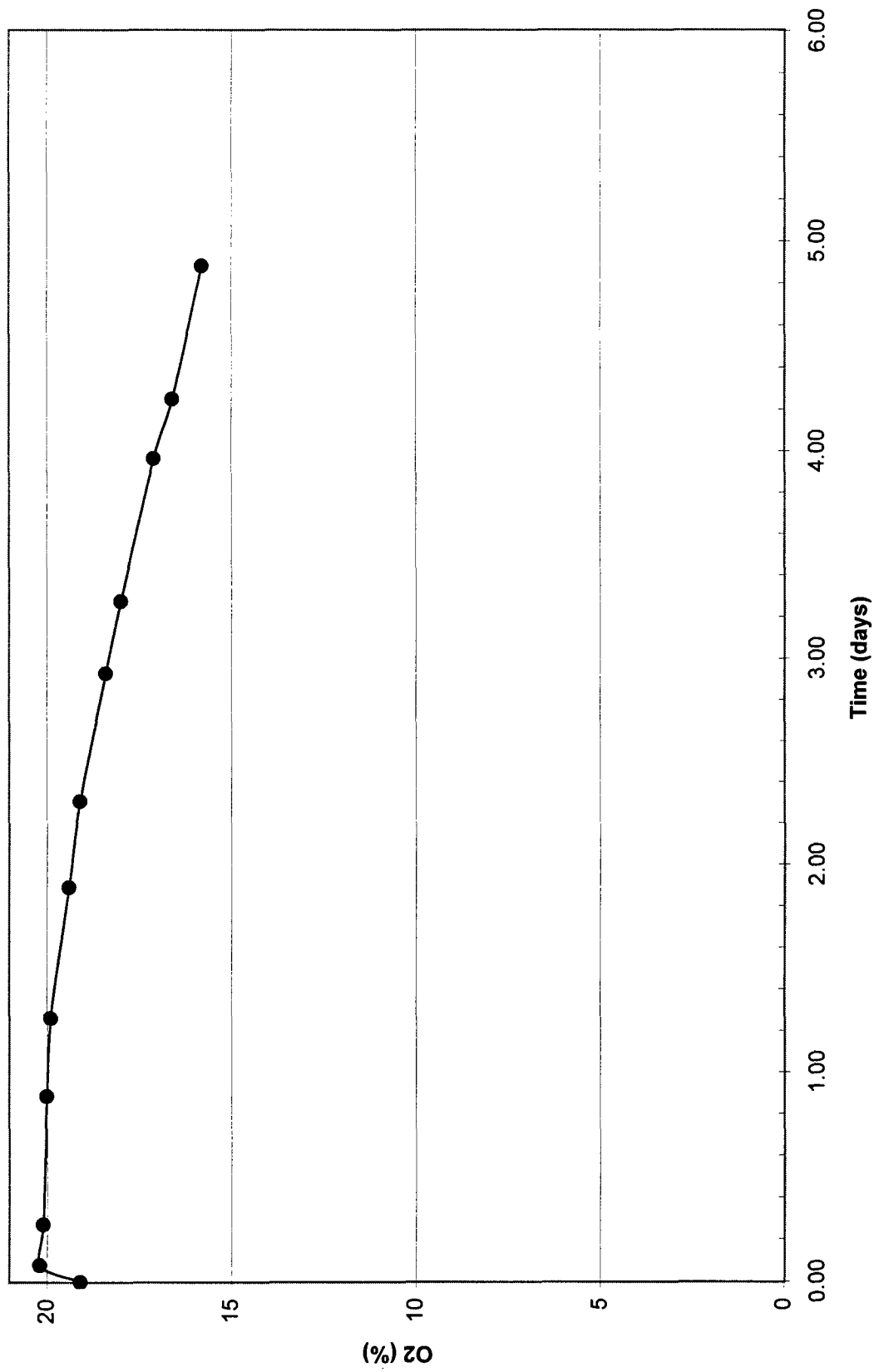
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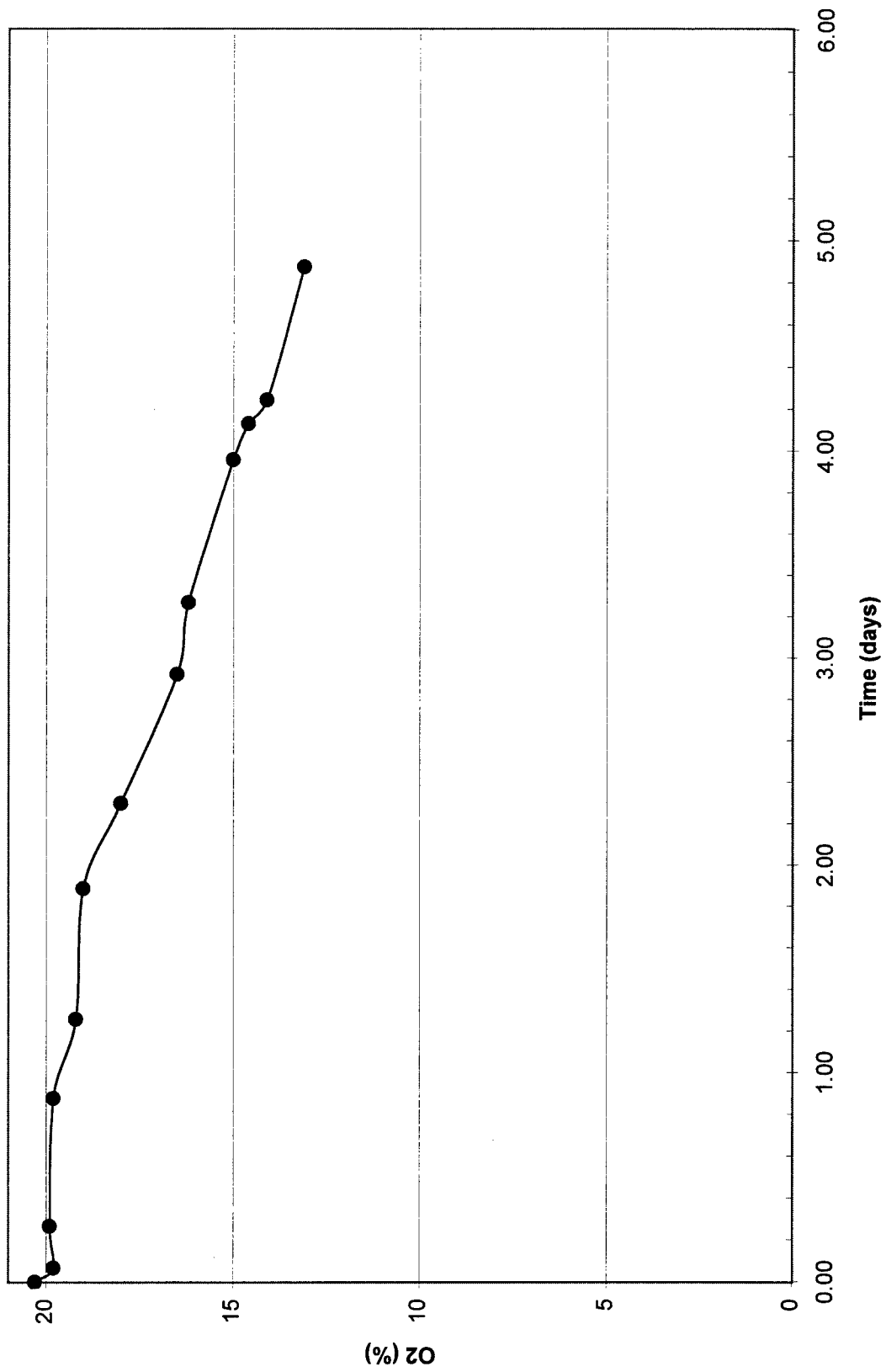
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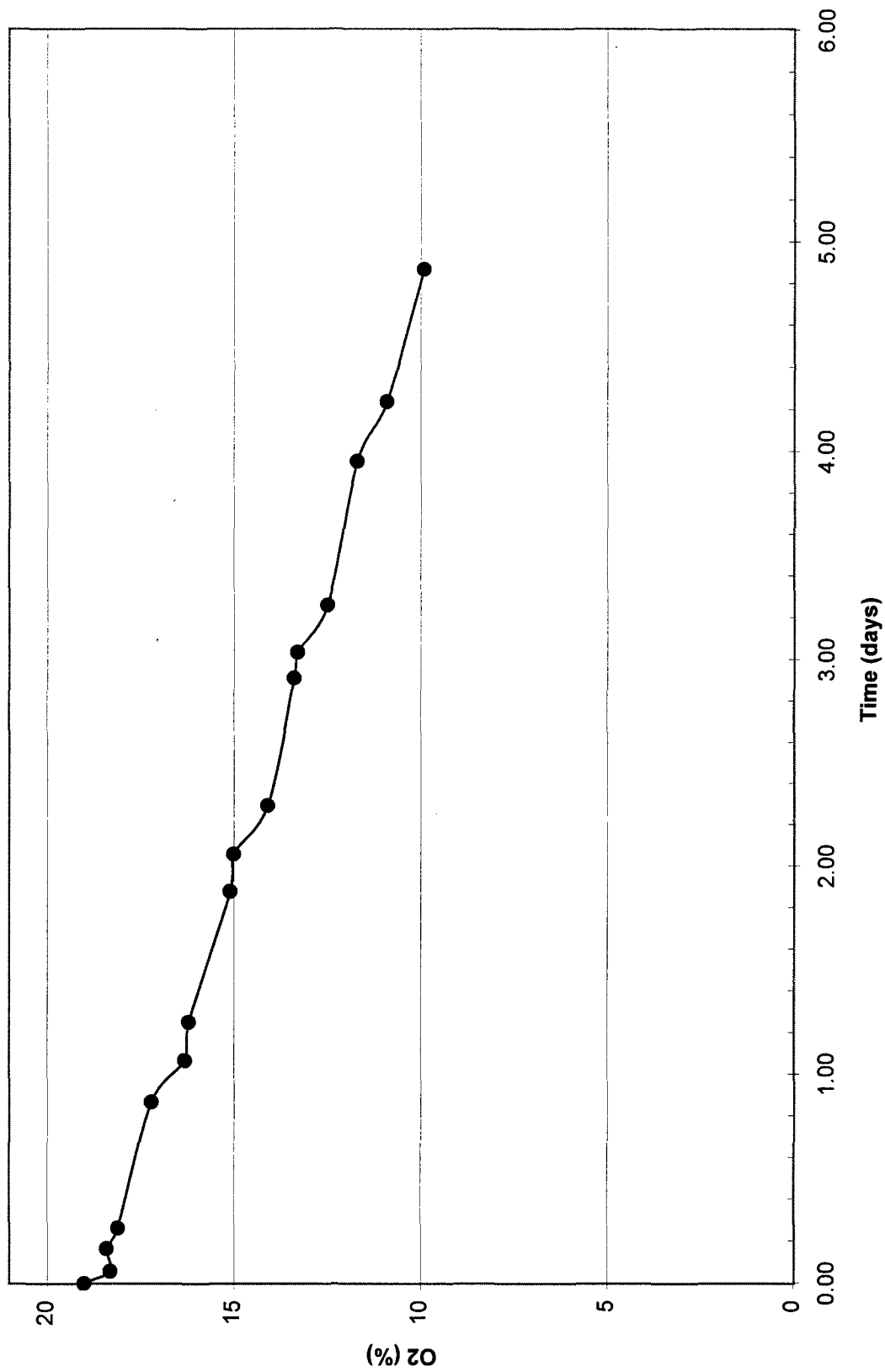
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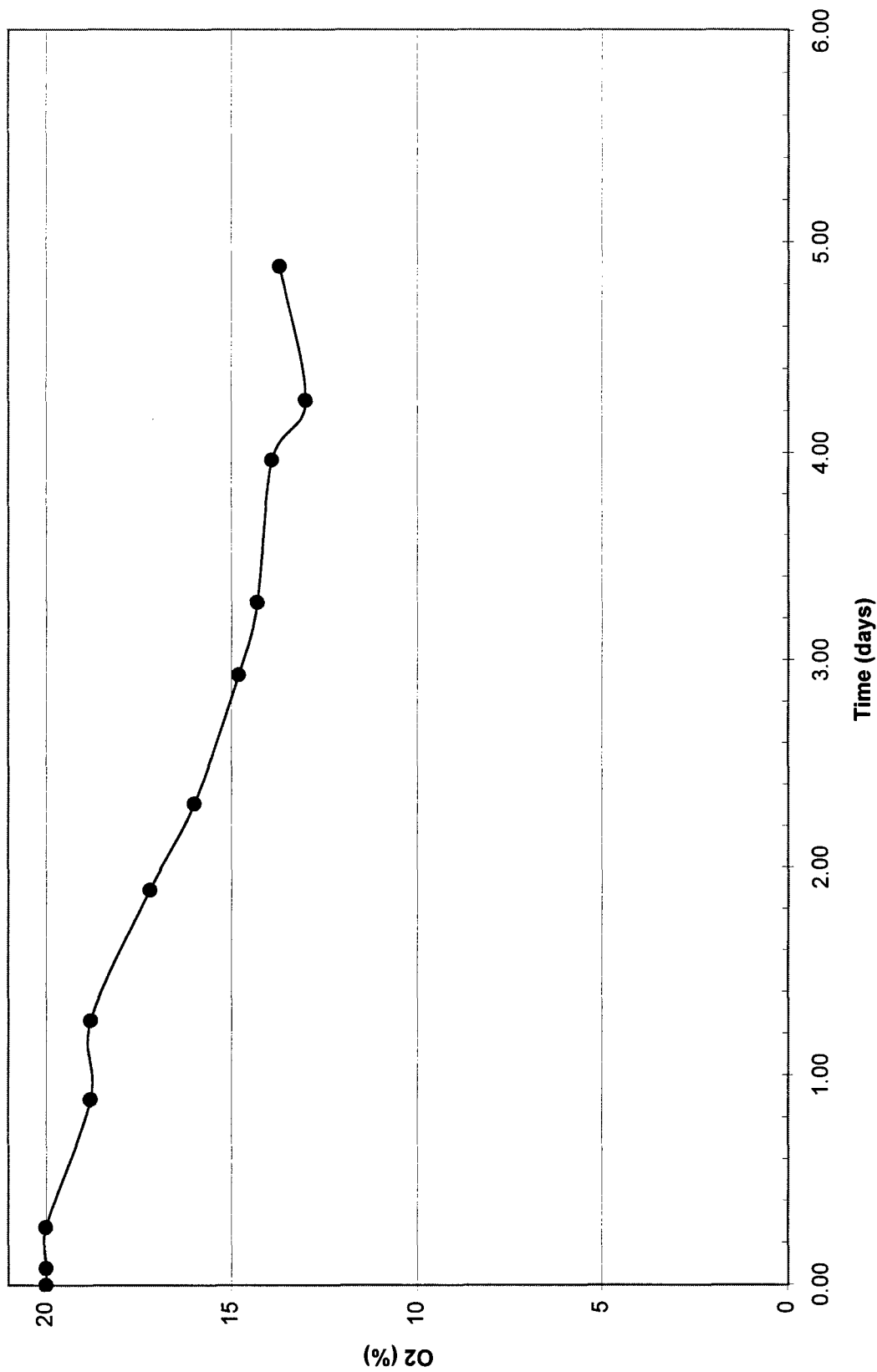
Hill AFB, UT Manual Method April 1998 Respiration Test



Hill AFB, UT Manual Method April 1998 Respiration Test

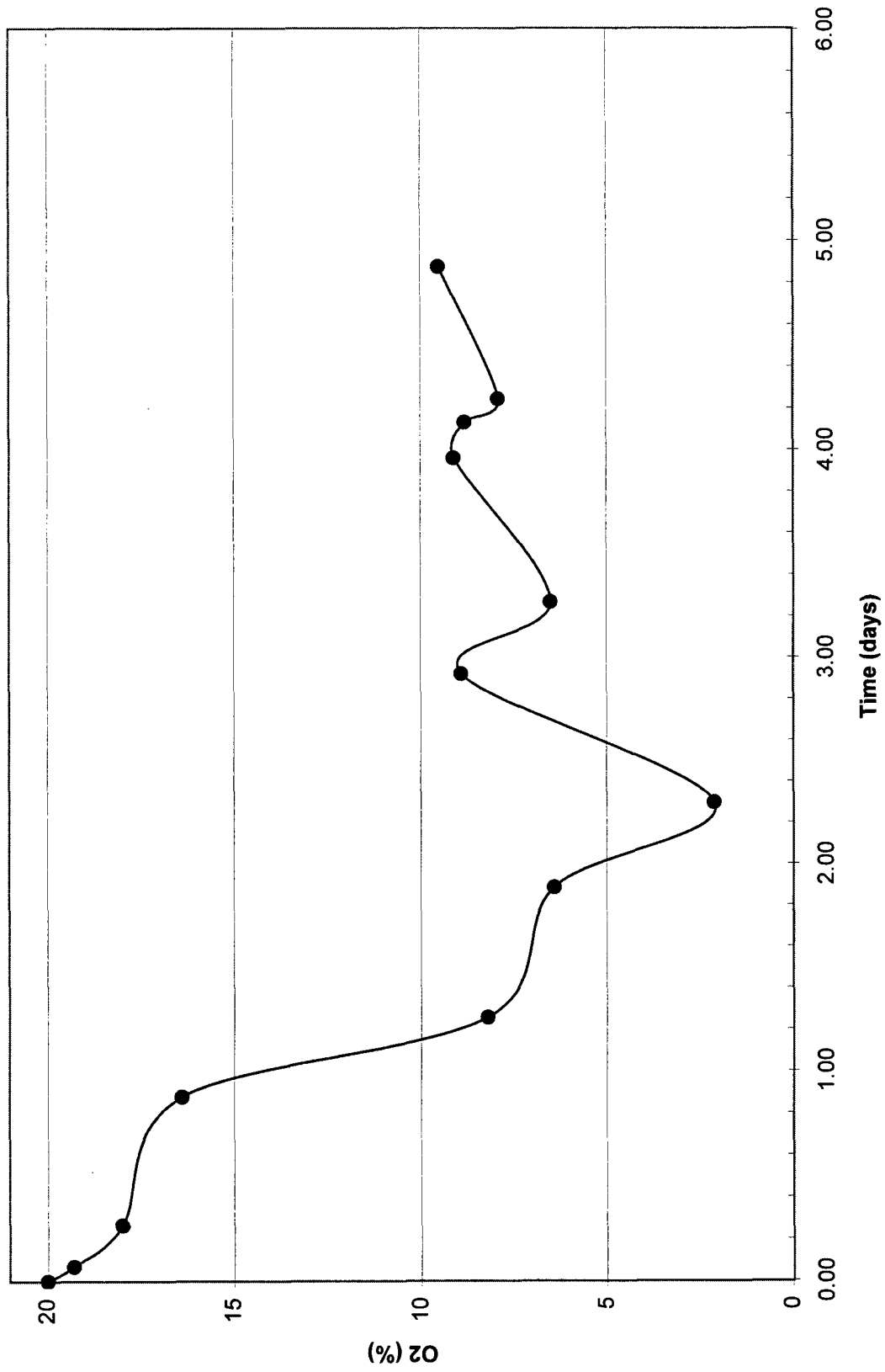


Hill AFB, UT Manual Method April 1998 Respiration Test

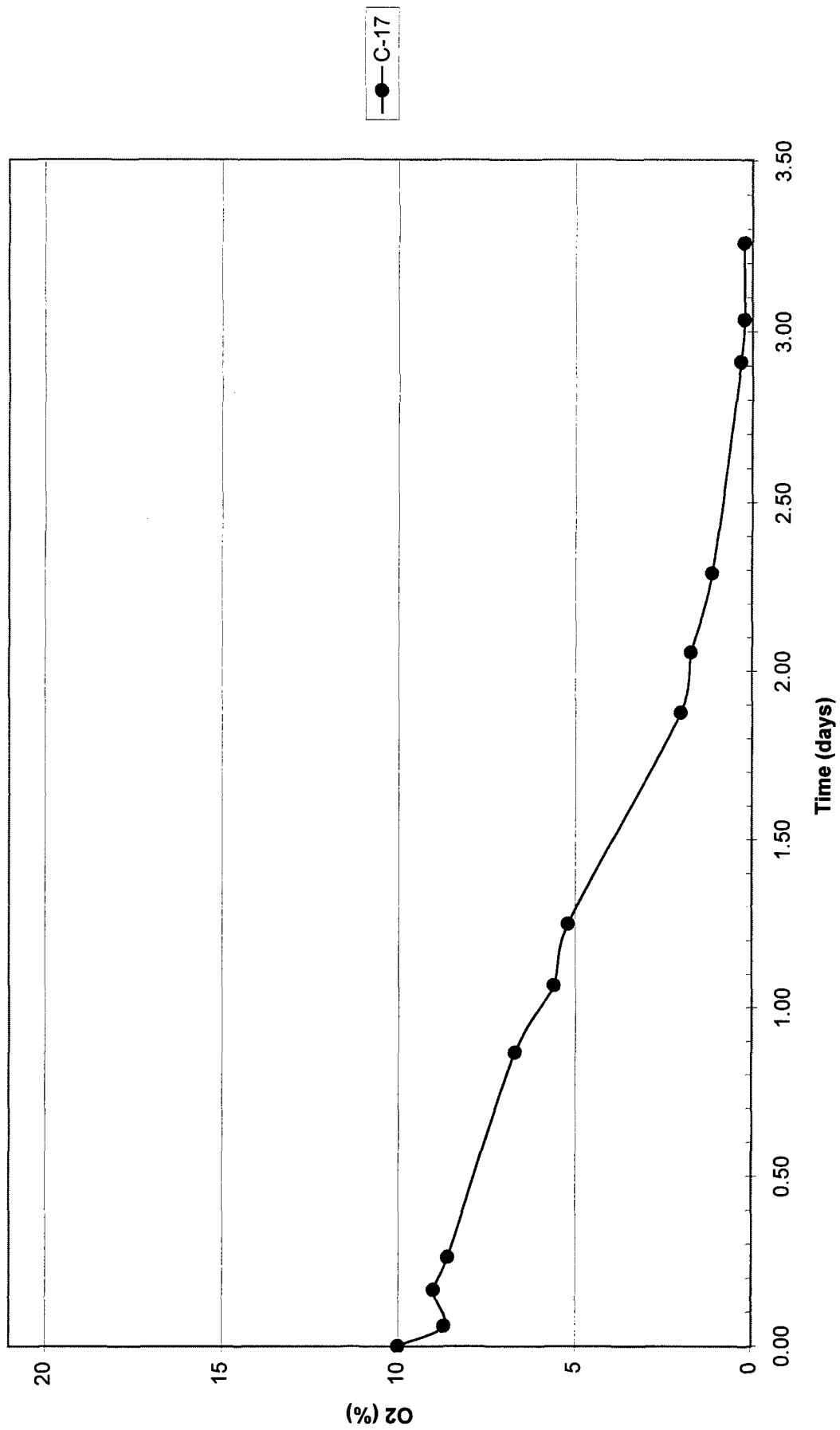


C-7

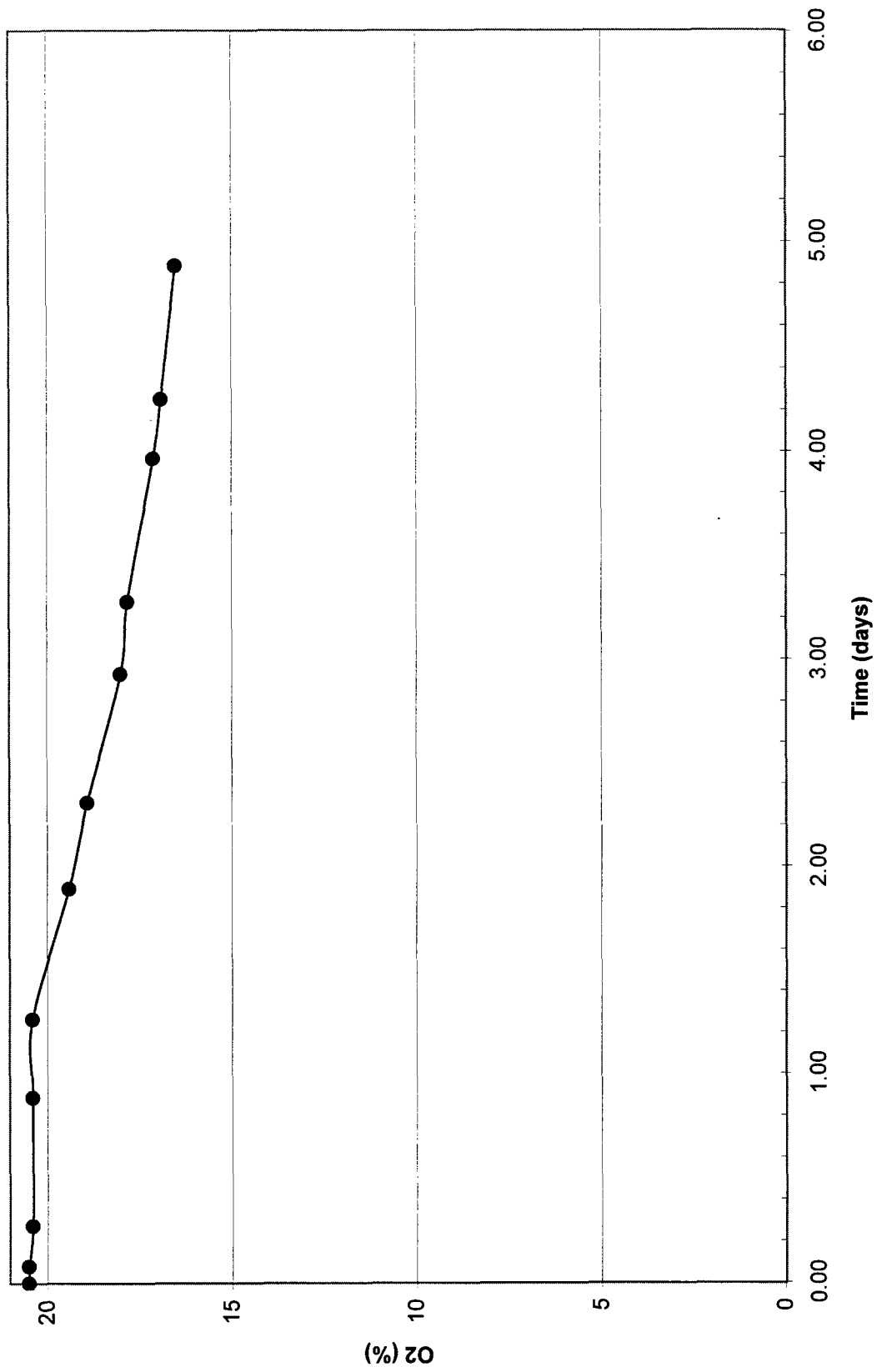
Hill AFB, UT Manual Method April 1998 Respiration Test



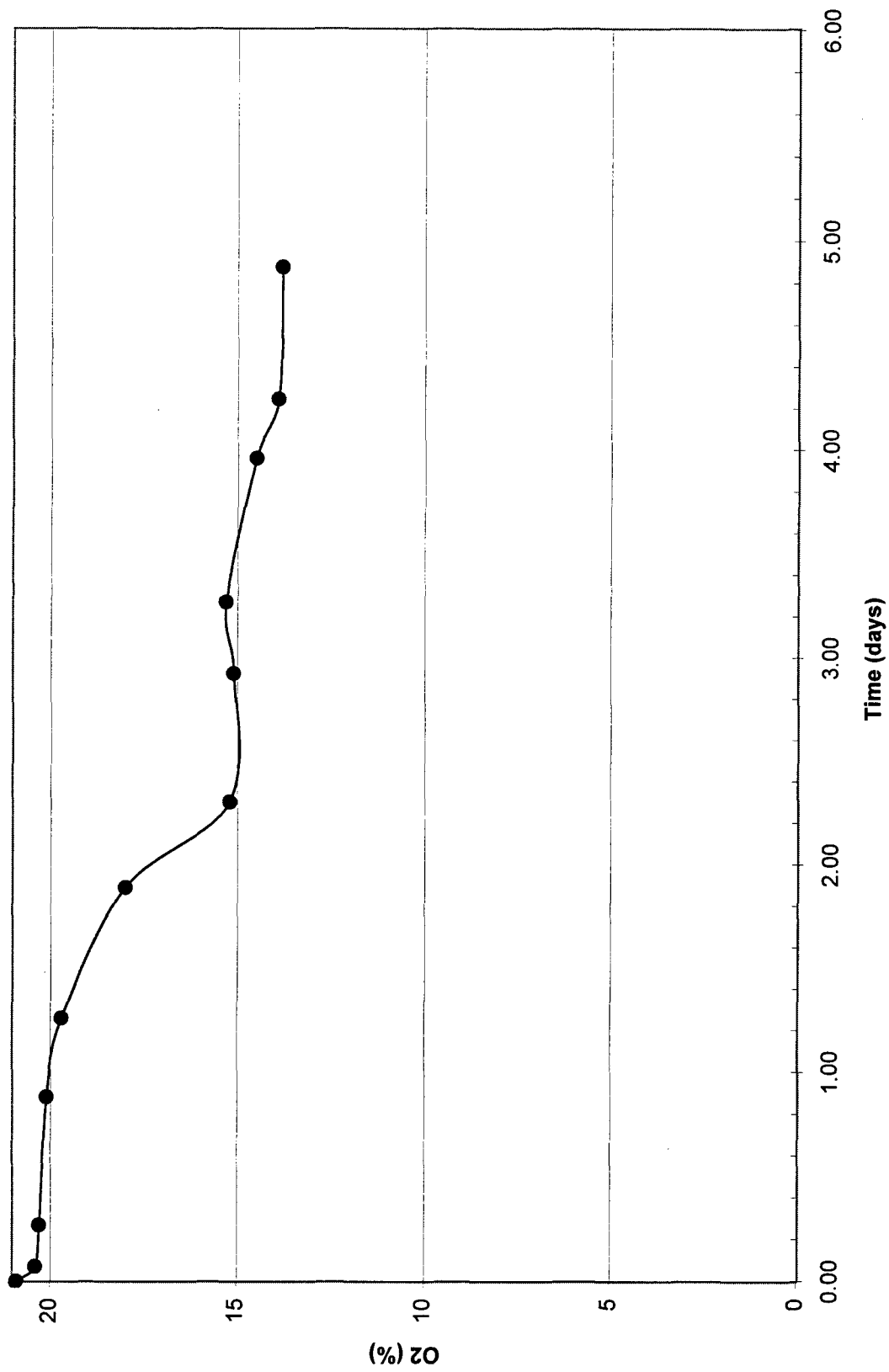
Hill AFB, UT Manual Method April 1998 Respiration Test



Hill AFB, UT Manual Method April 1998 Respiration Test

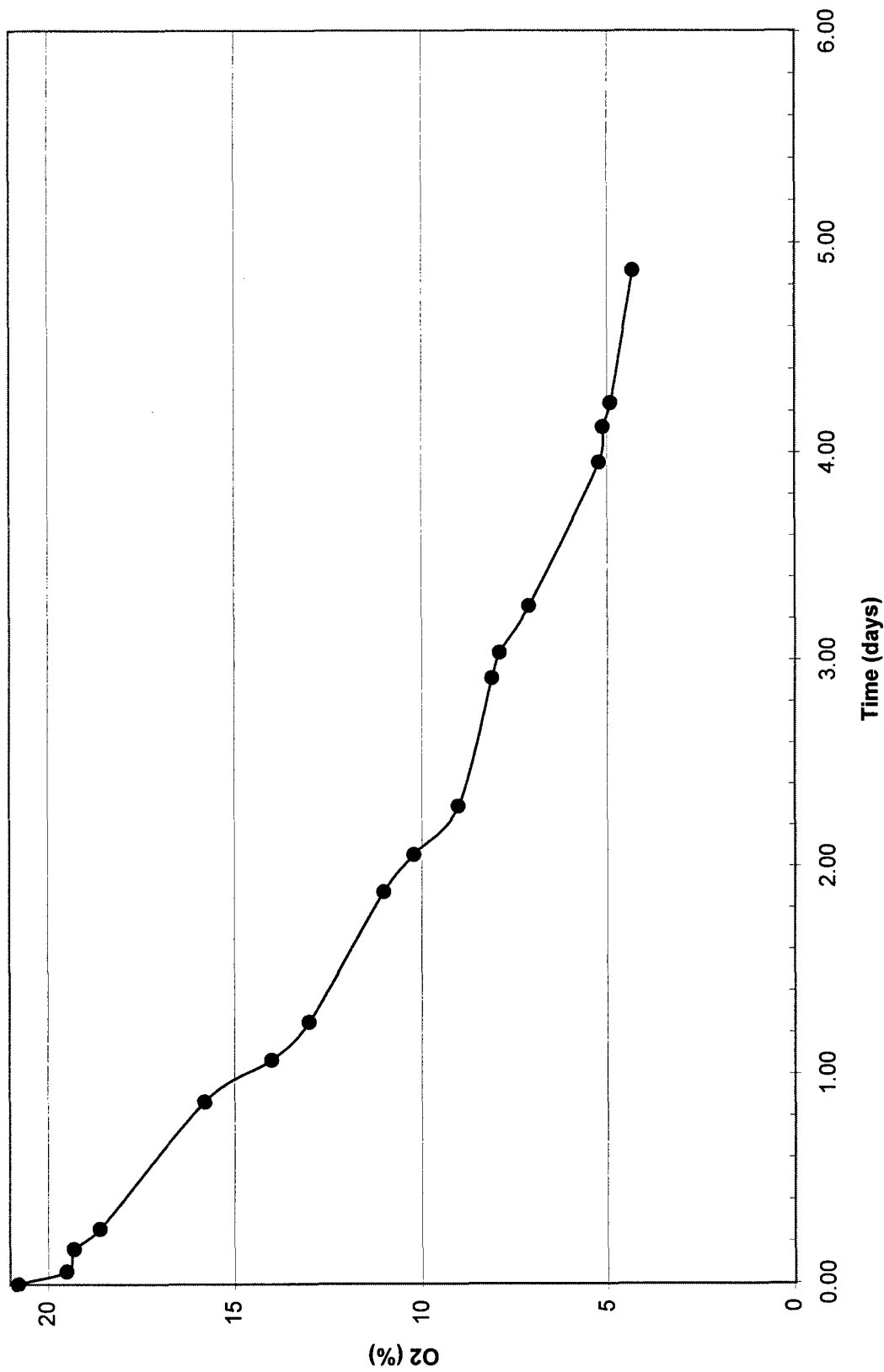


Hill AFB, UT Manual Method April 1998 Respiration Test

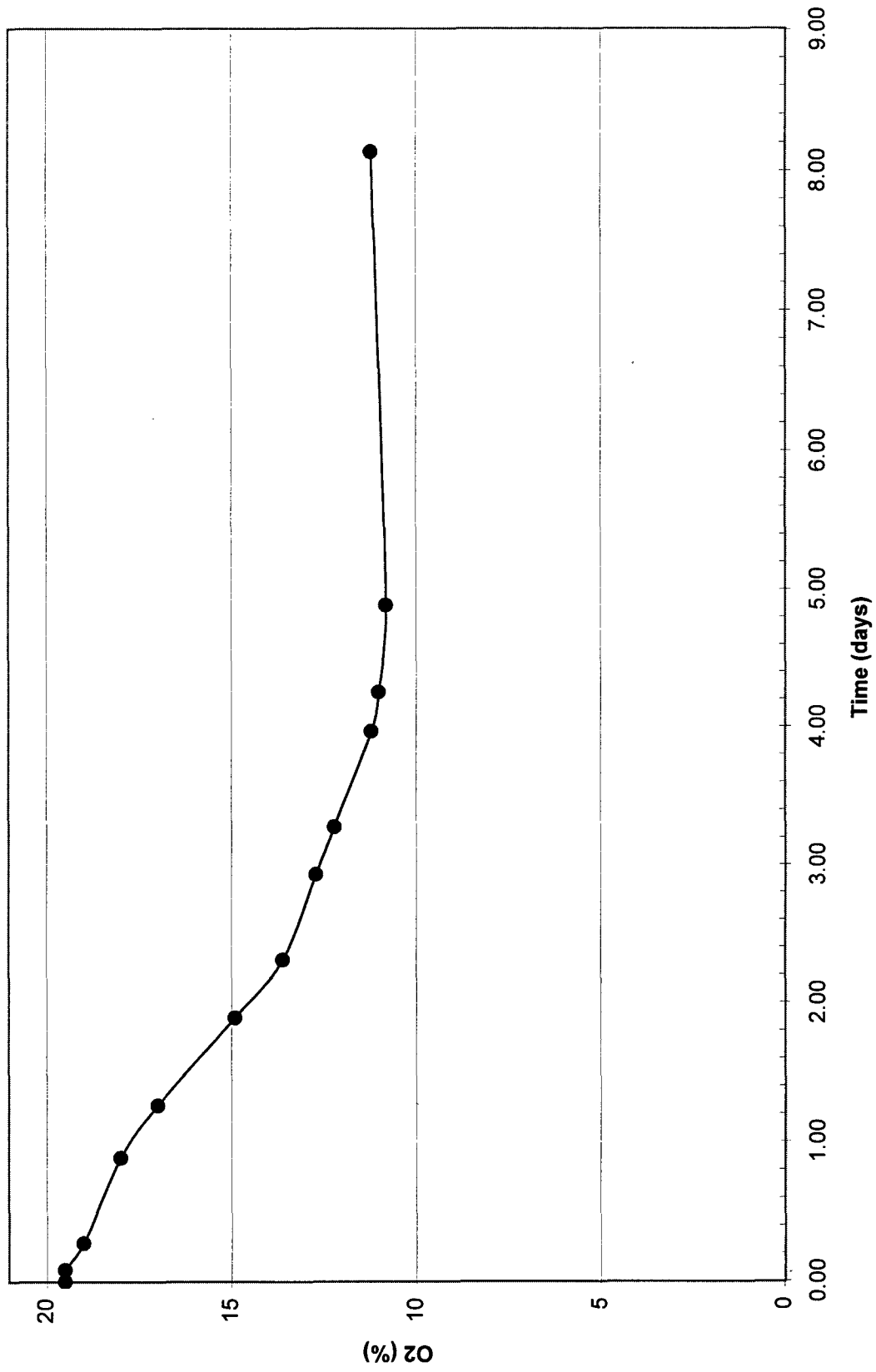


—●— D-12

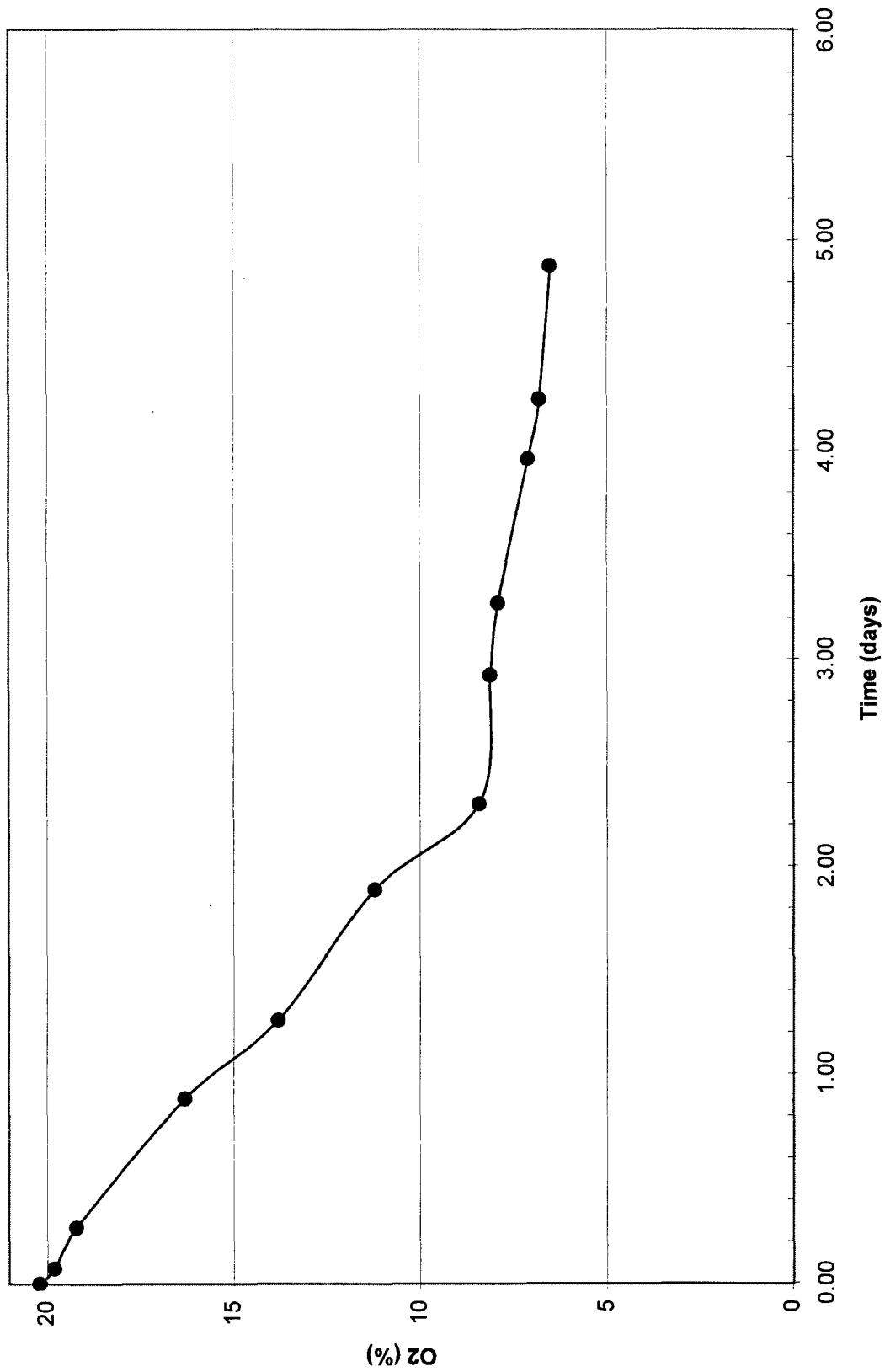
Hill AFB, UT Manual Method April 1998 Respiration Test



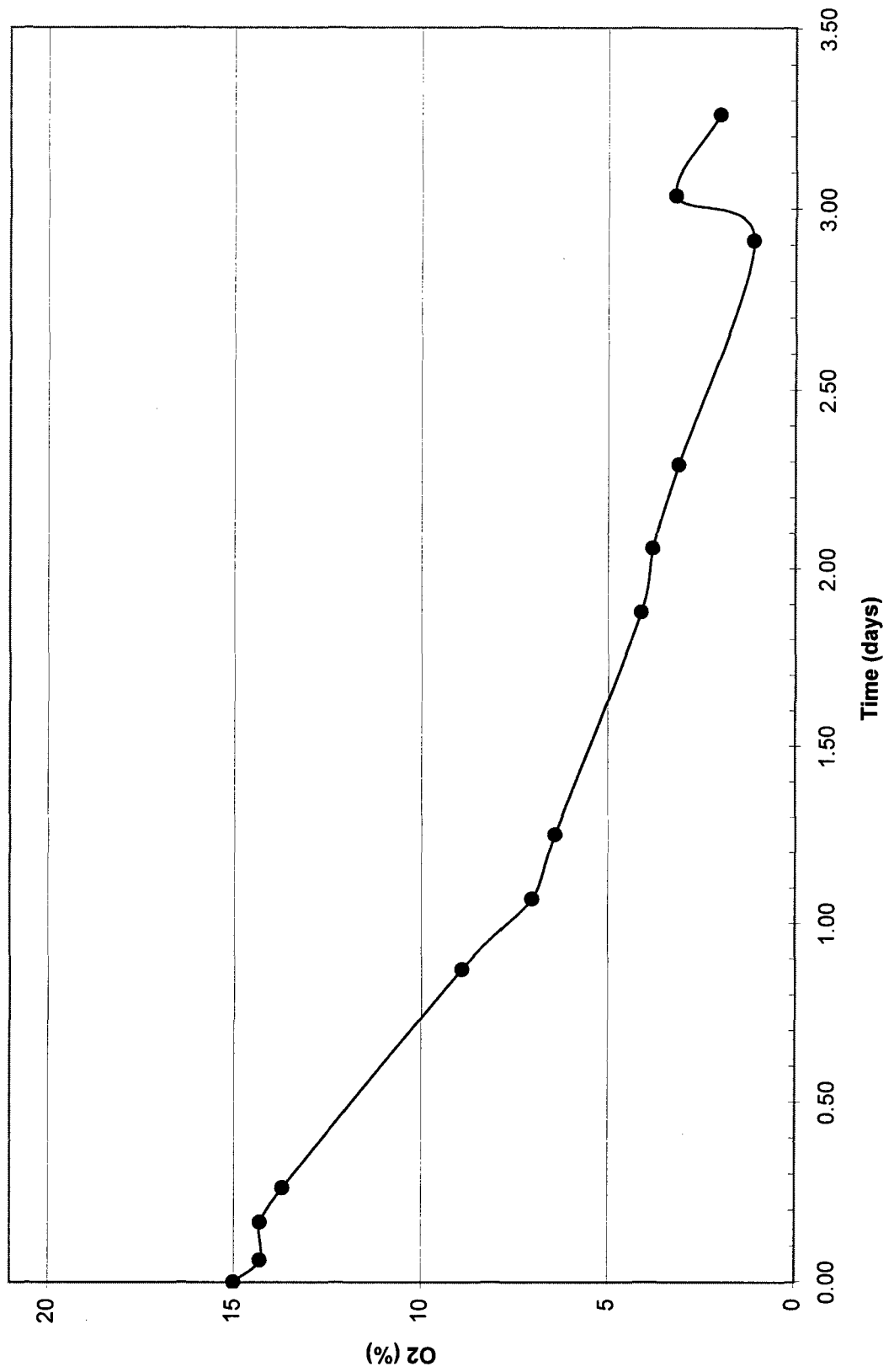
Hill AFB, UT Manual Method April 1998 Respiration Test



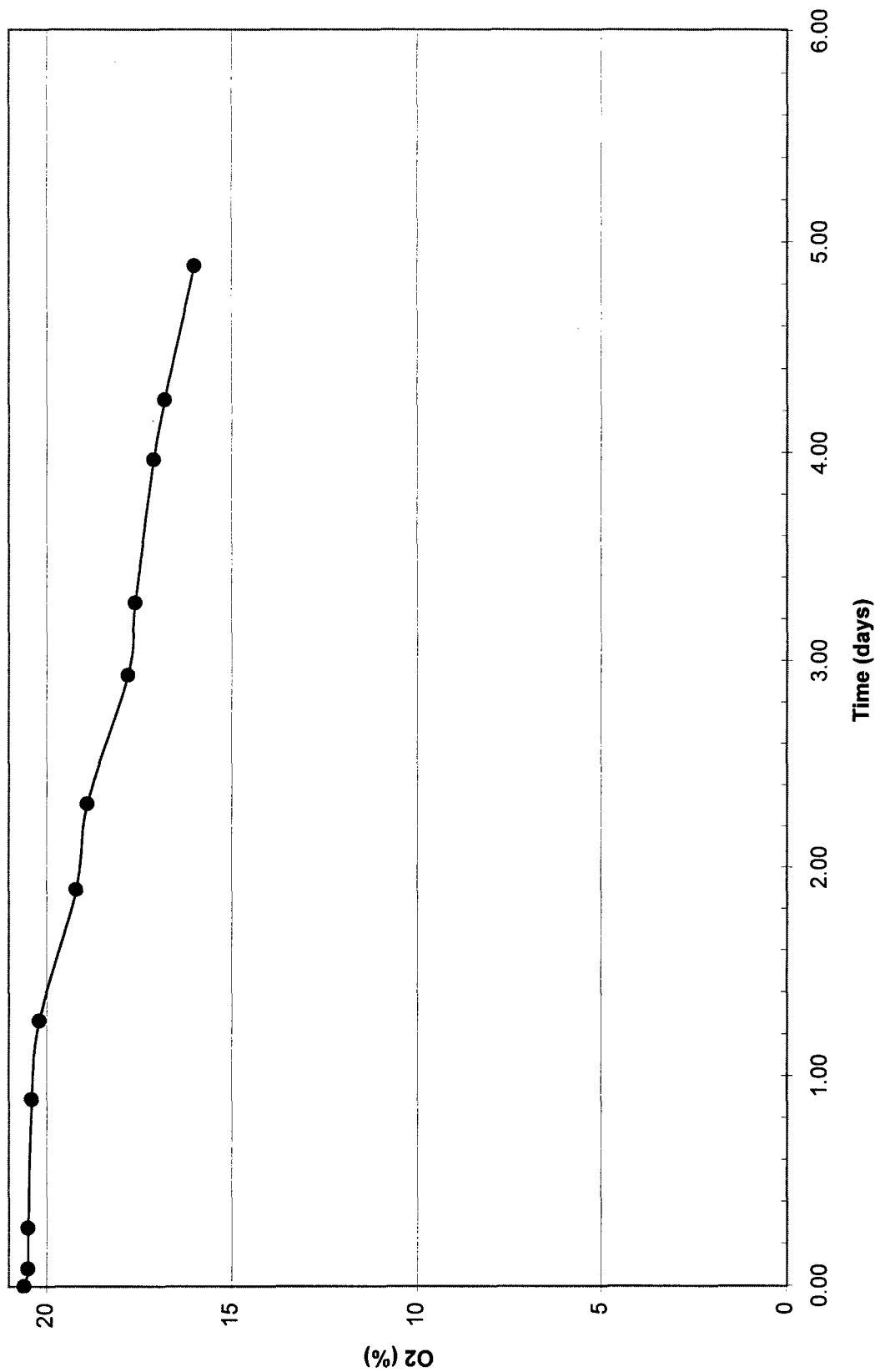
Hill AFB, UT Manual Method April 1998 Respiration Test



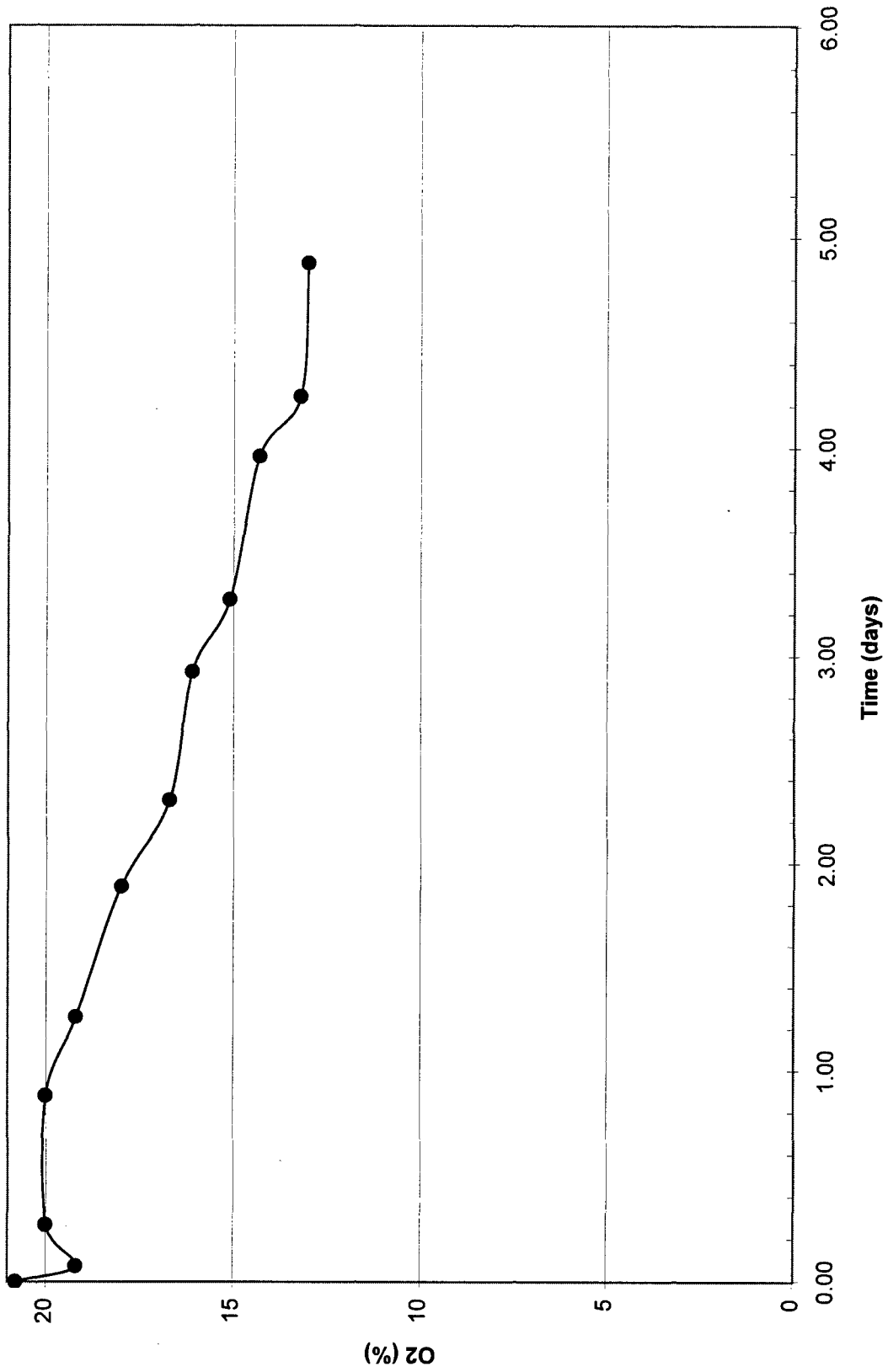
Hill AFB, UT Manual Method April 1998 Respiration Test



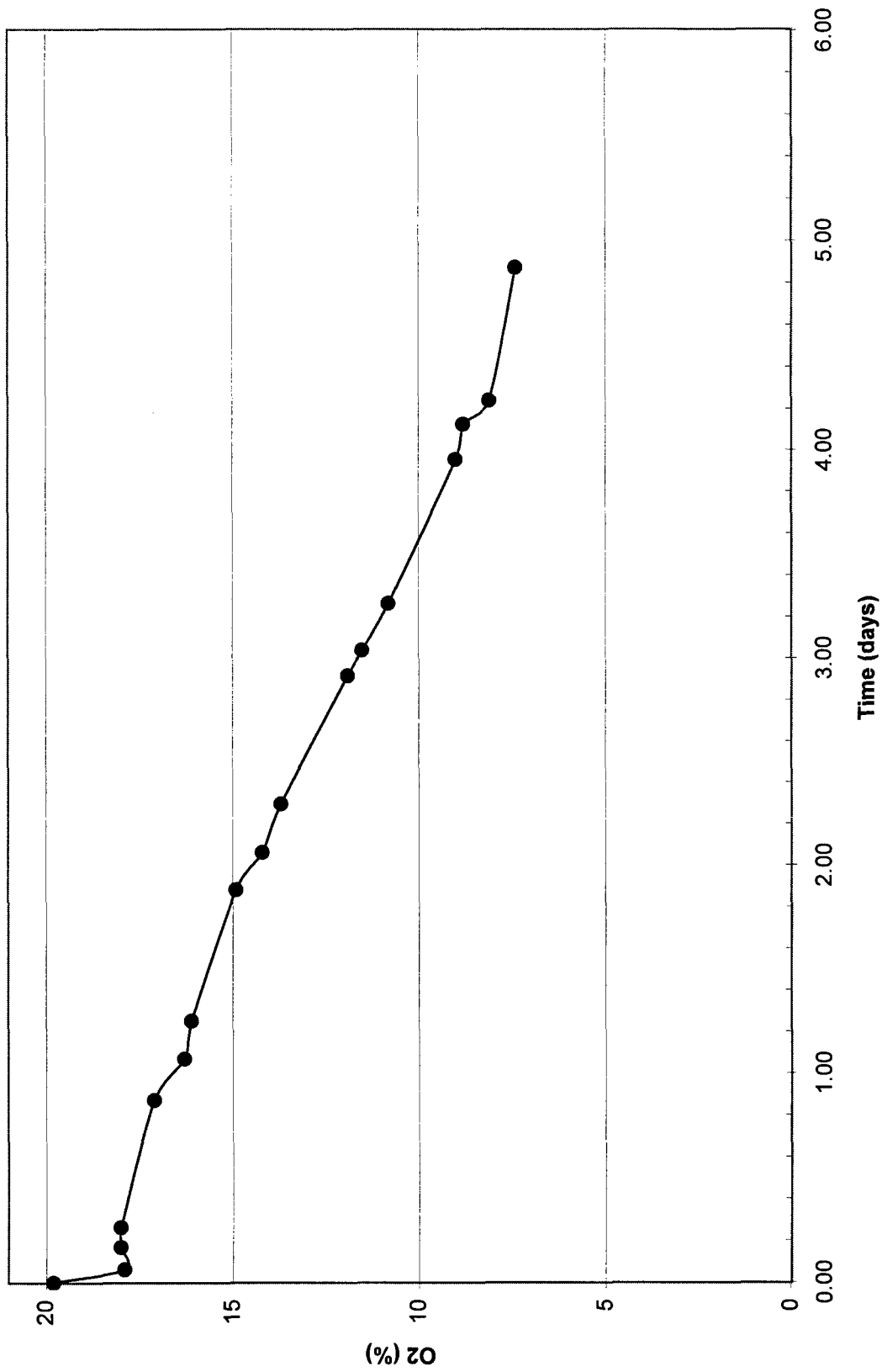
Hill AFB, UT Manual Method April 1998 Respiration Test



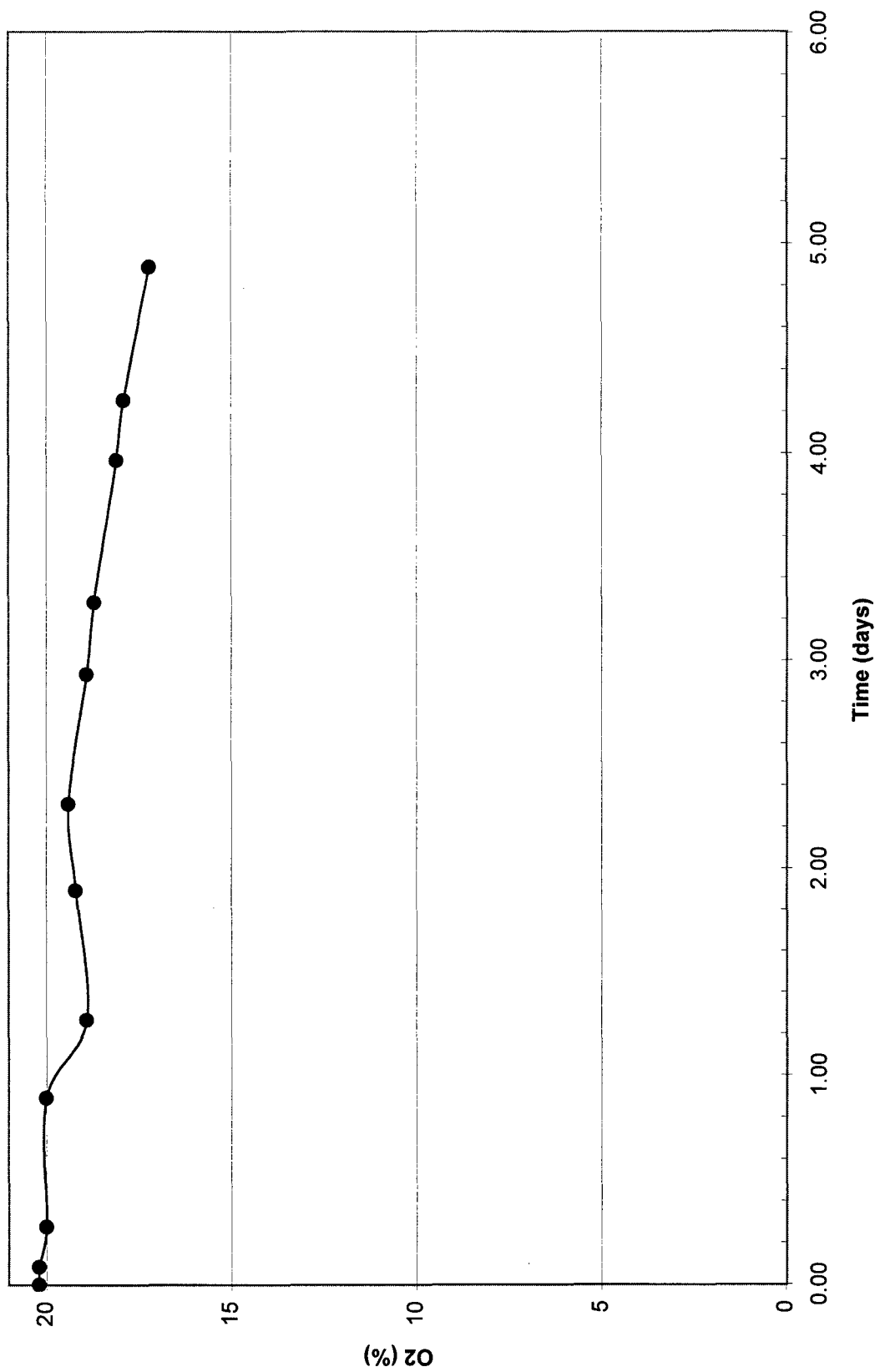
Hill AFB, UT Manual Method April 1998 Respiration Test



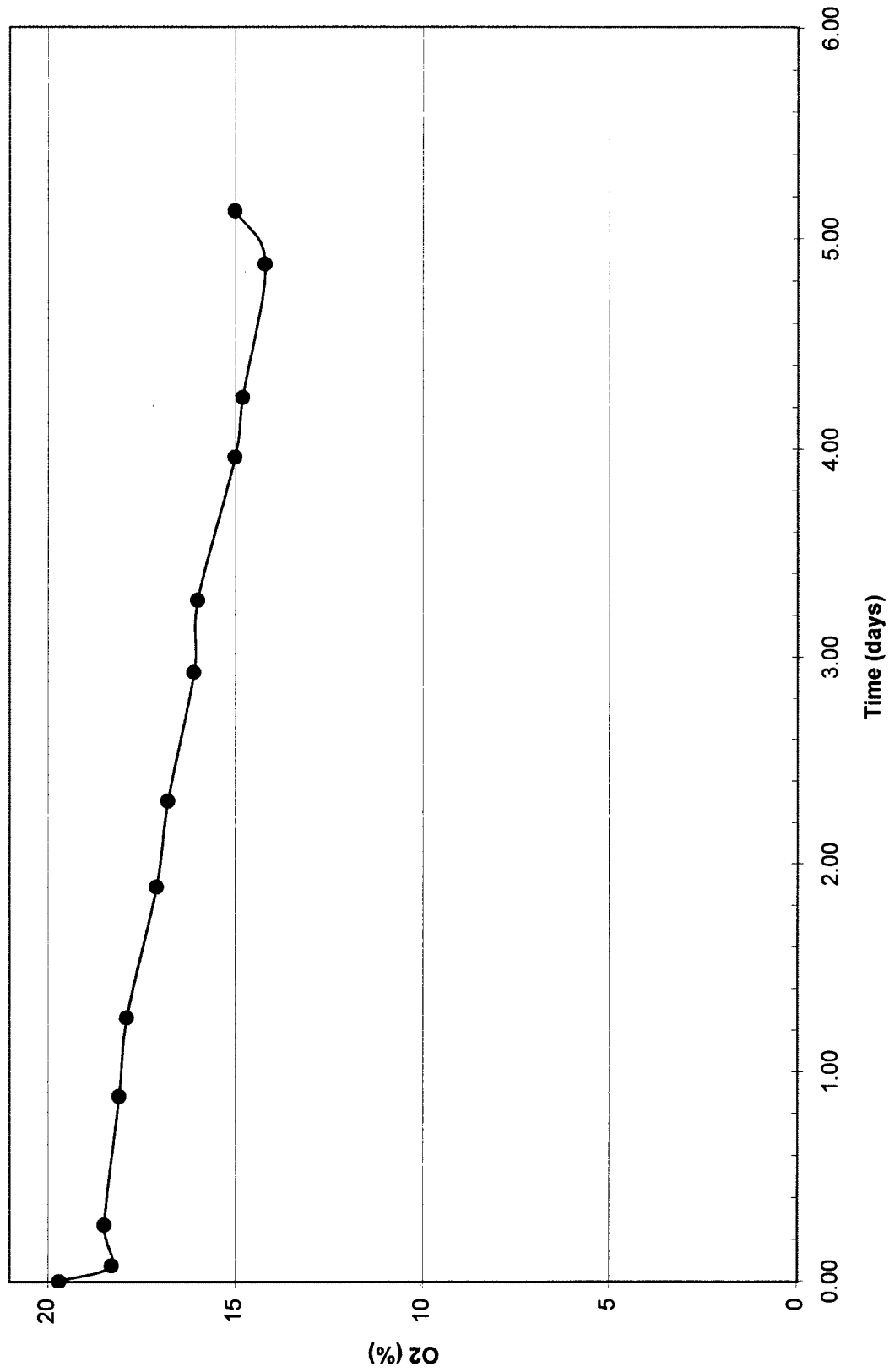
Hill AFB, UT Manual Method April 1998 Respiration Test



Hill AFB, UT Manual Method April 1998 Respiration Test

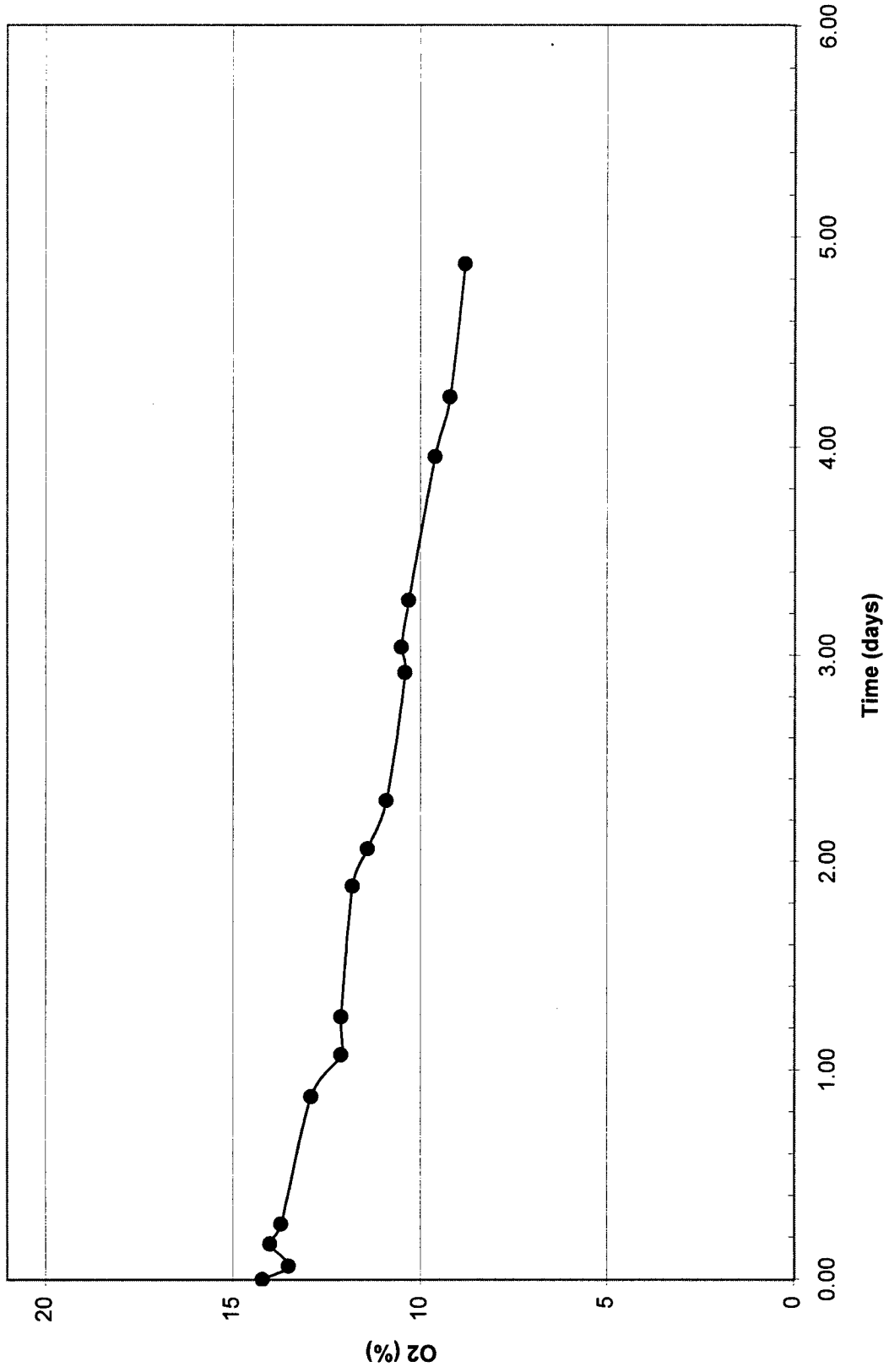


Hill AFB, UT Manual Method April 1998 Respiration Test



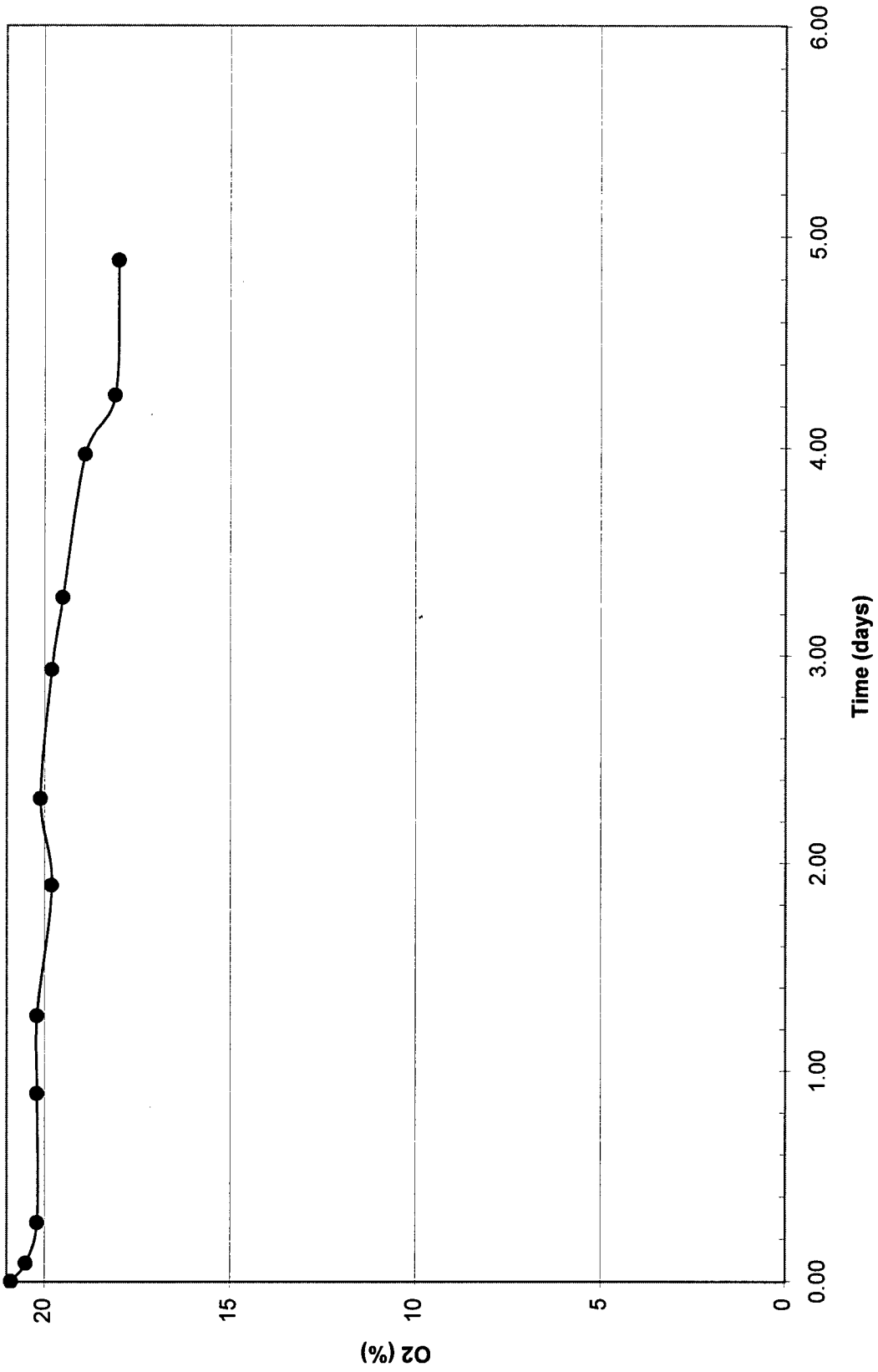
—●— G-12

Hill AFB, UT Manual Method April 1998 Respiration Test

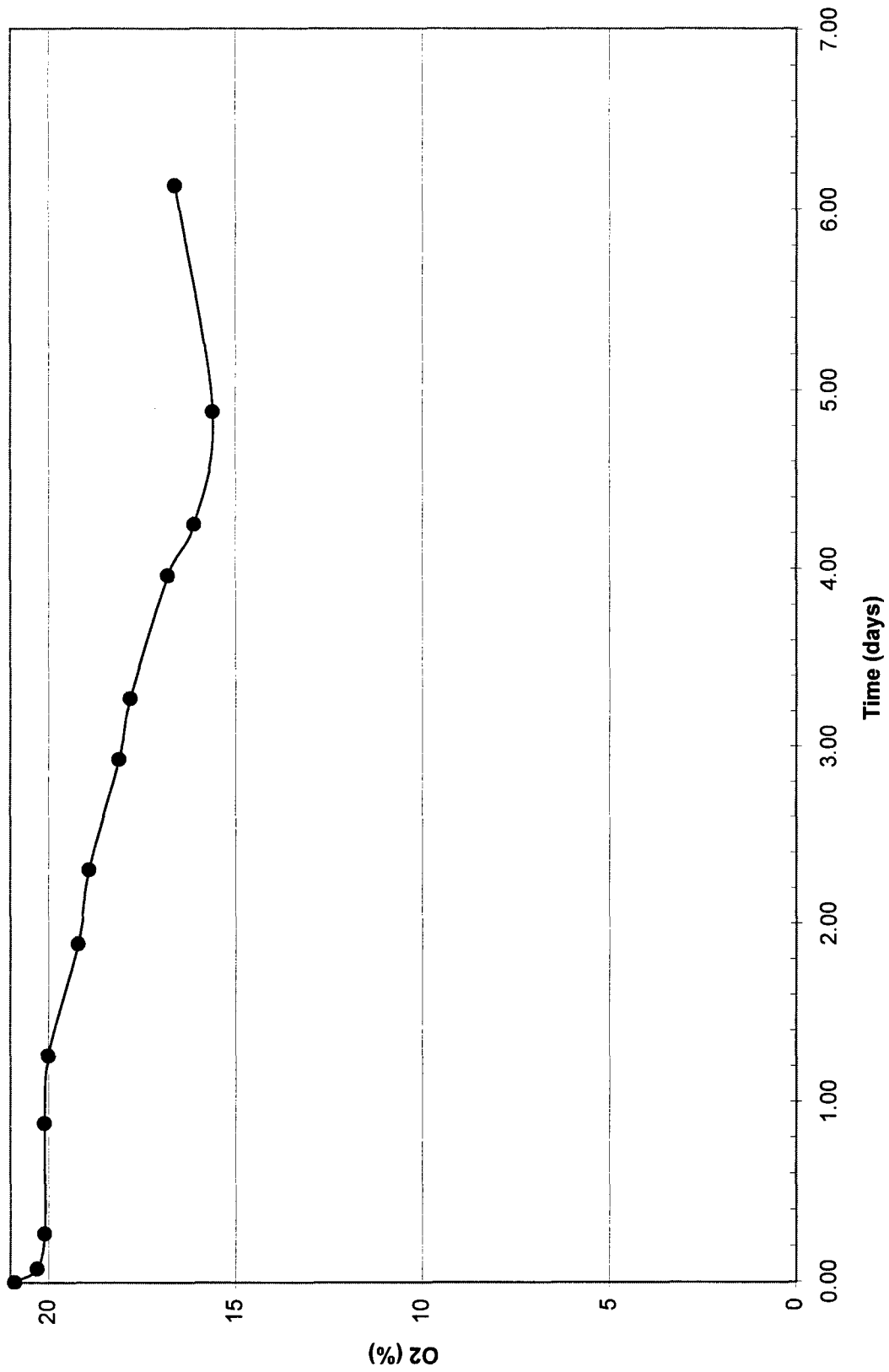


—●— G-17

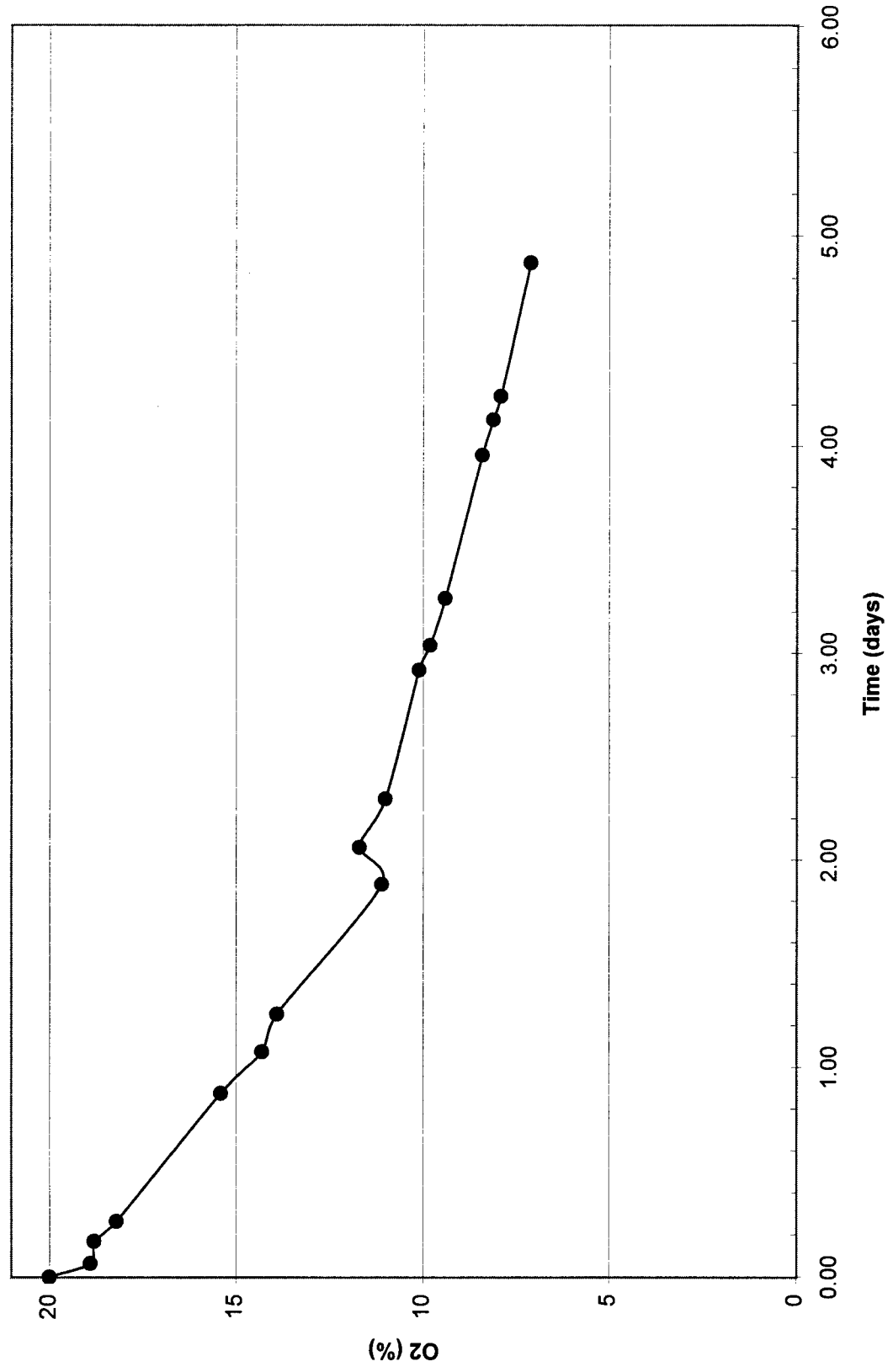
Hill AFB, UT Manual Method April 1998 Respiration Test



Hill AFB, UT Manual Method April 1998 Respiration Test



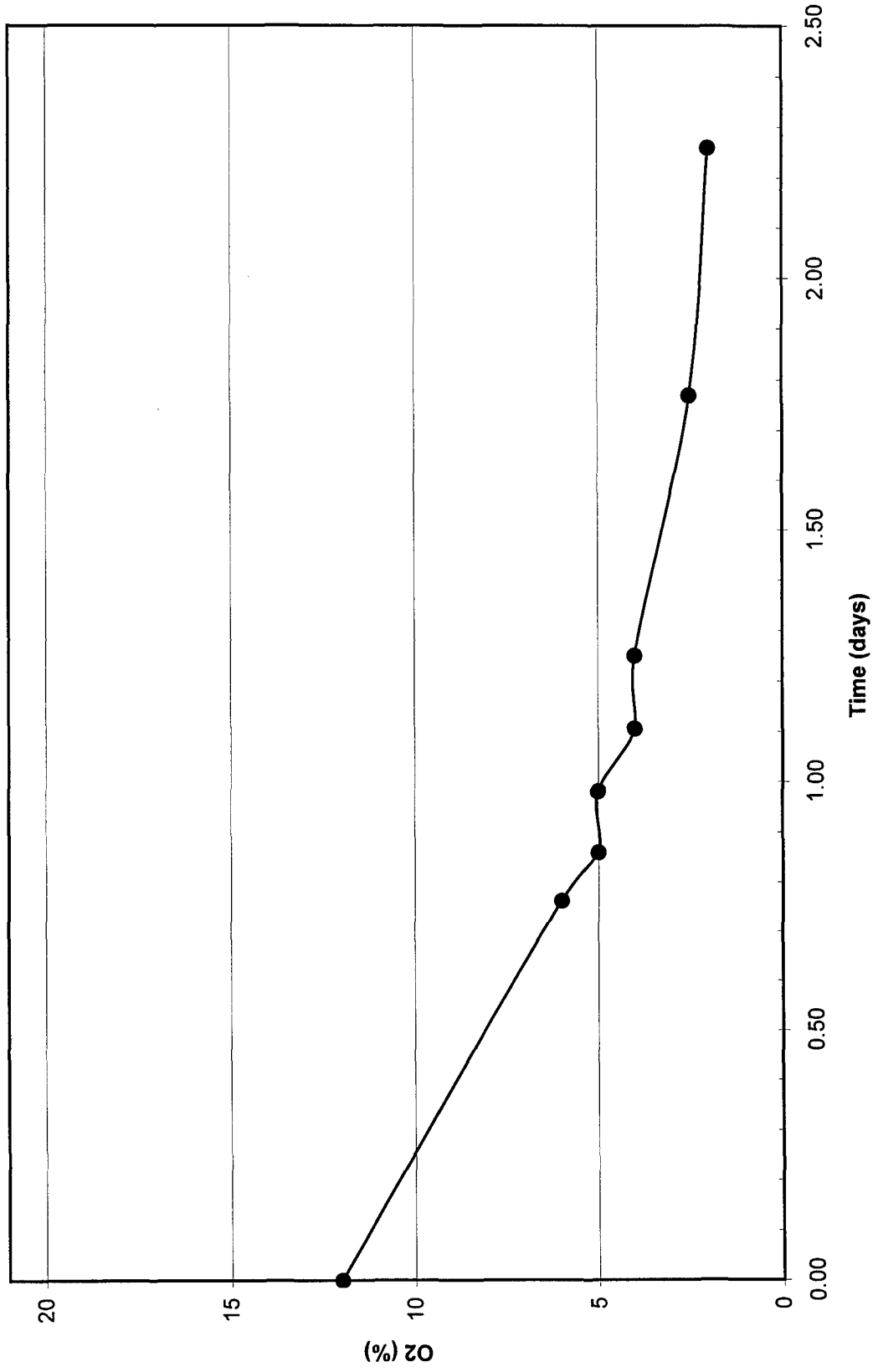
Hill AFB, UT Manual Method April 1998 Respiration Test



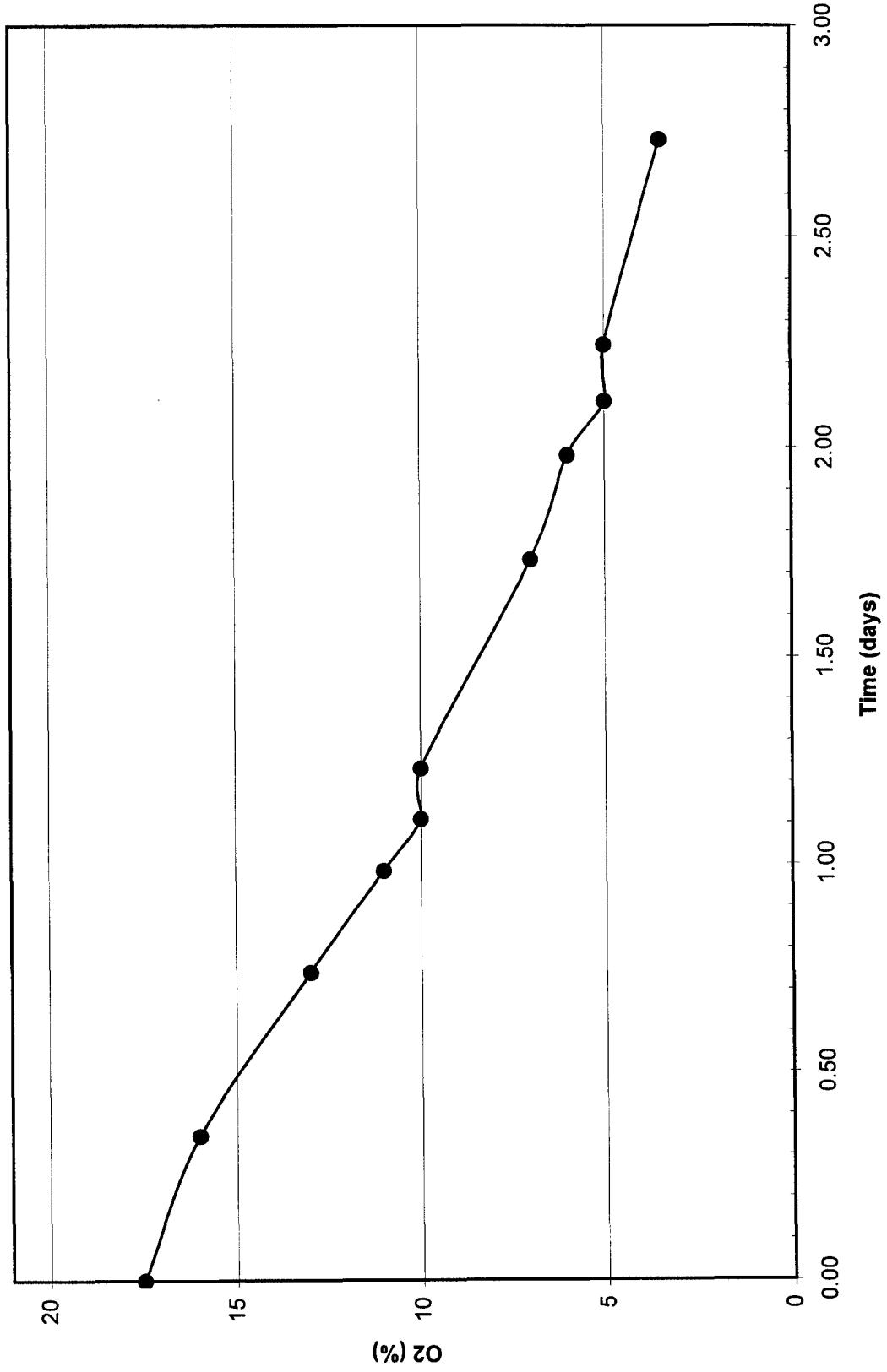
**OXYGEN UTILIZATION PLOTS
MONITORED BY
MANUAL METHOD
DURING RESPIRATION TESTING**

August 1998

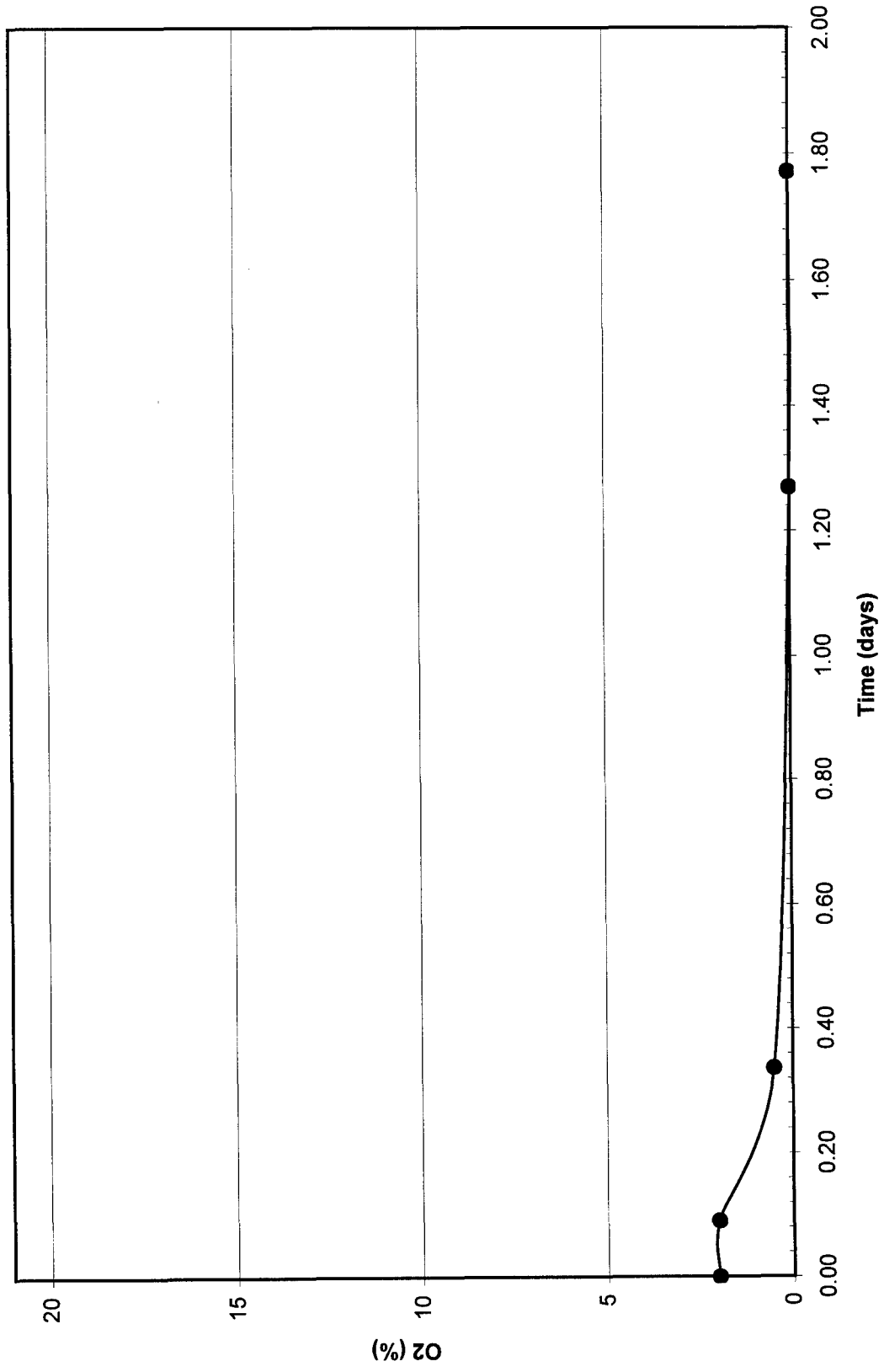
Hill AFB, UT Manual Method August 1998 Respiration Test



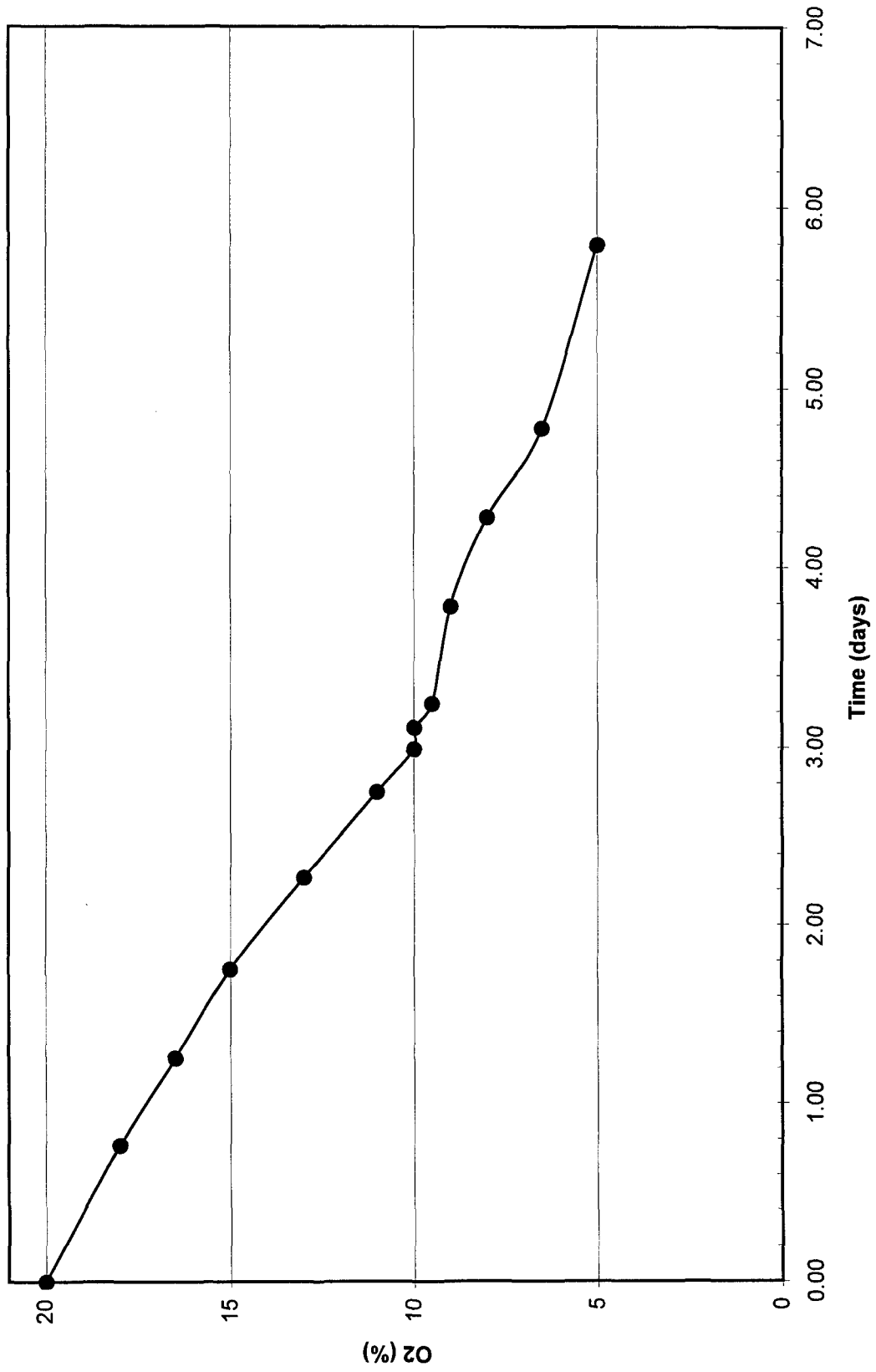
Hill AFB, UT Manual Method August 1998 Respiration Test



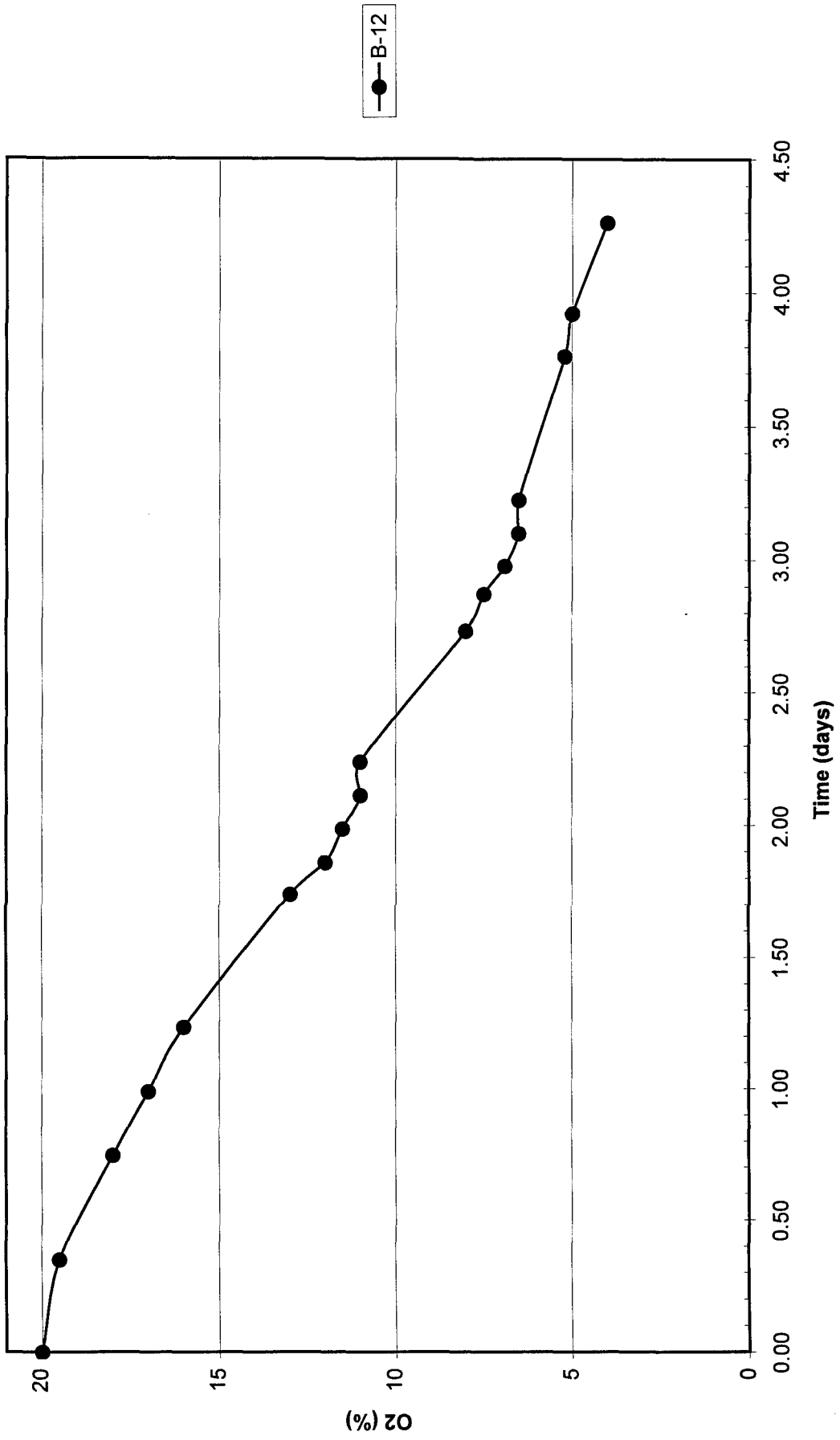
Hill AFB, UT Manual Method August 1998 Respiration Test



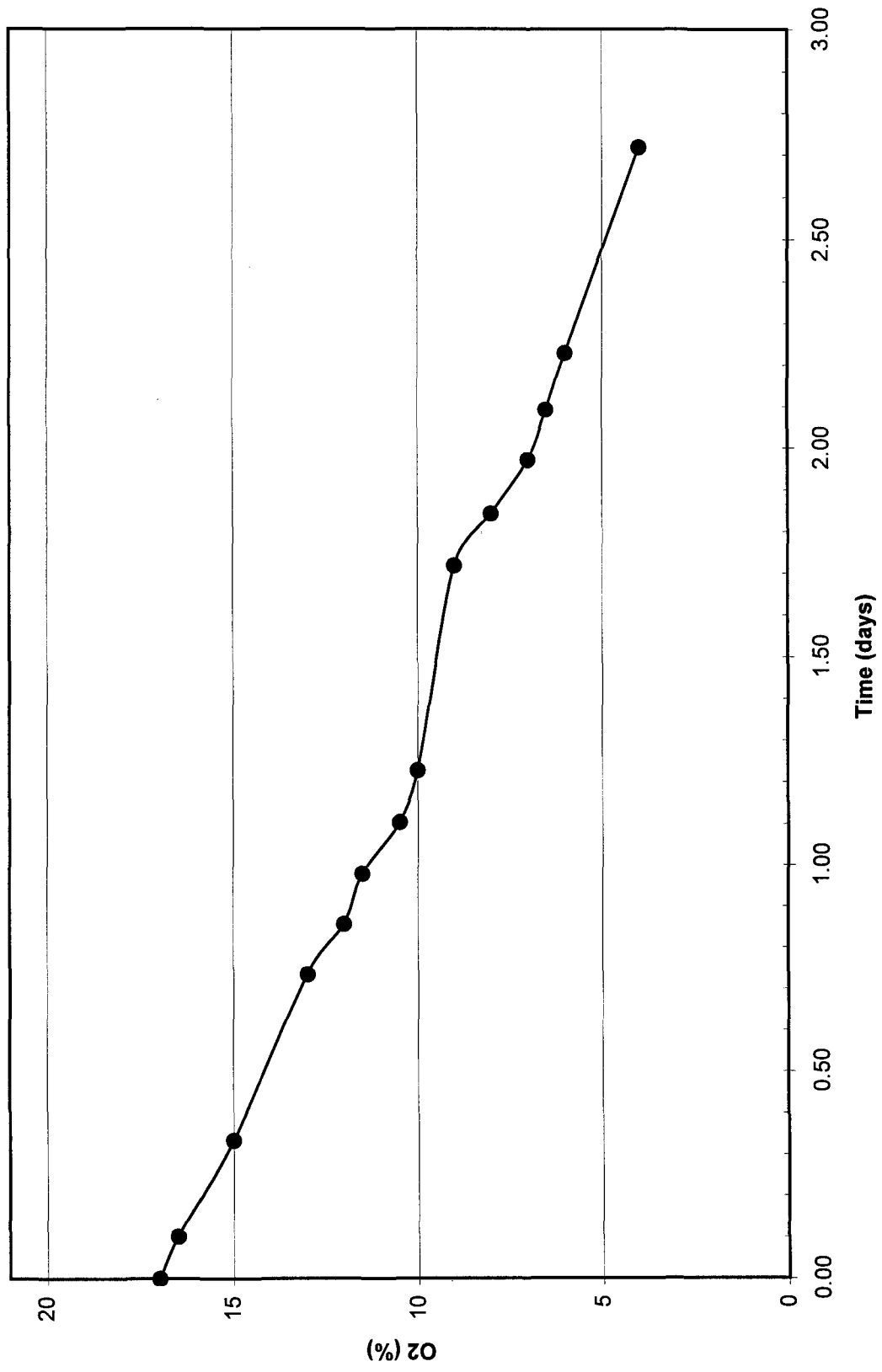
Hill AFB, UT Manual Method August 1998 Respiration Test



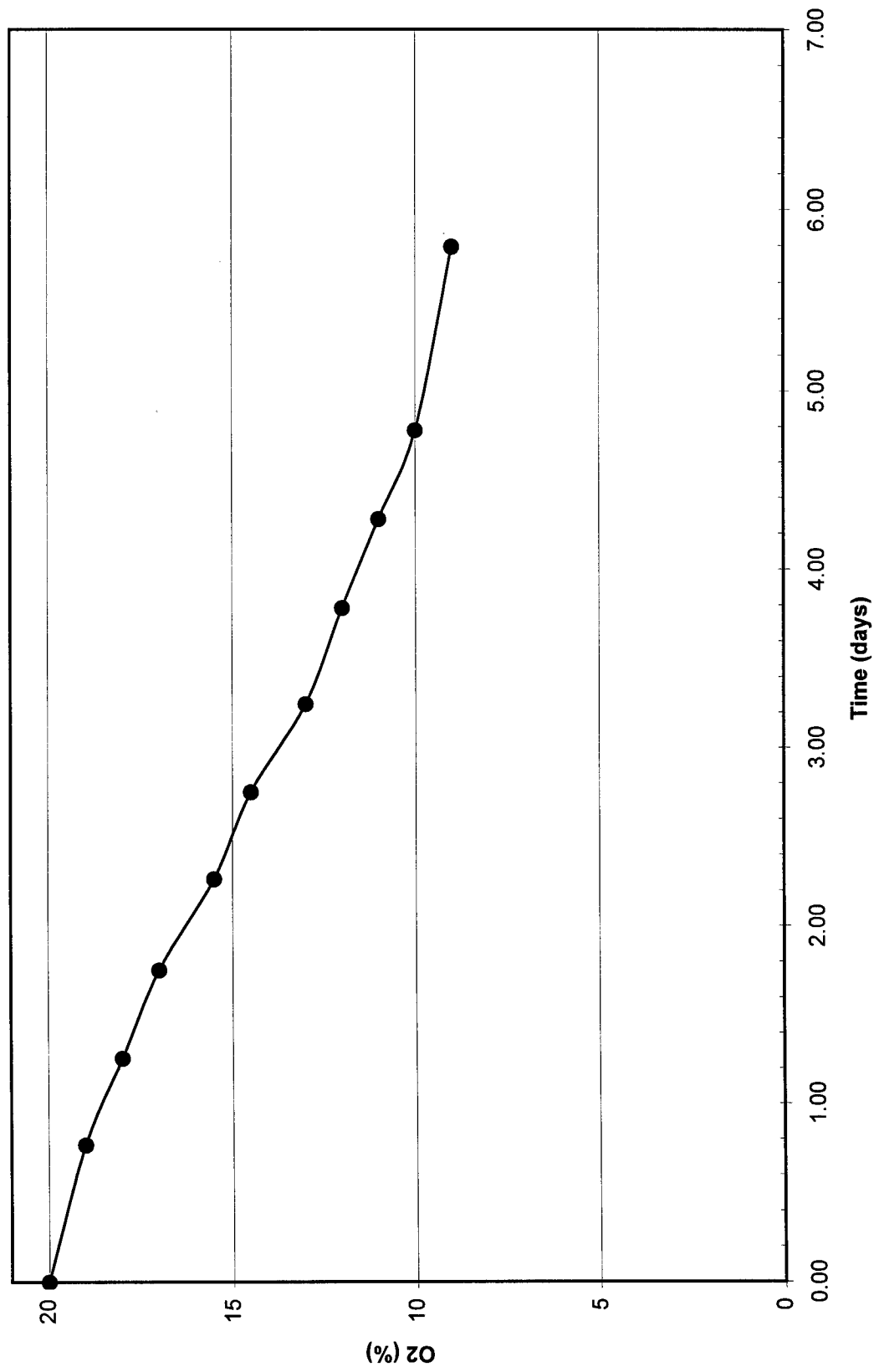
Hill AFB, UT Manual Method August 1998 Respiration Test



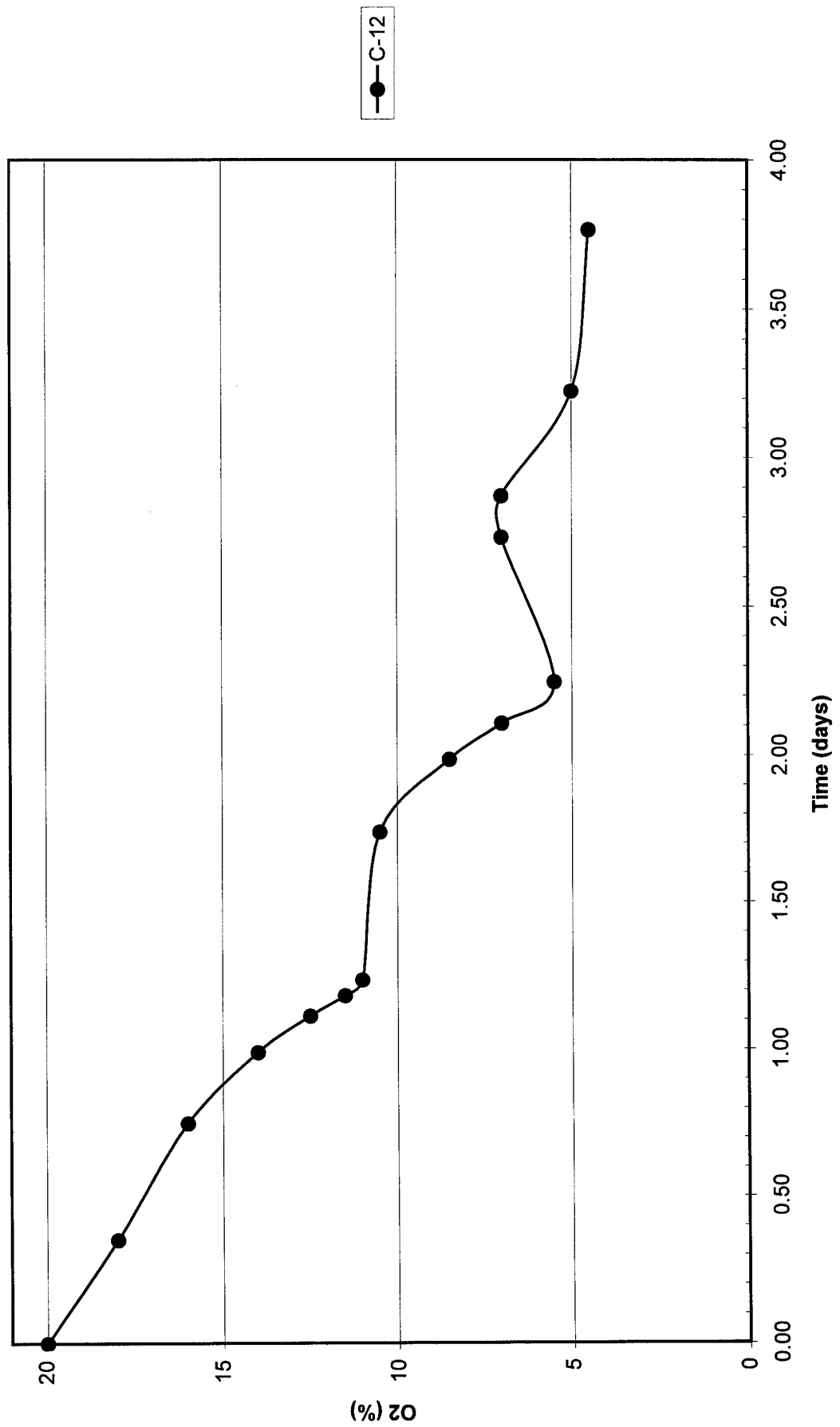
Hill AFB, UT Manual Method August 1998 Respiration Test



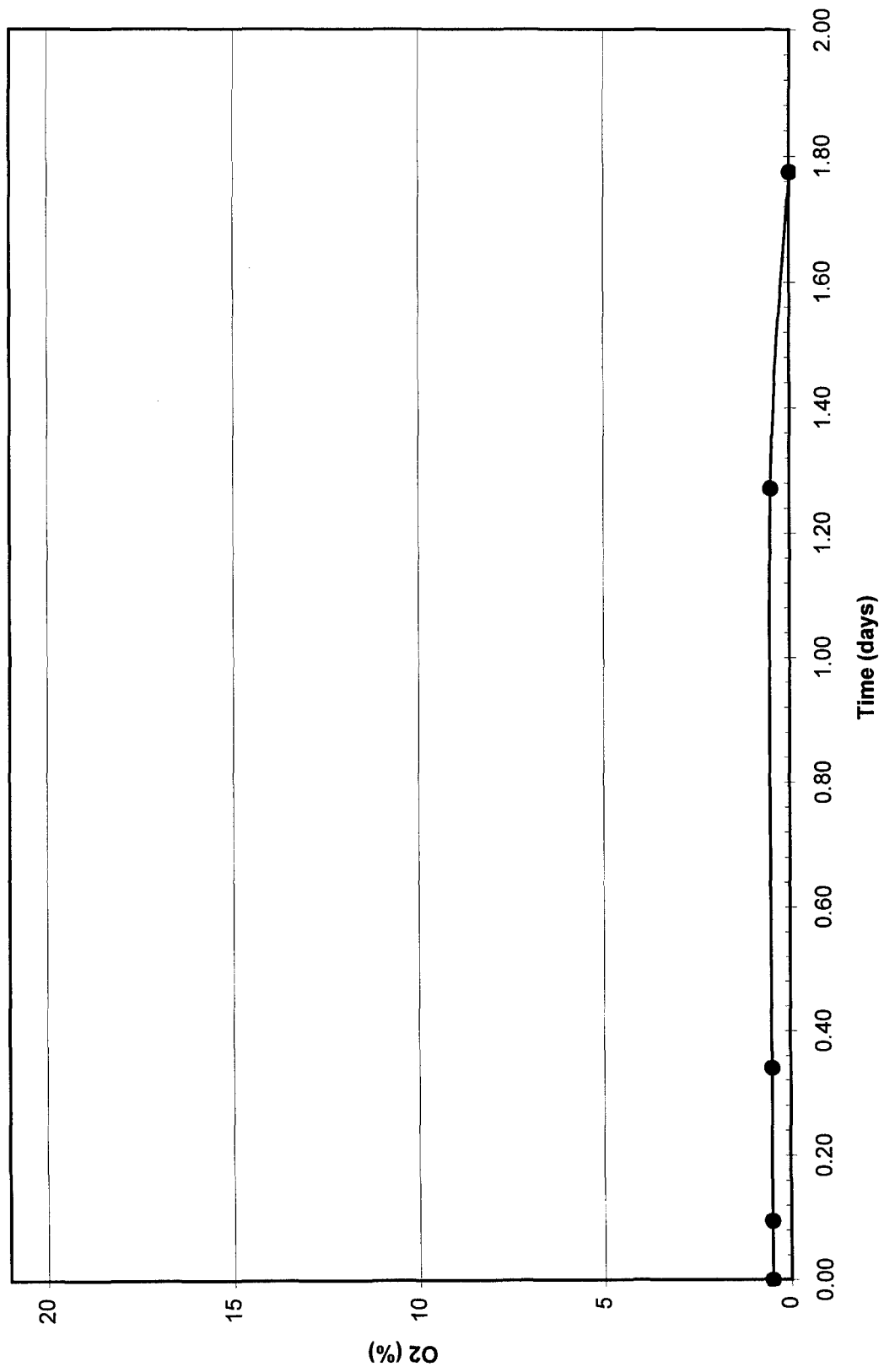
Hill AFB, UT Manual Method August 1998 Respiration Test



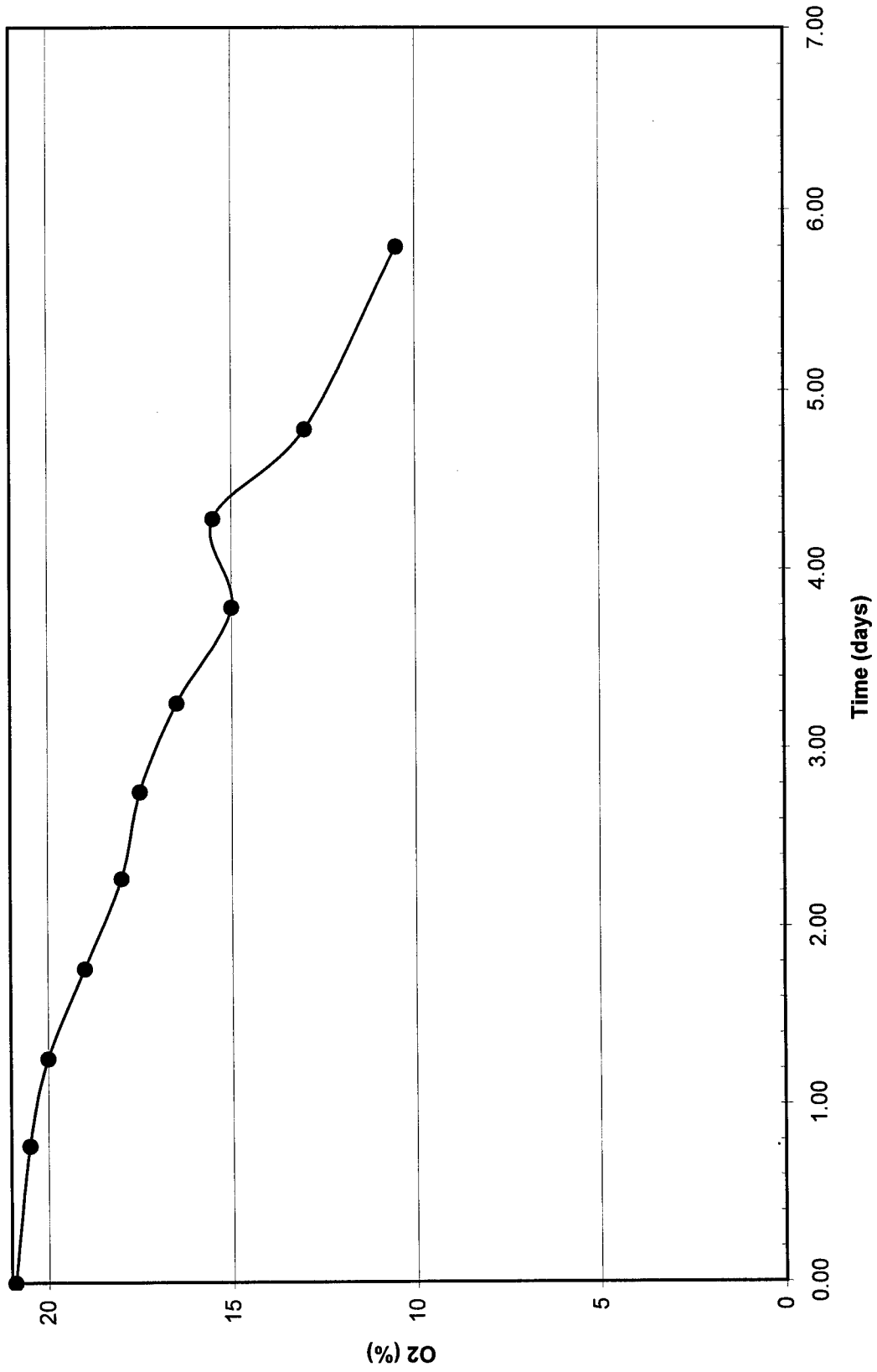
Hill AFB, UT Manual Method August 1998 Respiration Test



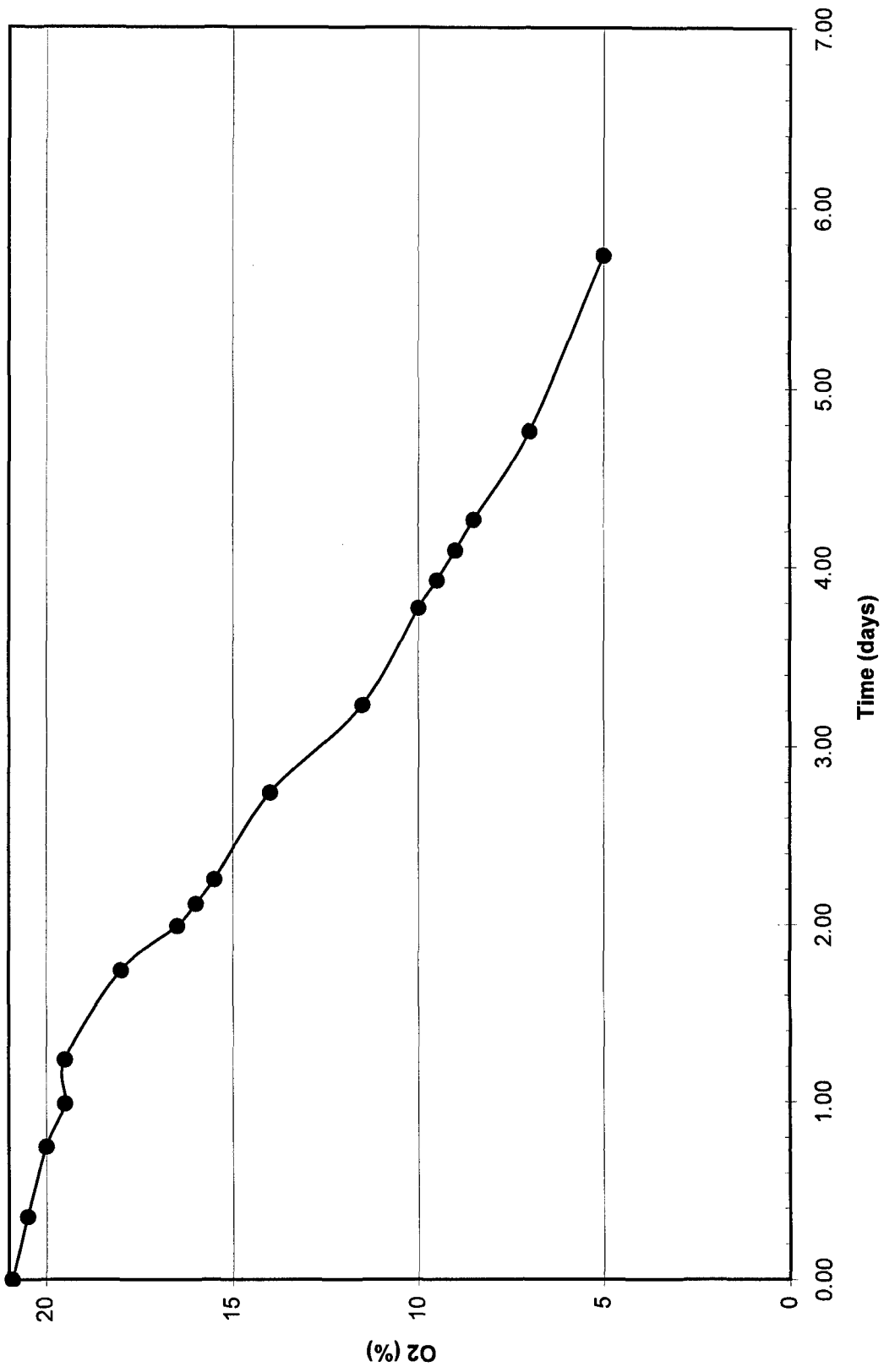
Hill AFB, UT Manual Method August 1998 Respiration Test



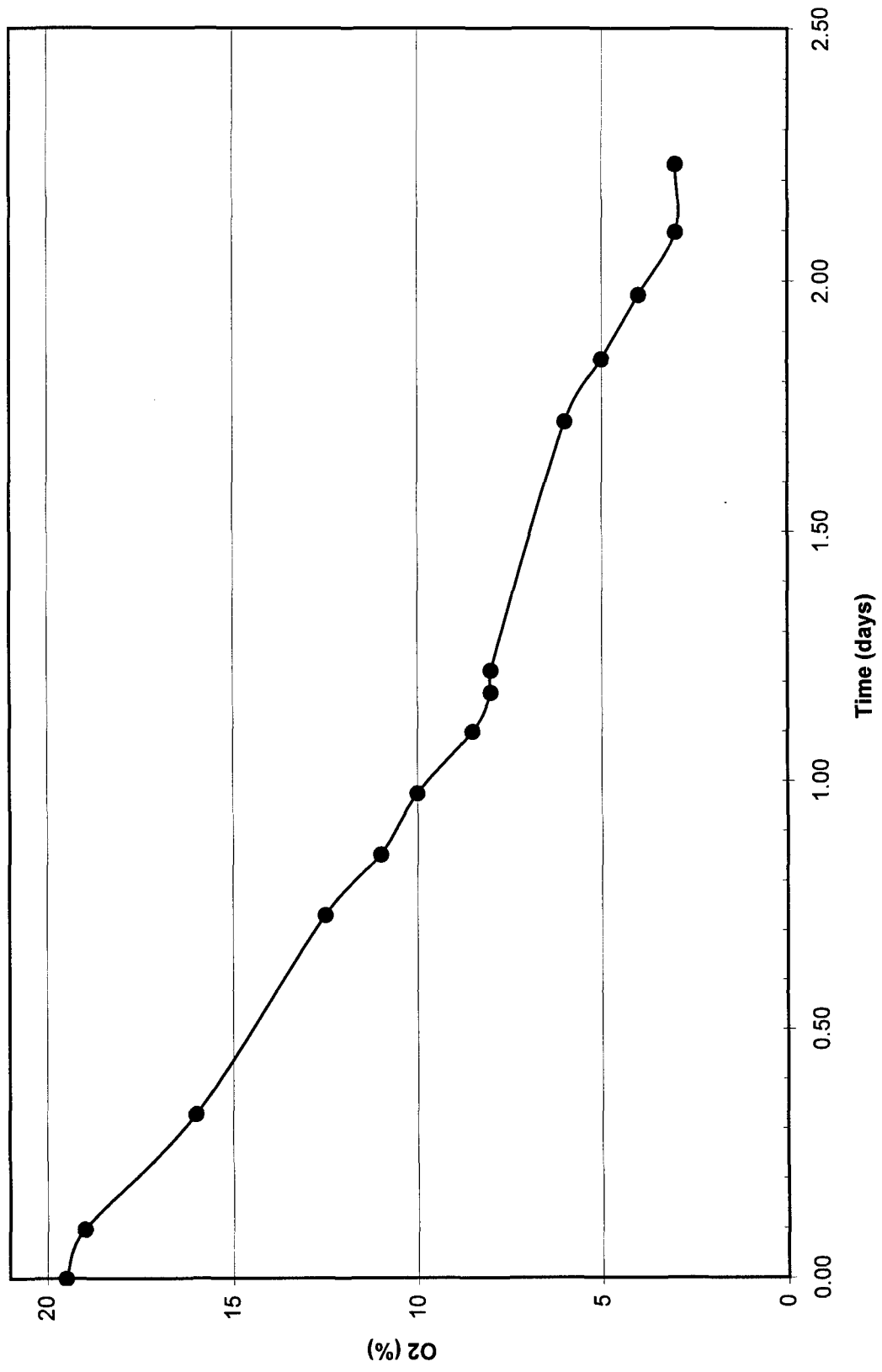
Hill AFB, UT Manual Method August 1998 Respiration Test



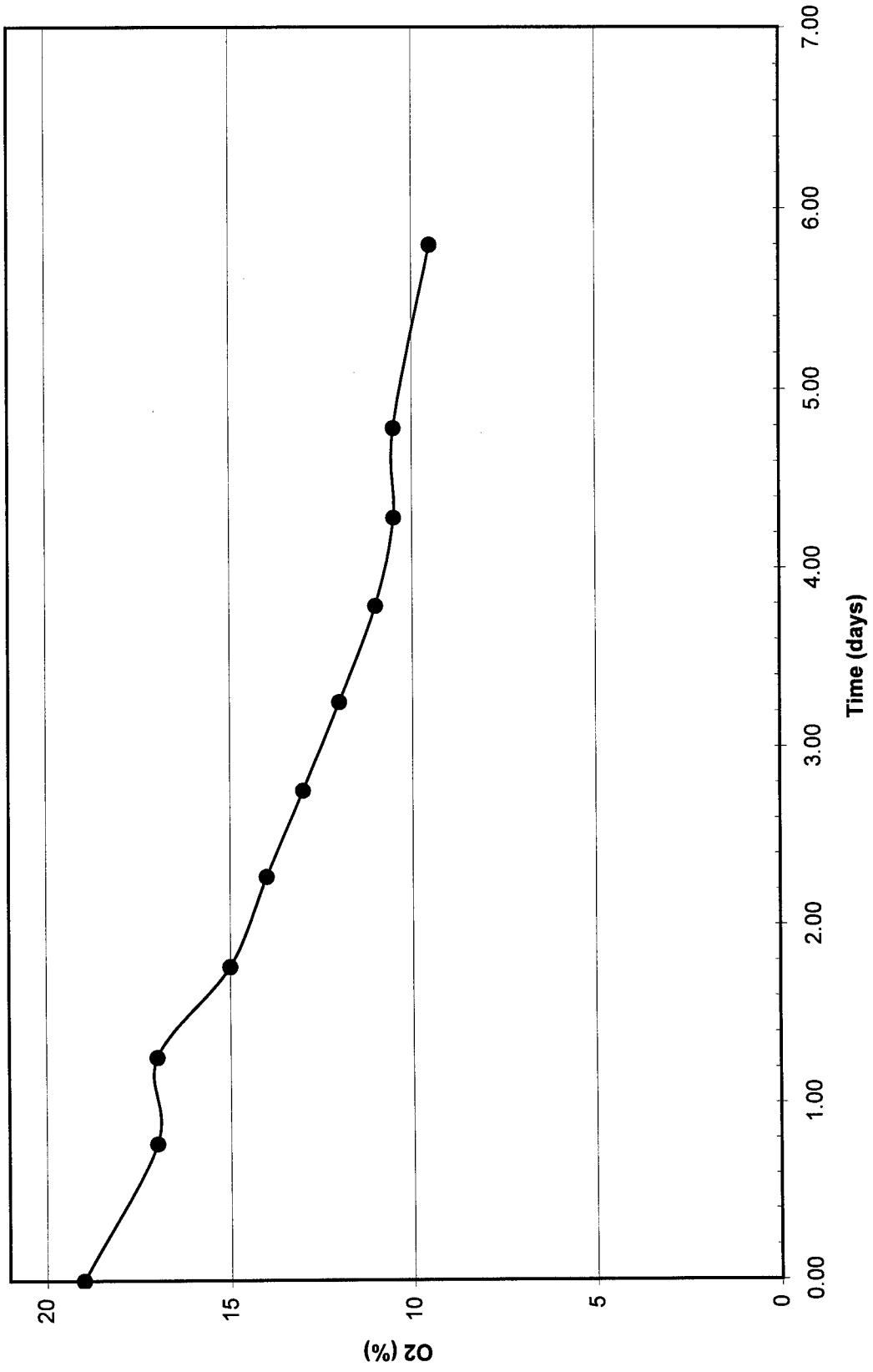
Hill AFB, UT Manual Method August 1998 Respiration Test



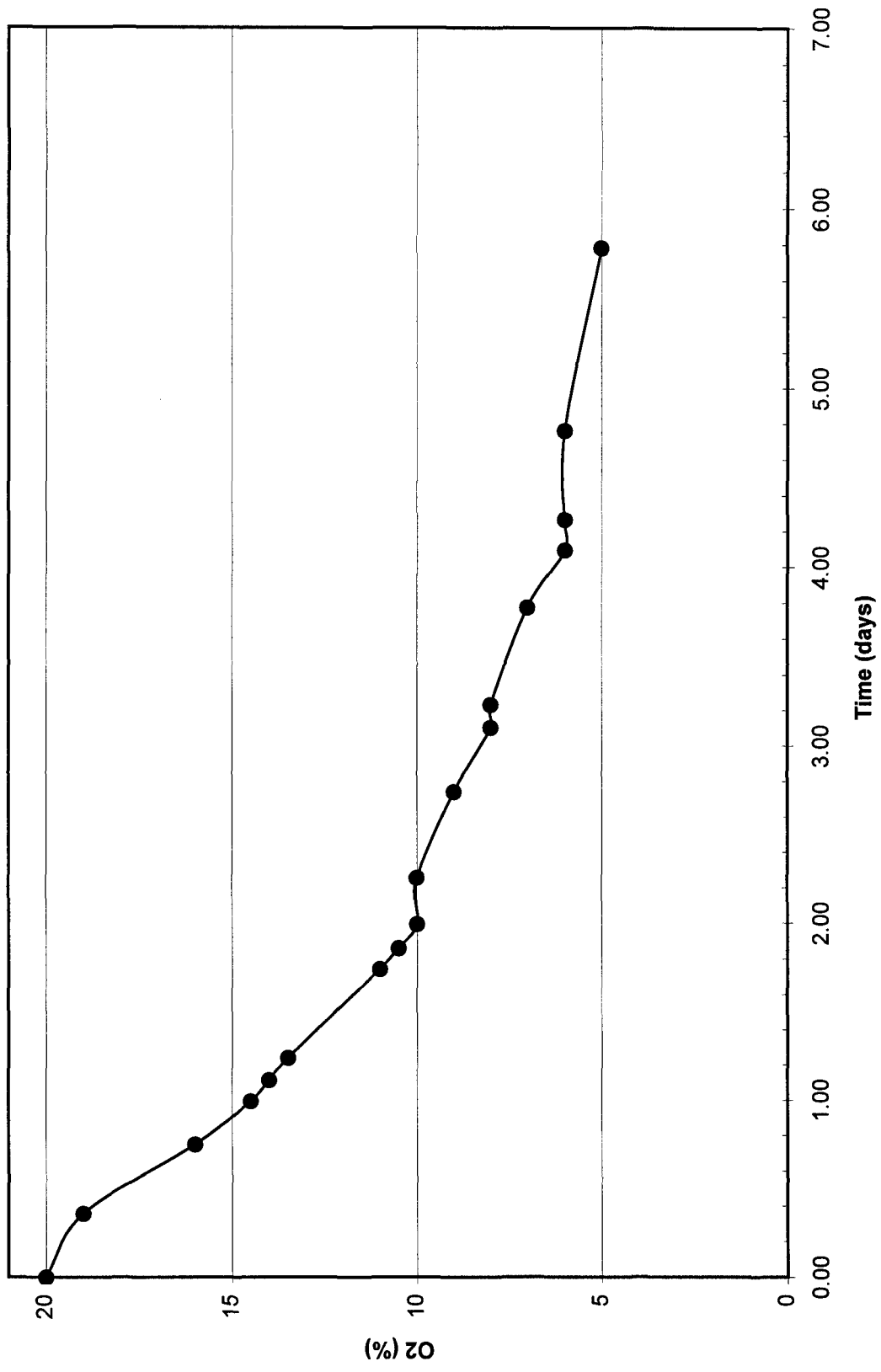
Hill AFB, UT Manual Method August 1998 Respiration Test



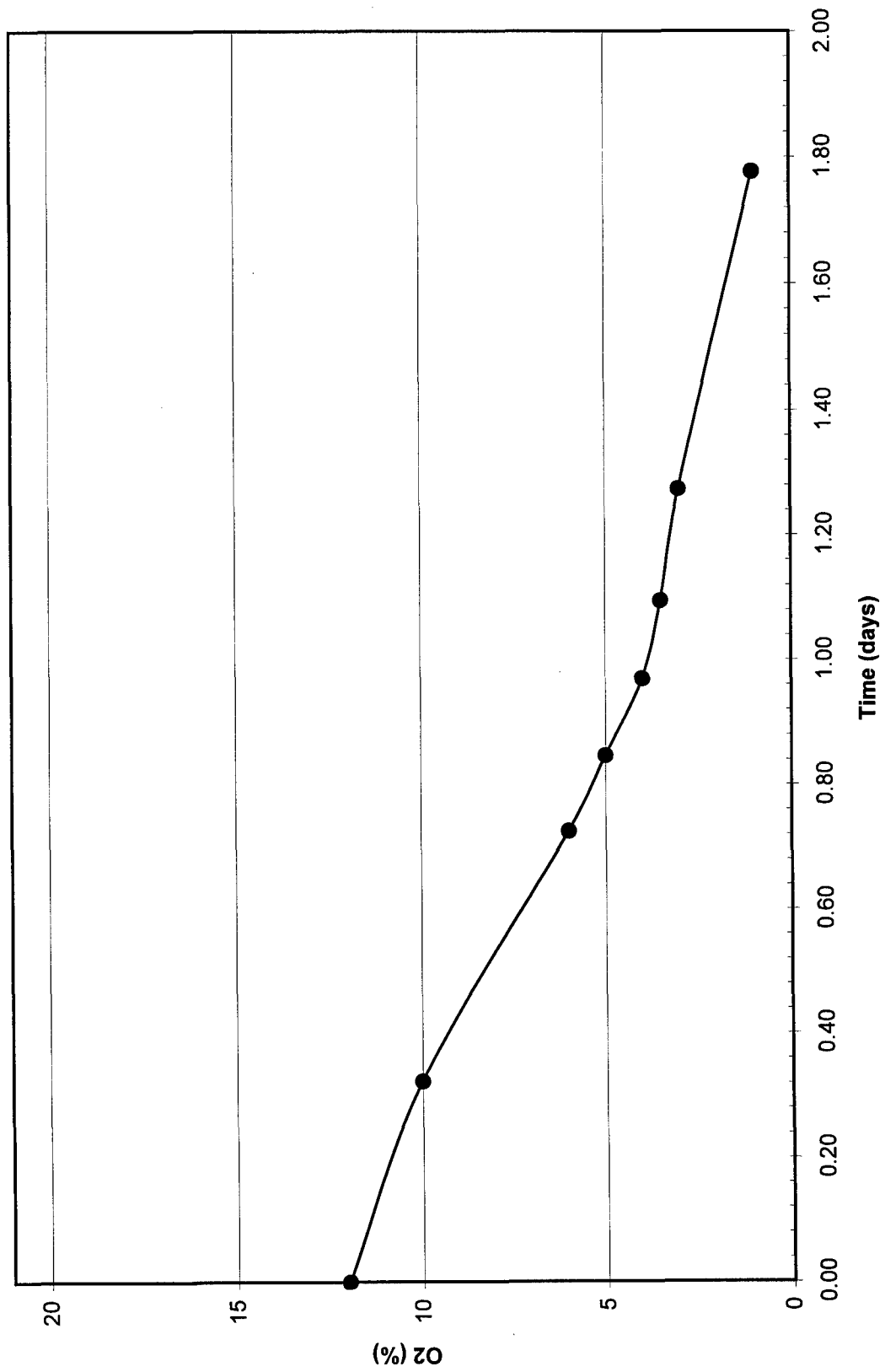
Hill AFB, UT Manual Method August 1998 Respiration Test



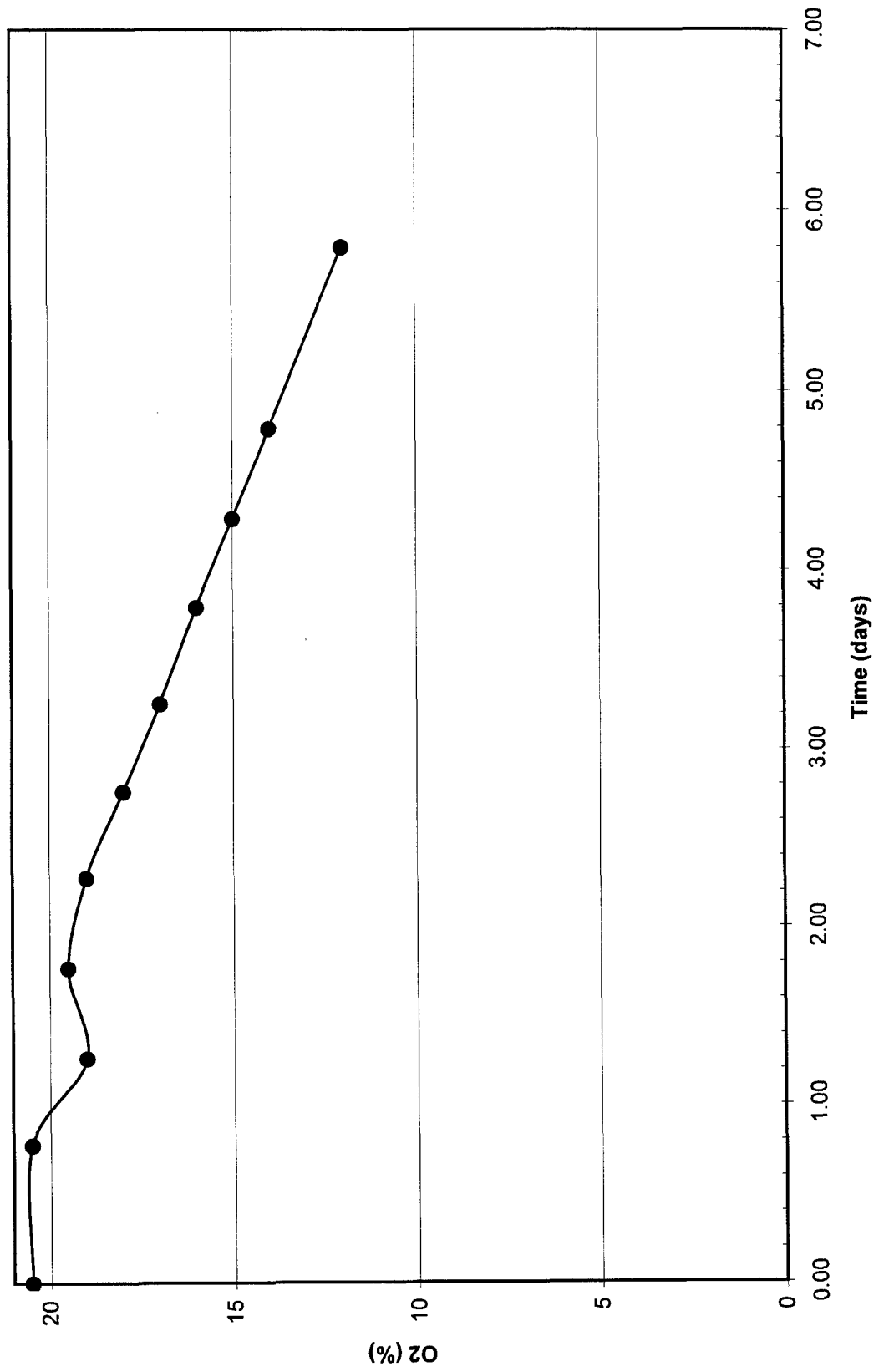
Hill AFB, UT Manual Method August 1998 Respiration Test



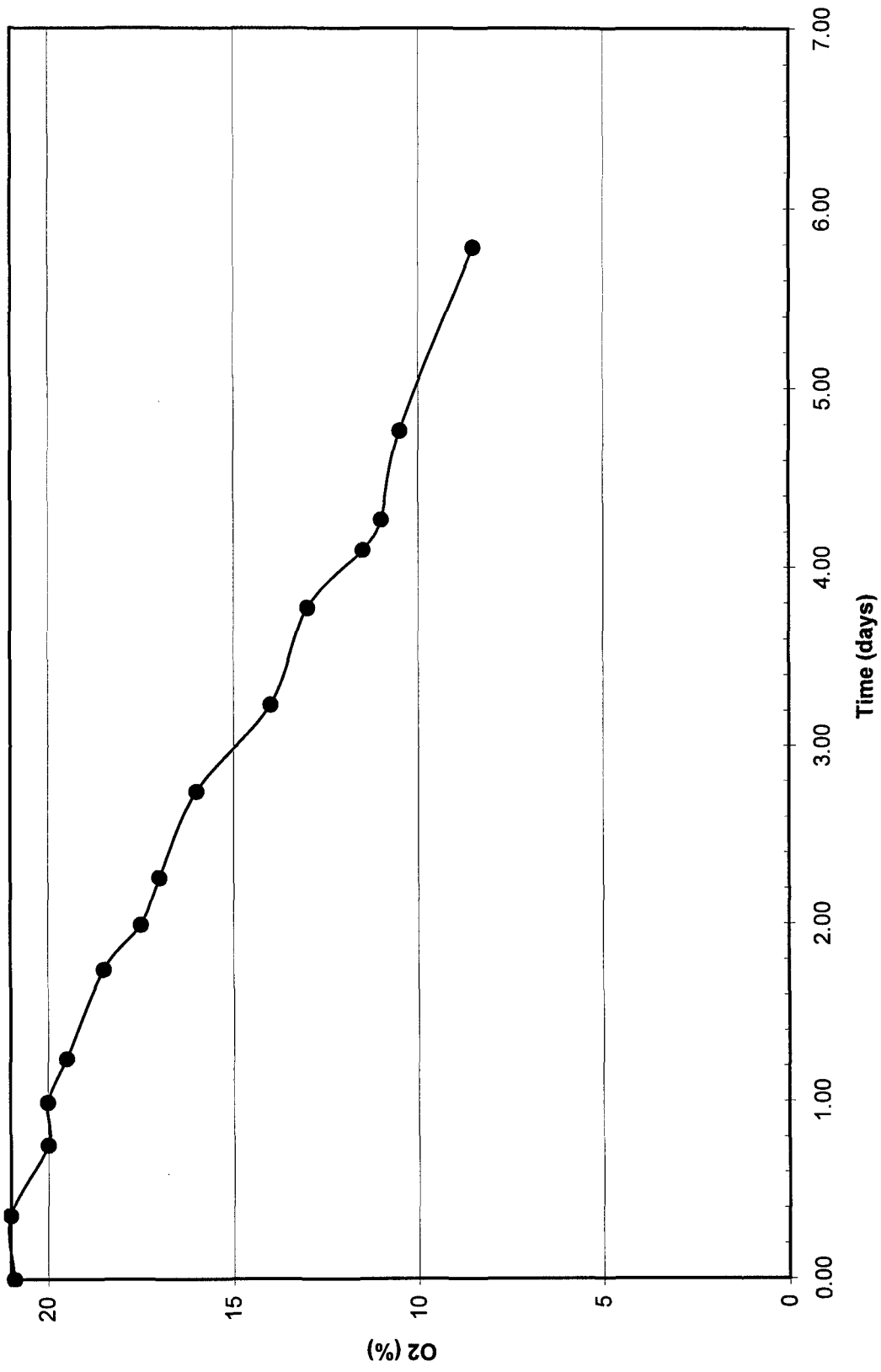
Hill AFB, UT Manual Method August 1998 Respiration Test



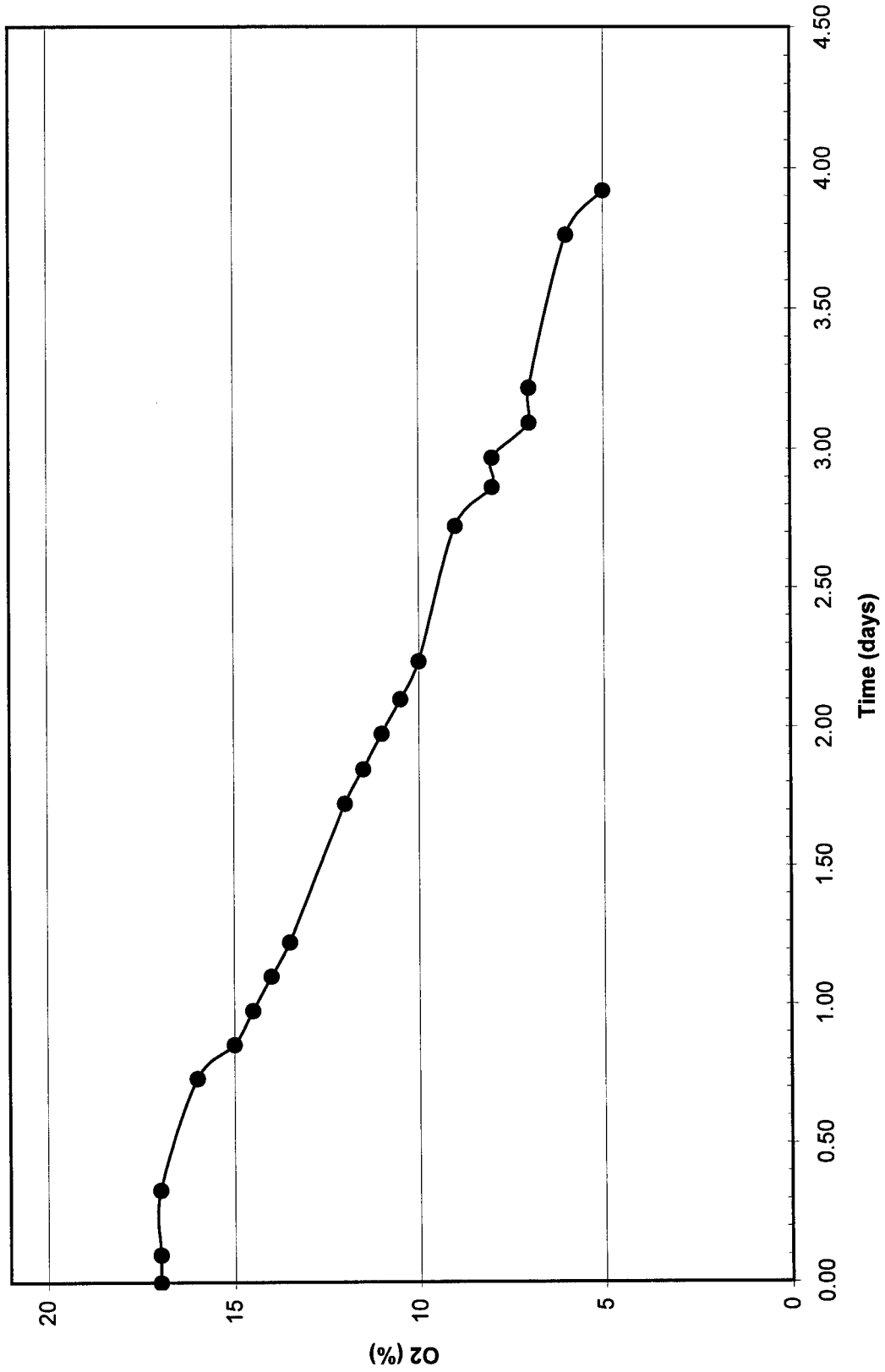
Hill AFB, UT Manual Method August 1998 Respiration Test



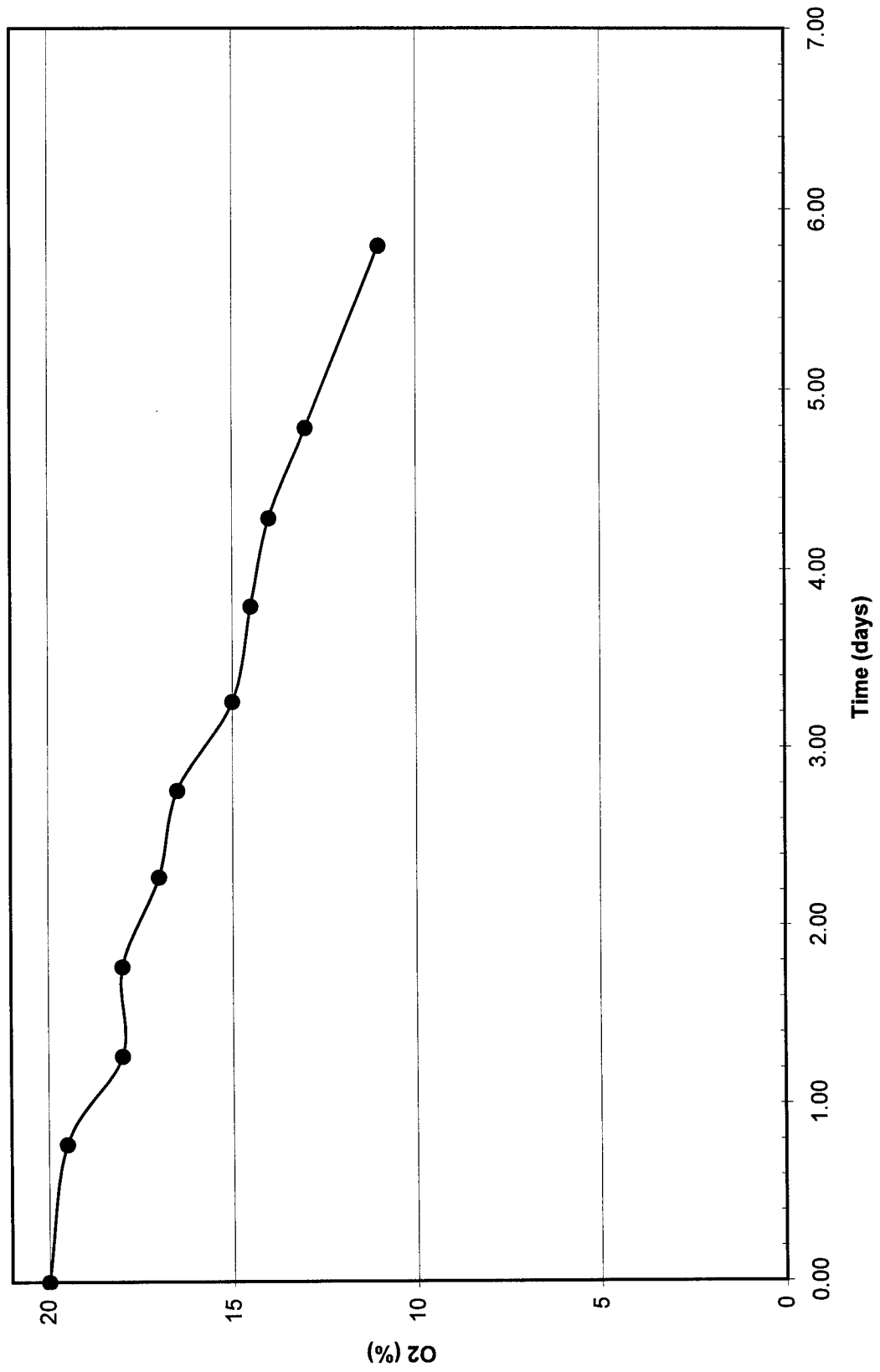
Hill AFB, UT Manual Method August 1998 Respiration Test



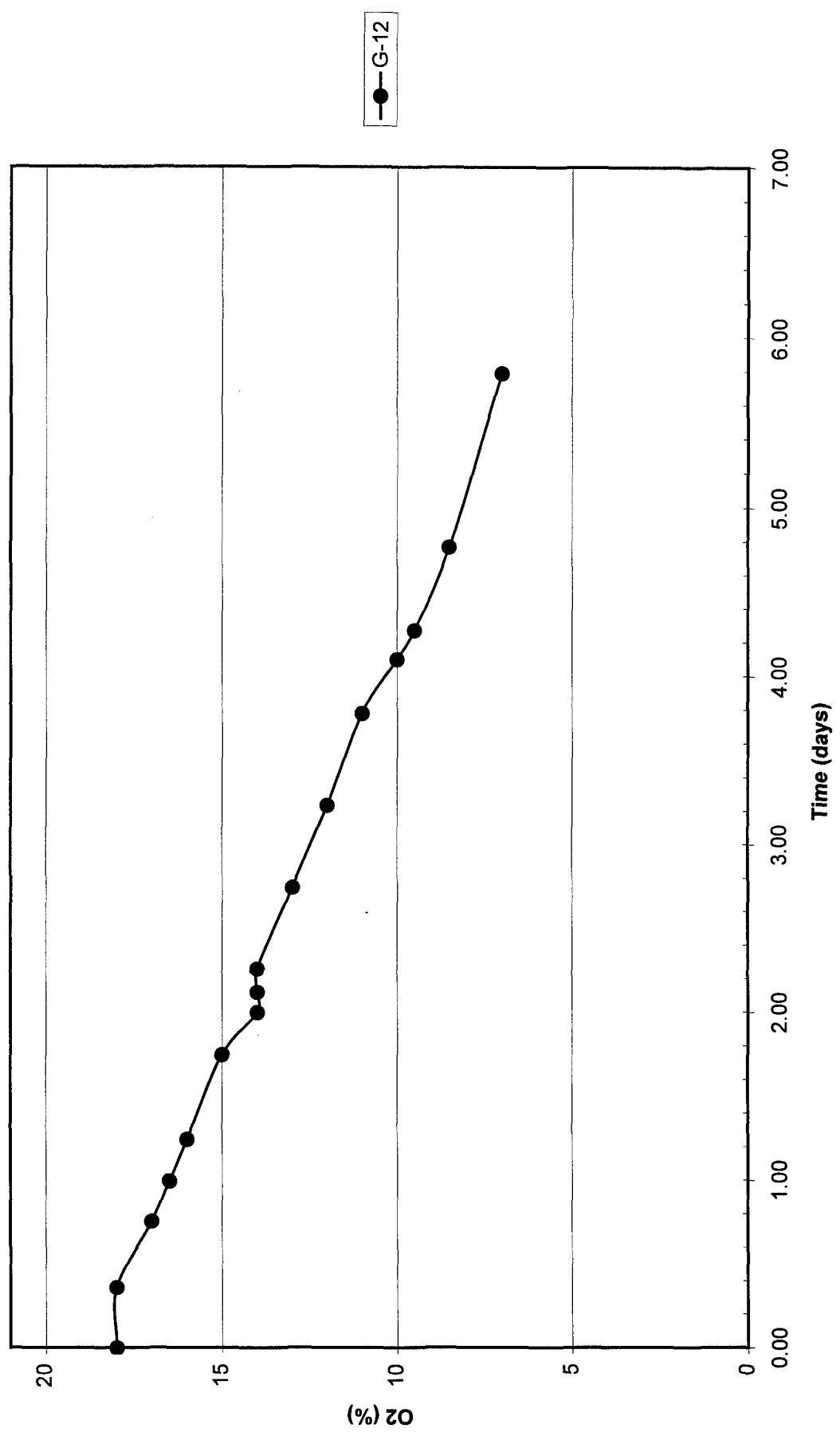
Hill AFB, UT Manual Method August 1998 Respiration Test



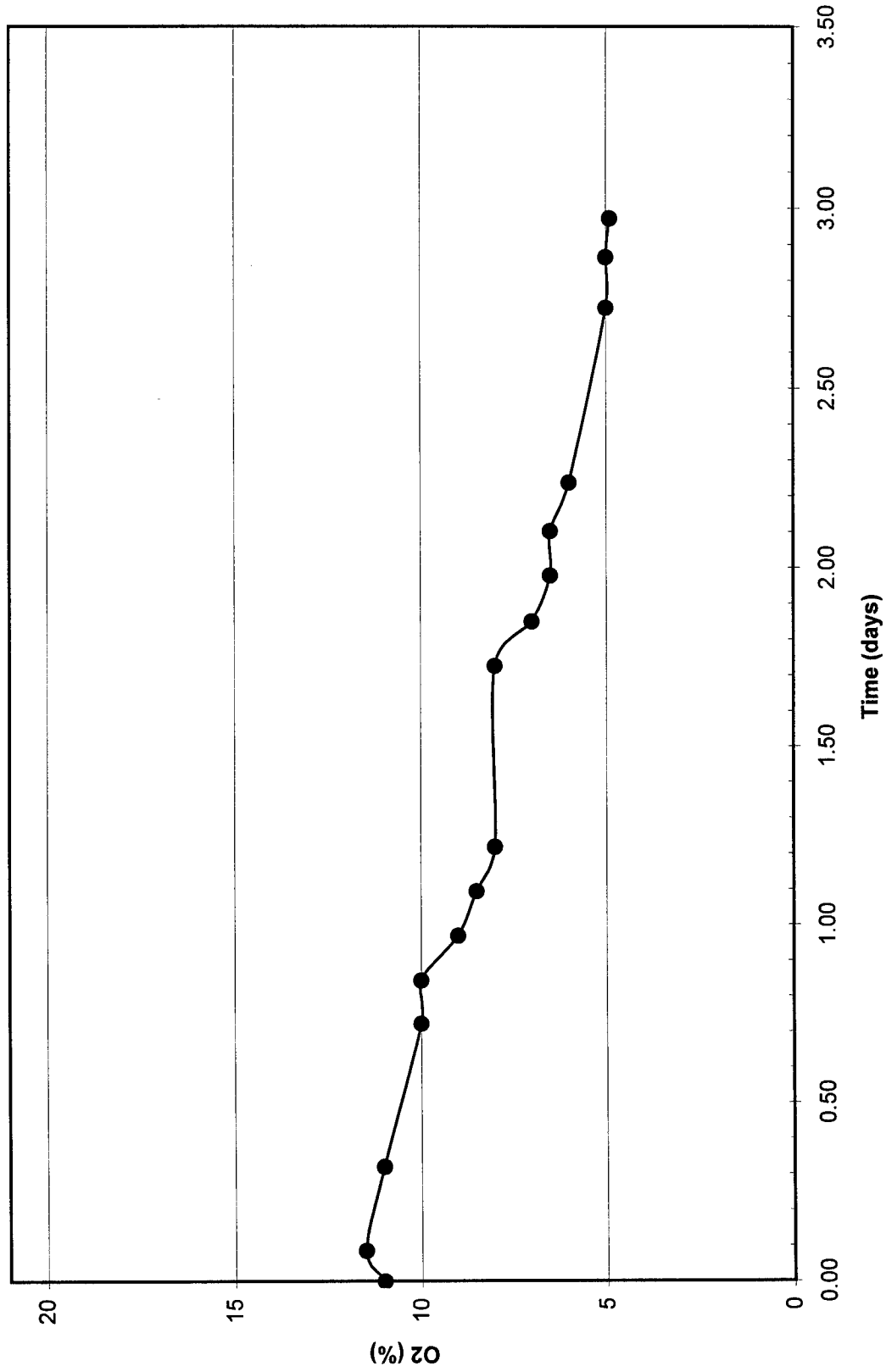
Hill AFB, UT Manual Method August 1998 Respiration Test



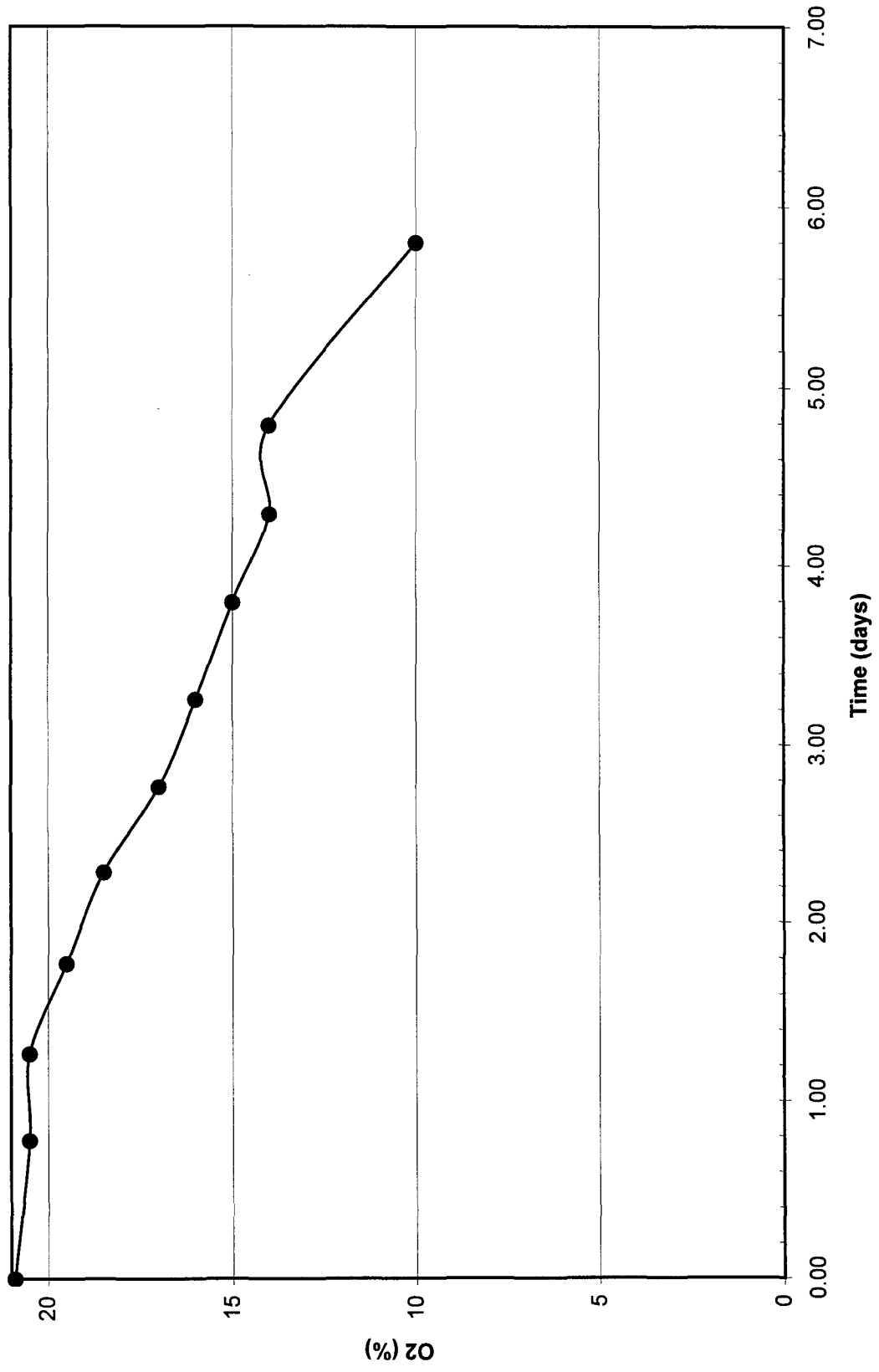
Hill AFB, UT Manual Method August 1998 Respiration Test



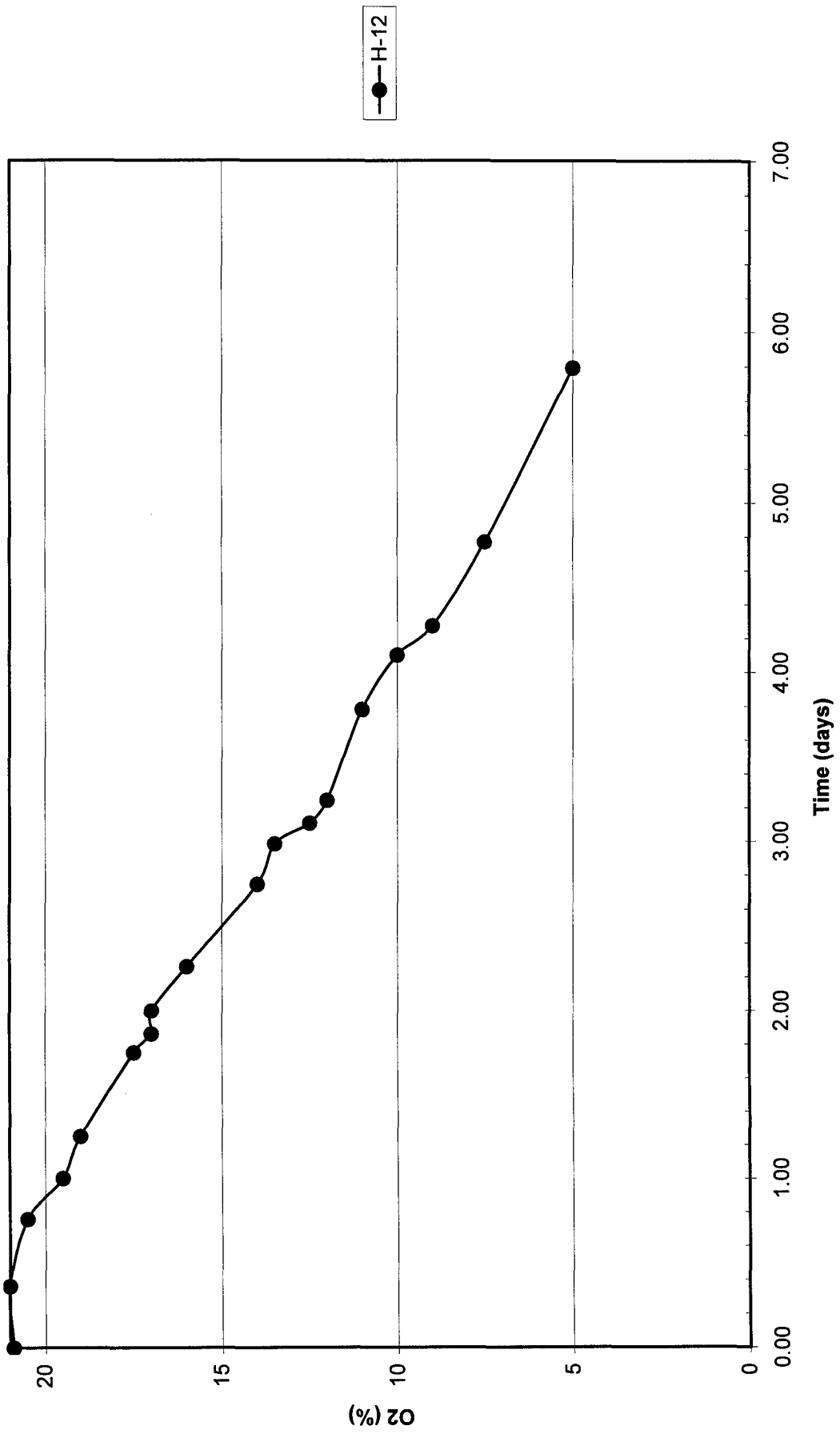
Hill AFB, UT Manual Method August 1998 Respiration Test



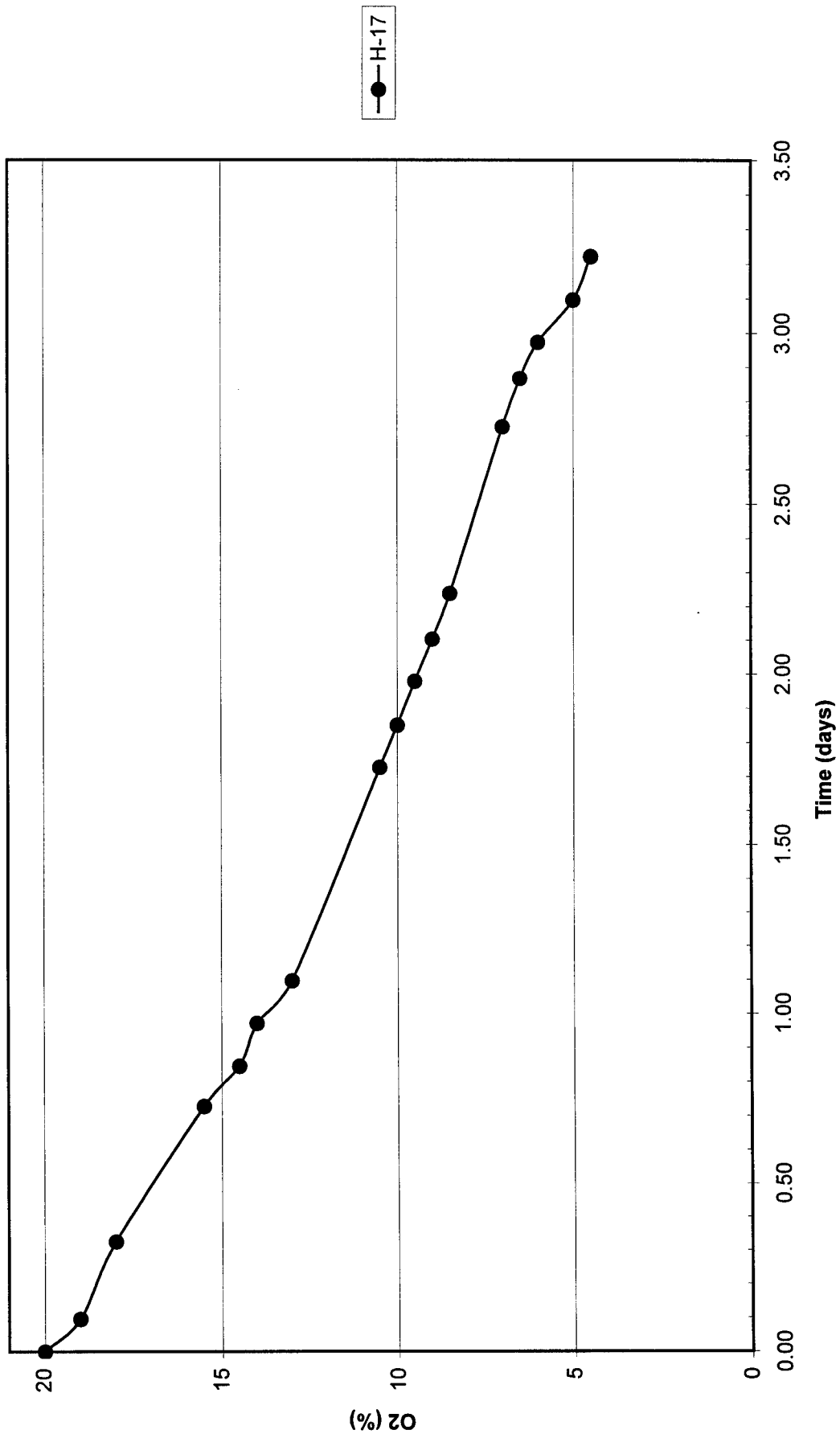
Hill AFB, UT Manual Method August 1998 Respiration Test



Hill AFB, UT Manual Method August 1998 Respiration Test



Hill AFB, UT Manual Method August 1998 Respiration Test



PLOTS OF RESPIRATION GASES (OXYGEN and CARBON DIOXIDE)

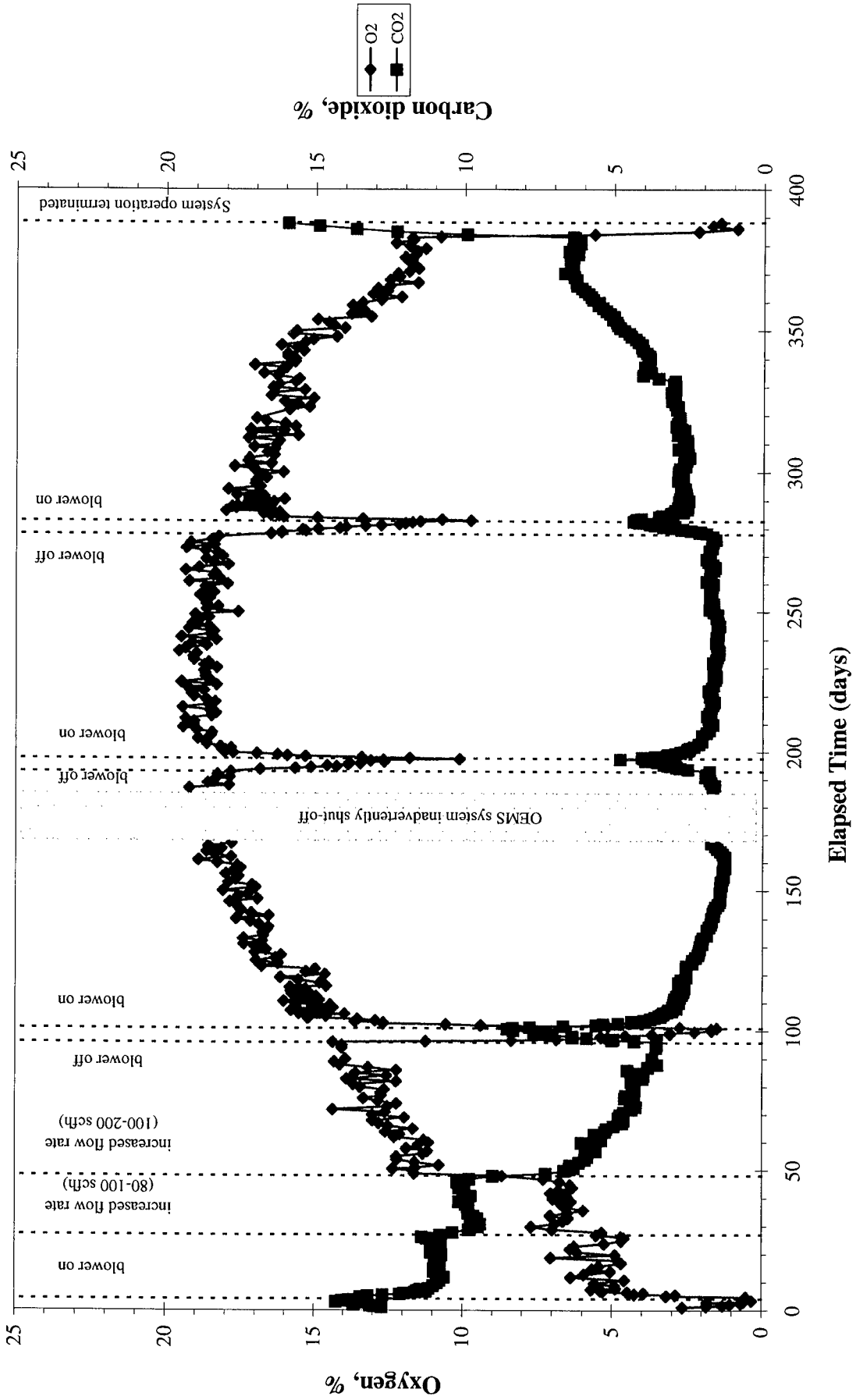
MONITORED BY

OEMS

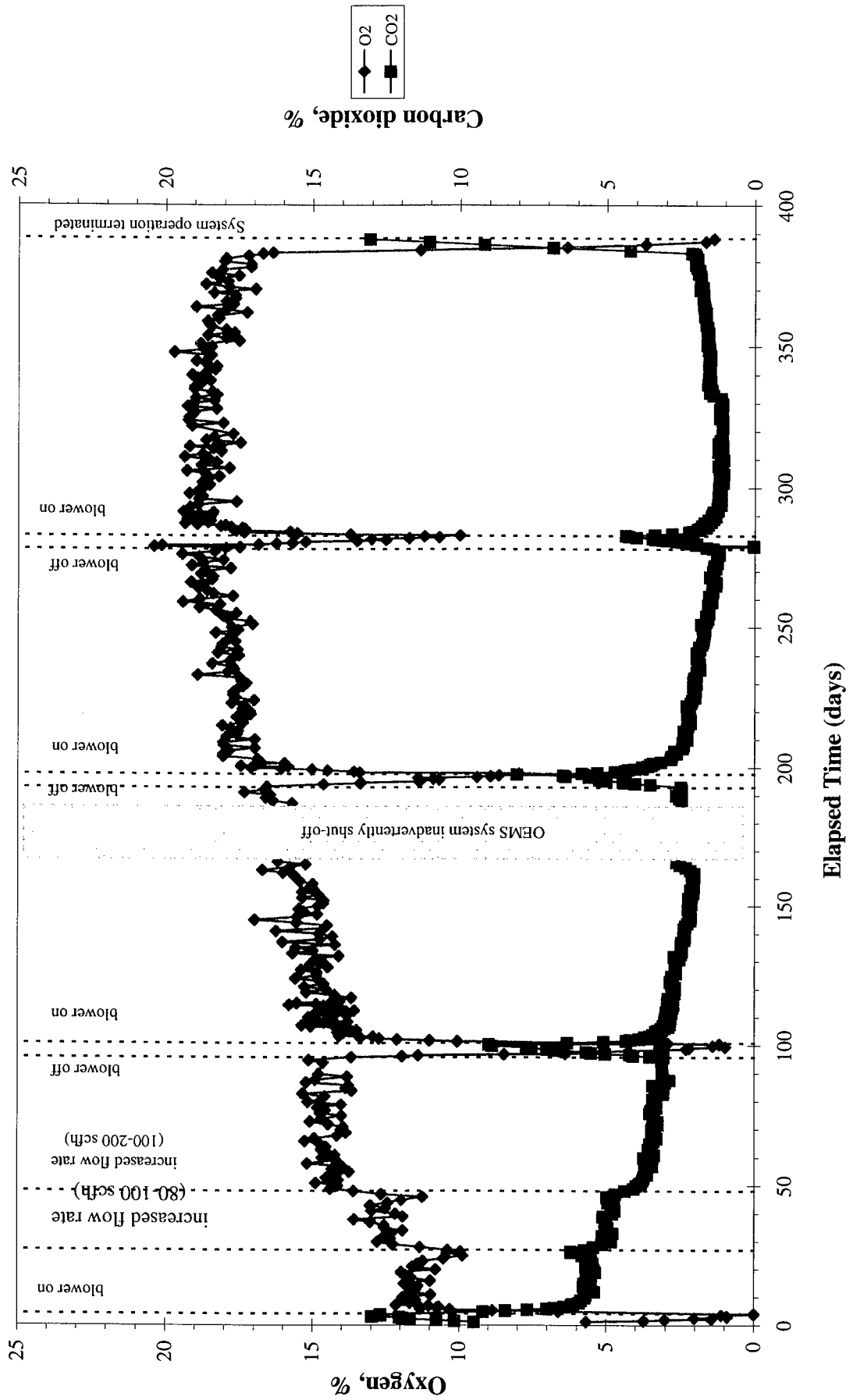
DURING BIOVENTING

July 1997 to July 1998

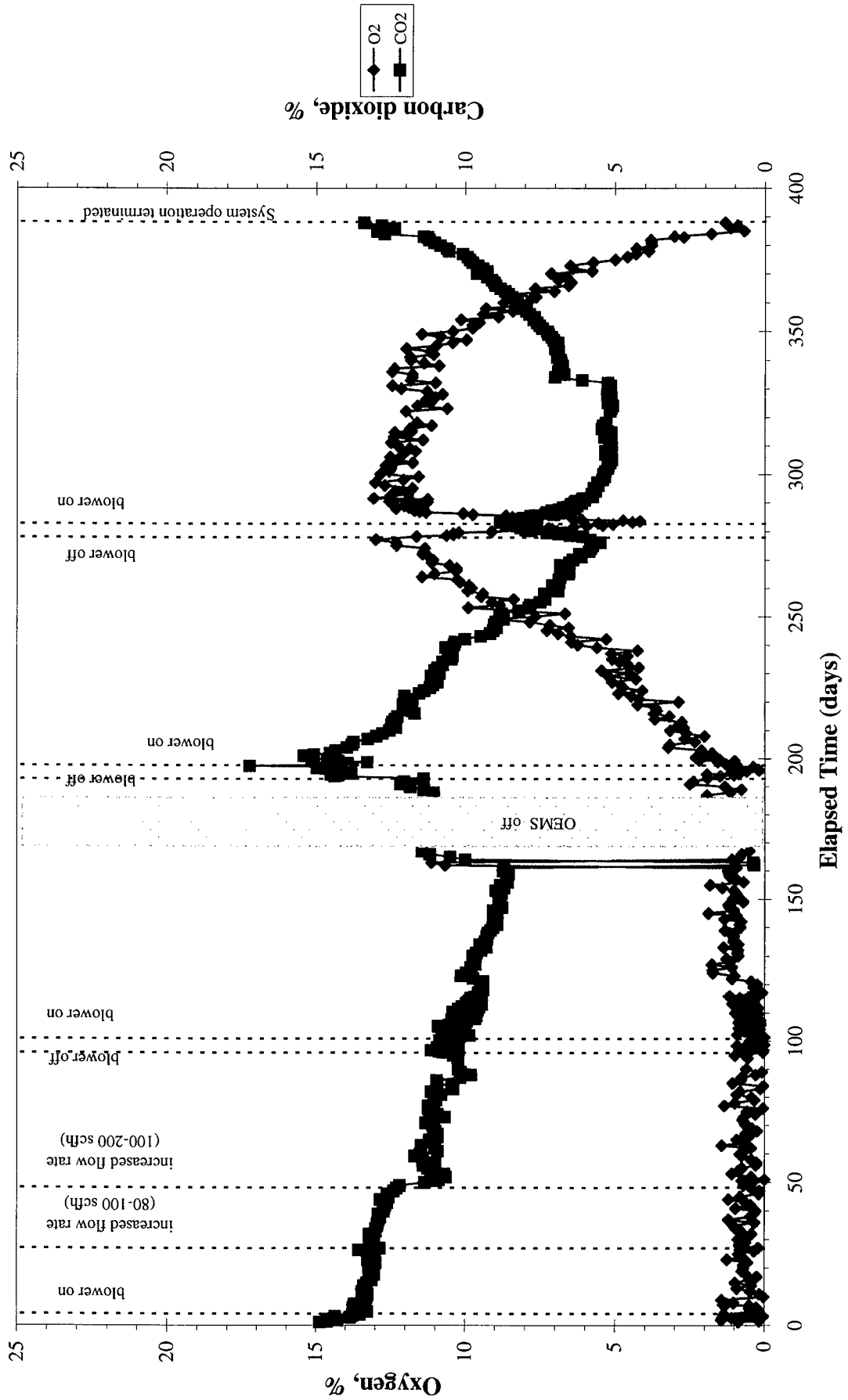
OEMS MP-A 7 ft bgs



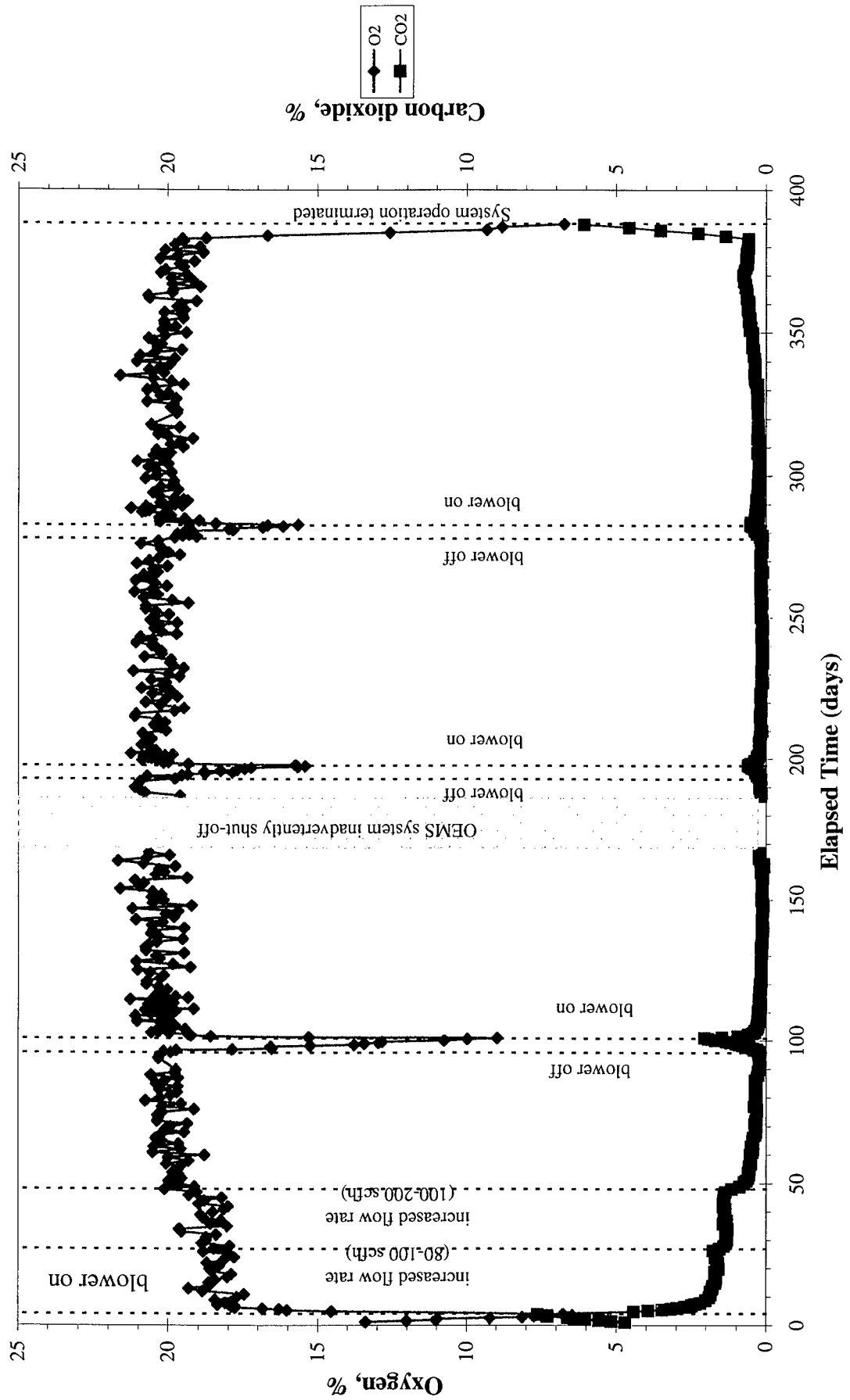
OEMS
MPA 12 ft bgs



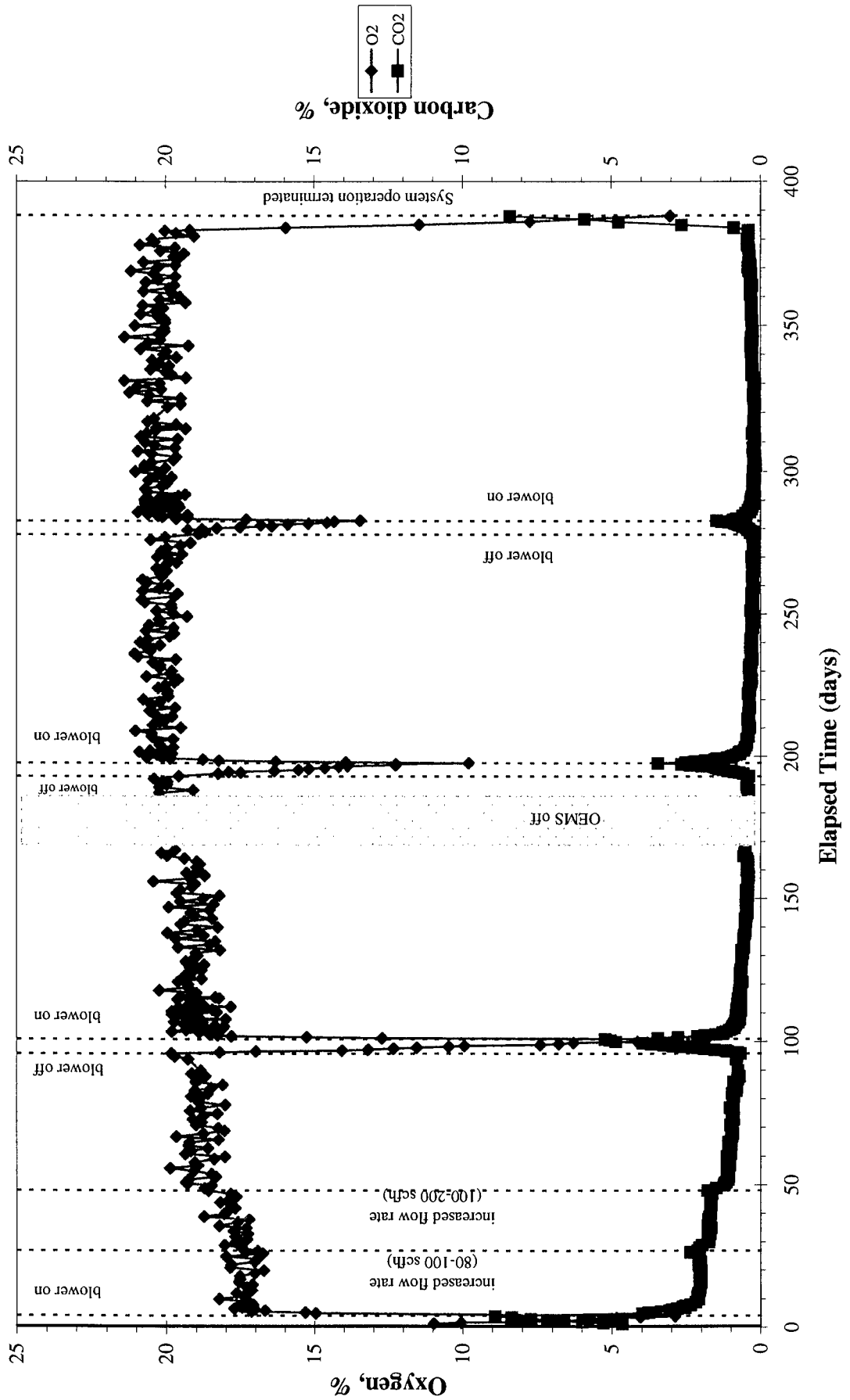
**OEMS
MPA 17 ft bgs**



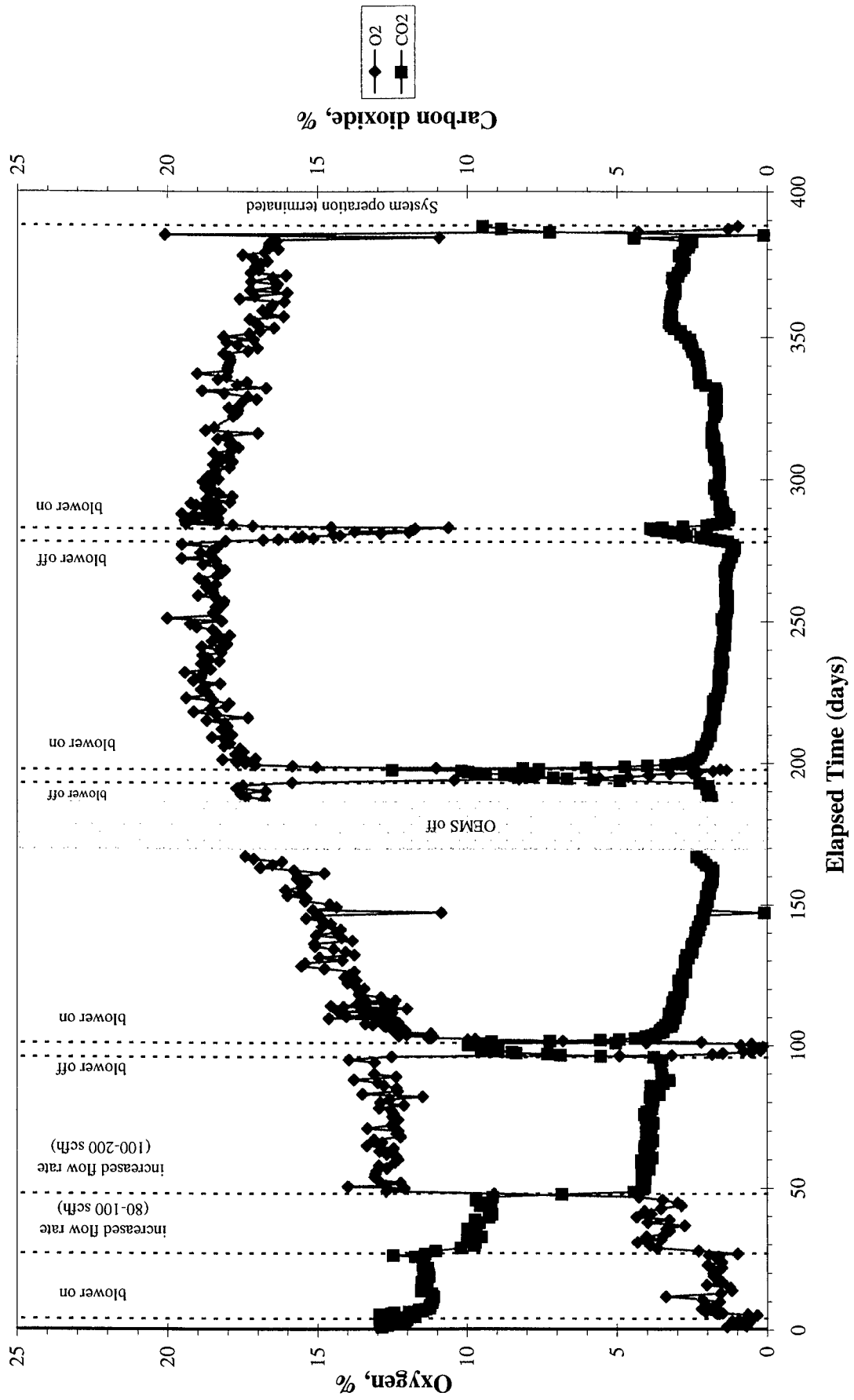
OEMS
MPB 7 ft bgs



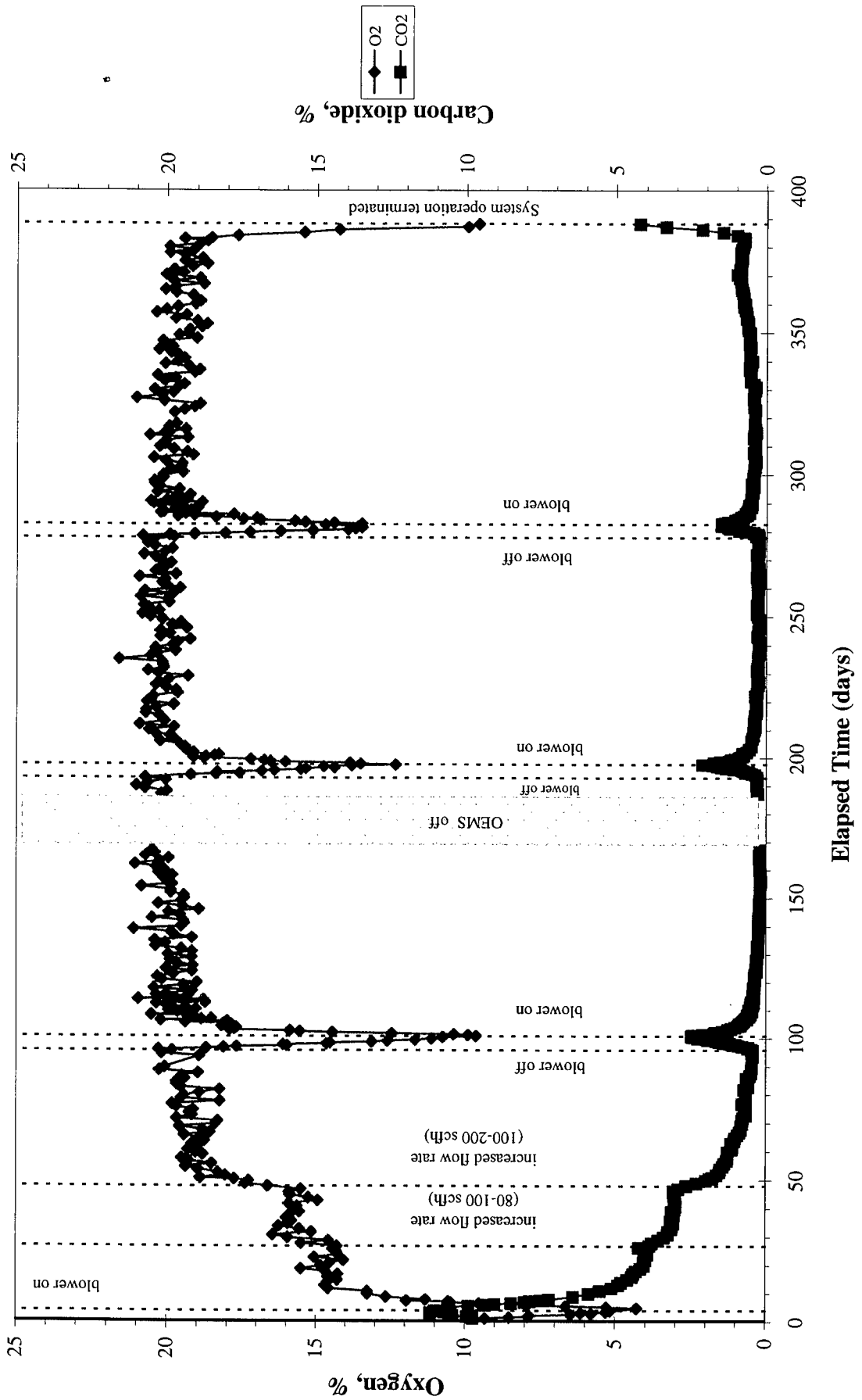
OEMS MPB 12 ft bgs



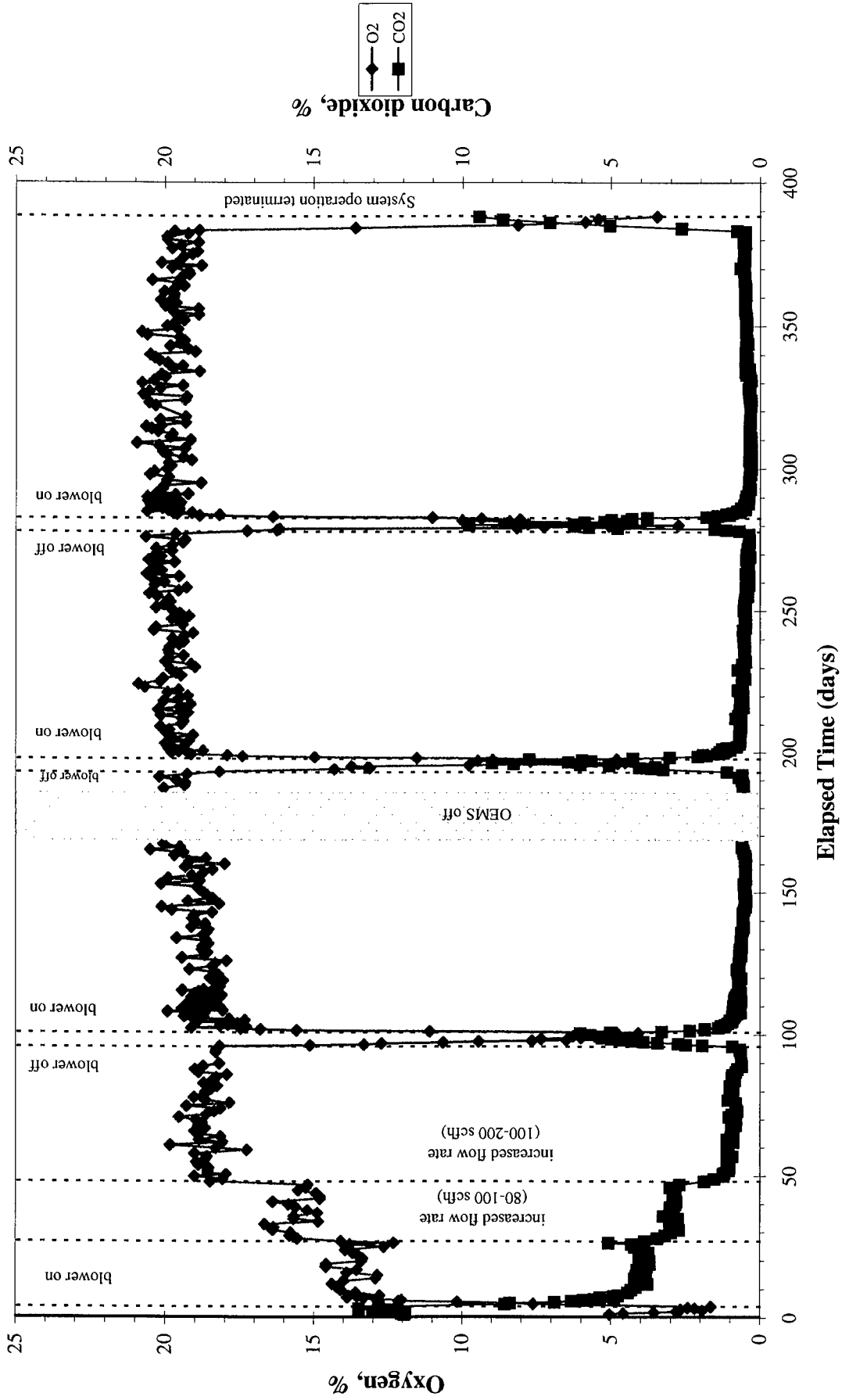
OEMS MPB 17 ft bgs



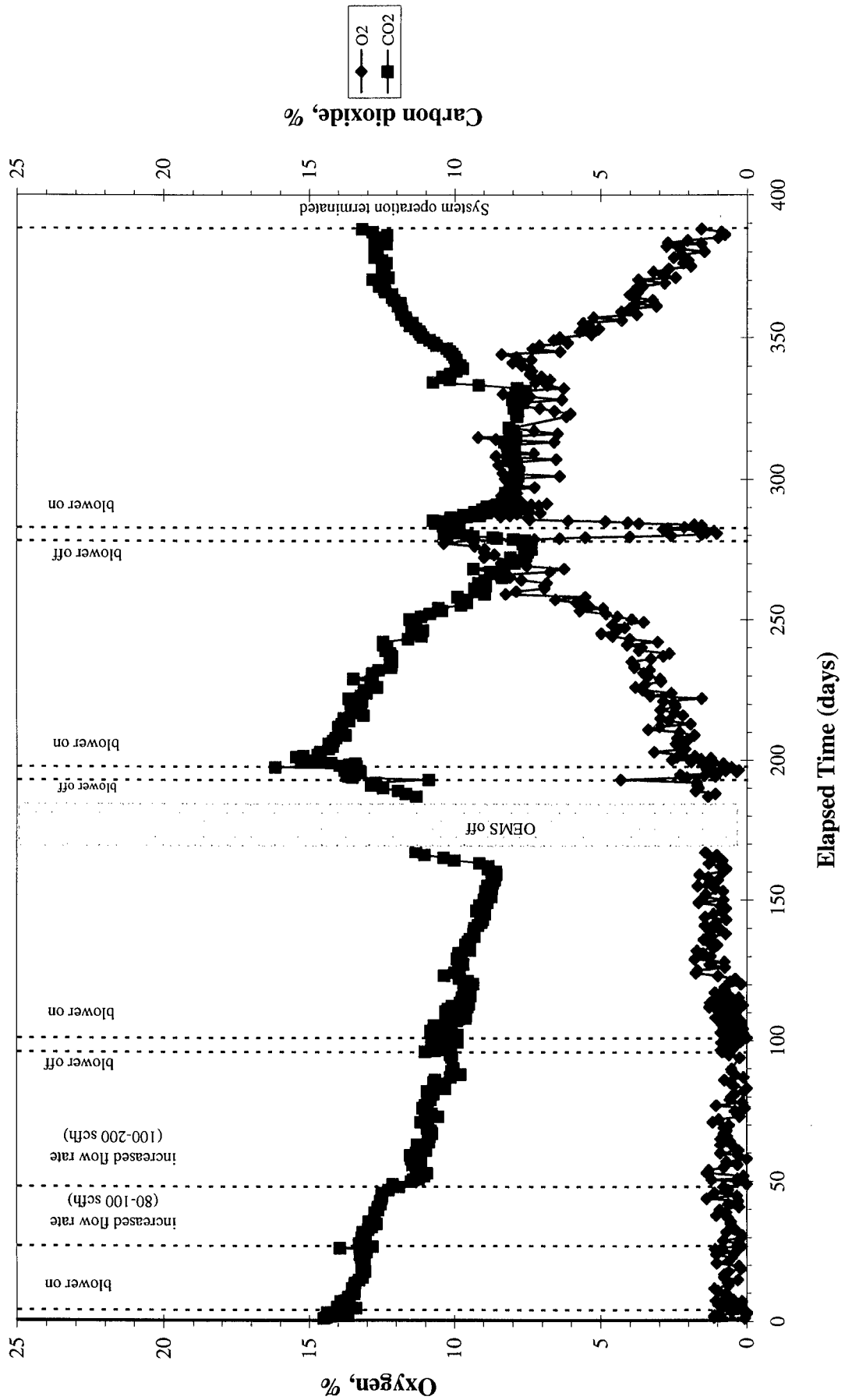
OEMS MPC 7 ft bgs



OEMS
MPC 12 ft bgs

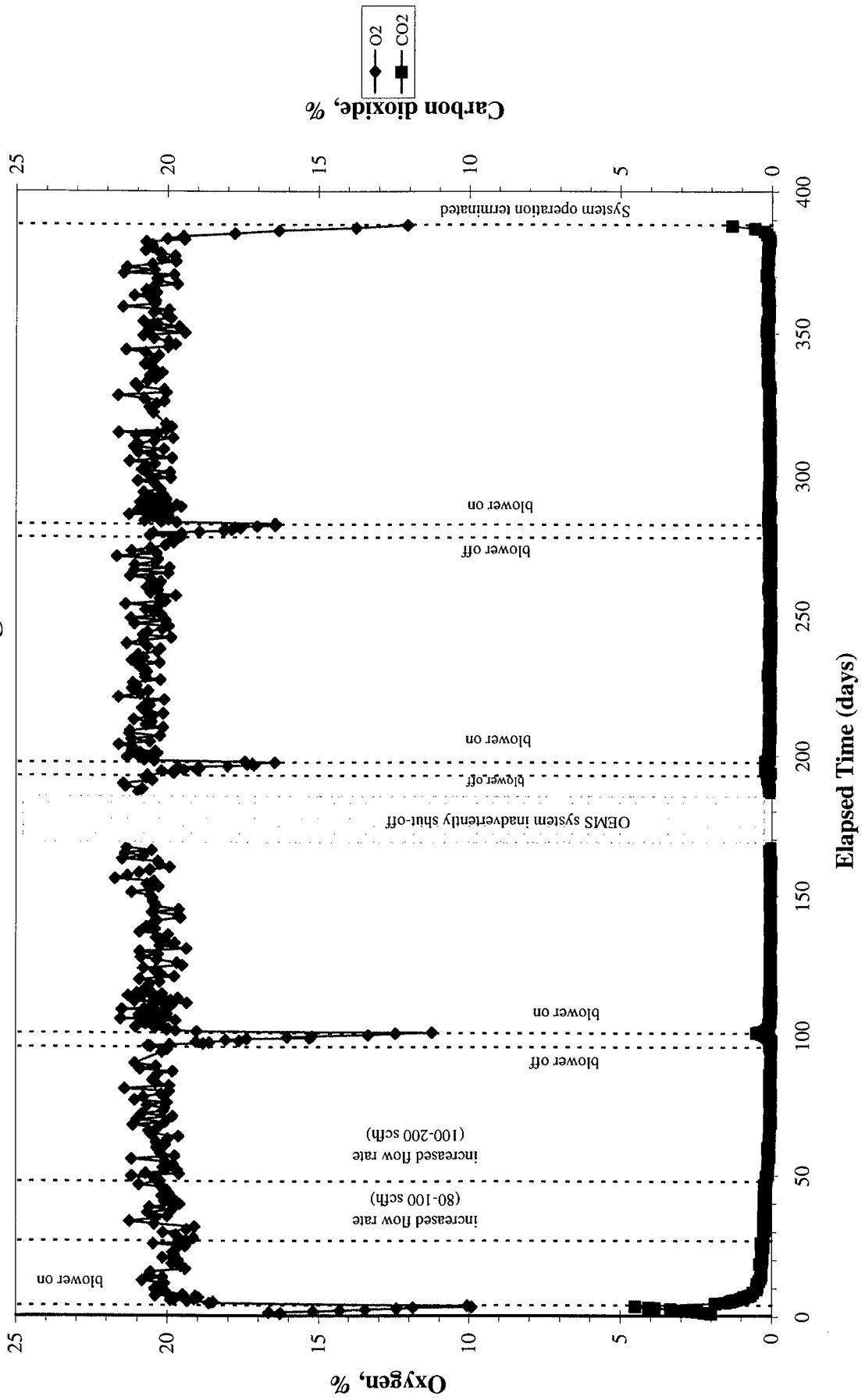


**OEMS
MPC 17 ft bgs**

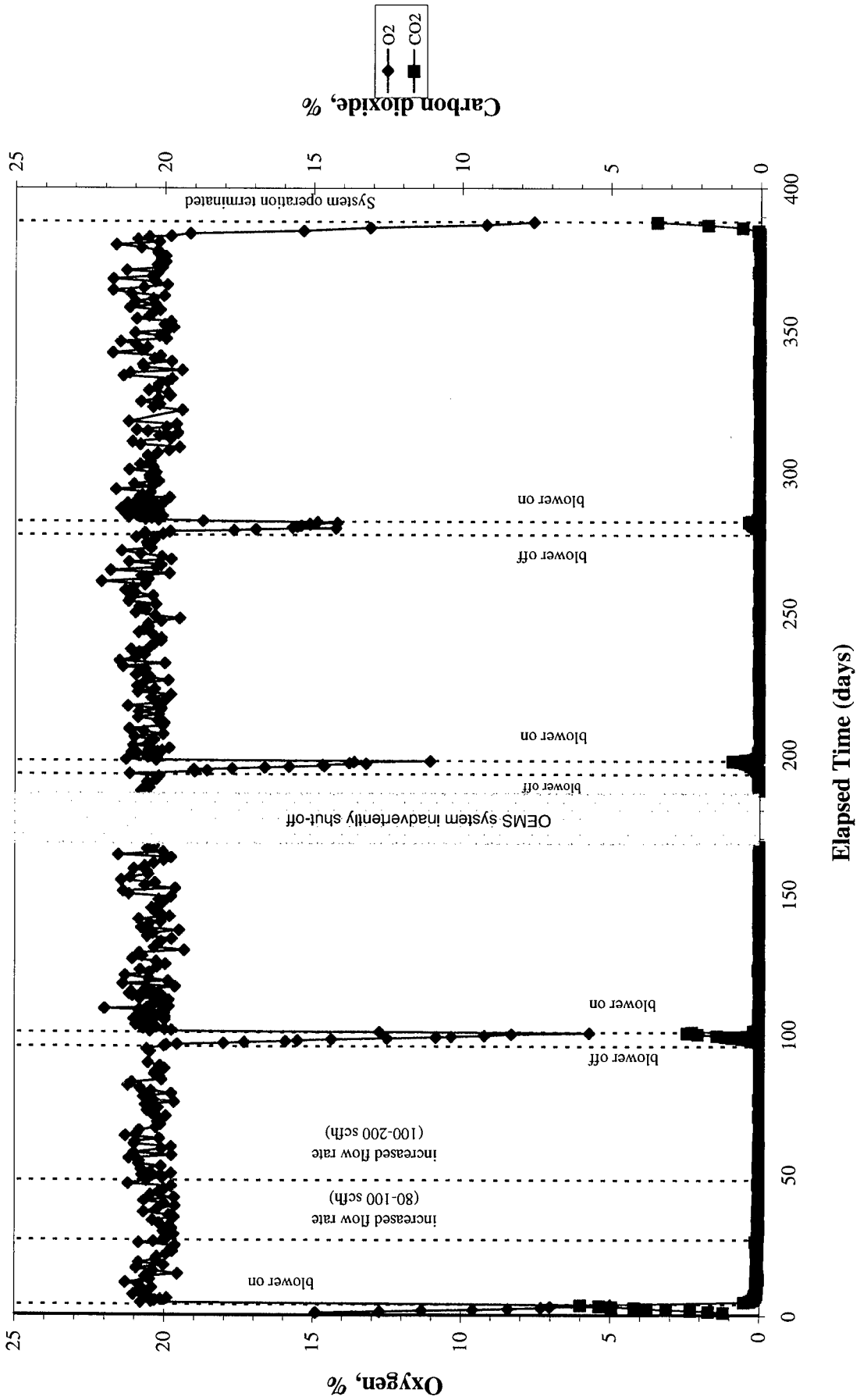


OEMS

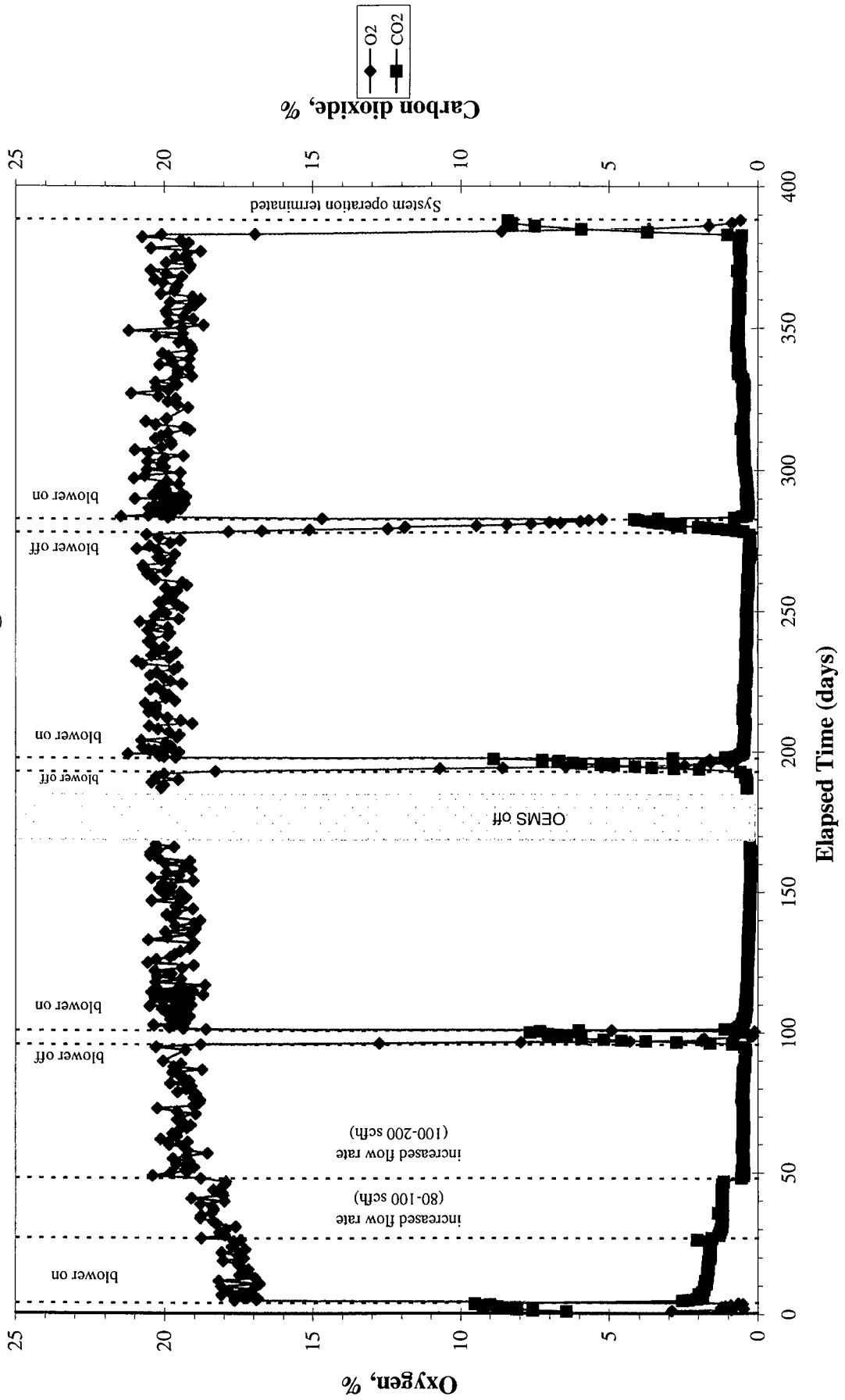
MPD 7 ft bgs



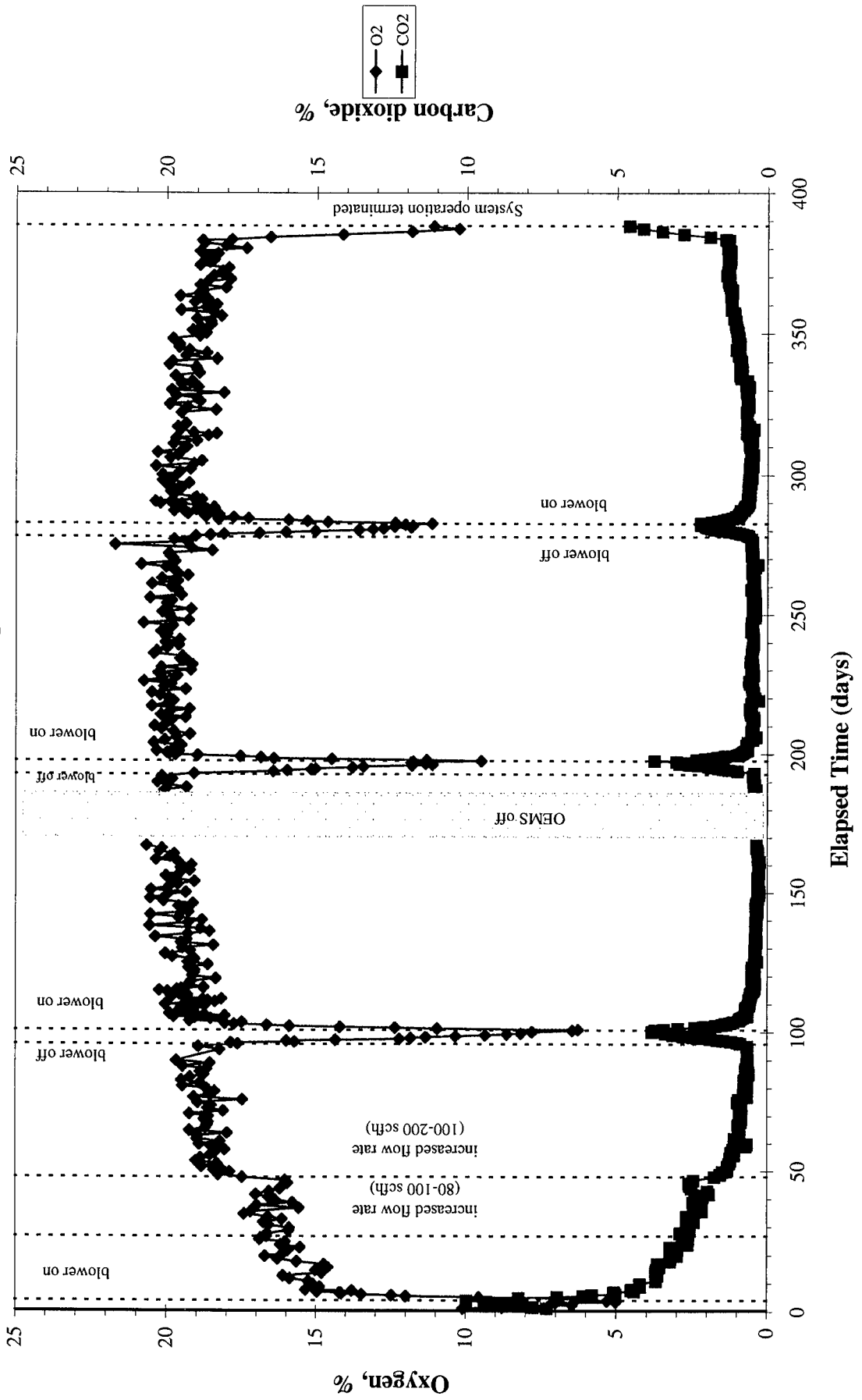
OEMS
MPD 12 ft bgs

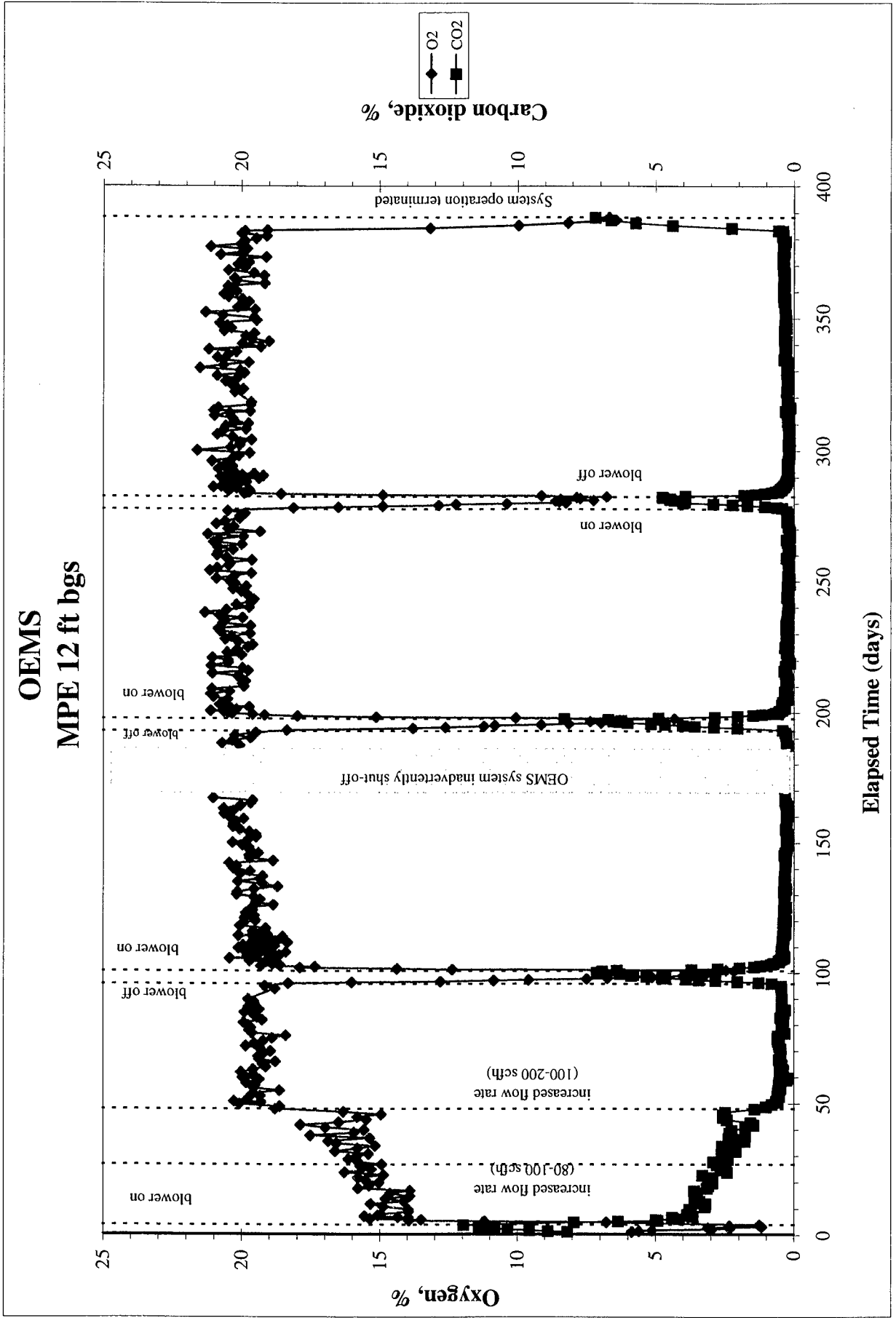


OEMS
MPD 17 ft bgs

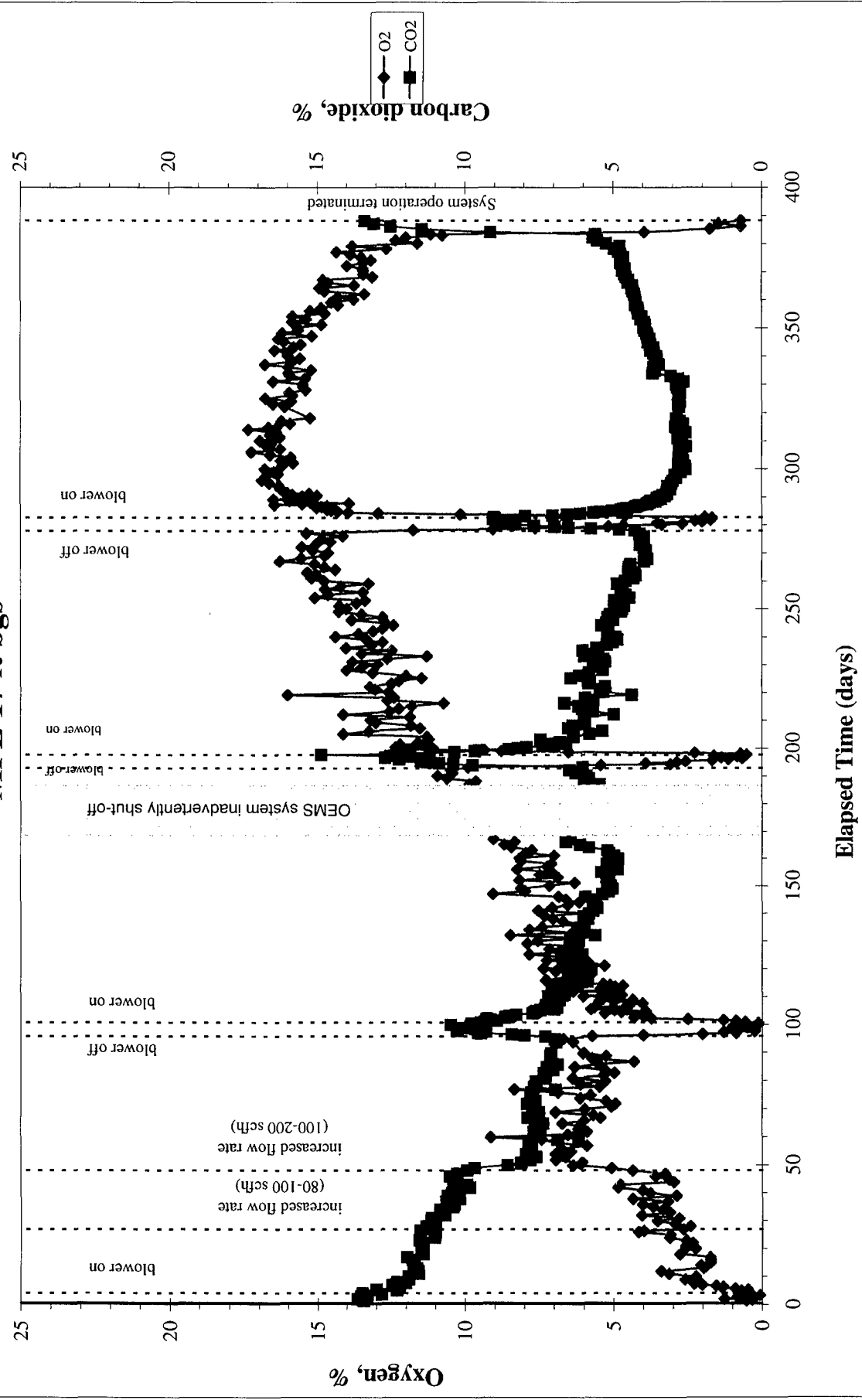


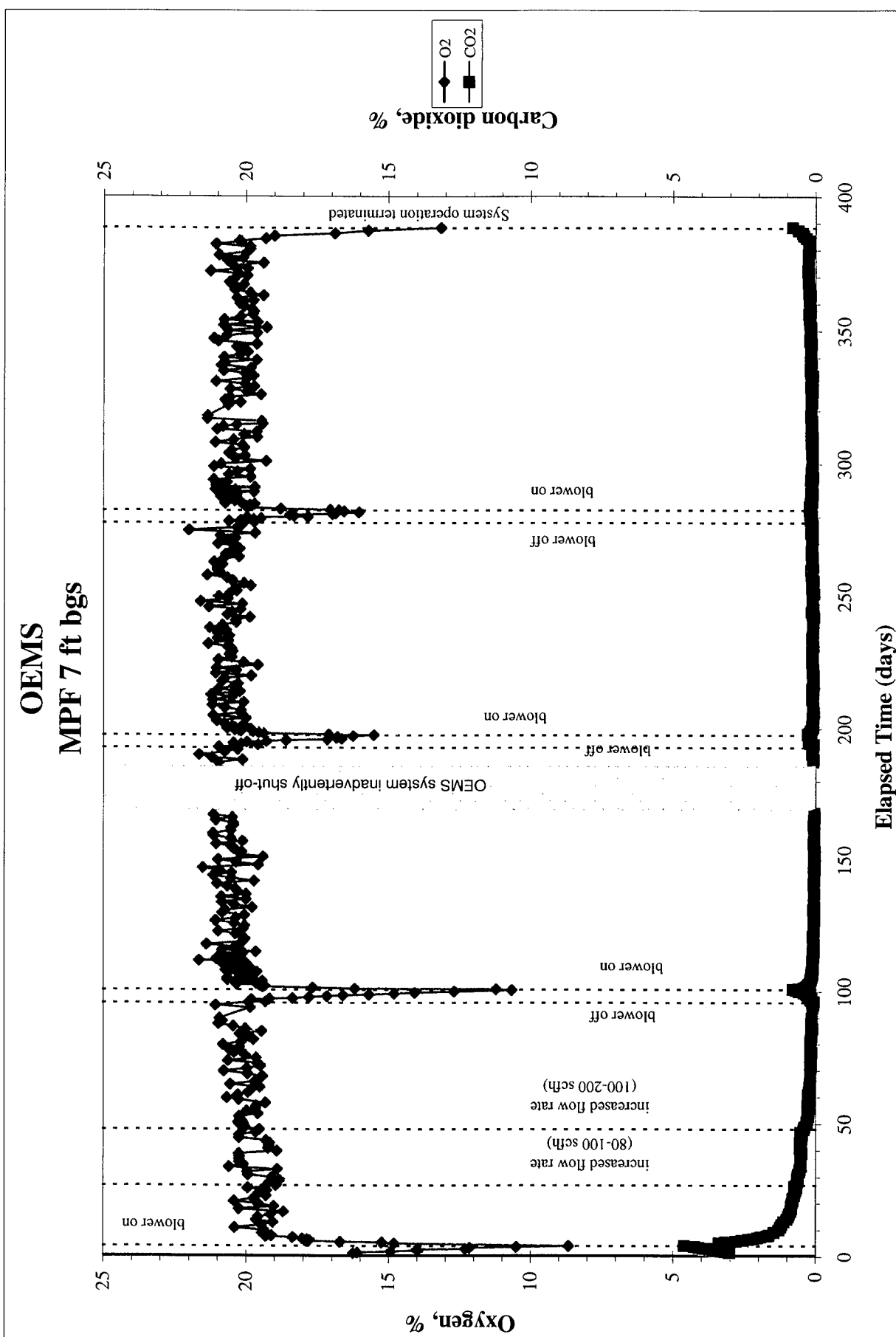
OEMS
MPE 7 ft bgs

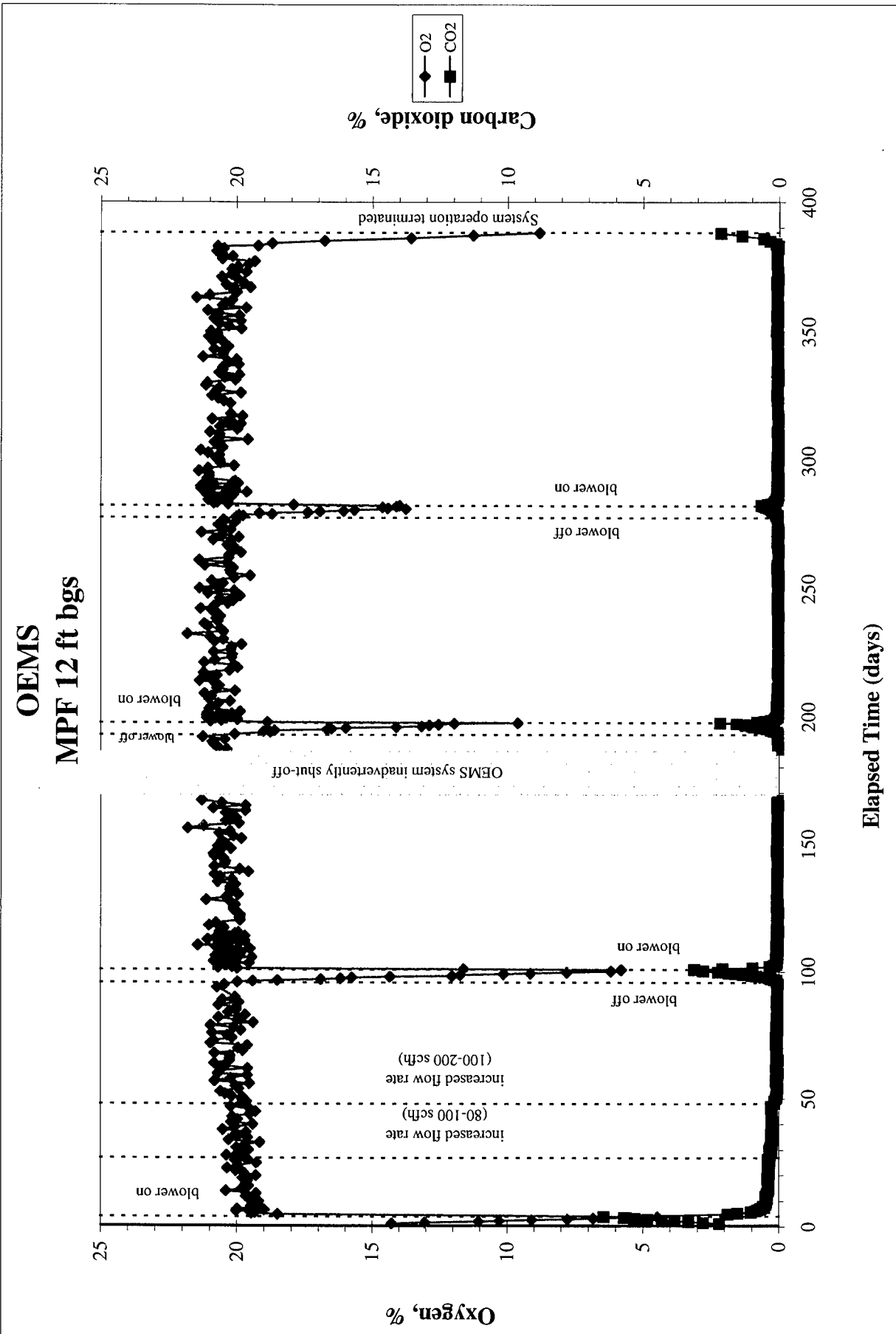




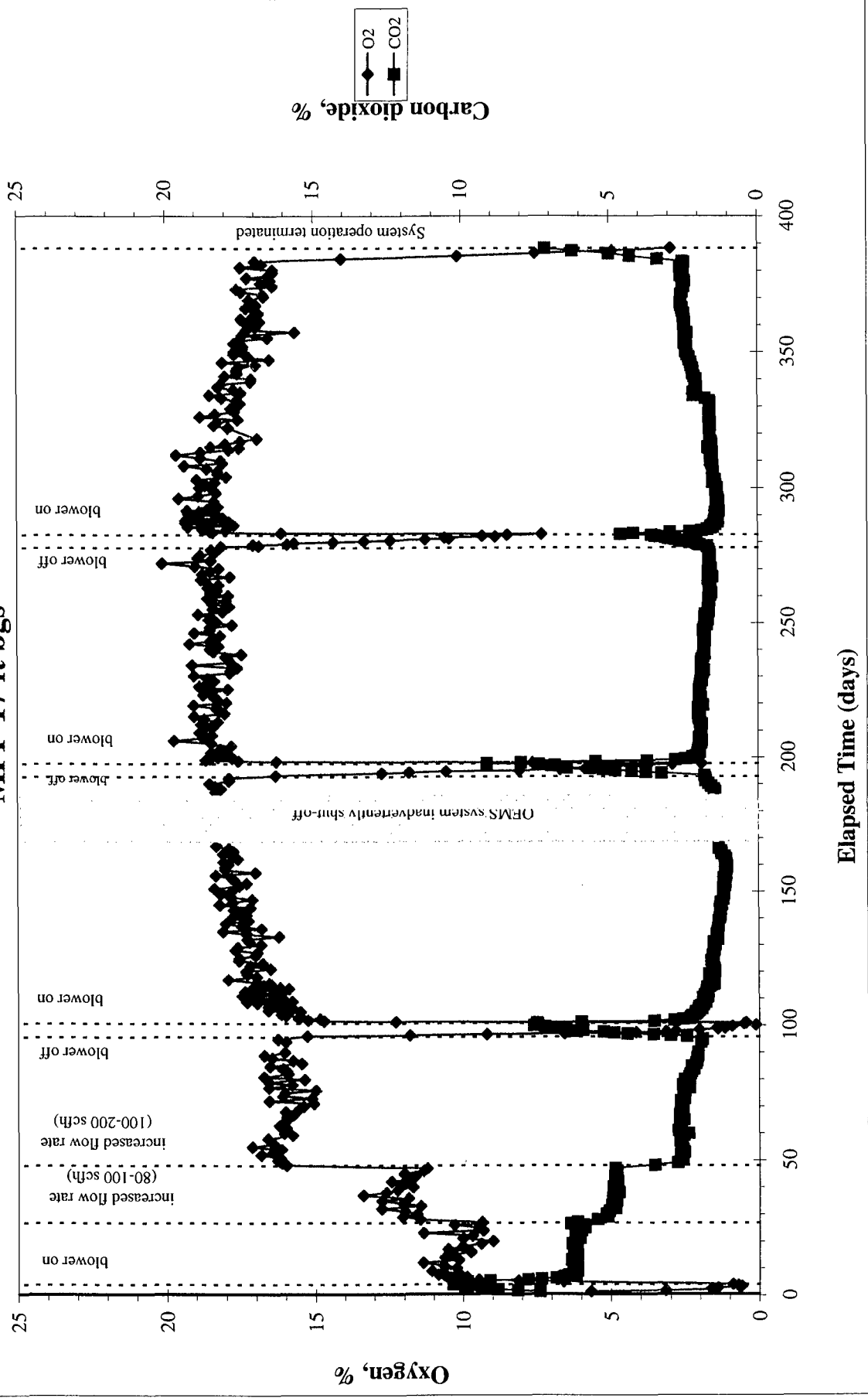
OEMS MPE 17 ft bgs

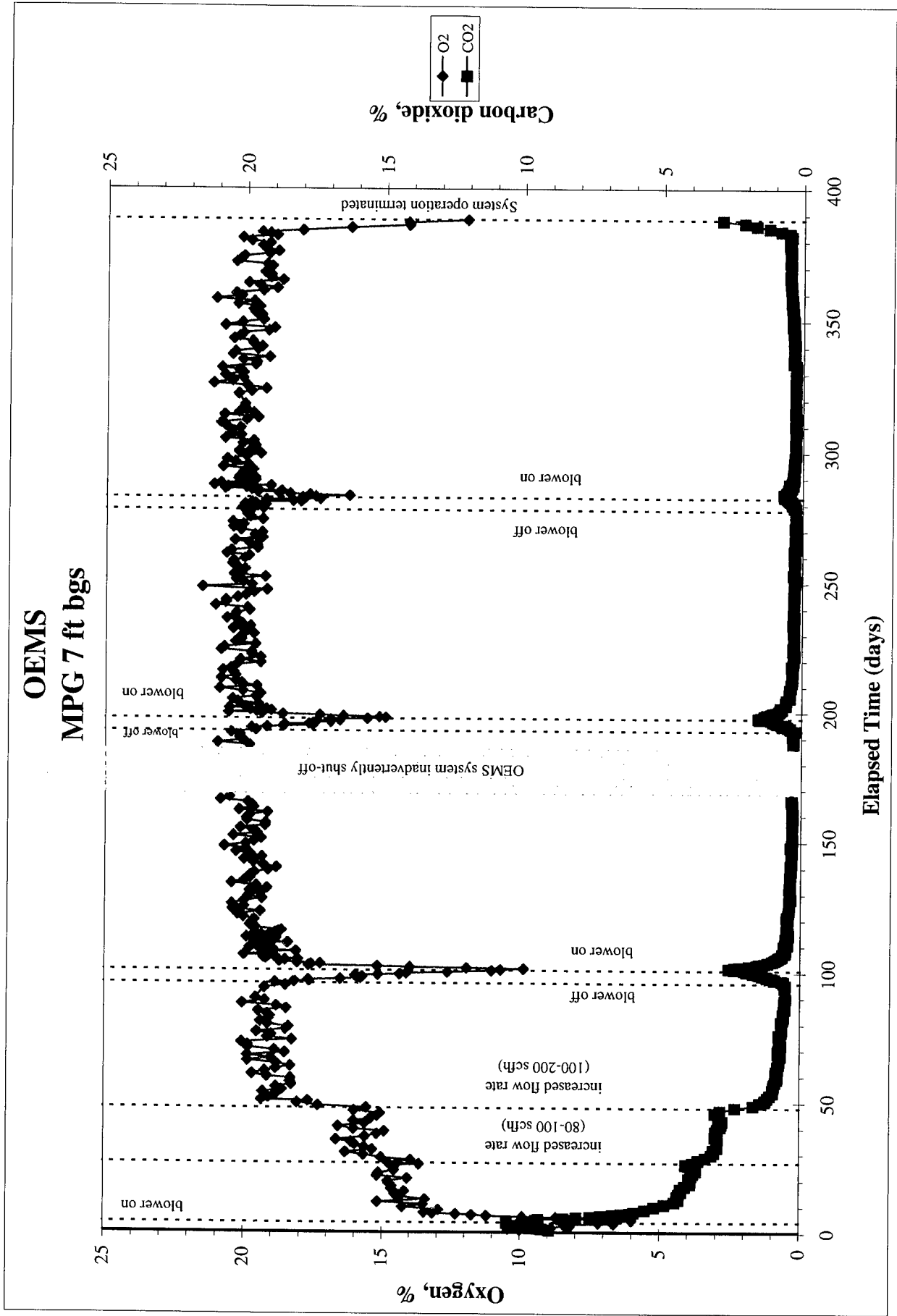




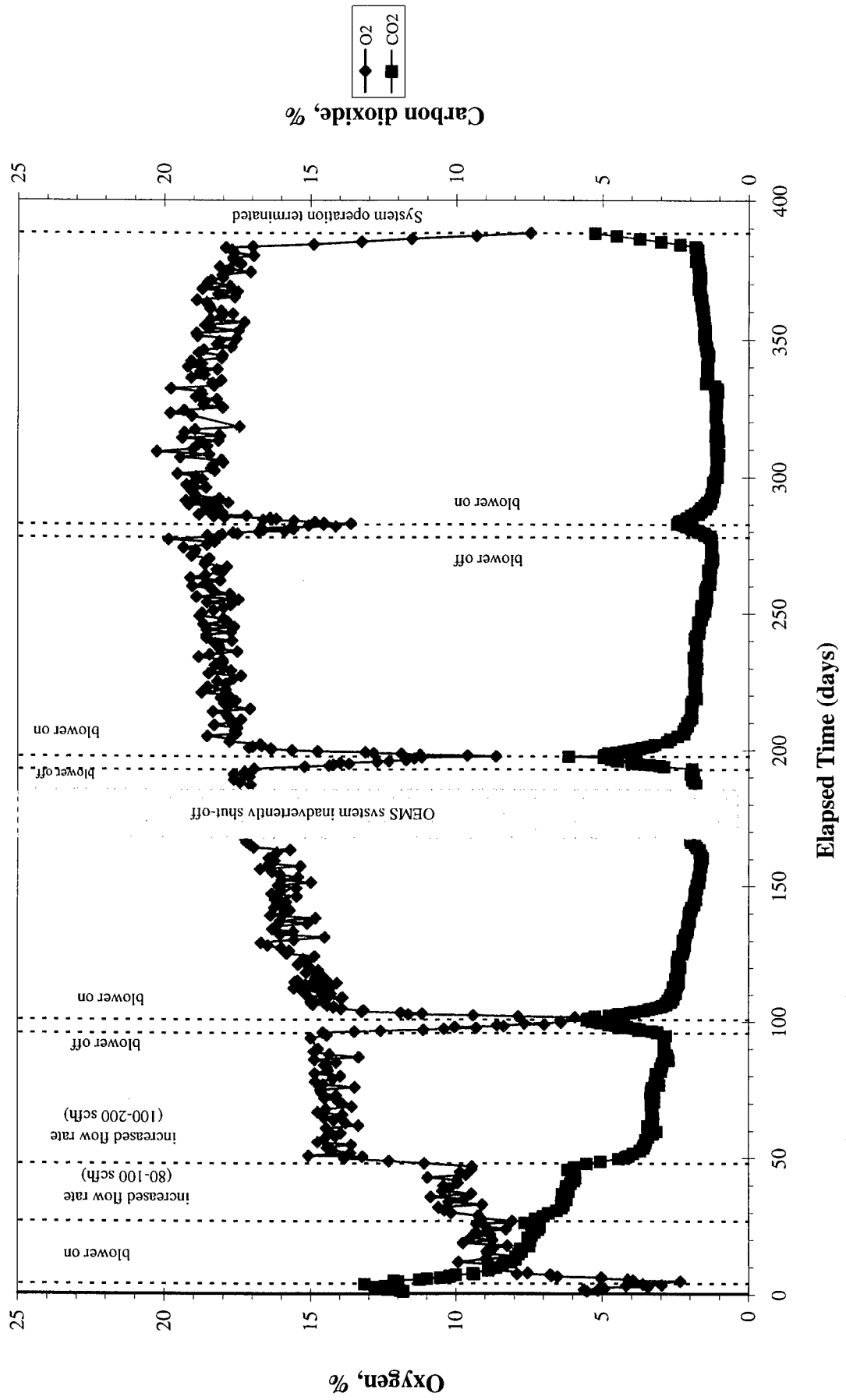


OEMS
MPF 17 ft bgs

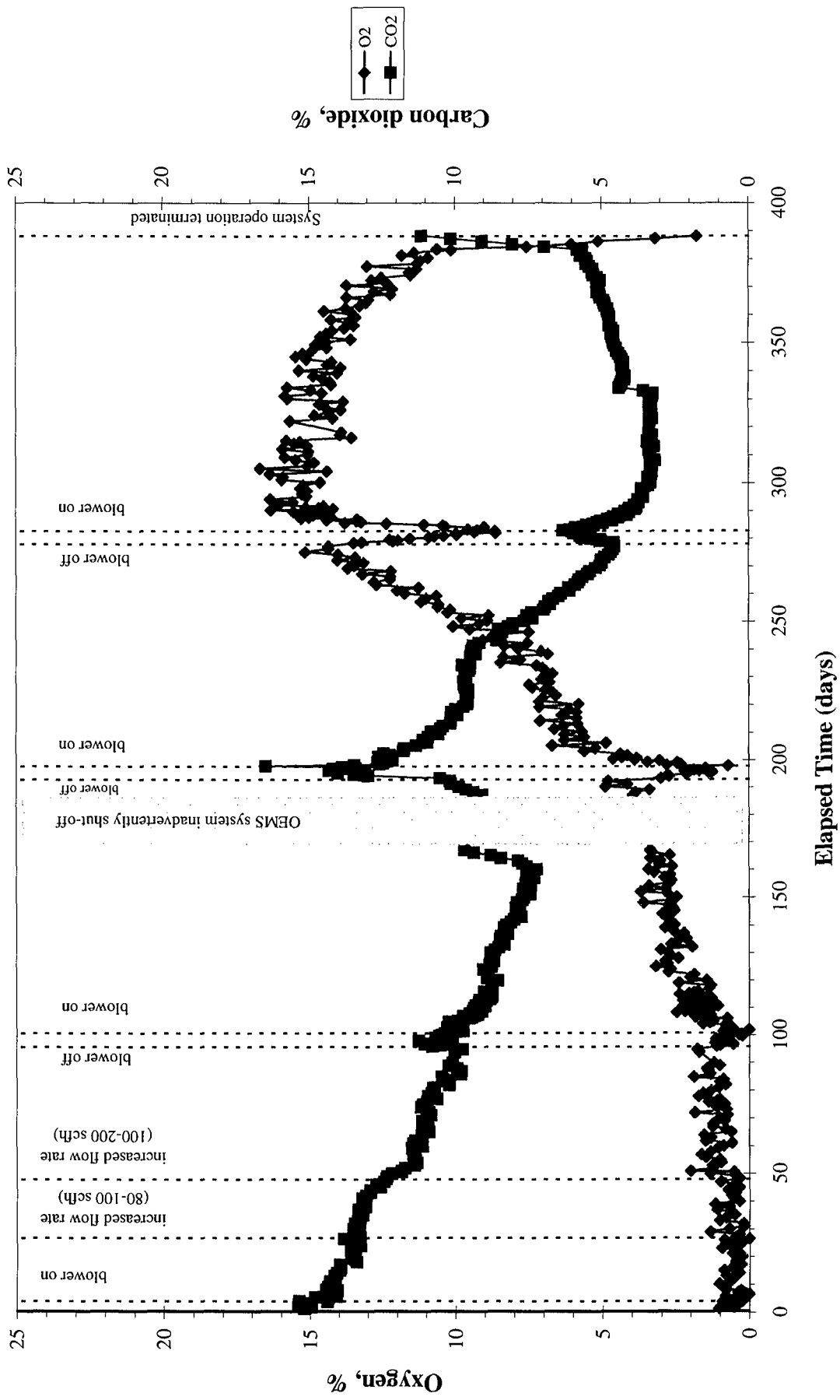


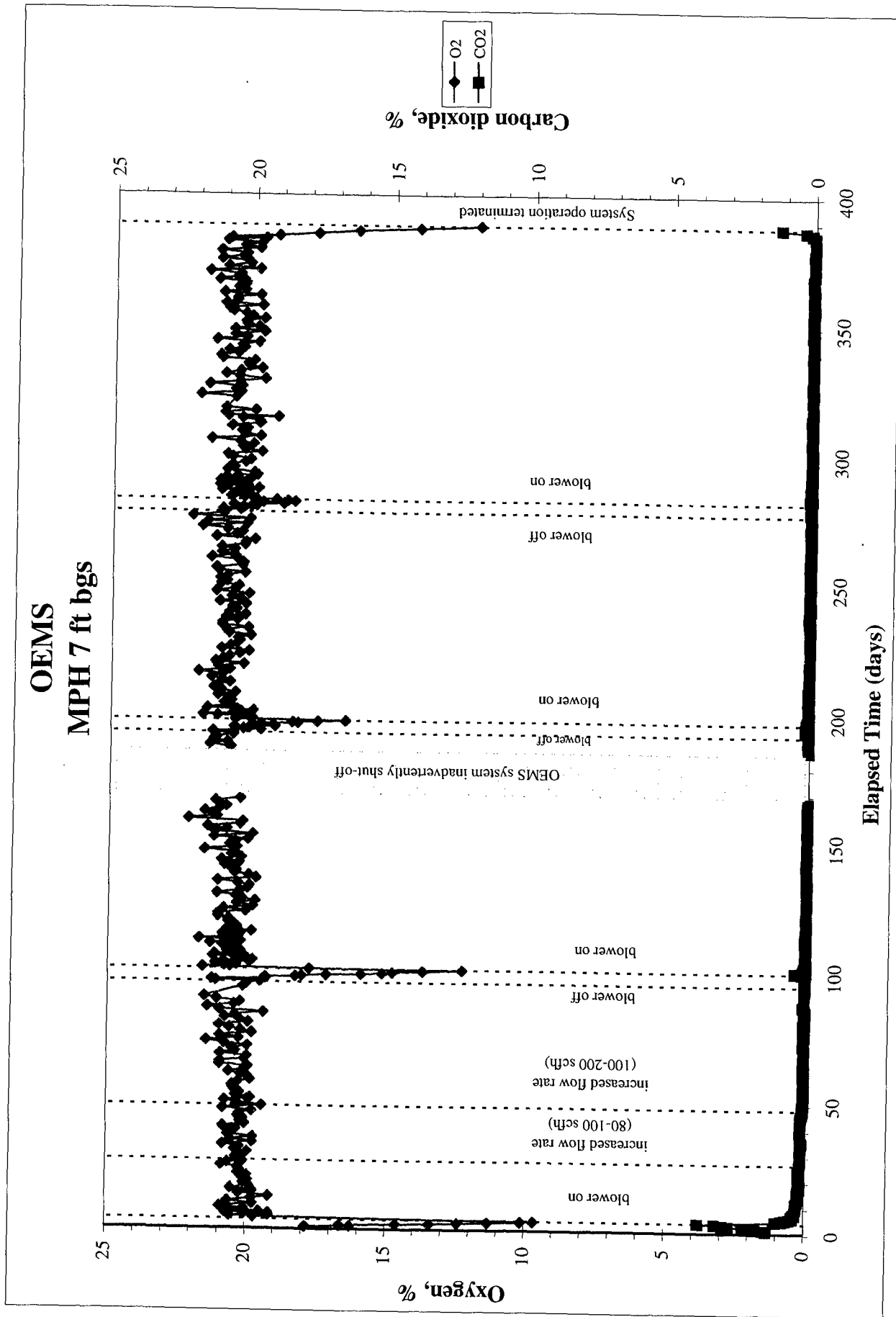


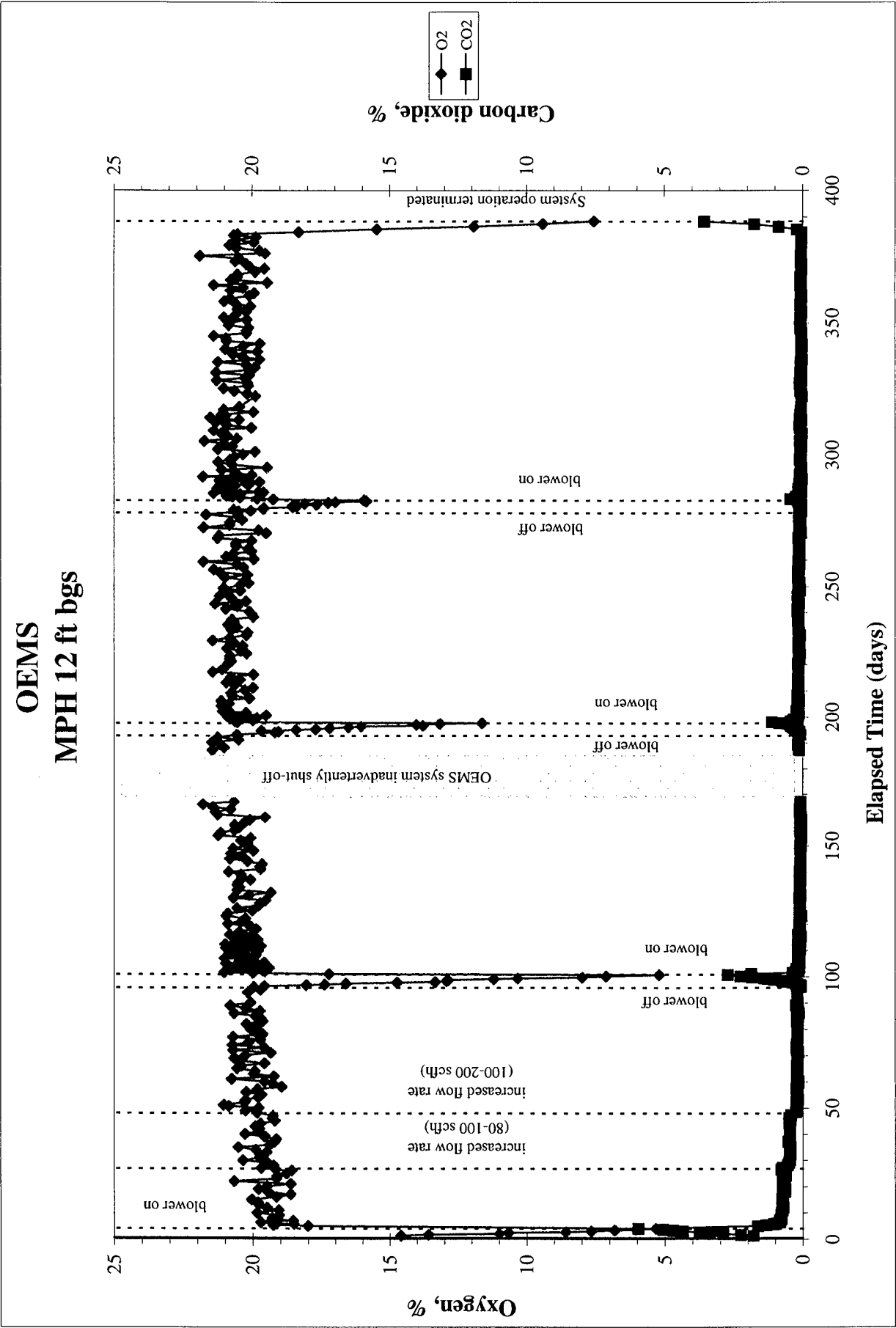
**OEMS
MPG 12 ft bgs**



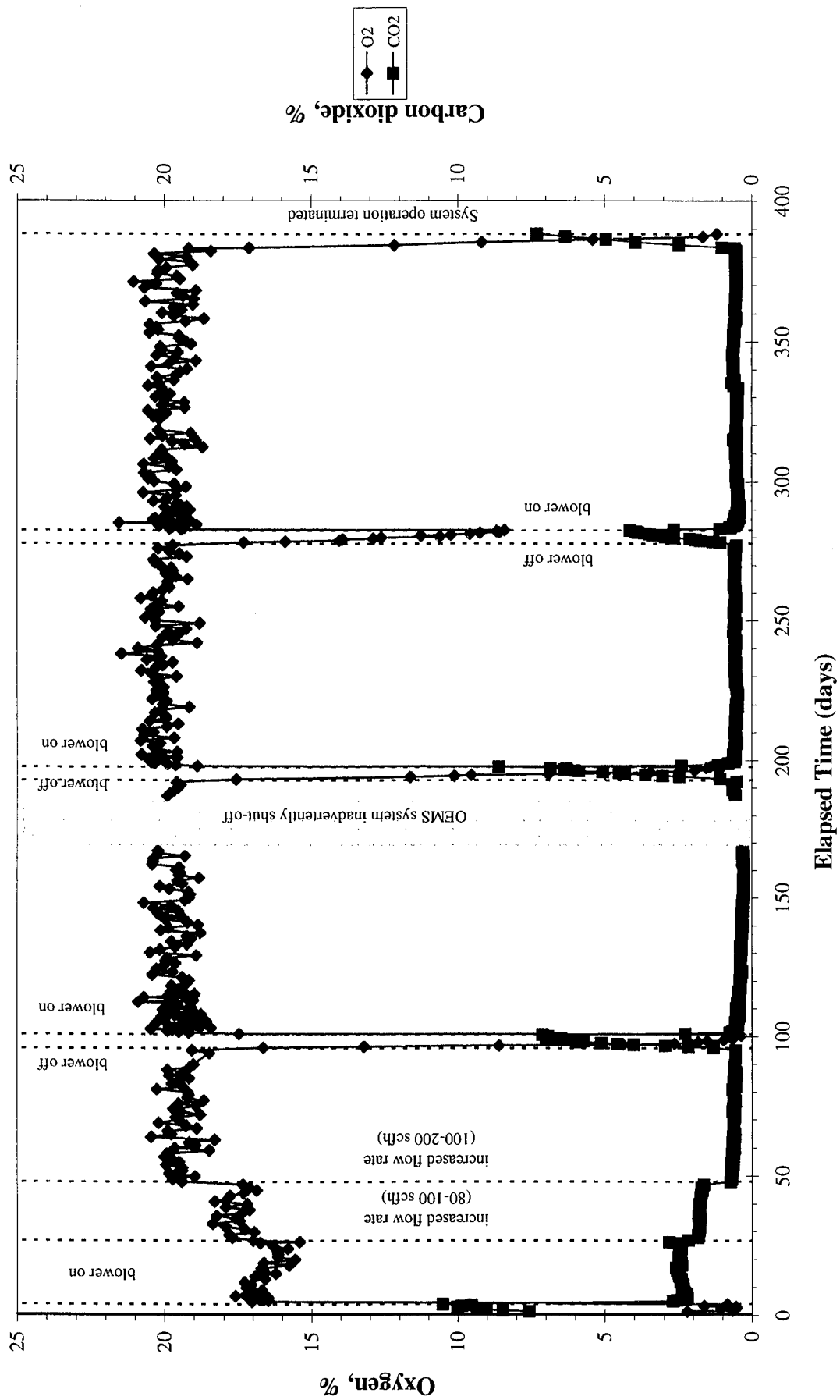
**OEMS
MPG 17 ft bgs**







**OEMS
MPH 17 ft bgs**



PLOTS OF PERIODIC SOIL GAS MONITORING RESULTS

for

1,2 DCB

1,3 DCB

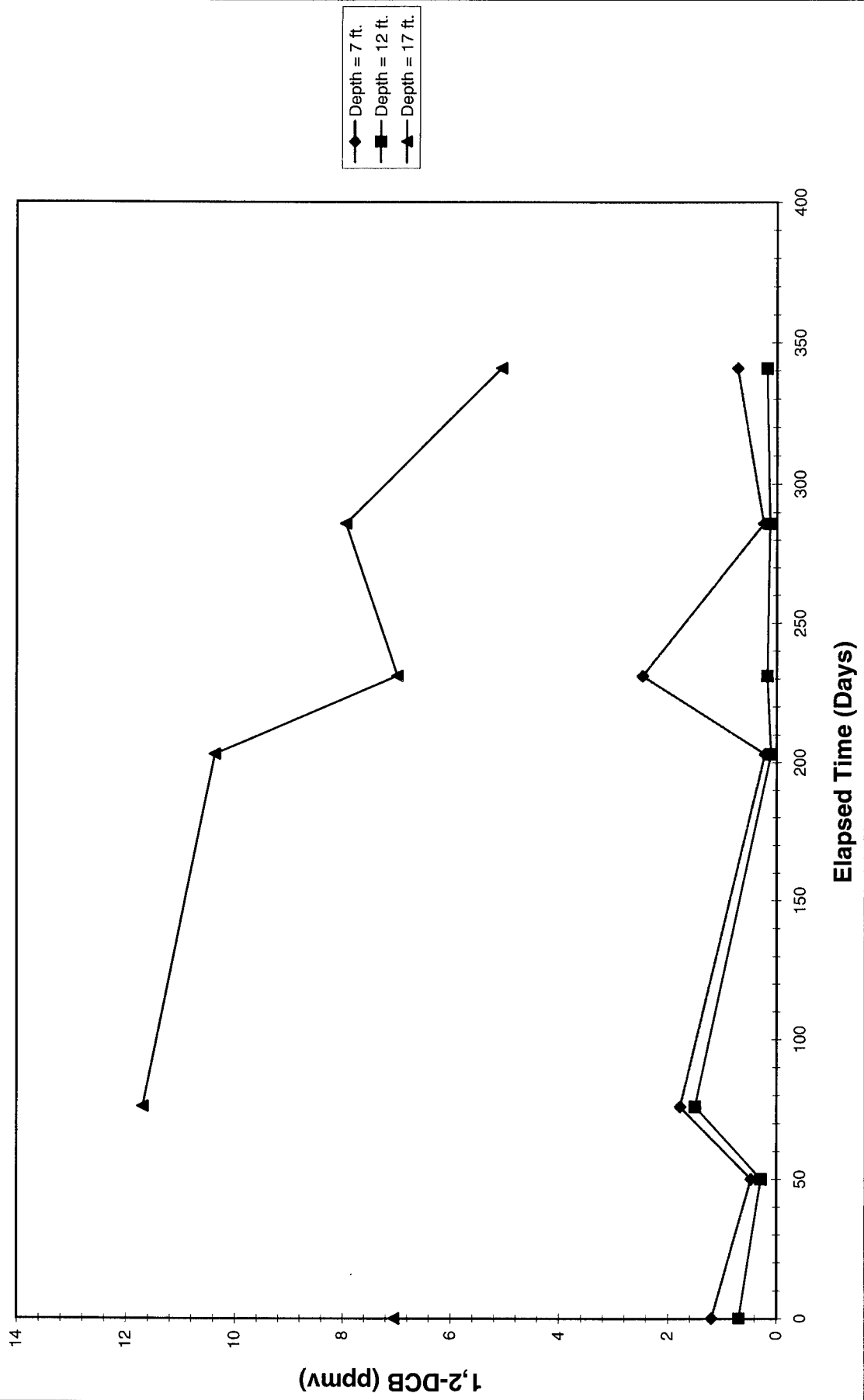
1,4 DCB

TPH

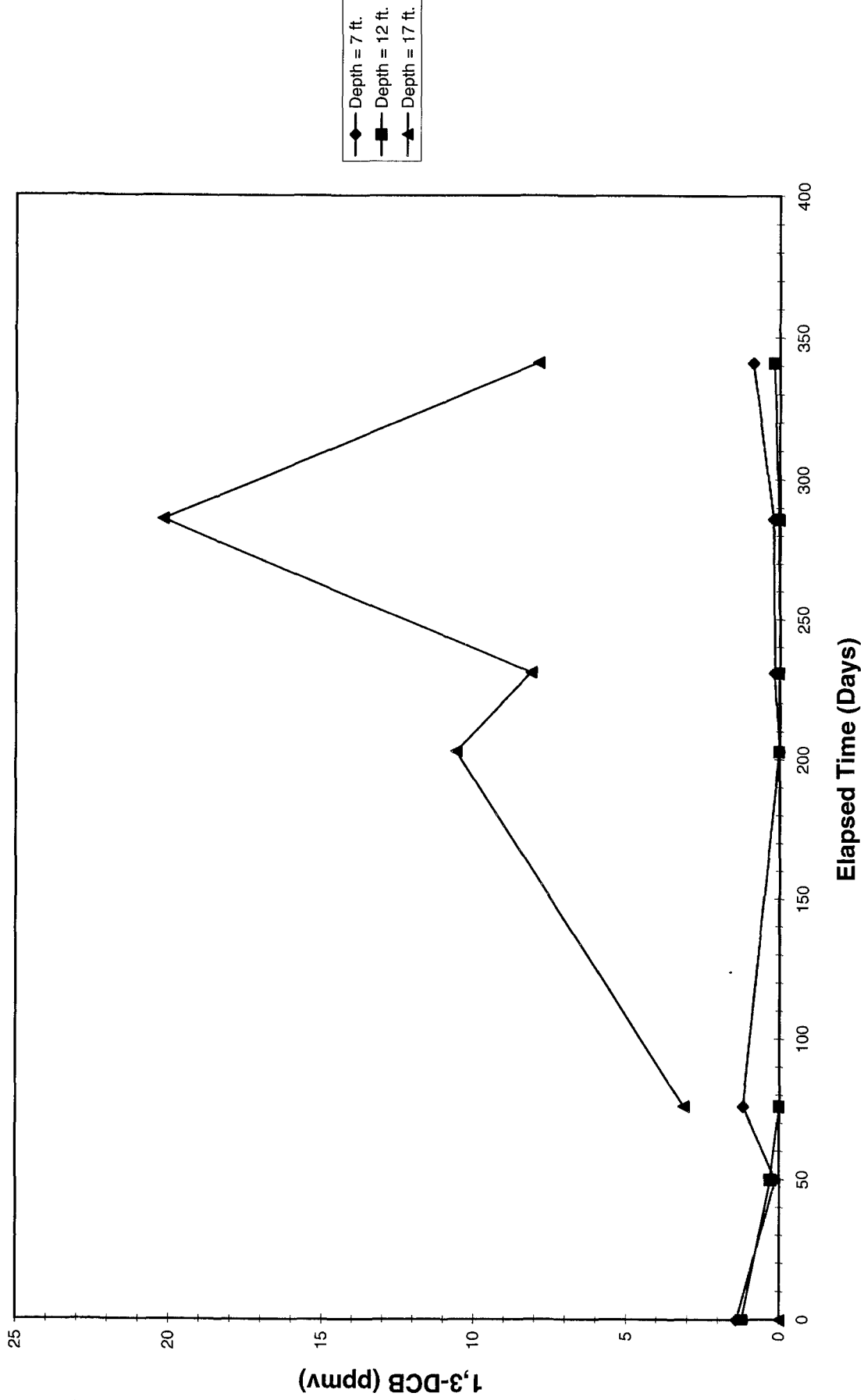
DURING BIOVENTING

July 1997 to July 1998

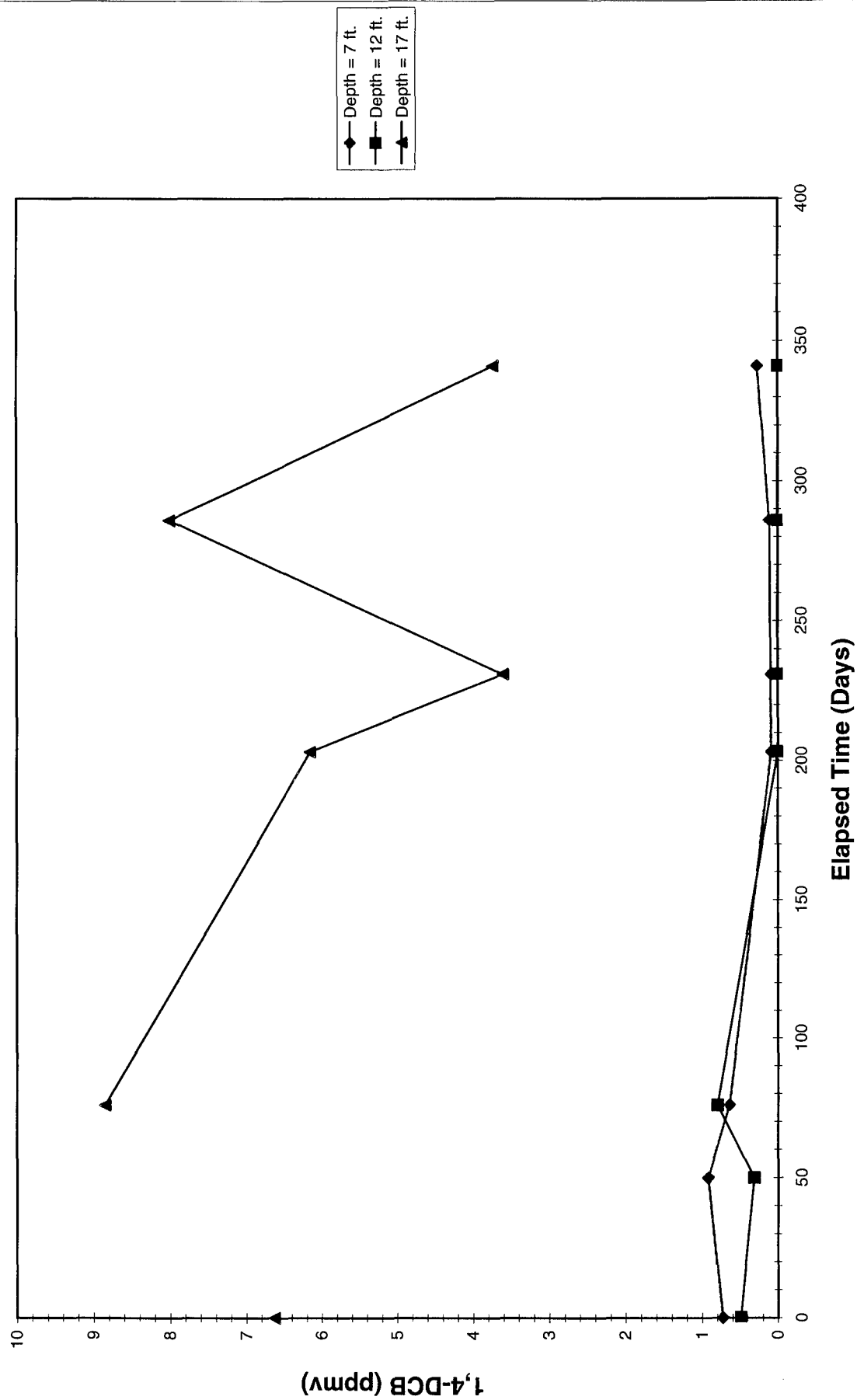
Soil Gas 1,2 DCB at MPA



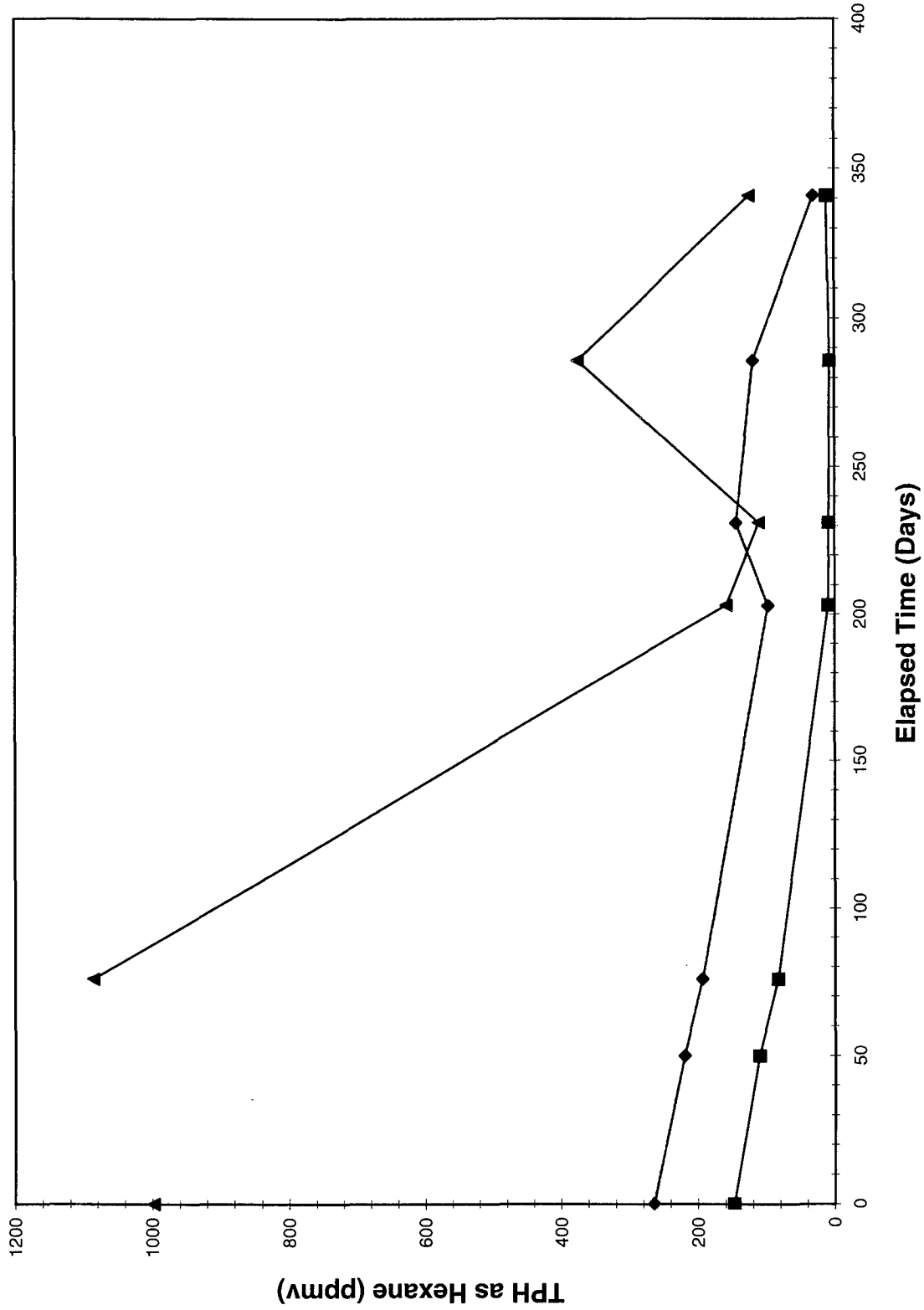
Soil-Gas 1,3 DCB at MPA



Soil Gas 1,4 DCB at MPA

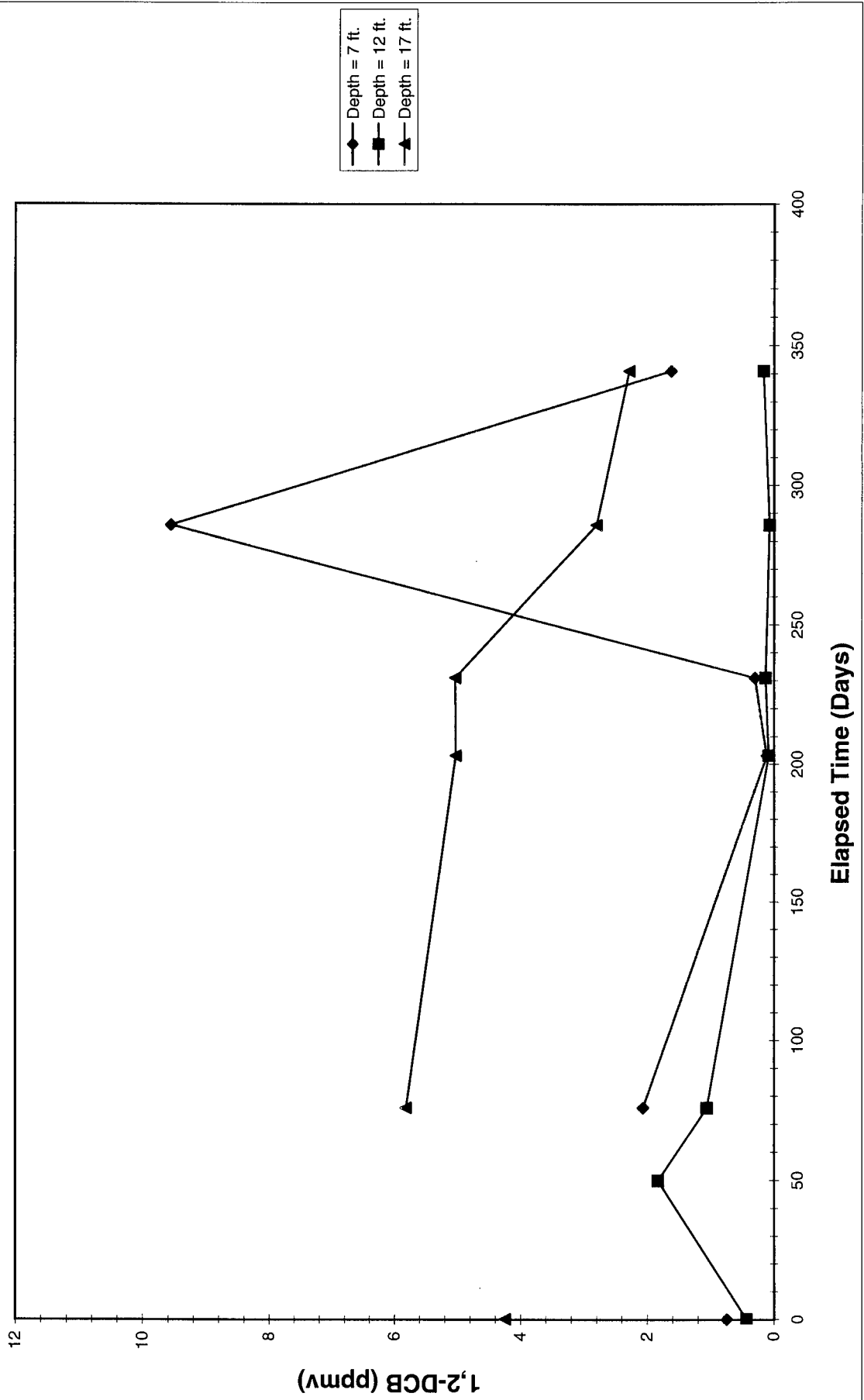


Soil Gas TPH as Hexane at MP A

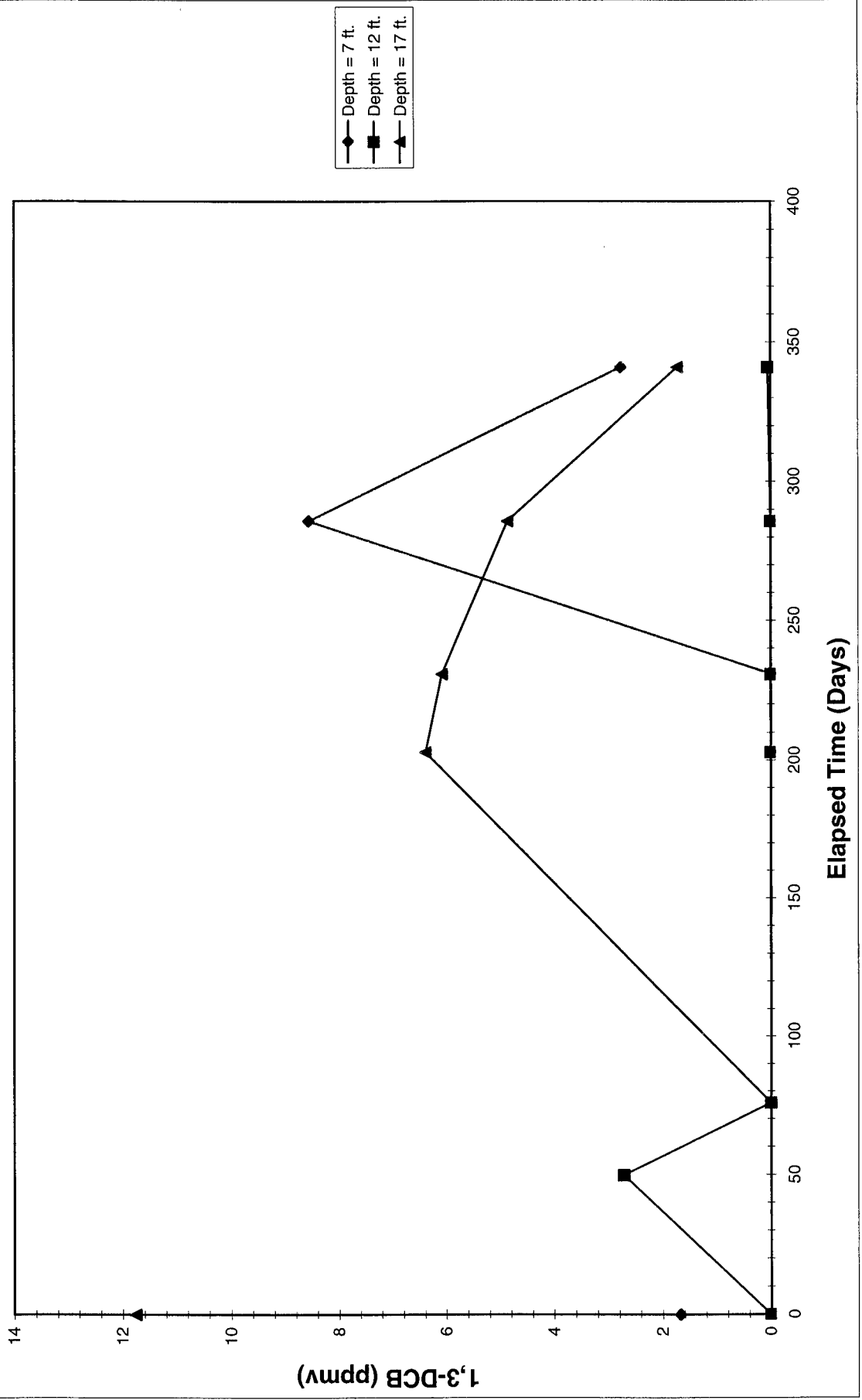


◆ Depth = 7 ft.
■ Depth = 12 ft.
▲ Depth = 17 ft.

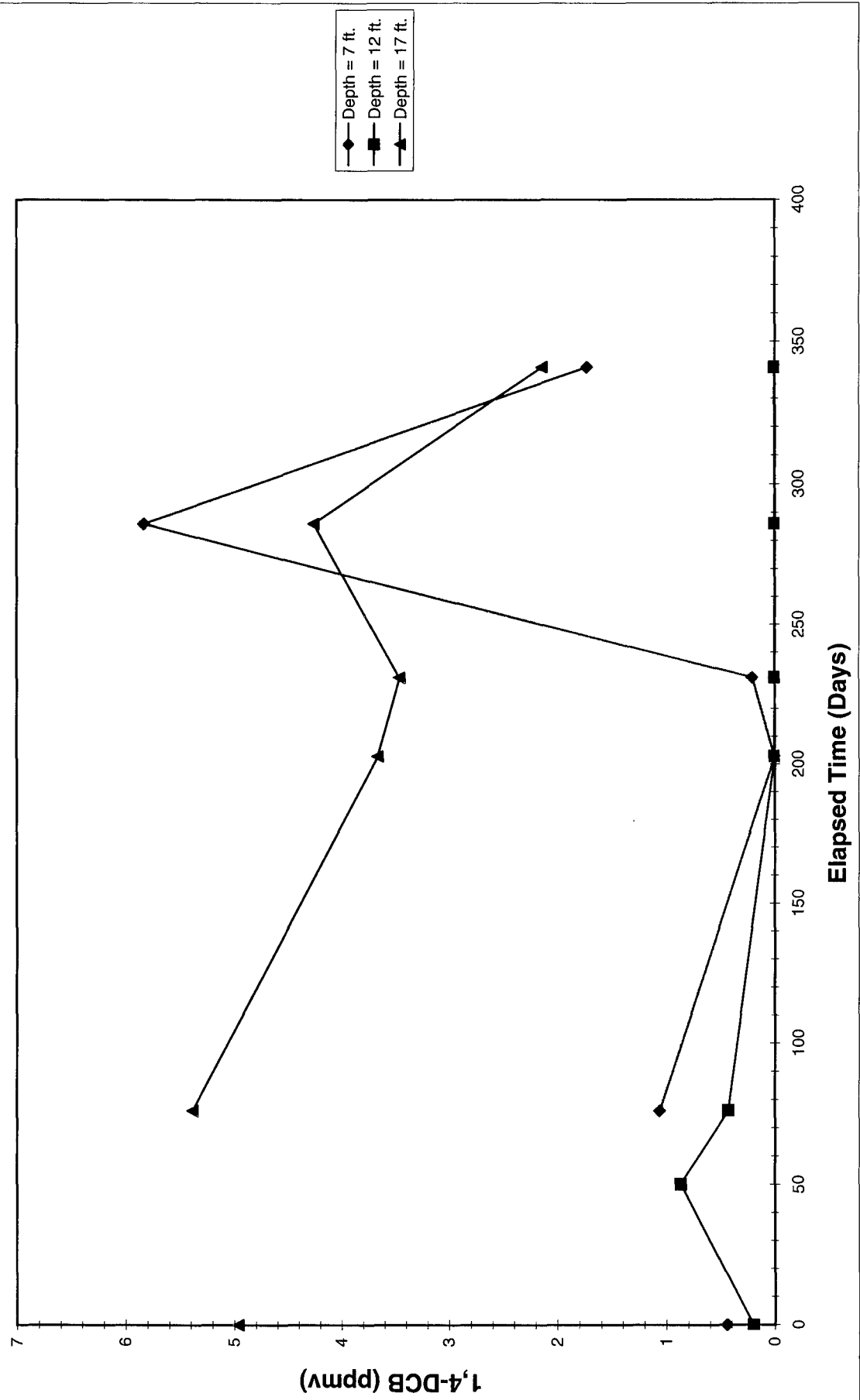
Soil Gas 1,2 DCB at MPB



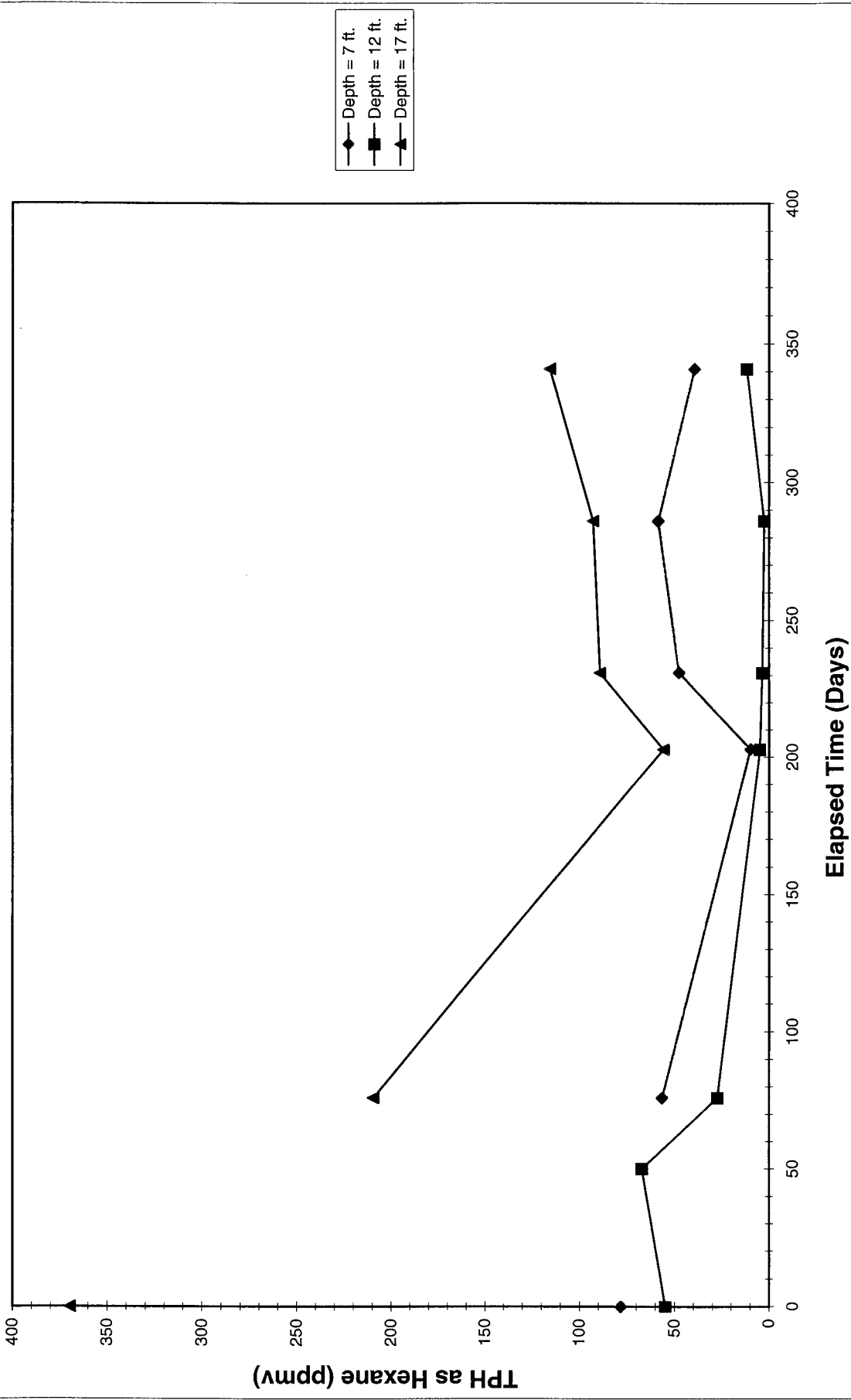
Soil Gas 1,3 DCB at MPB



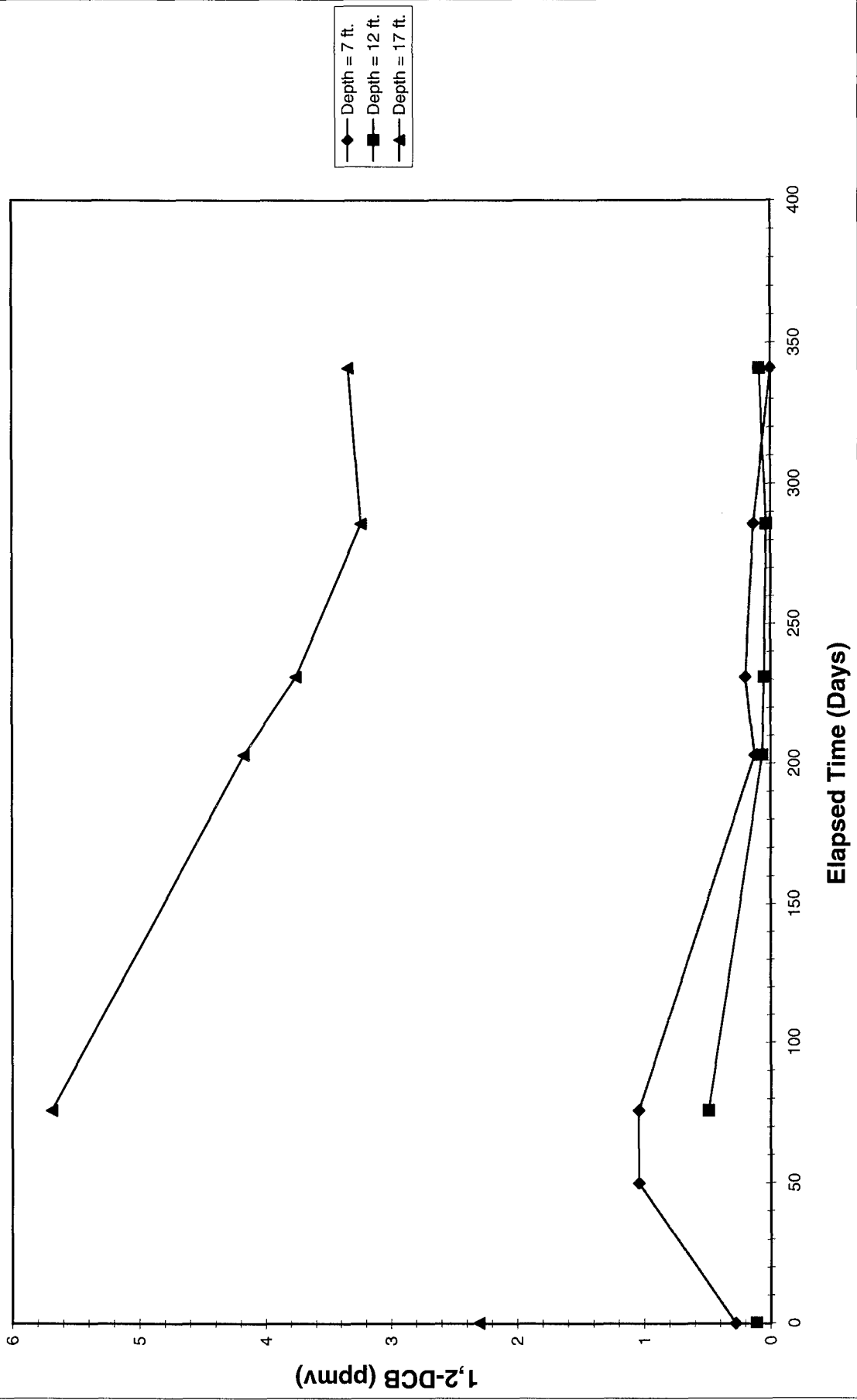
Soil Gas 1,4 DCB at MPB



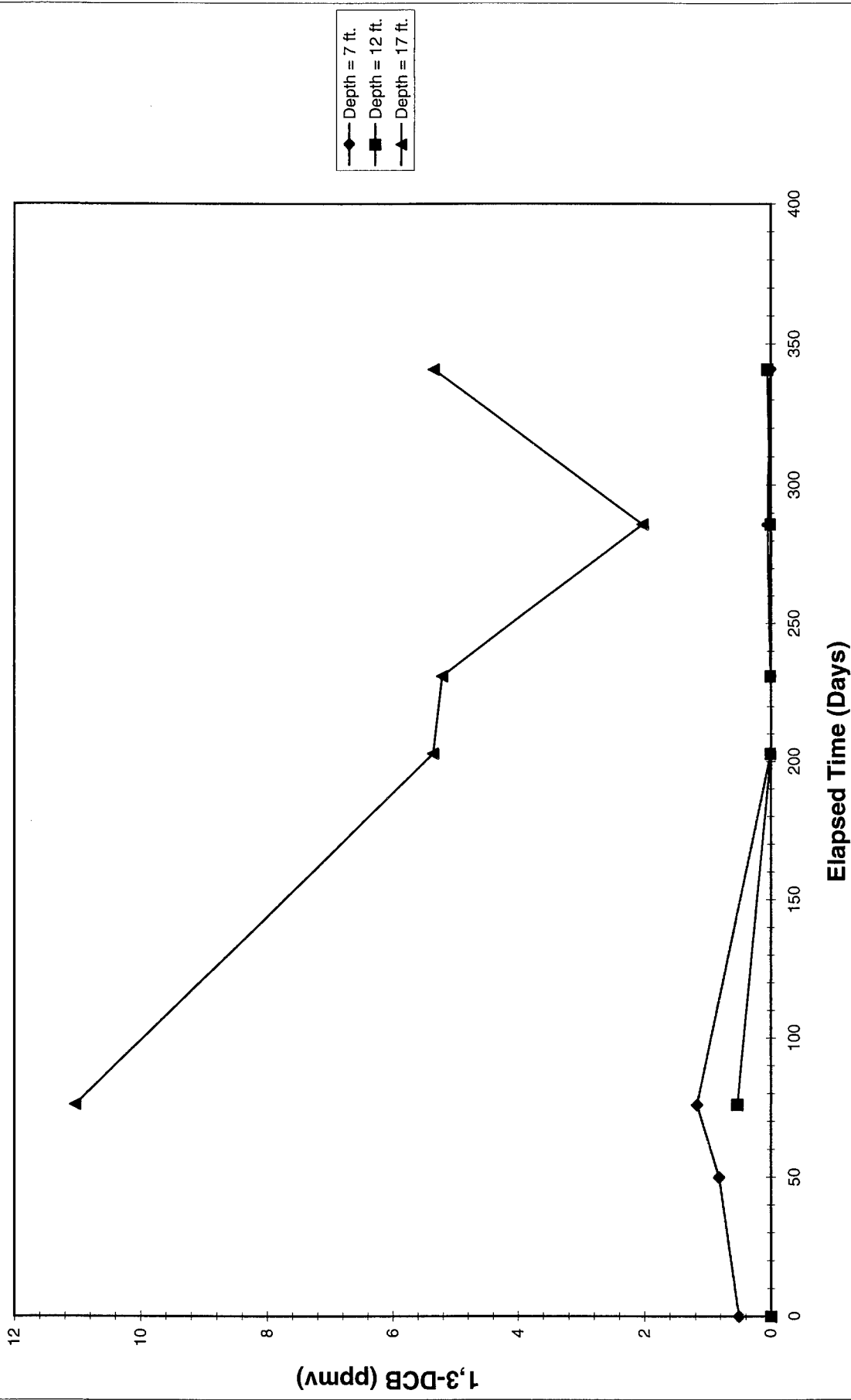
Soil Gas TPH as Hexane at MPB



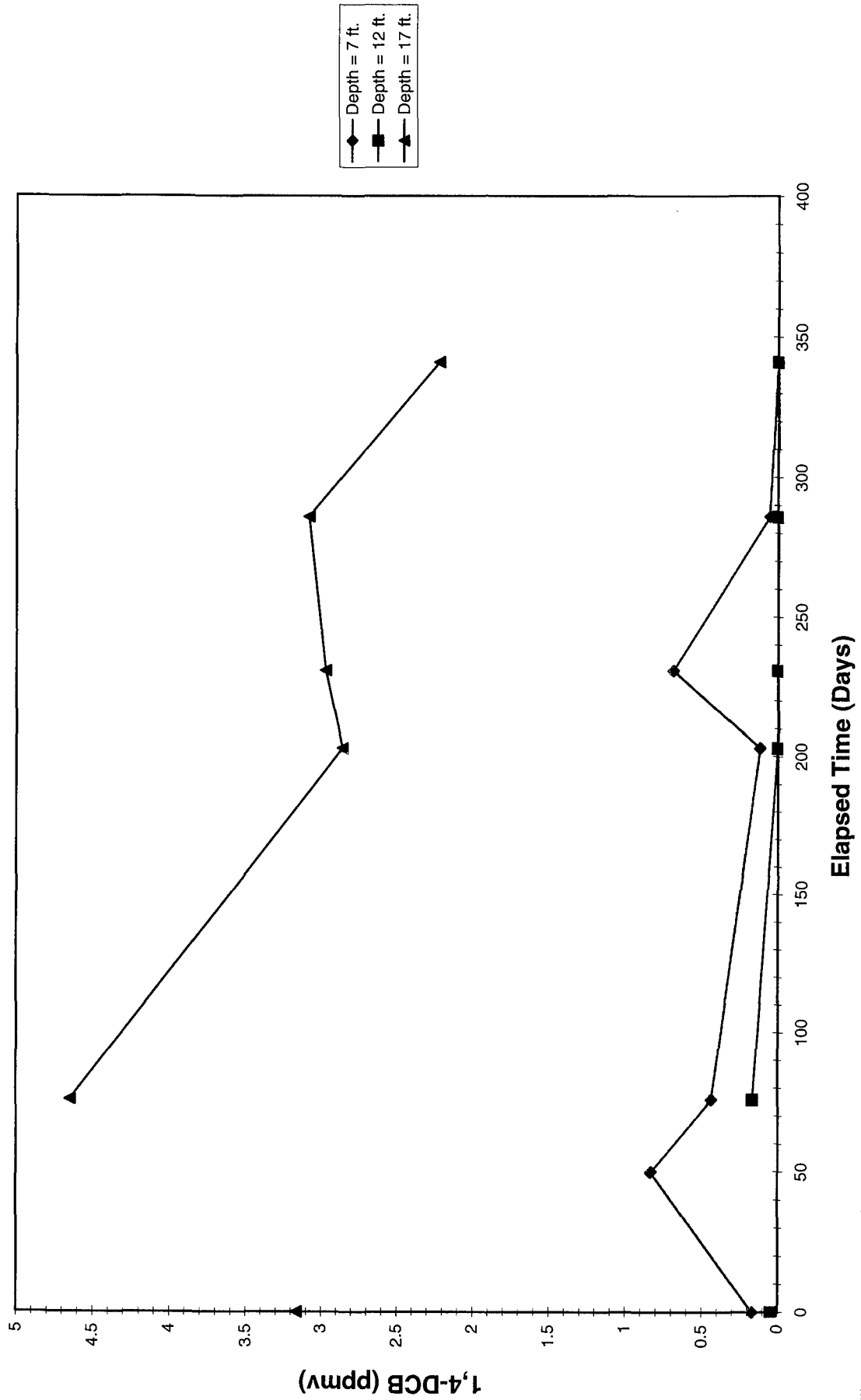
Soil Gas 1,2 DCB at MPC



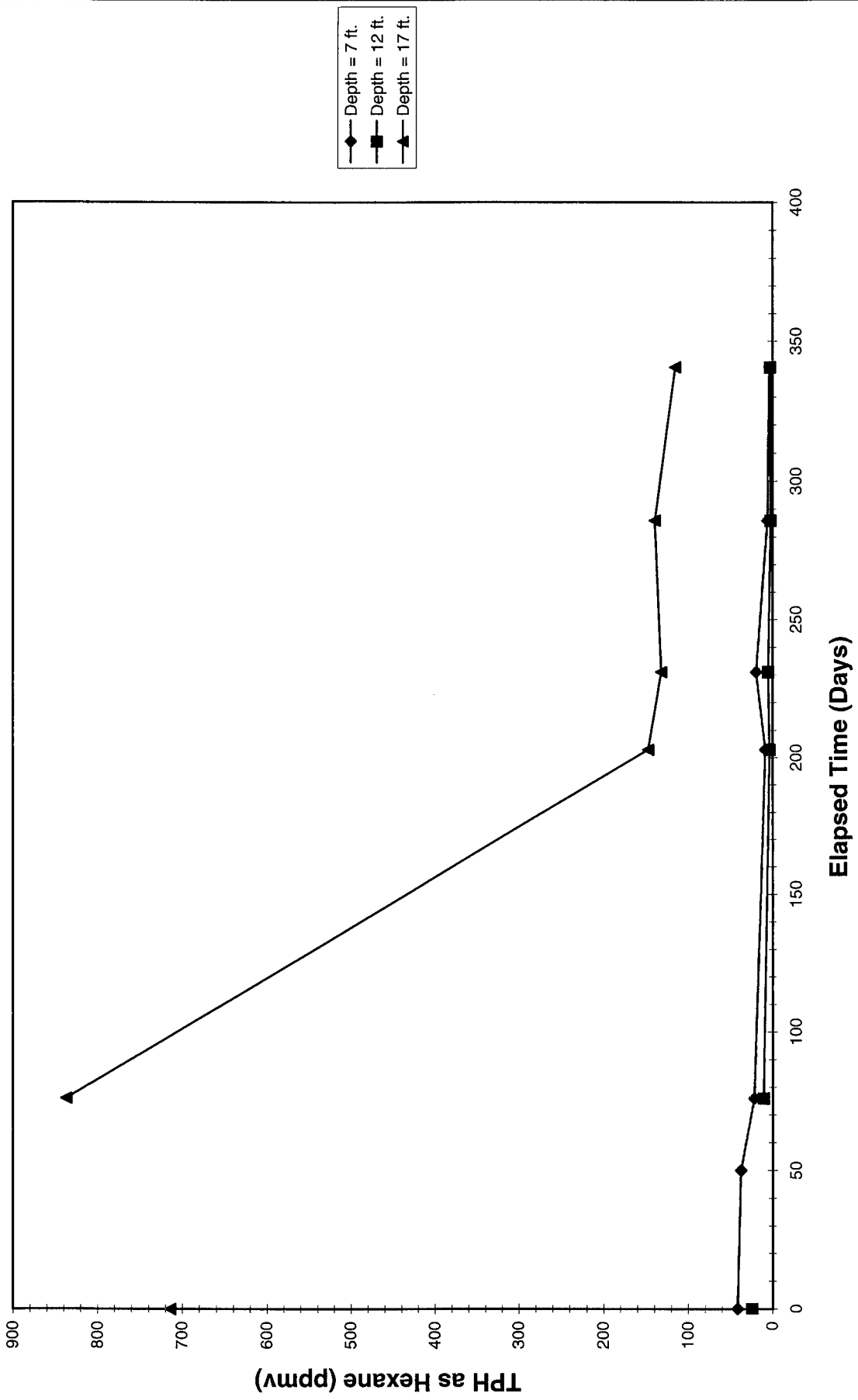
Soil Gas 1,3 DCB at MPC



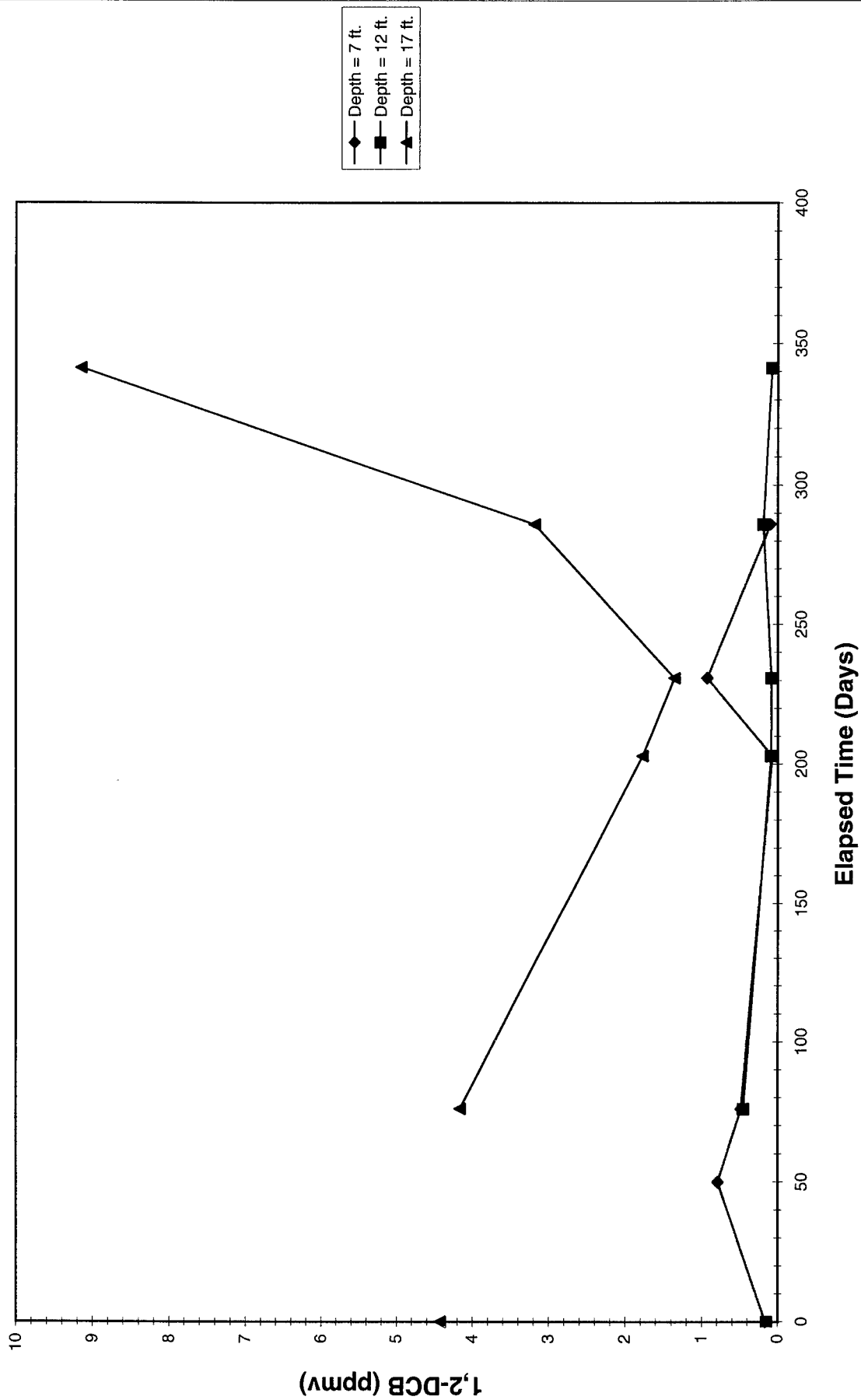
Soil Gas 1,4 DCB at MPC



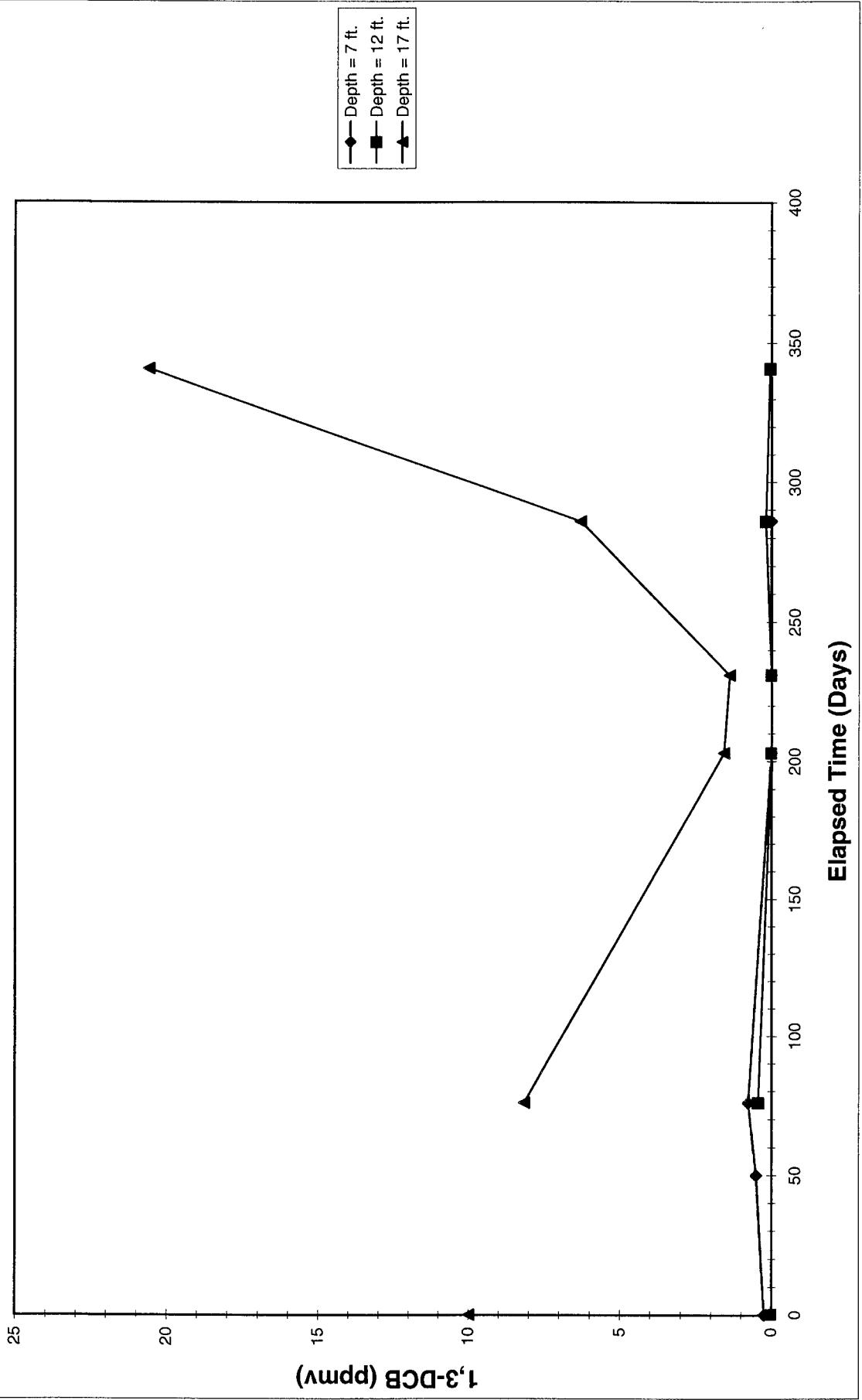
Soil Gas TPH as Hexane at MPC



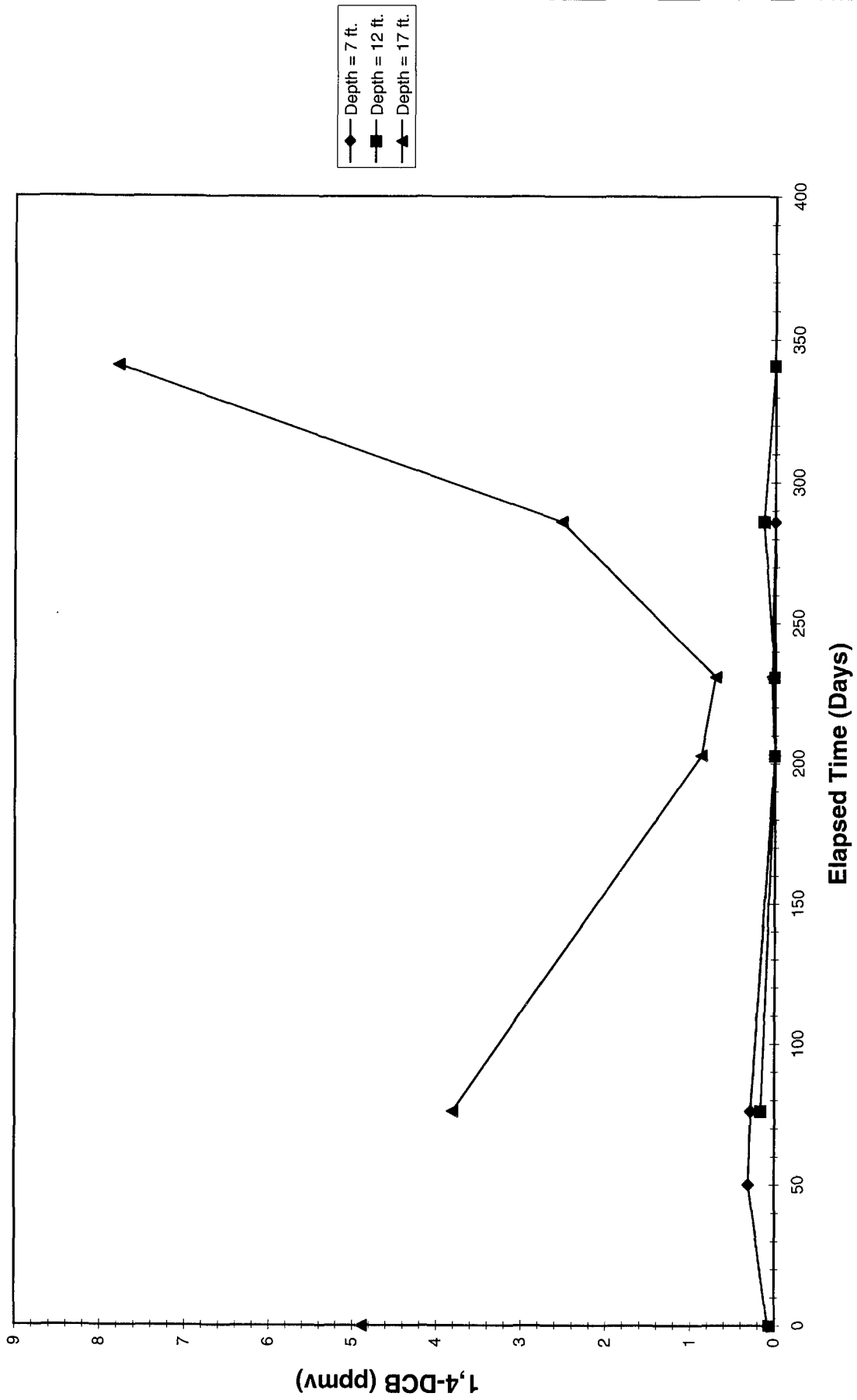
Soil Gas 1,2 DCB at MPD



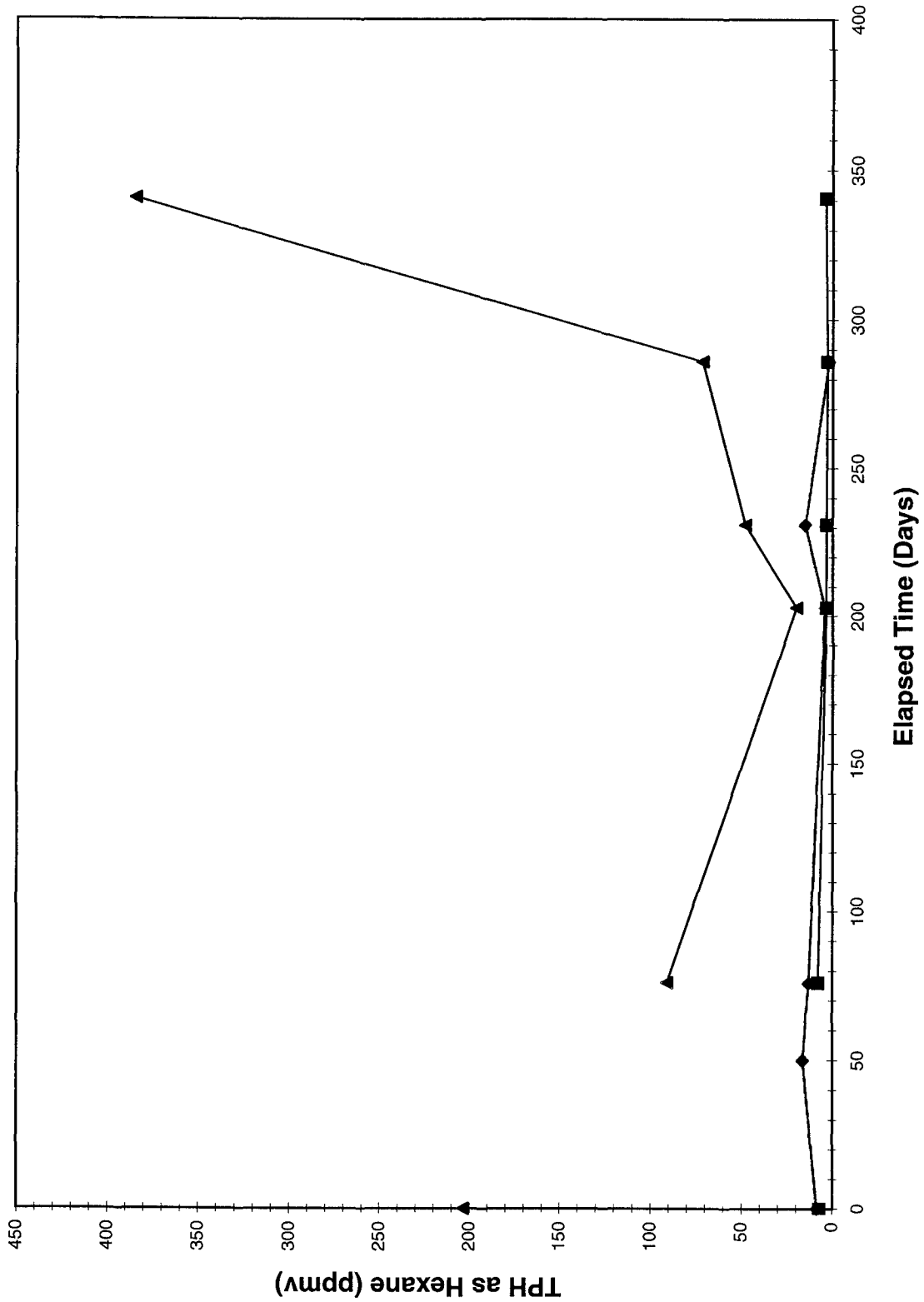
Soil Gas 1,3 DCB at MPD



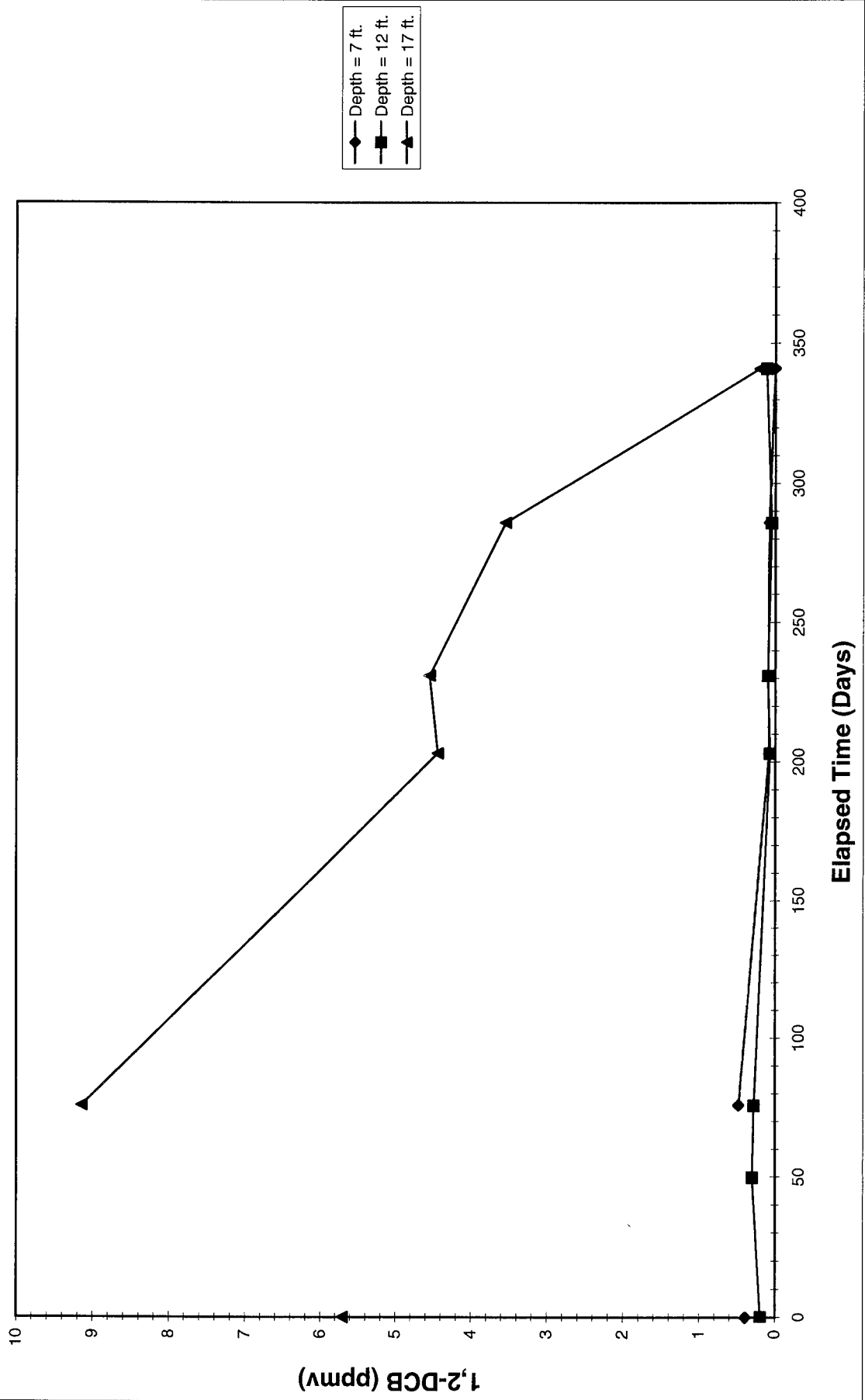
Soil Gas 1,4 DCB at MPD



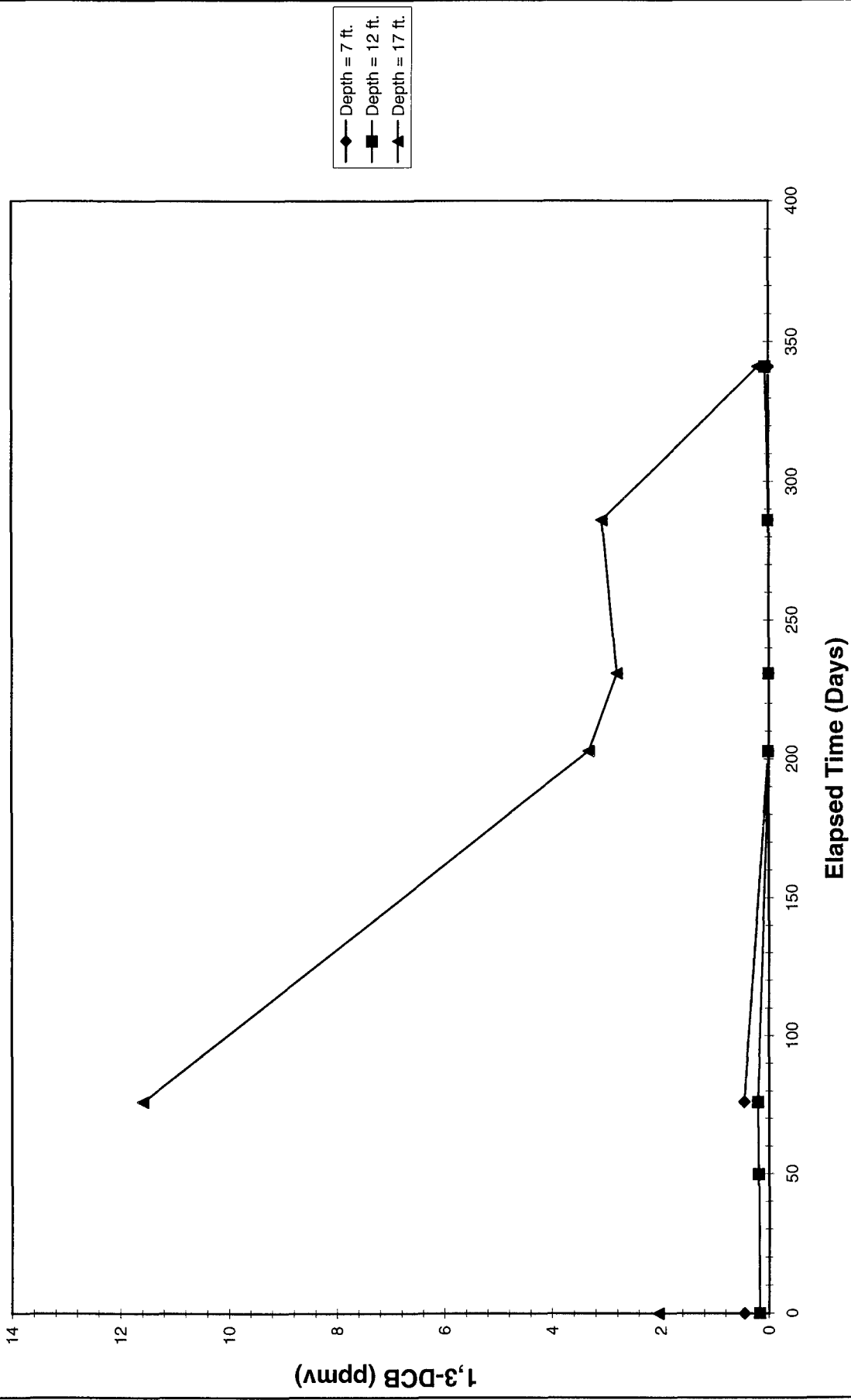
Soil Gas TPH as Hexane at MPD



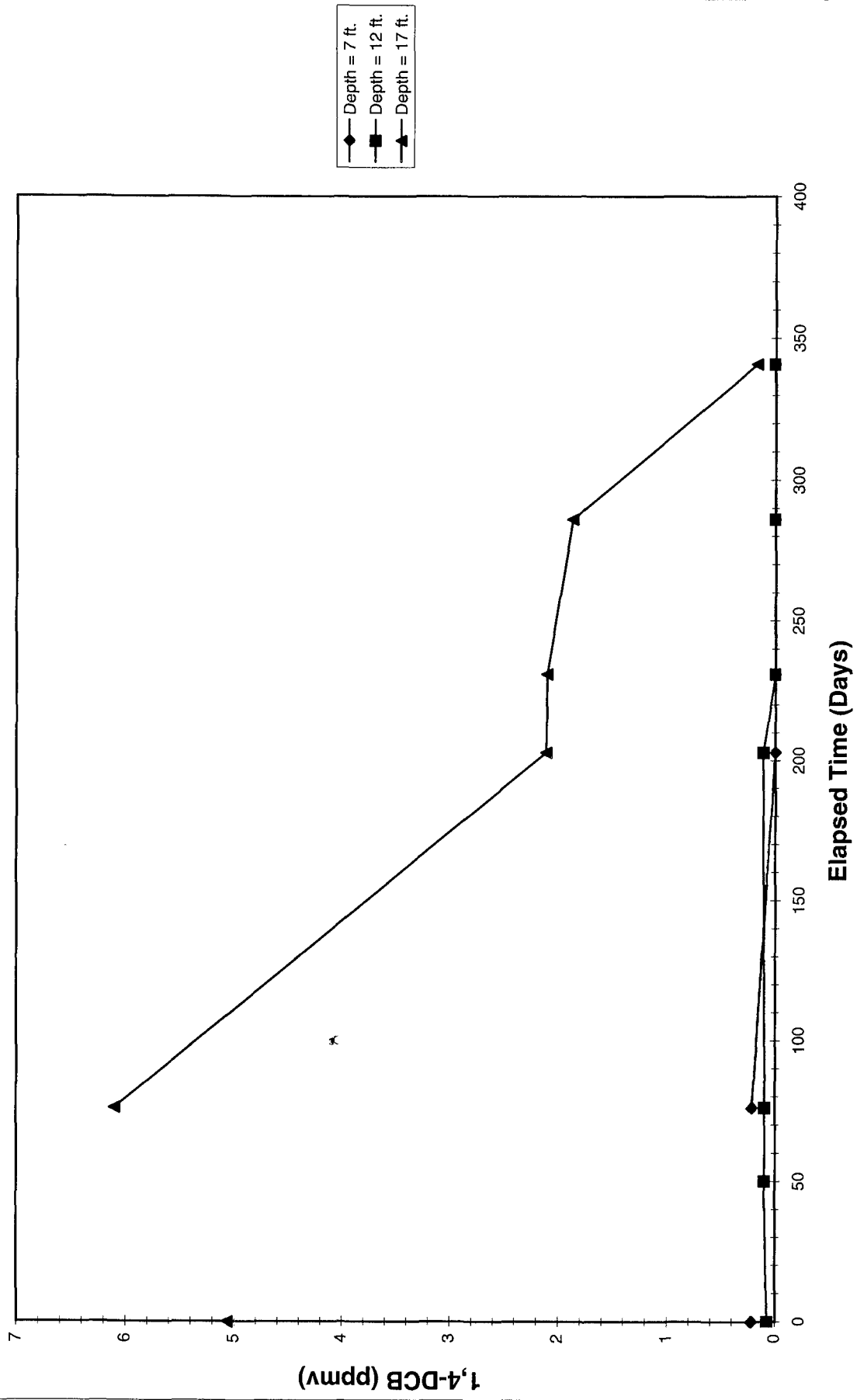
Soil Gas 1,2 DCB at MPE



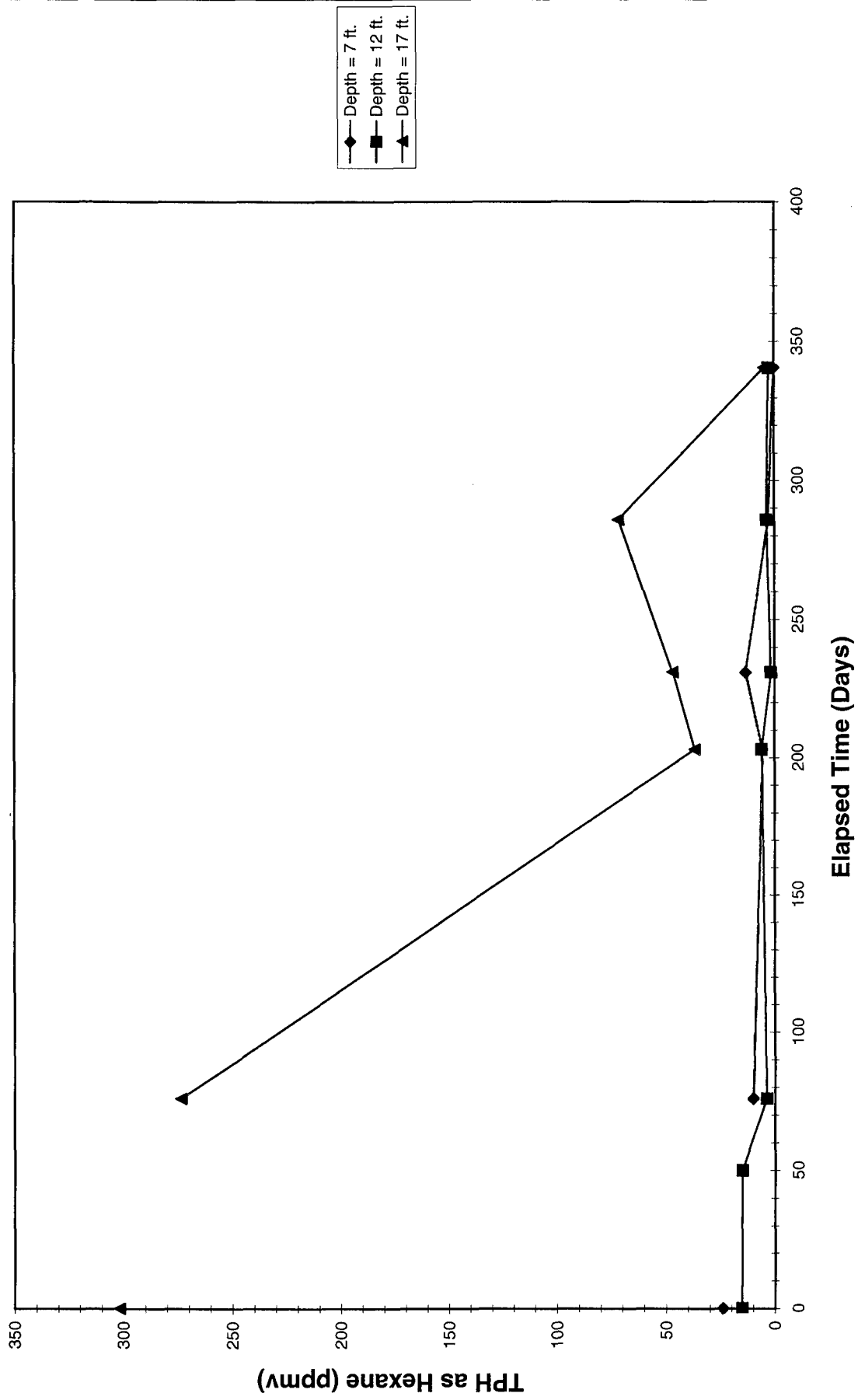
Soil Gas 1,3 DCB at MPE



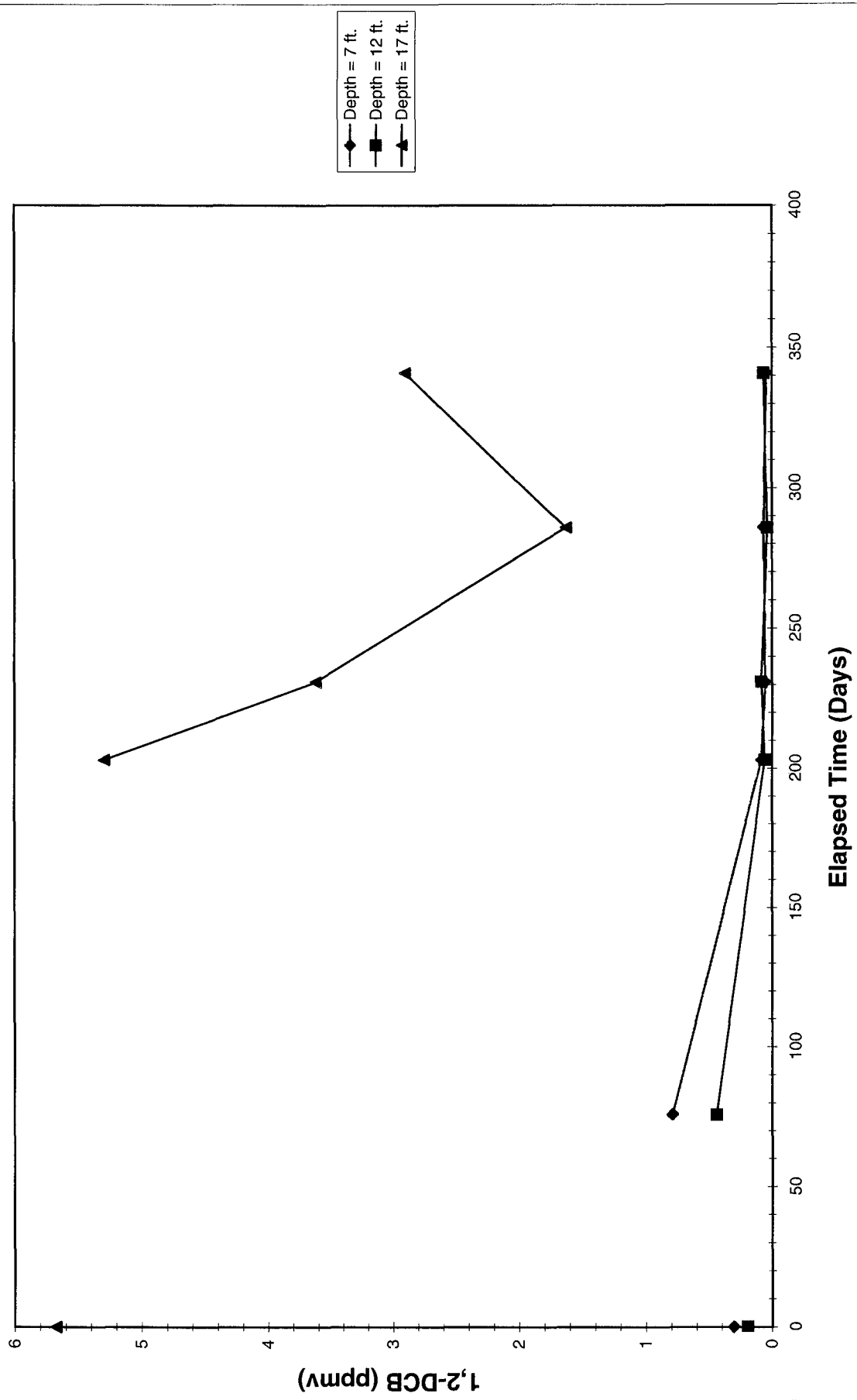
Soil Gas 1,4 DCB at MPE



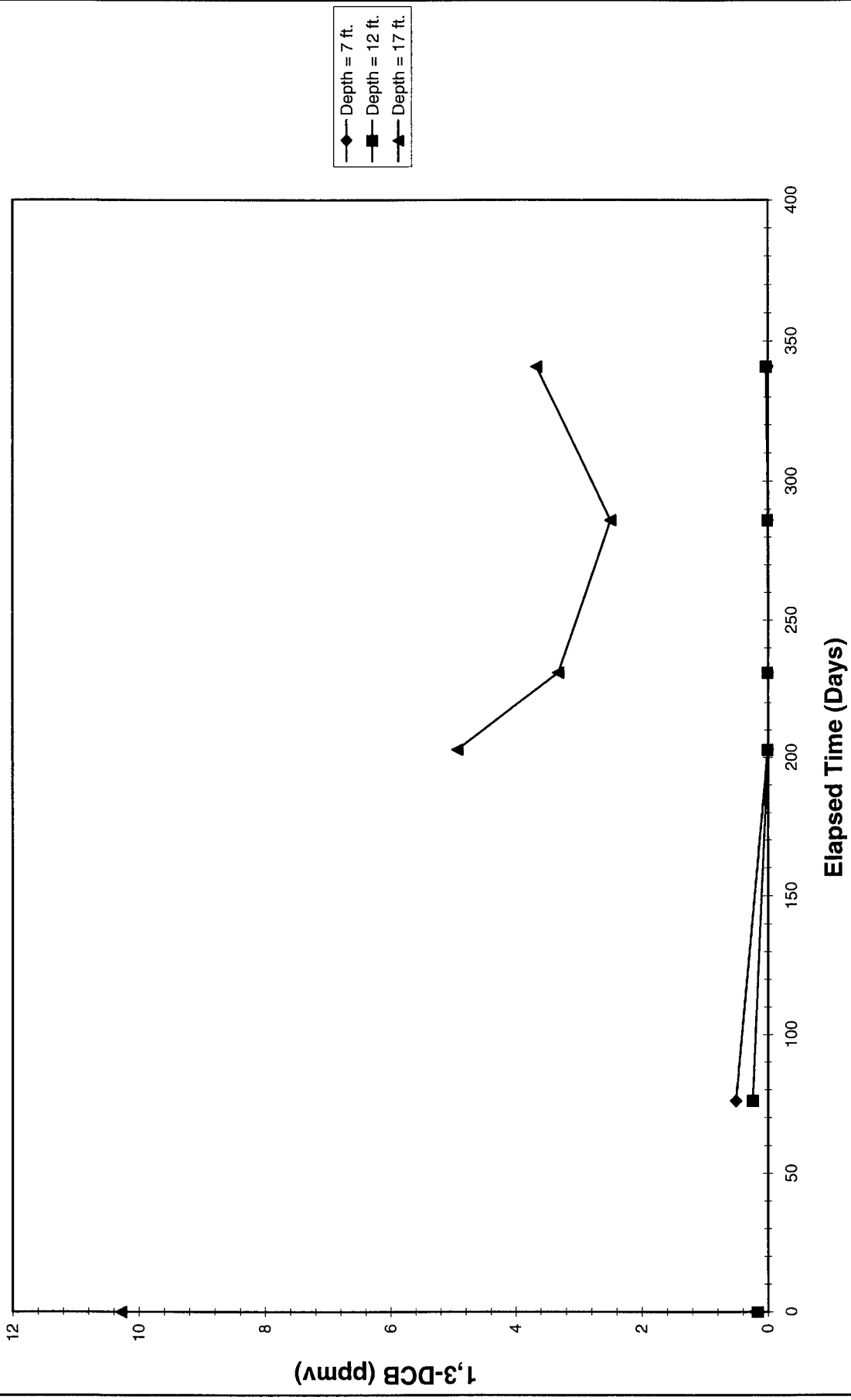
Soil Gas TPH as Hexane at MPE



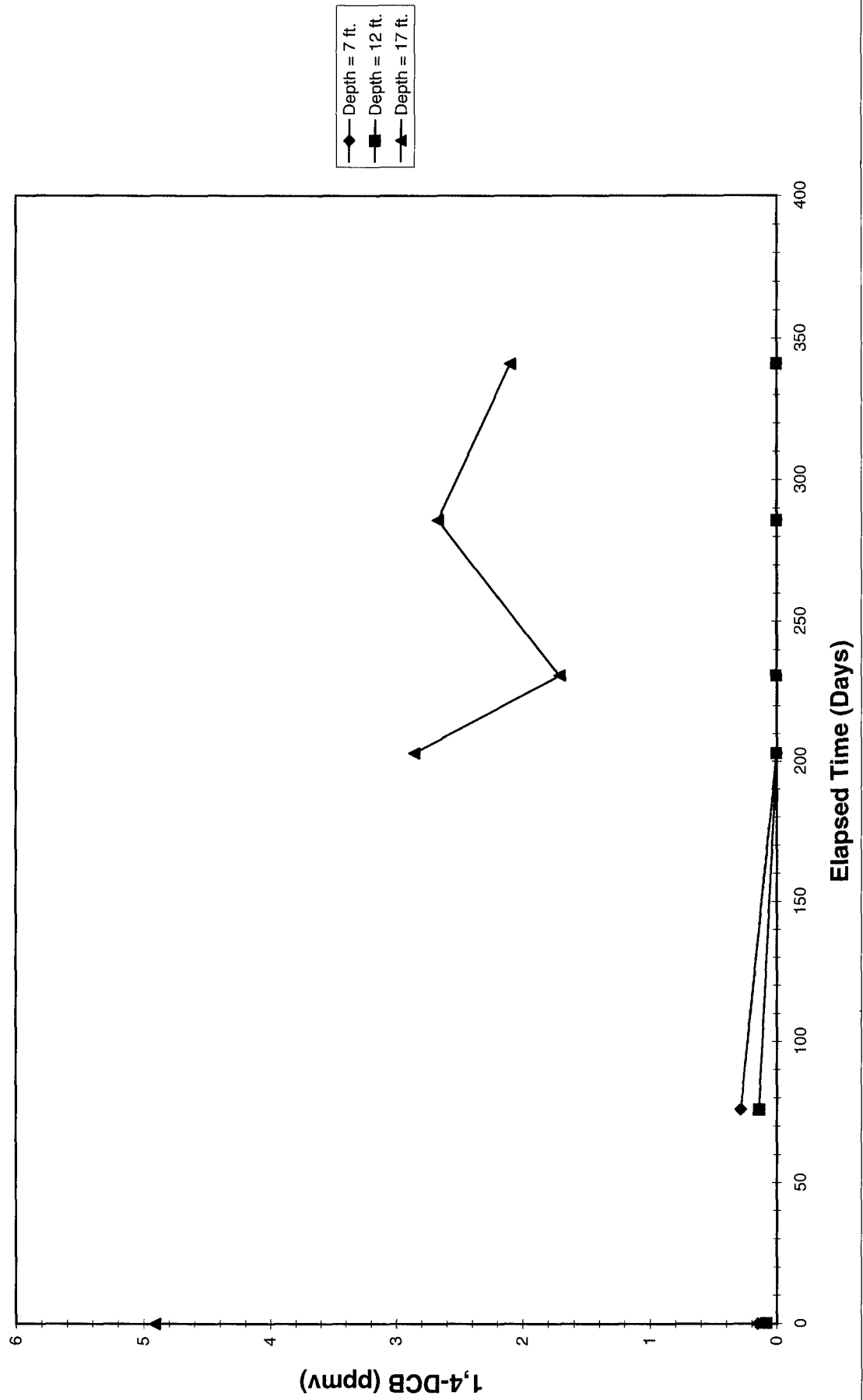
Soil Gas 1,2 DCB at MPF



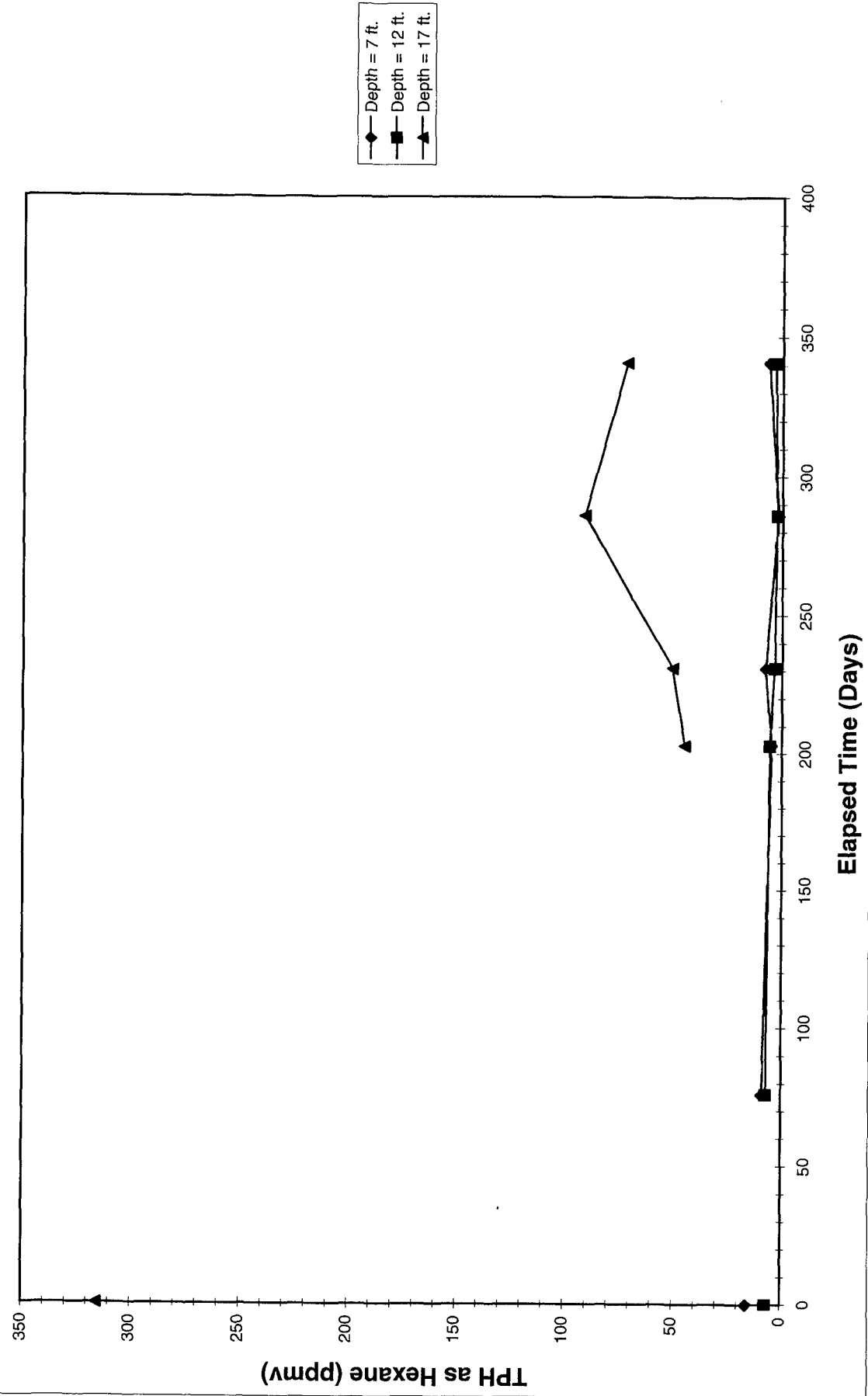
Soil Gas 1,3 DCB at MPF



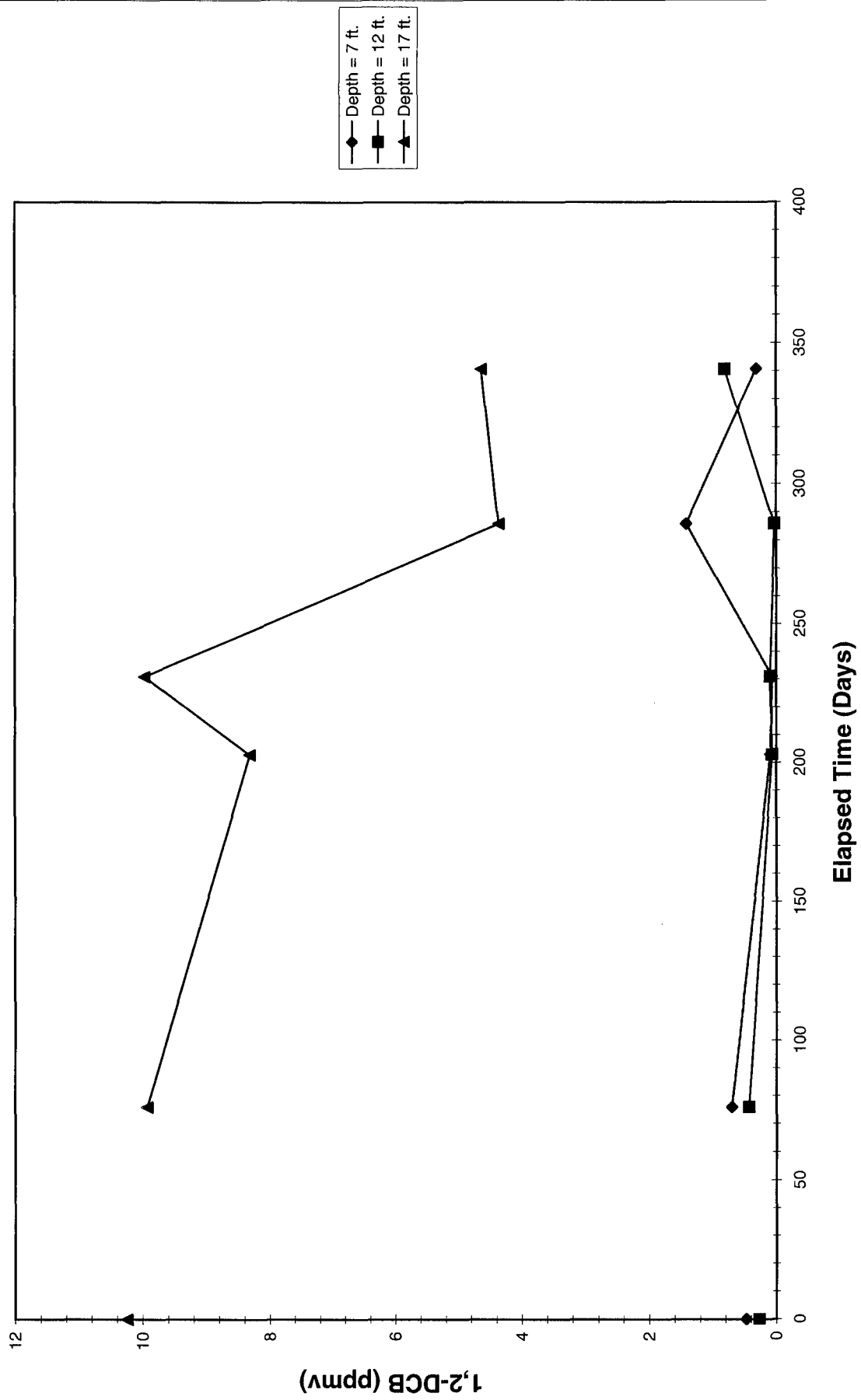
Soil Gas 1,4 DCB at MPF



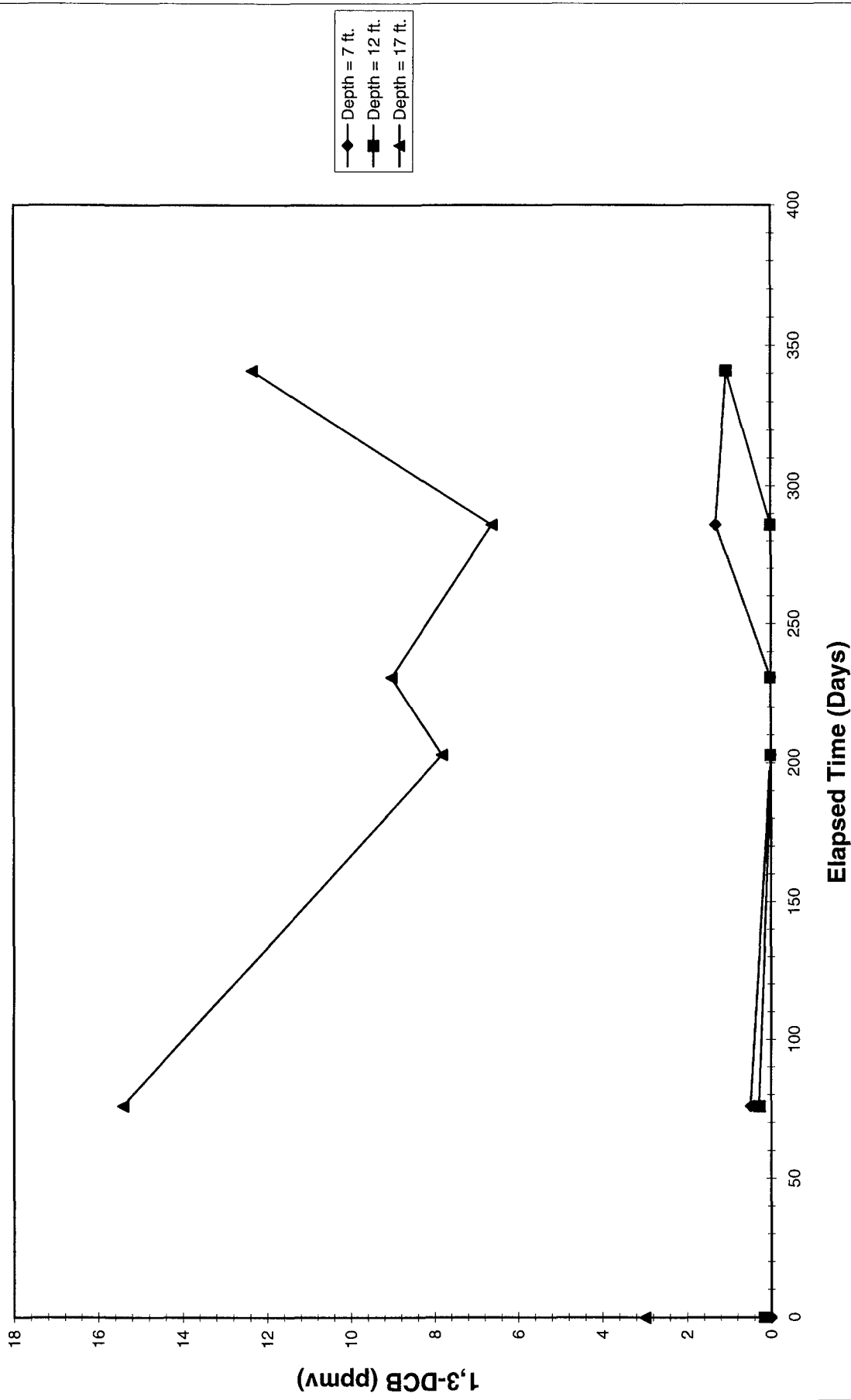
Soil Gas TPH as Hexane at MPF



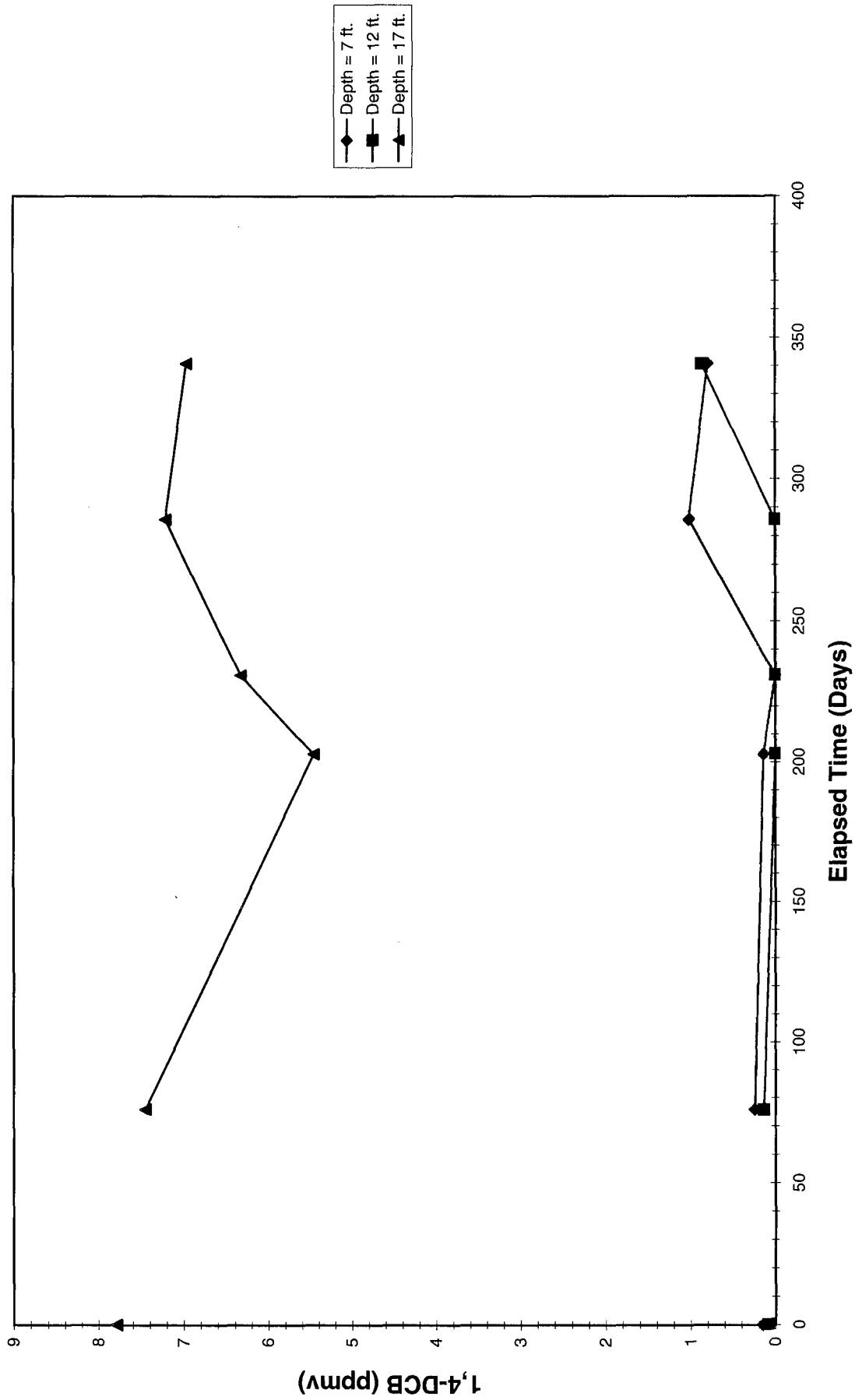
Soil Gas 1,2 DCB at MPG



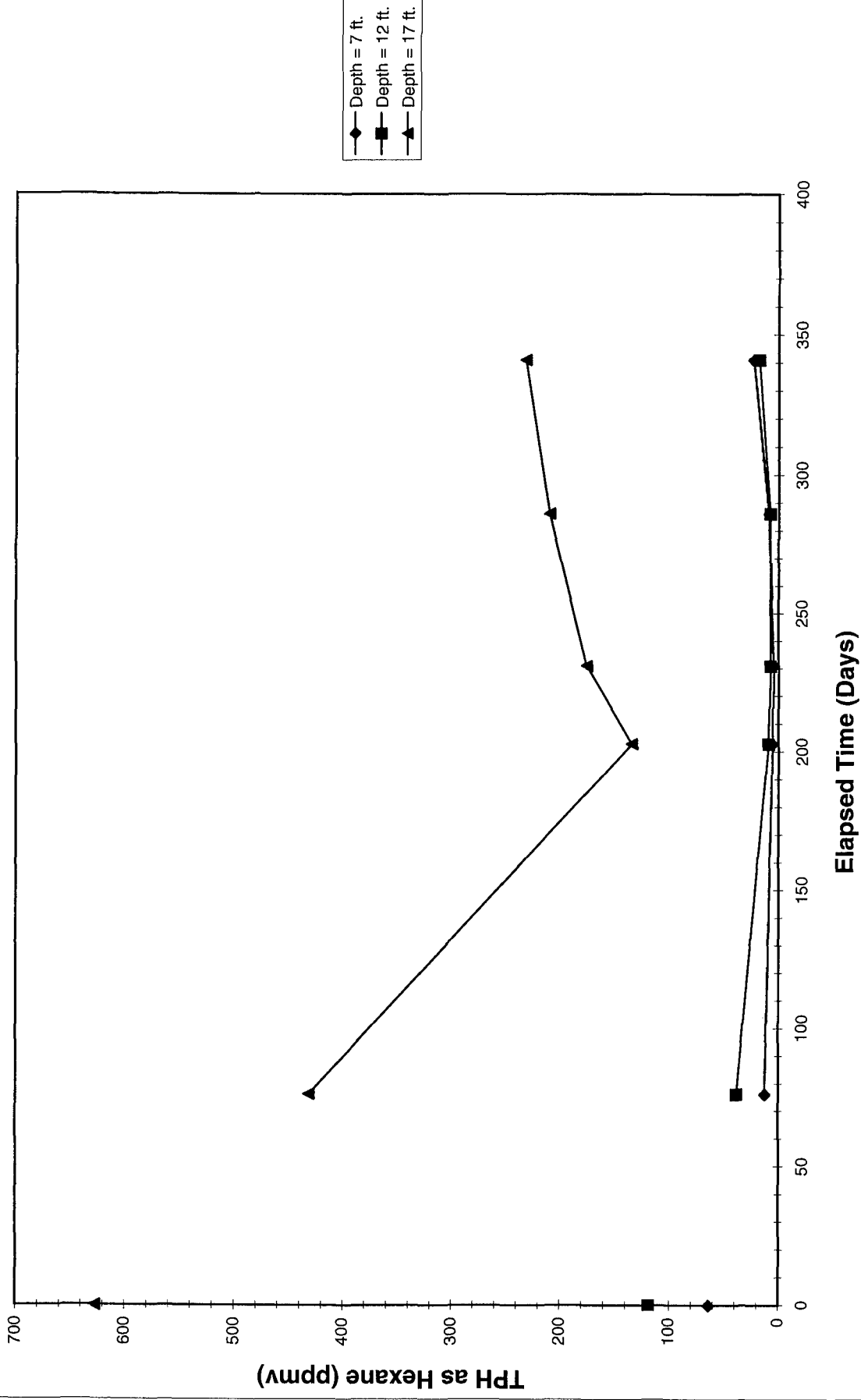
Soil Gas 1,3 DCB at MPG



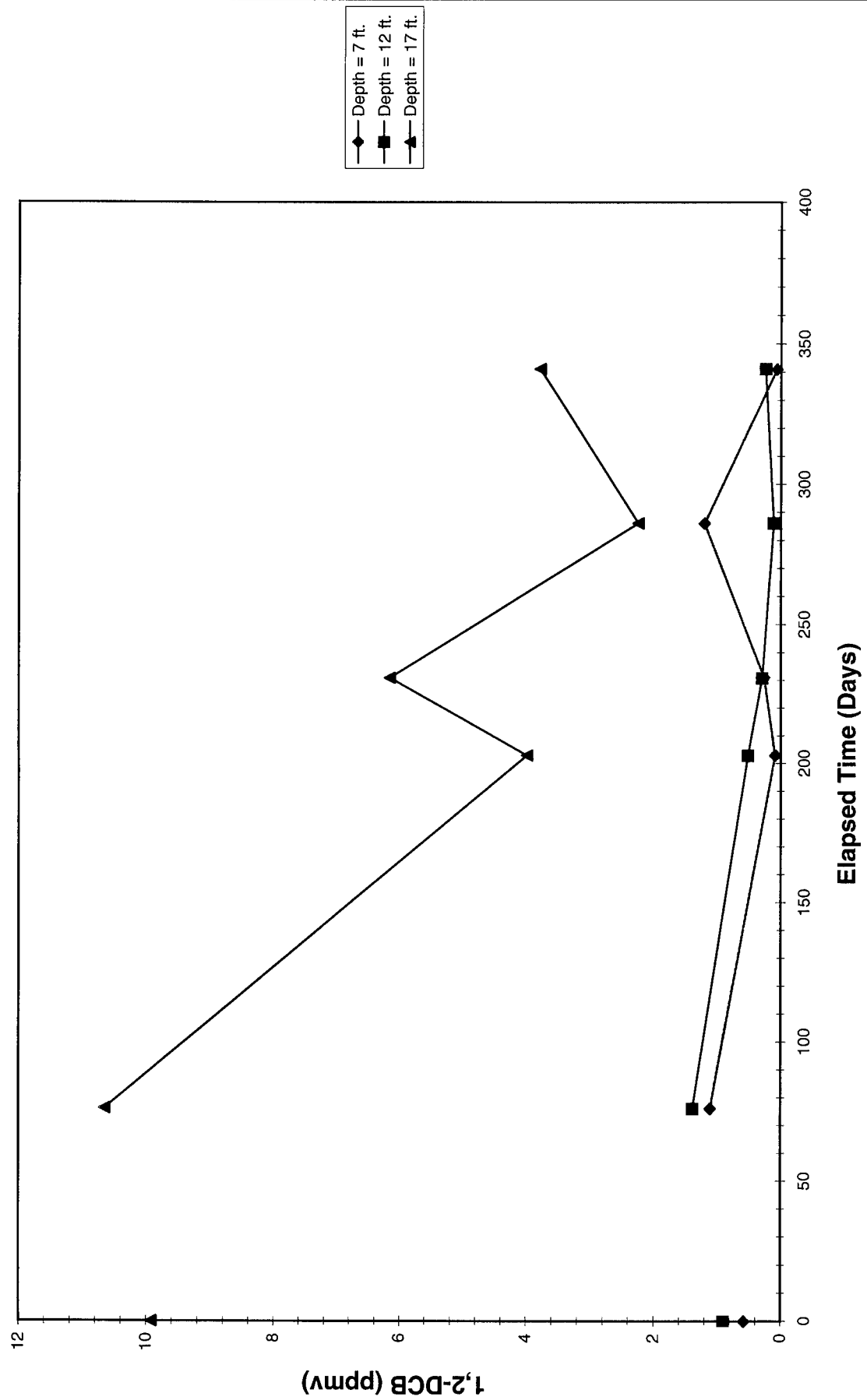
Soil Gas 1,4 DCB at MPG



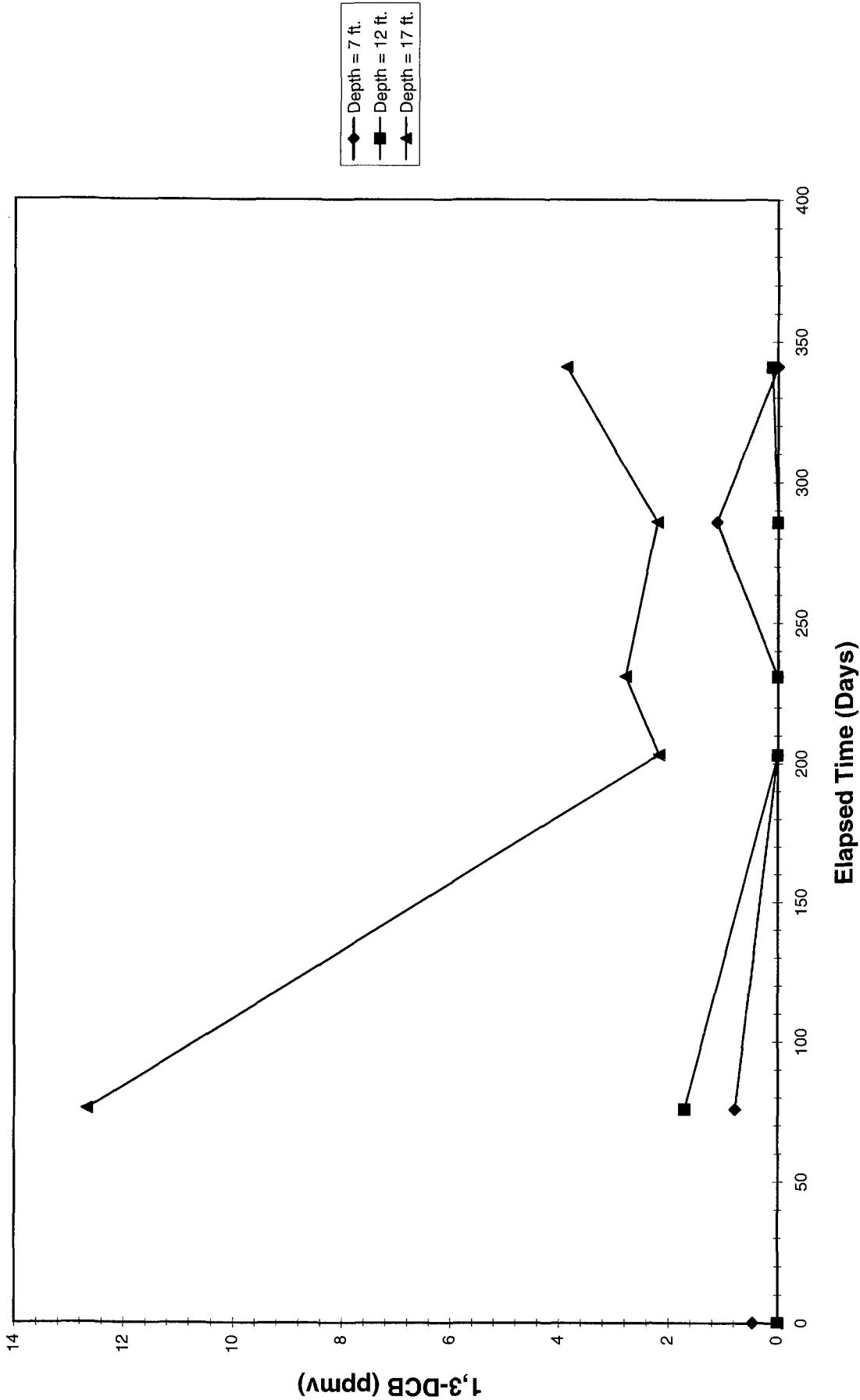
Soil Gas TPH as Hexane at MPG



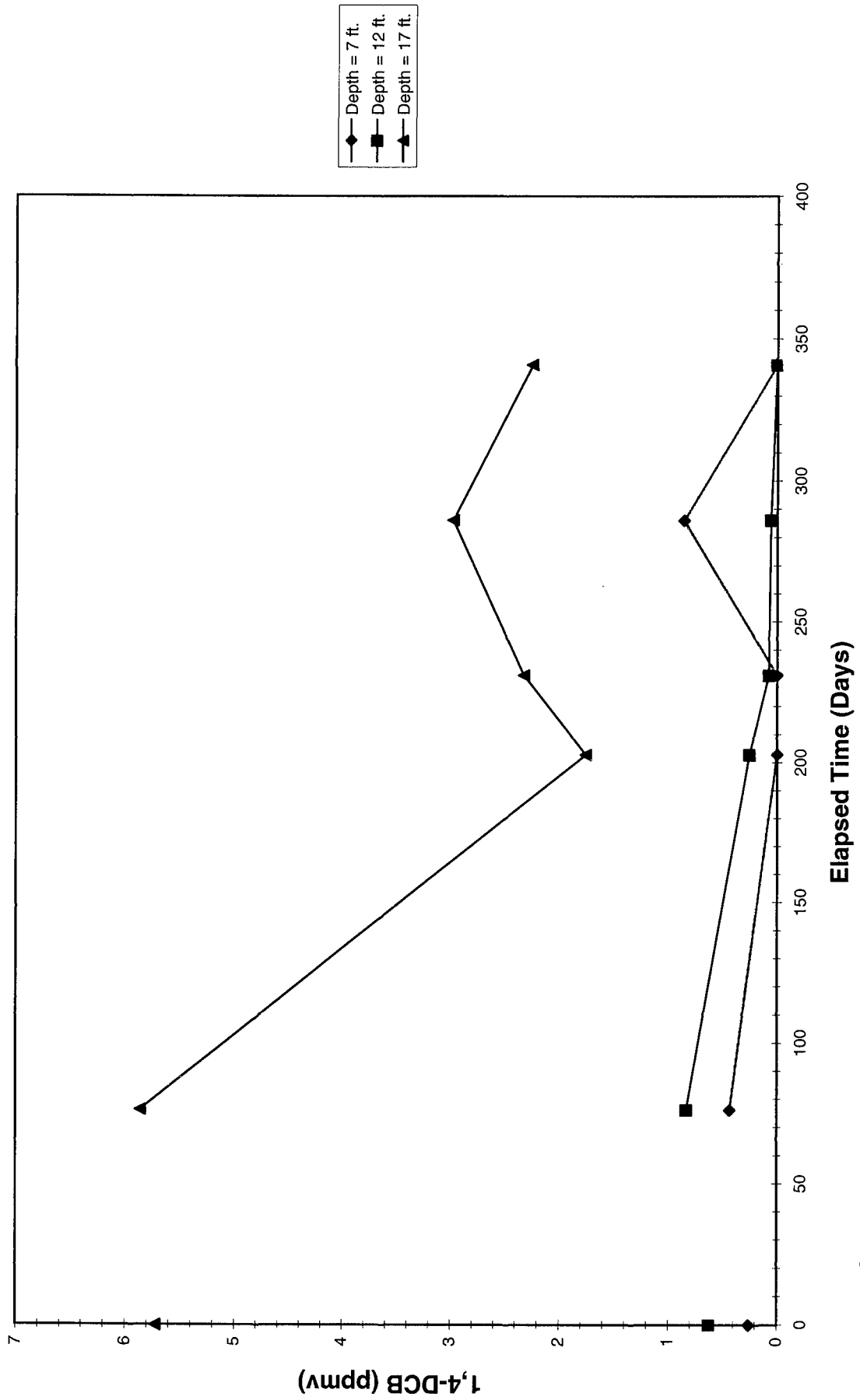
Soil Gas 1,2 DCB at MPH



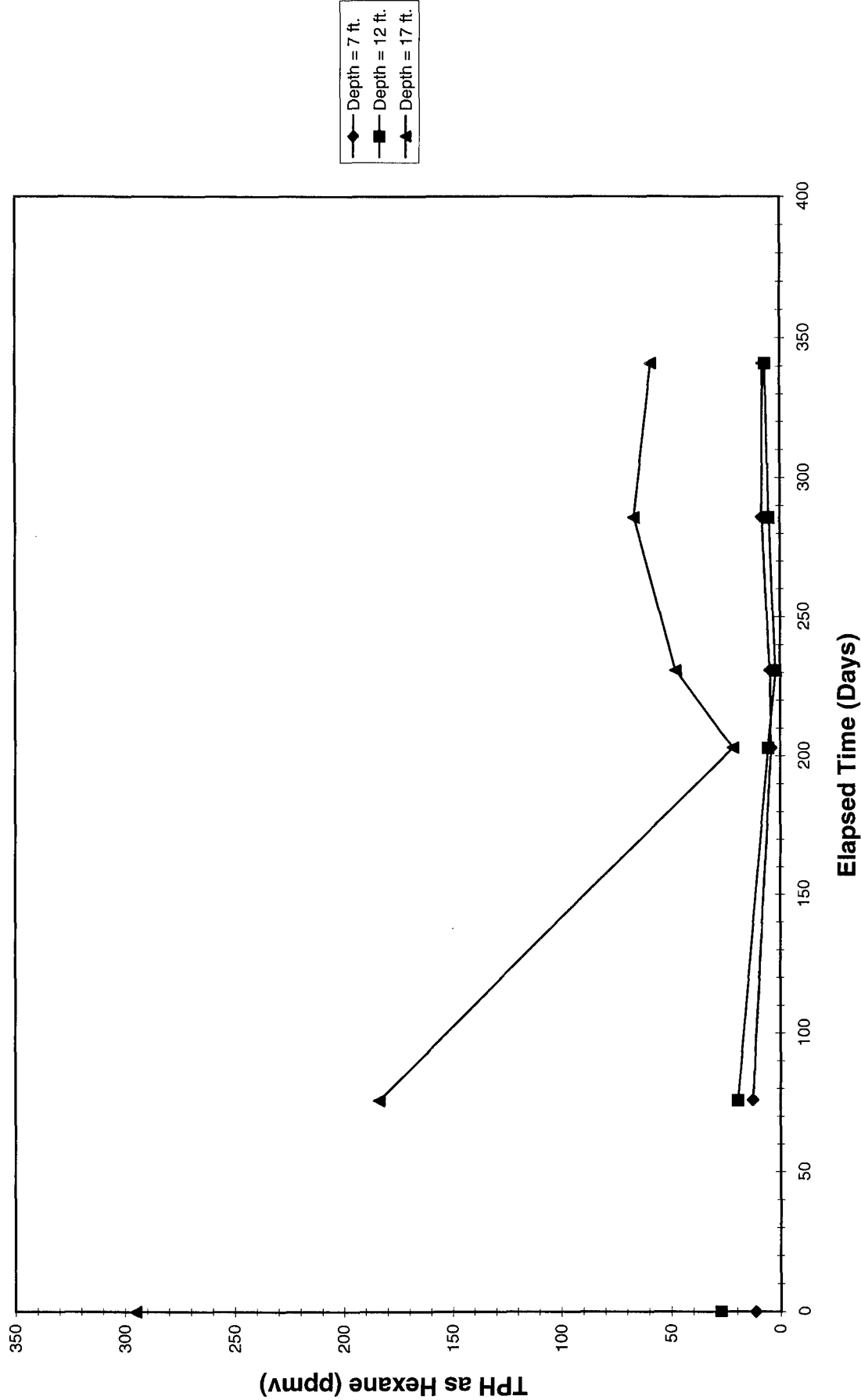
Soil Gas 1,3 DCB at MPH



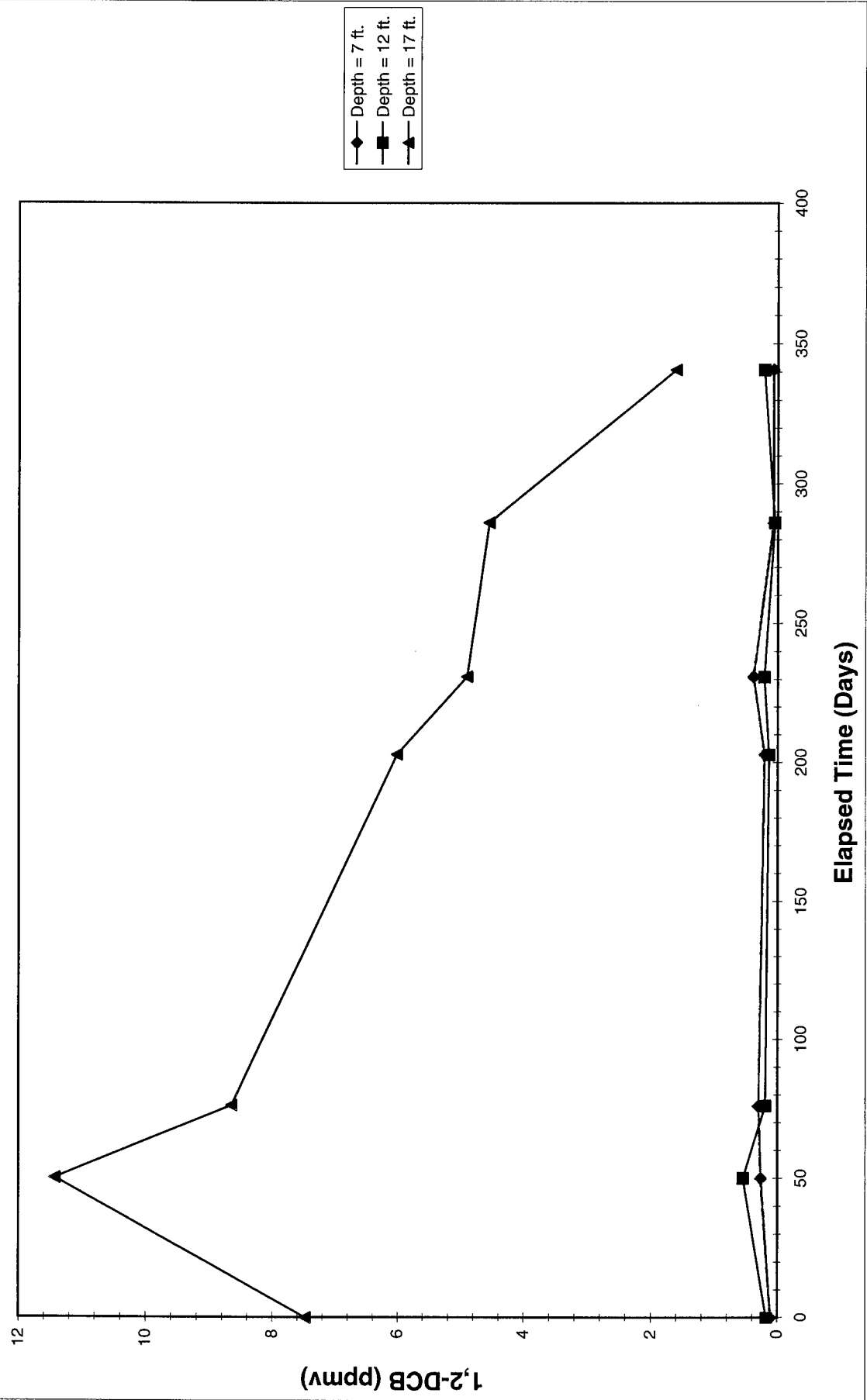
Soil Gas 1,4 DCB at MPH



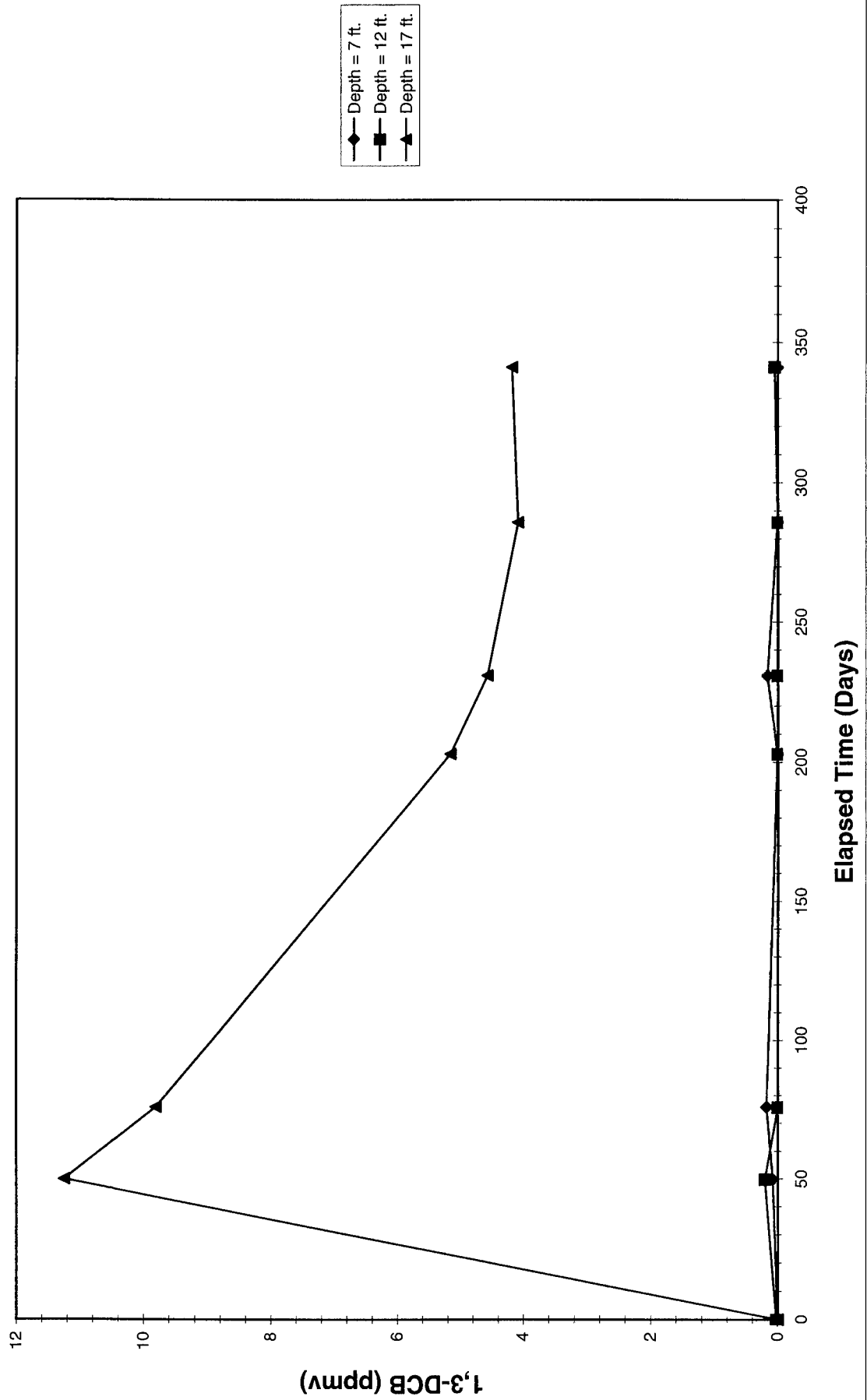
Soil Gas TPH as Hexane at MPH



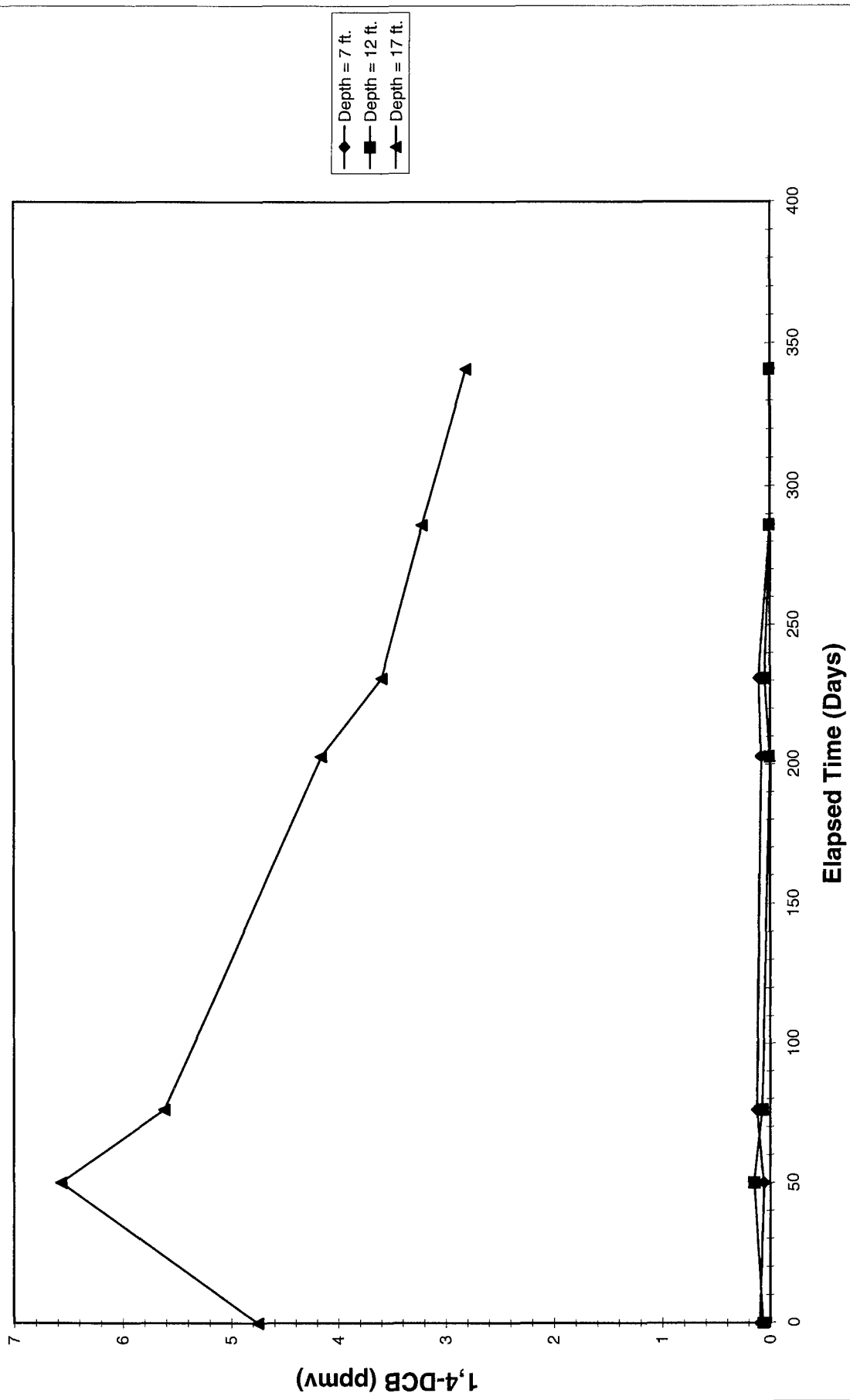
Soil Gas 1,2 DCB at MPW



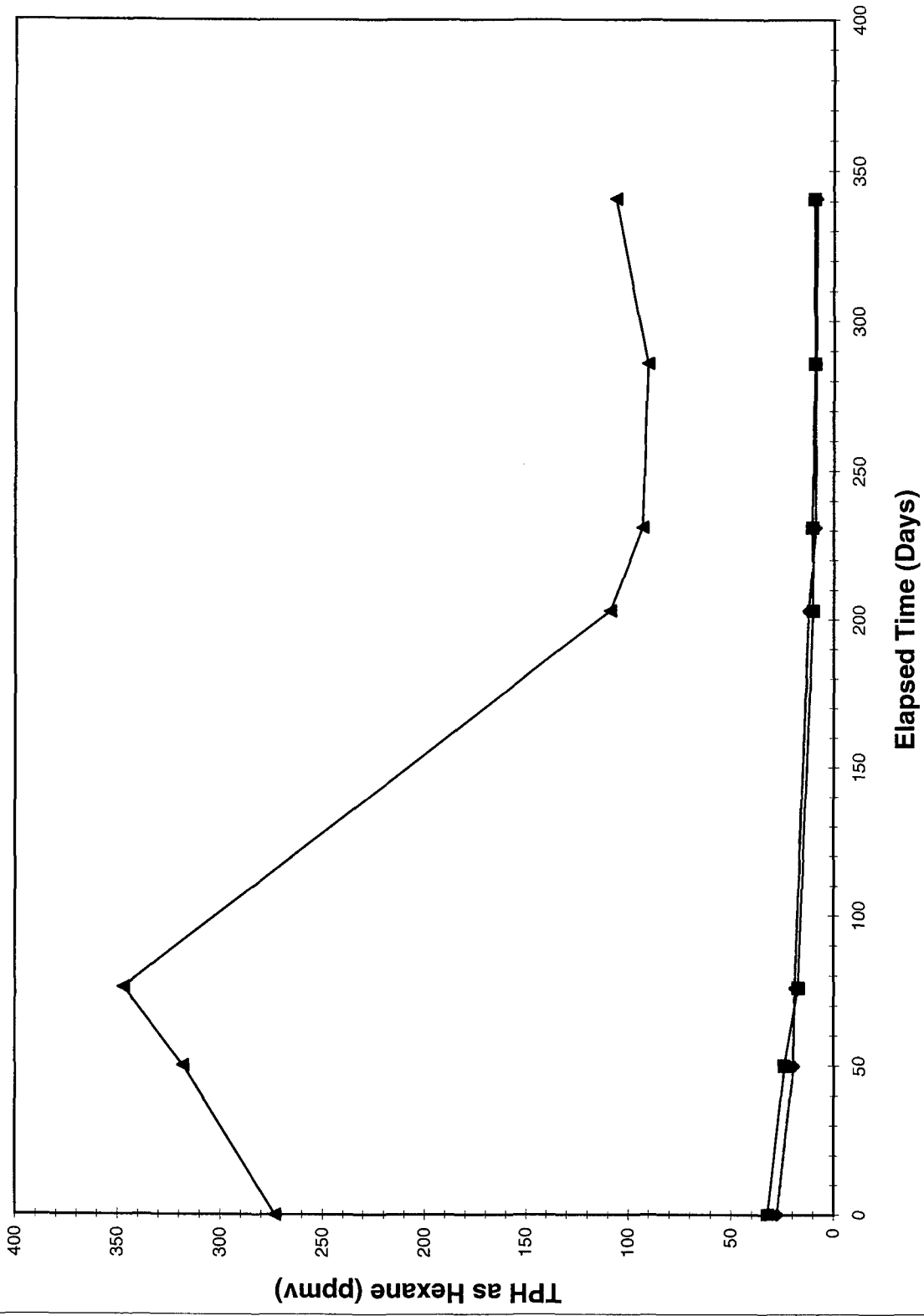
Soil Gas 1,3 DCB at MPW



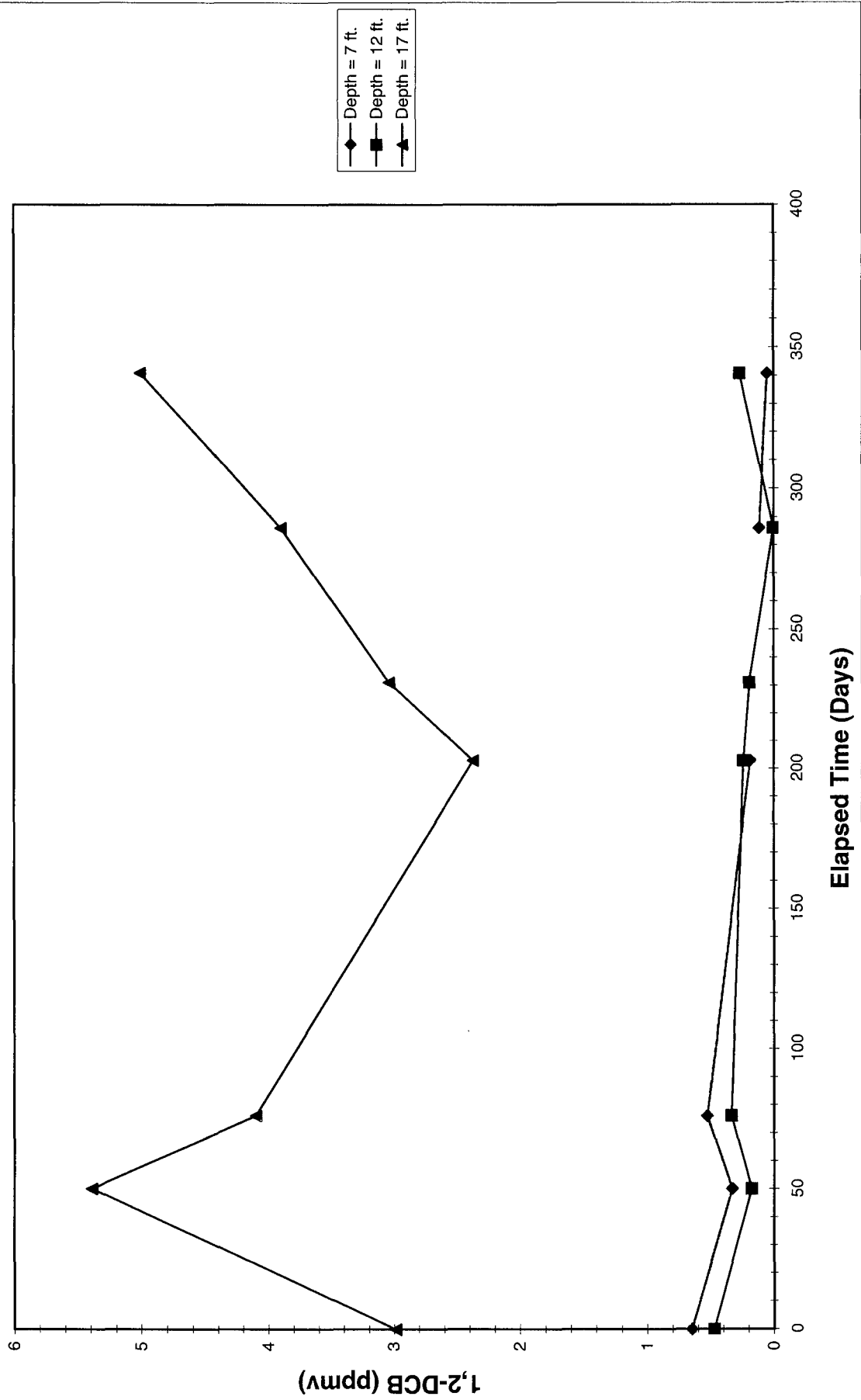
Soil Gas 1,4 DCB at MPW



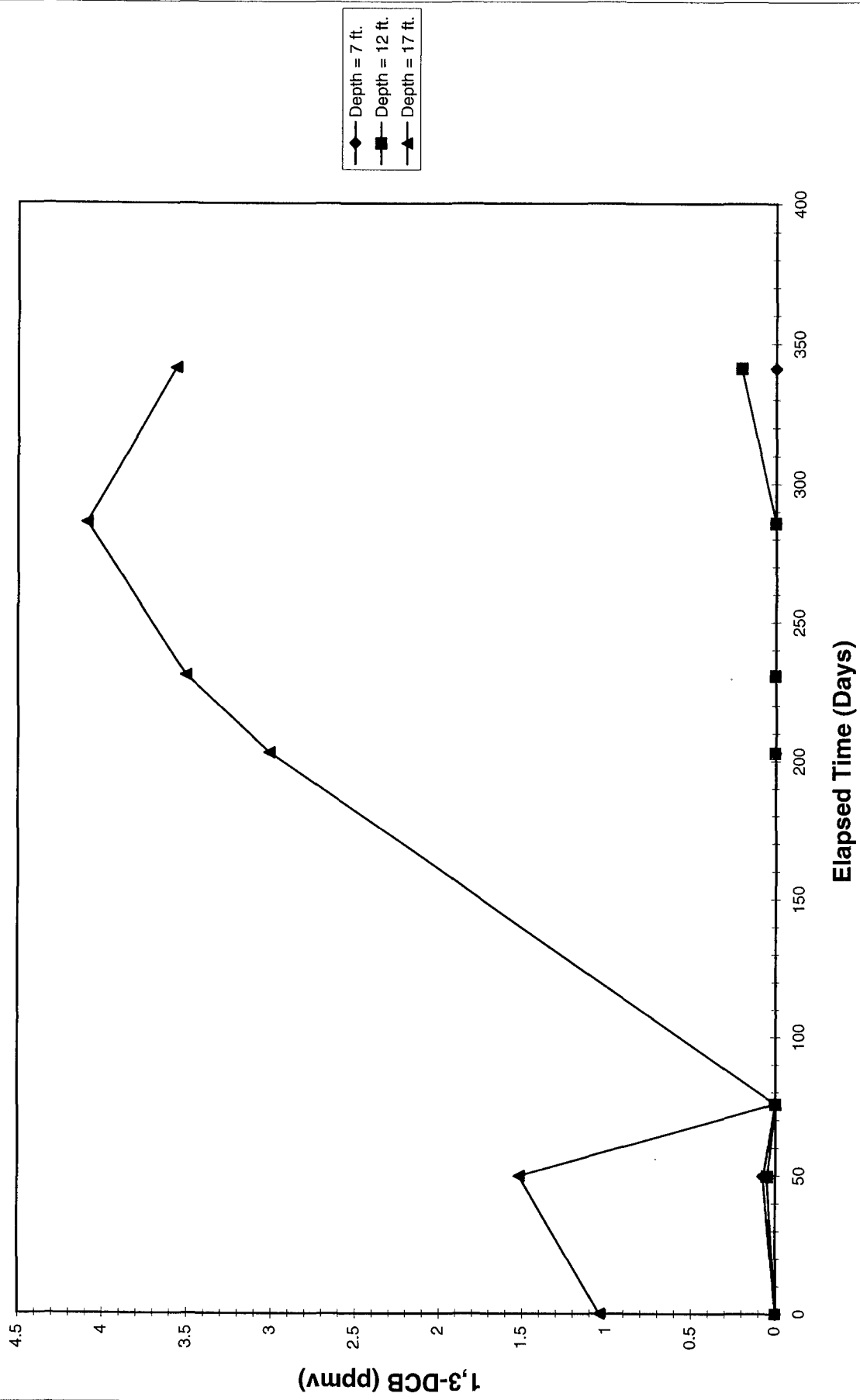
Soil Gas TPH as Hexane at MPW



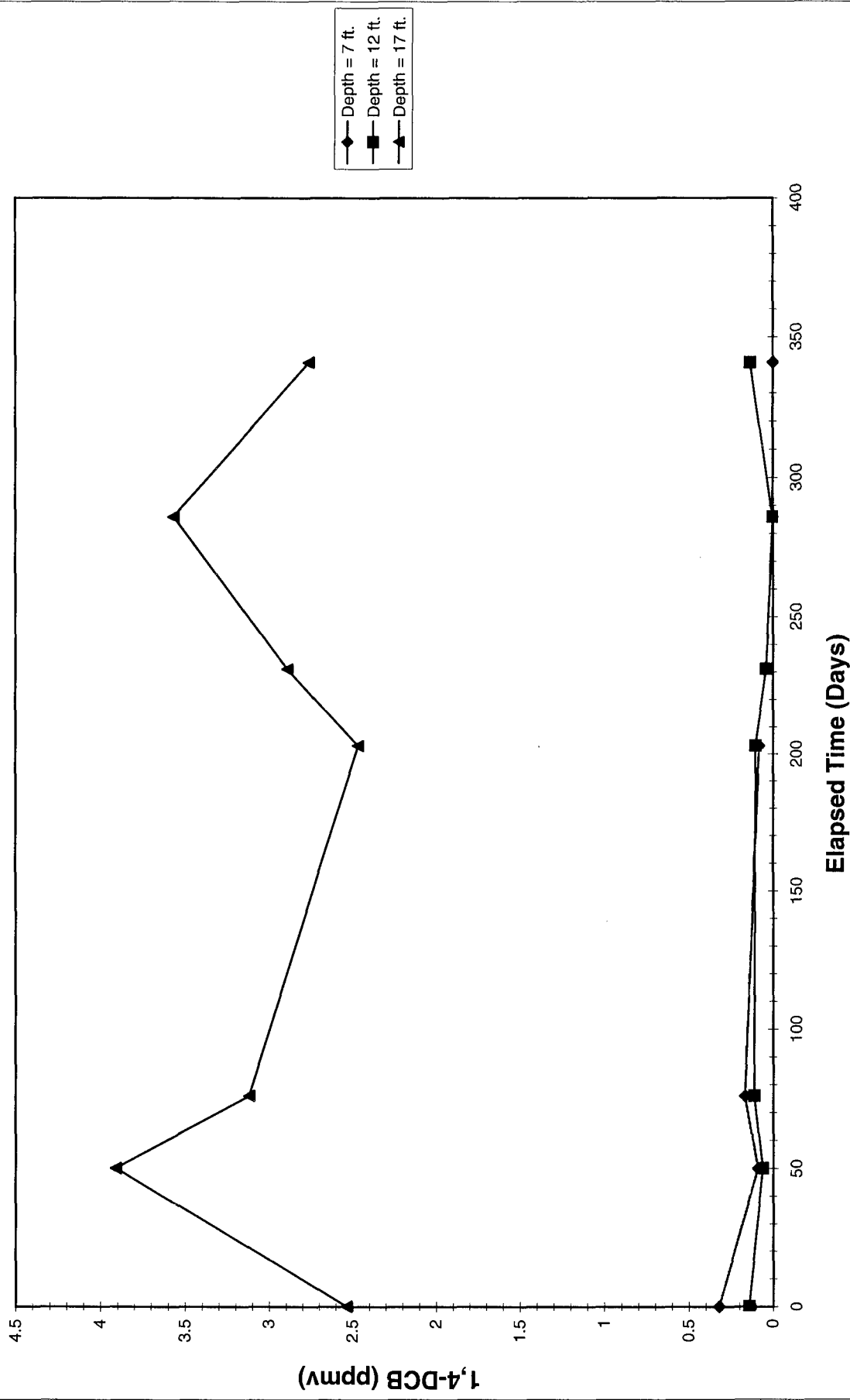
Soil Gas 1,2 DCB at MPX



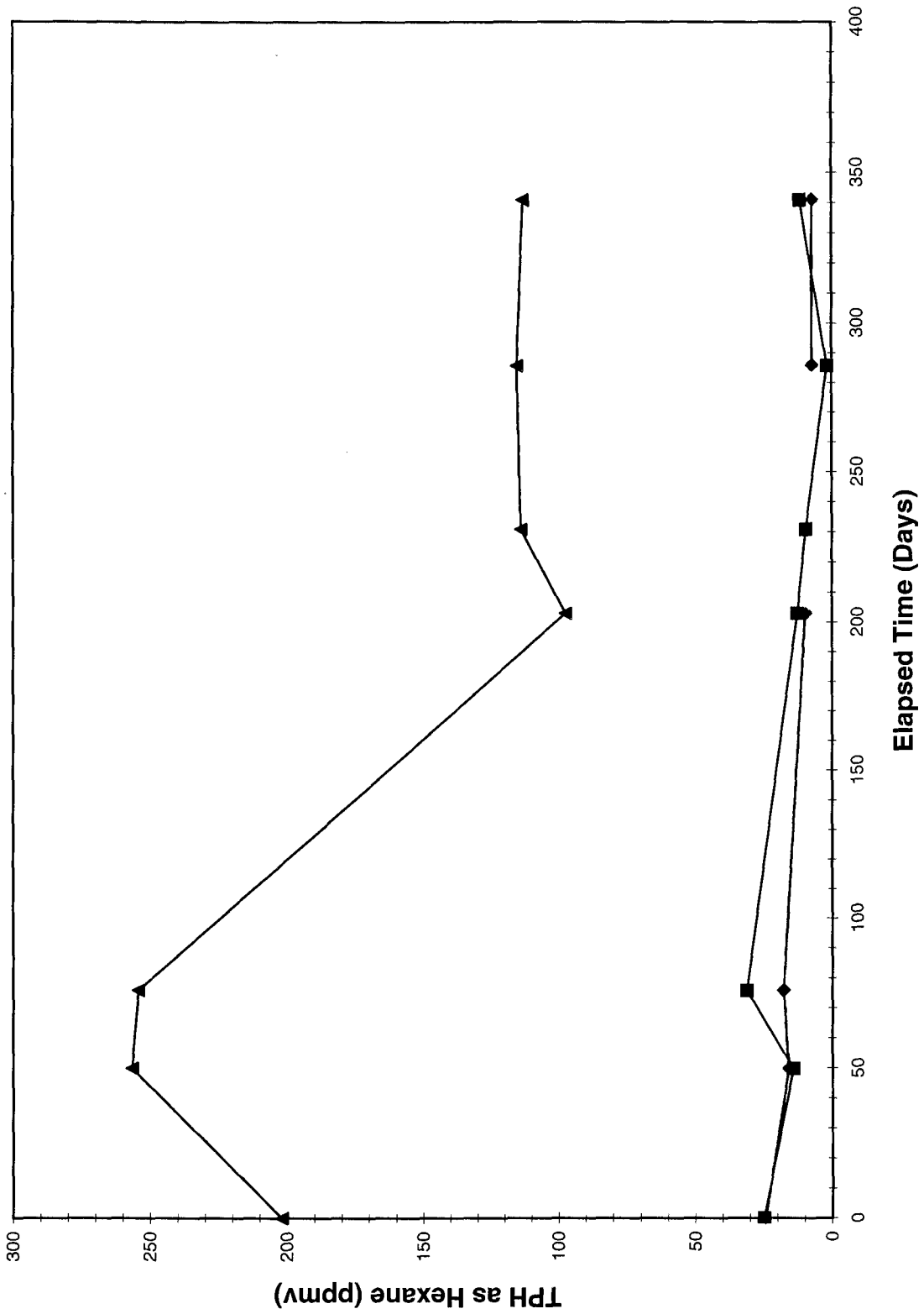
Soil Gas 1,3 DCB at MPX



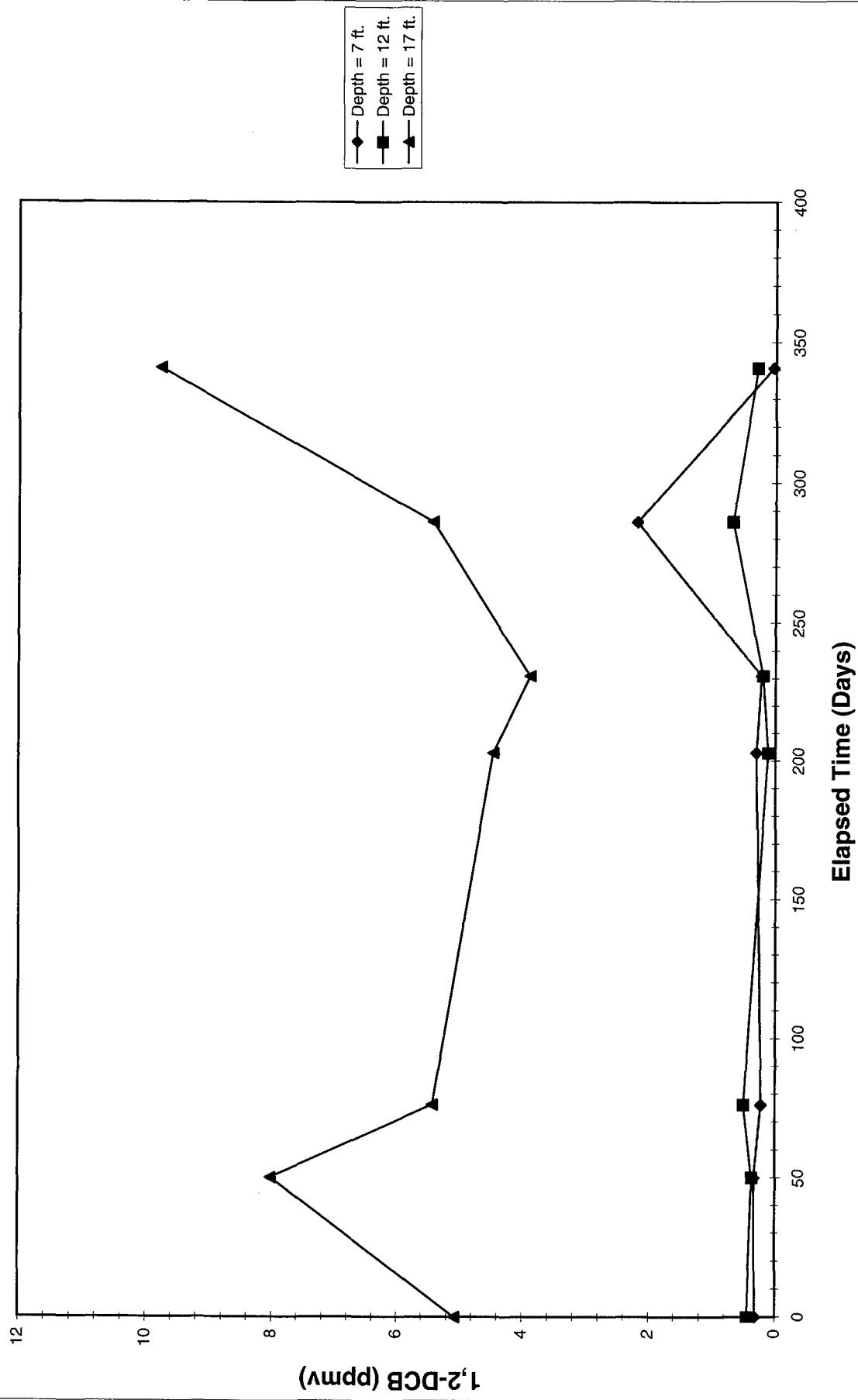
Soil Gas 1,4 DCB at MPX



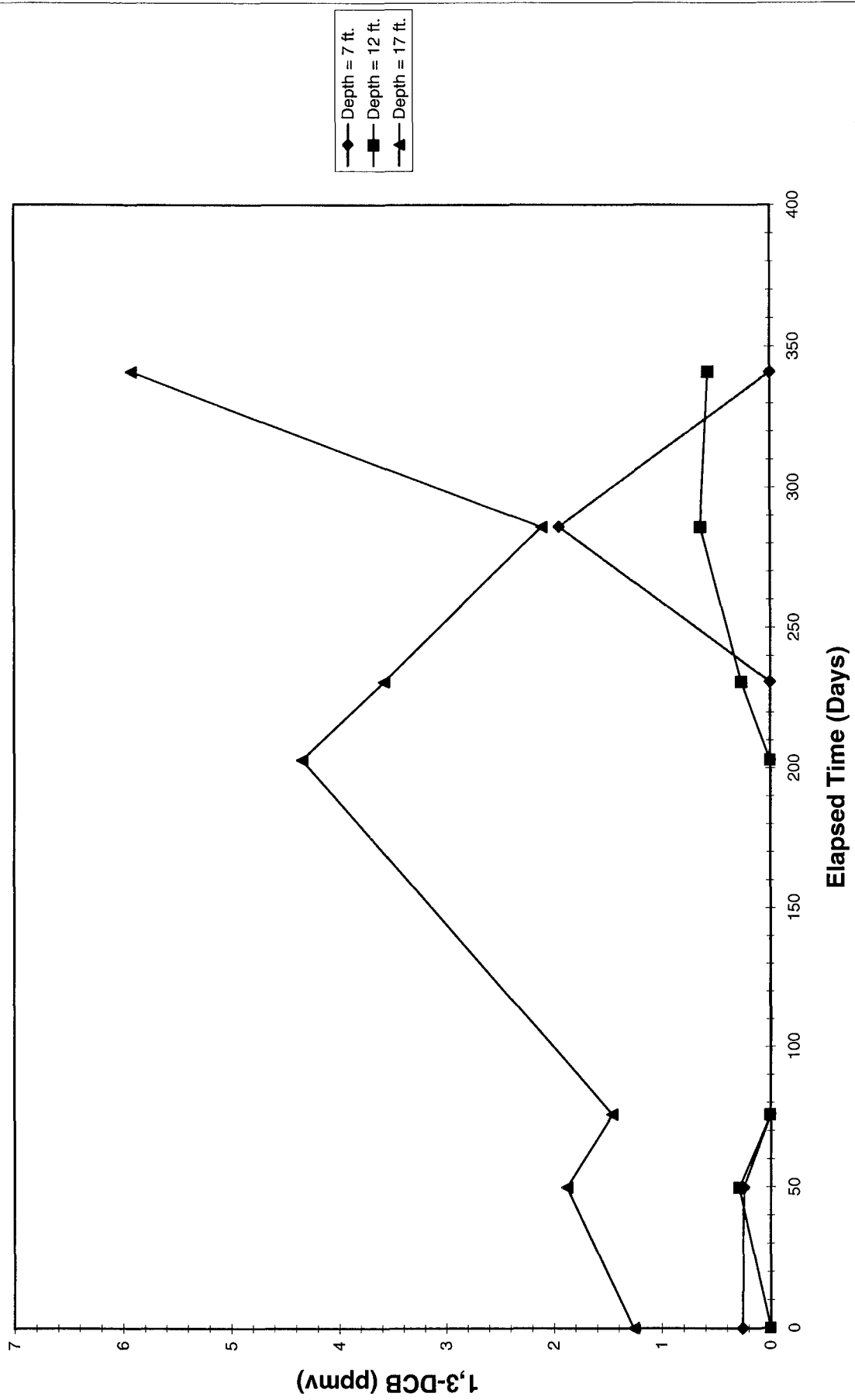
Soil Gas TPH as Hexane at MPX



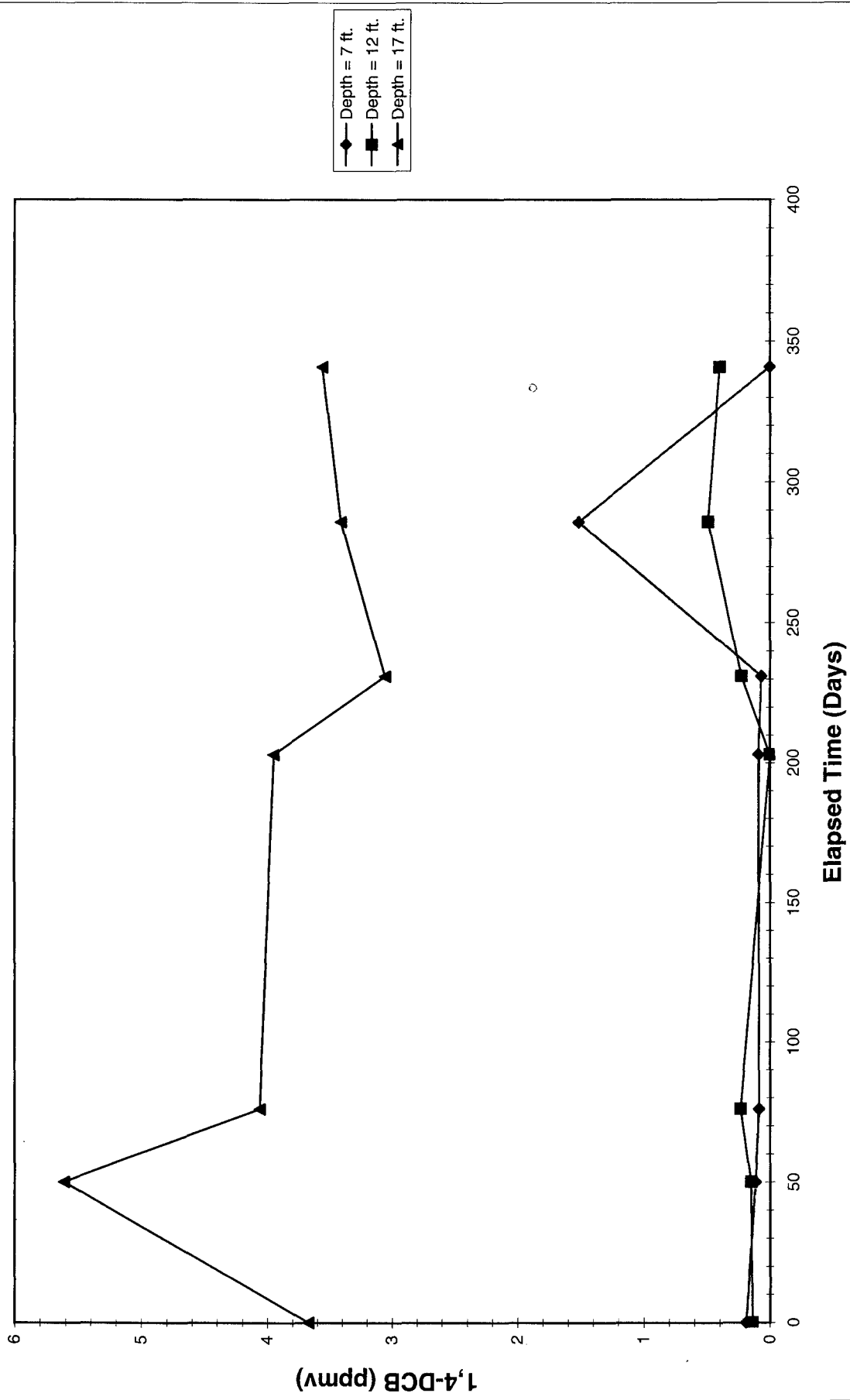
Soil Gas 1,2 DCB at MPY



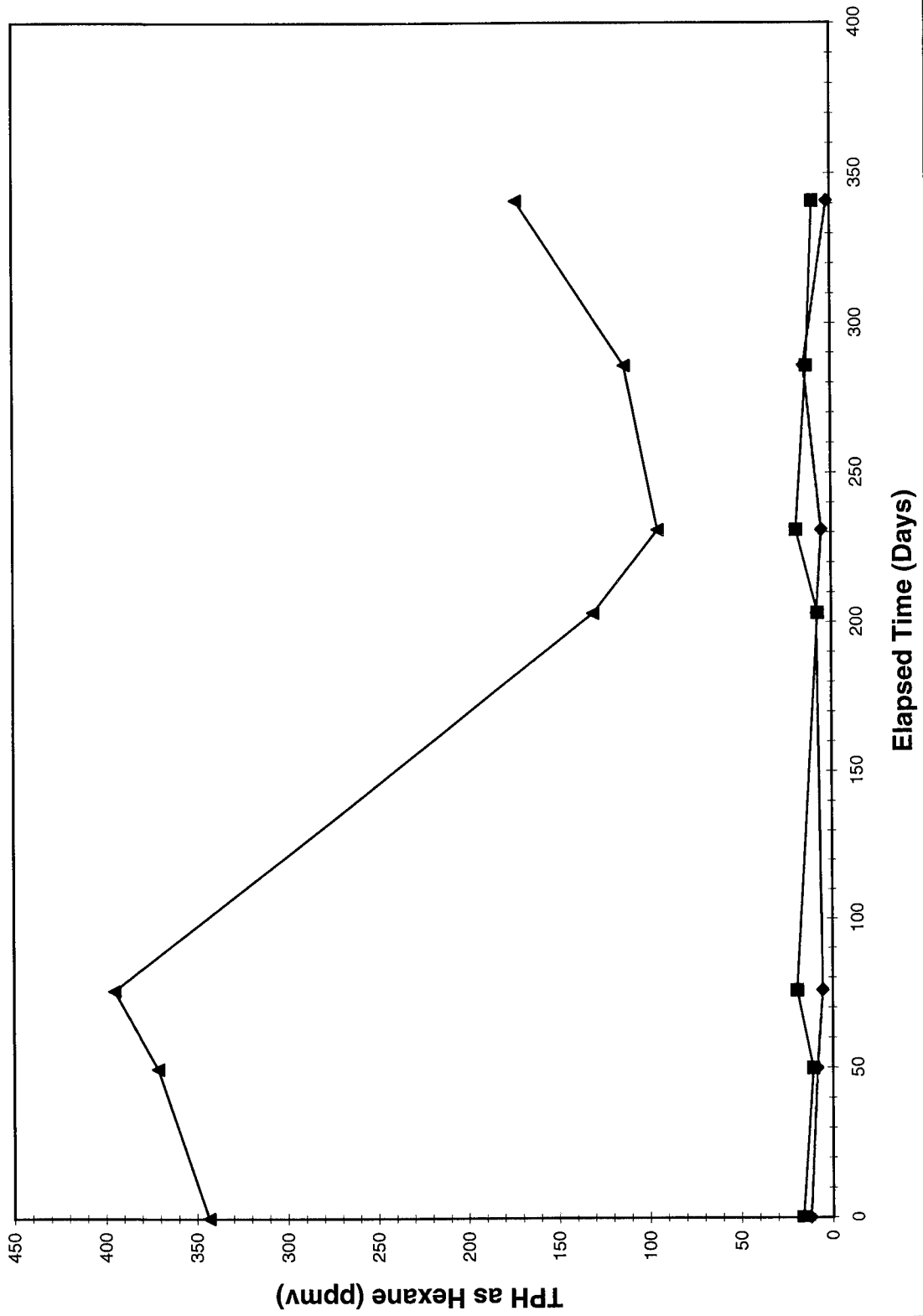
Soil Gas 1,3 DCB at MPY



Soil Gas 1,4 DCB at MPY

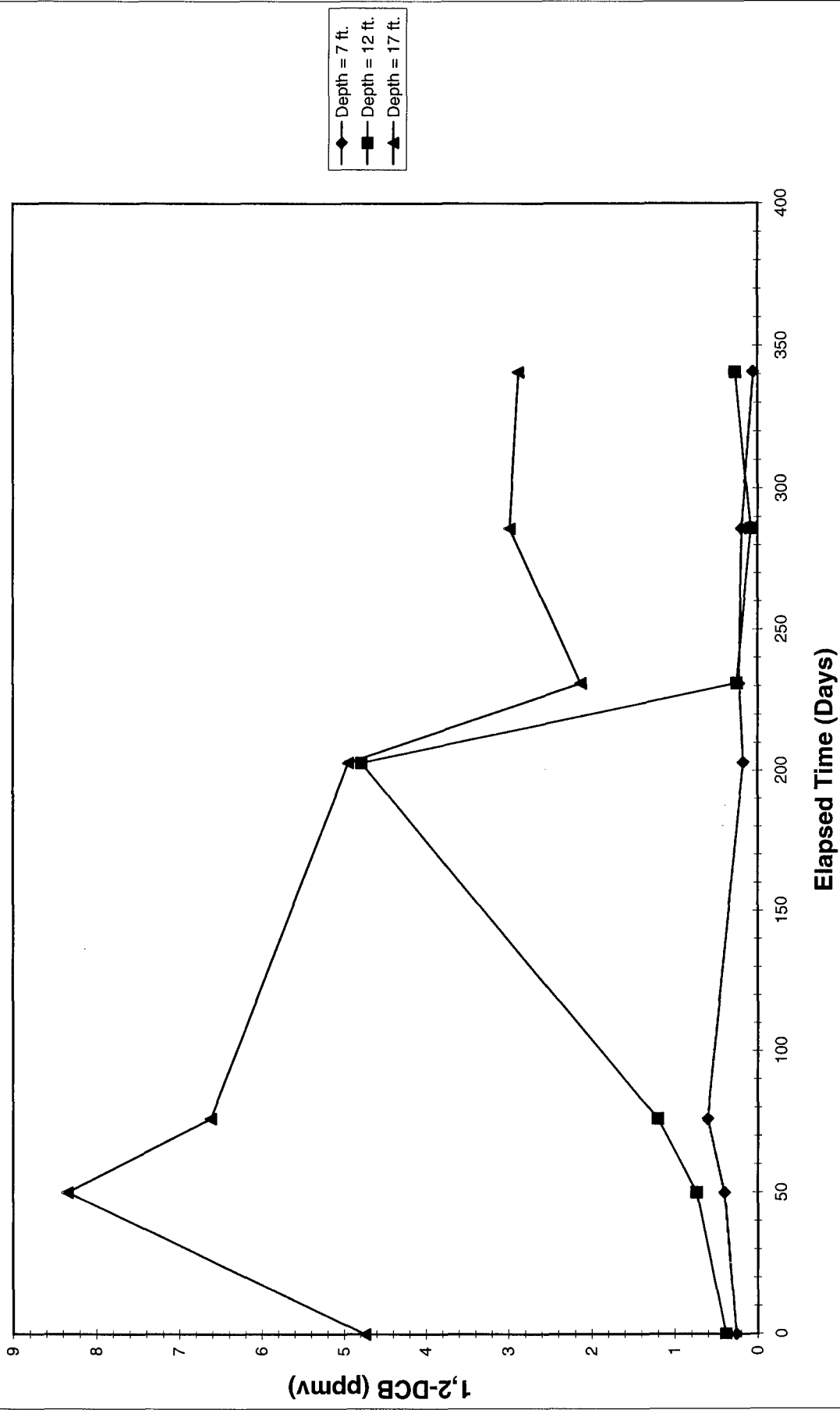


Sol Gas TPH as Hexane at MPY

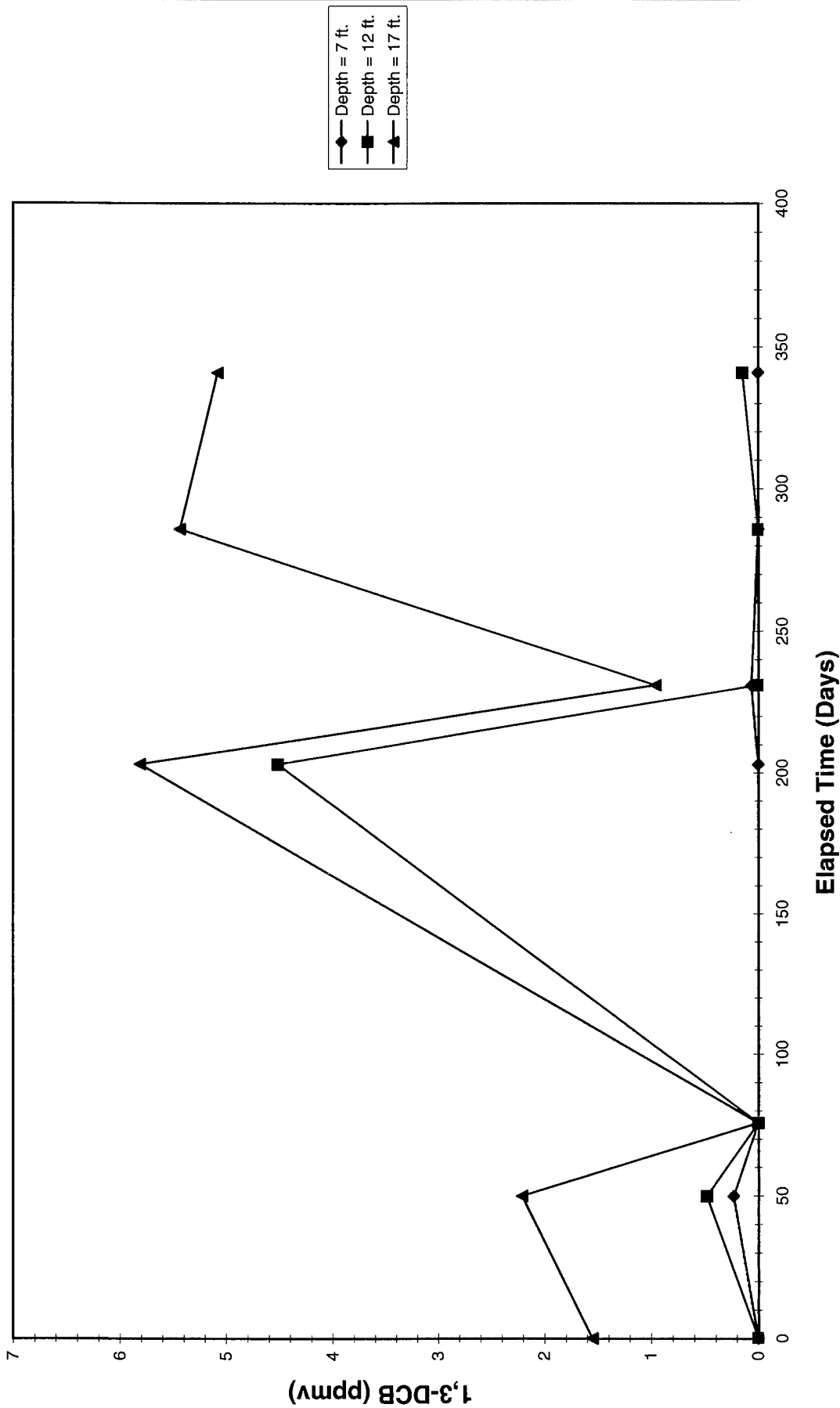


◆ Depth = 7 ft.
■ Depth = 12 ft.
▲ Depth = 17 ft.

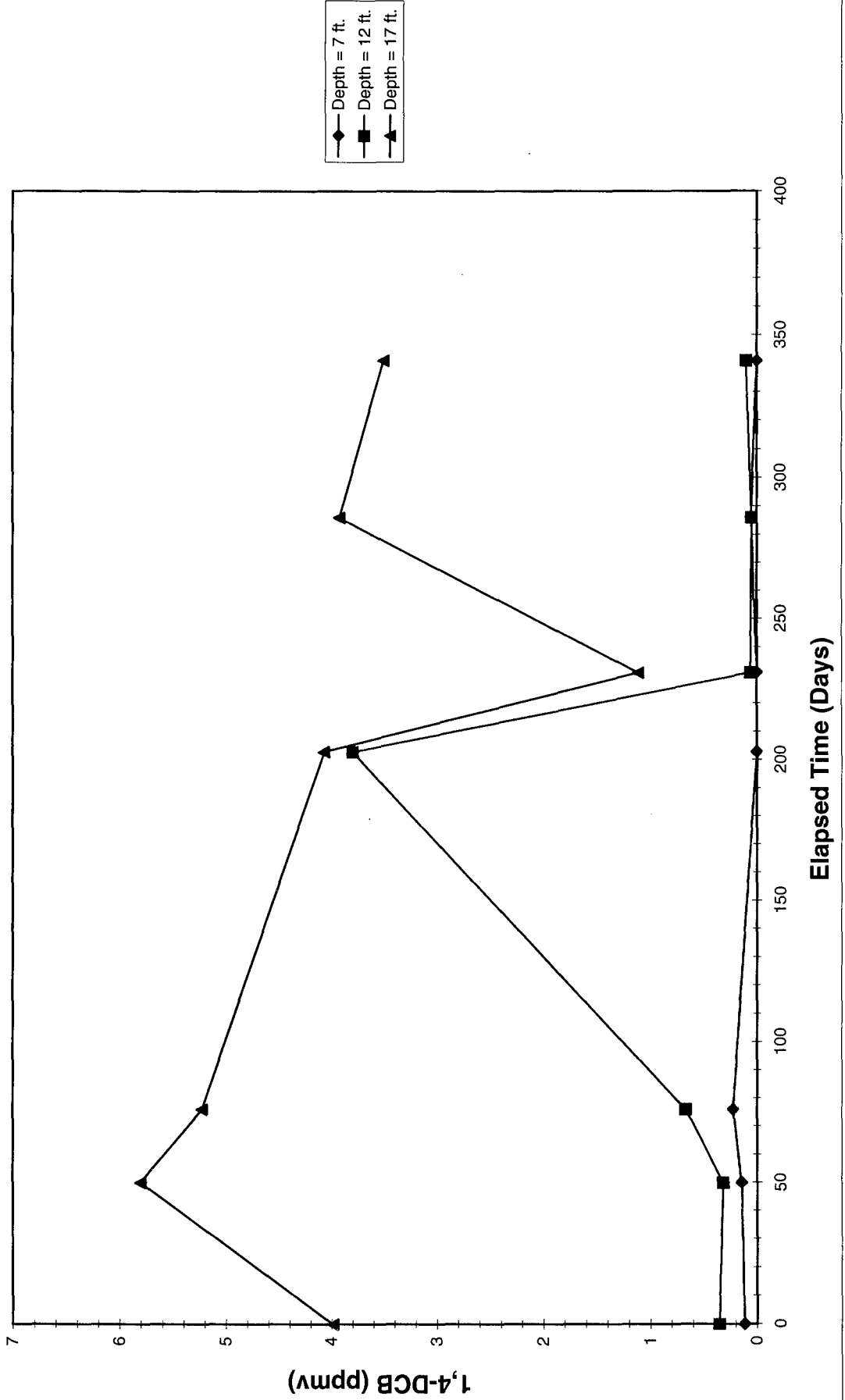
Soil Gas 1,2 DCB at MPZ



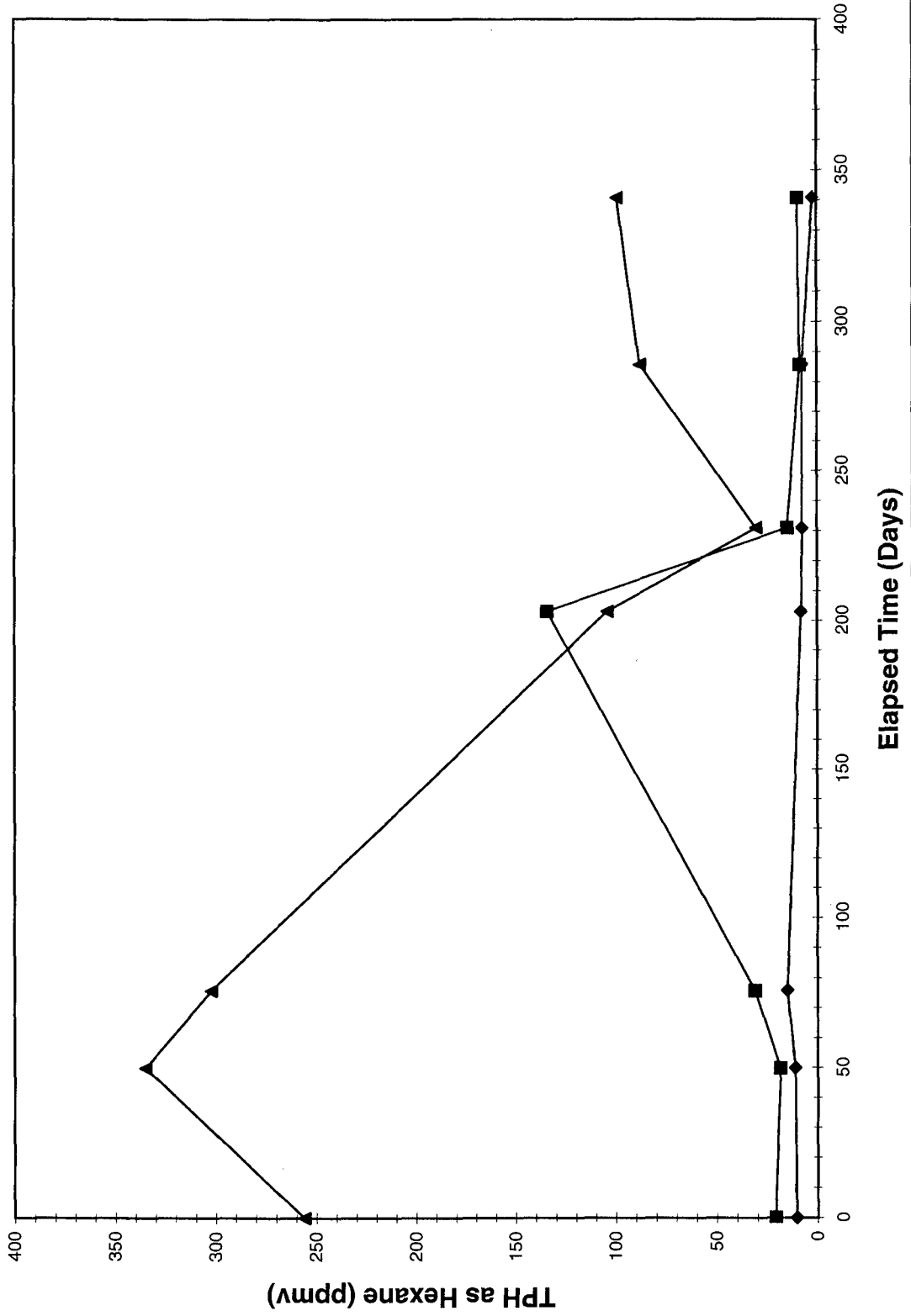
Soil Gas 1,3 DCB at MPZ



Soil Gas 1,4 DCB at MPZ



Soil Gas TPH as Hexane at MPZ



RESPIRATION TEST DATA
and
LINEAR REGRESSION RESULTS

July 1997

October 1997

January 1998

April 1998

August 1998

RESPIRATION TEST DATA

and

LINEAR REGRESSION RESULTS

July 1997

SUMMARY OUTPUT MPA 7 ft bgs Regression of linear portion of Oxygen versus time plot

Regression Statistics	
Multiple R	0.998
R Square	0.997
Adjusted R Square	0.996
Standard Error	0.065
Observations	7

ANOVA				
	df	SS	MS	Significance F
Regression	1	6.77	6.77	1.78E-07
Residual	5	0.02	0.0042	
Total	6	6.79		

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	5.6	0.0689	80.95	5.45E-09	5.40	5.76	5.40	5.76
X Variable 1	-2.8	0.0703	-40.26	1.78E-07	-3.01	-2.65	-3.01	-2.65

SUMMARY OUTPUT MPA 12 ft bgs Regression of linear portion of Oxygen versus time plot

Regression Statistics	
Multiple R	0.998
R Square	0.997
Adjusted R Square	0.996
Standard Error	0.151
Observations	8

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	40.22	40.224	1770	1.21E-08
Residual	6	0.14	0.023		
Total	7	40.36			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	12.7	0.152	83.55	1.98E-10	12.30	13.05	12.30	13.05
X Variable 1	-6.1	0.144	-42.07	1.21E-08	-6.43	-5.72	-6.43	-5.72

SUMMARY OUTPUT MPB 7 ft bgs Regression of linear portion of Oxygen versus time plot

Regression Statistics	
Multiple R	0.997
R Square	0.995
Adjusted R Square	0.994
Standard Error	0.186
Observations	15

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	82.53	82.526	2377.59	4.15E-16
Residual	13	0.45	0.035		
Total	14	82.98			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	17.33	0.10	180.72	1.72E-23	17.13	17.54	17.13	17.54
X Variable 1	-3.36	0.07	-48.76	4.15E-16	-3.51	-3.21	-3.51	-3.21

SUMMARY OUTPUT

MPB 12 ft bgs Regression of linear portion of Oxygen versus time plot

Regression Statistics	
Multiple R	0.997
R Square	0.995
Adjusted R Square	0.994
Standard Error	0.220
Observations	11

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	82.20	82.199	1693	1.4726E-11
Residual	9	0.44	0.049		
Total	10	82.64			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	18.08	0.15	121.21	8.99E-16	17.74	18.41	17.74	18.41
X Variable 1	-5.25	0.13	-41.15	1.47E-11	-5.54	-4.96	-5.54	-4.96

SUMMARY OUTPUT MPC 7 ft bgs Regression of linear portion of Oxygen versus time plot

Regression Statistics	
Multiple R	0.978
R Square	0.956
Adjusted R Square	0.951
Standard Error	0.273
Observations	12

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	16.025	16.025	215.3	4.32455E-08
Residual	10	0.744	0.074		
Total	11	16.769			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	11.77	0.23	51.28	1.92E-13	11.26	12.28	11.26	12.28
X Variable 1	-2.18	0.15	-14.67	4.32E-08	-2.52	-1.85	-2.52	-1.85

SUMMARY OUTPUT MPC 12 ft bgs Regression of linear portion of Oxygen versus time plot

Regression Statistics	
Multiple R	0.999
R Square	0.997
Adjusted R Square	0.996
Standard Error	0.147
Observations	4

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	15.90	15.897	732.7	1.36E-03
Residual	2	0.04	0.022		
Total	3	15.94			

Coefficients							
	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	0.14	93.39	1.15E-04	12.40	13.59	12.40	13.59
X Variable 1	0.48	-27.07	1.36E-03	-14.96	-10.86	-14.96	-10.86

SUMMARY OUTPUT MPD 7 ft bgs Regression of linear portion of Oxygen versus time plot

Regression Statistics	
Multiple R	0.993
R Square	0.986
Adjusted R Square	0.985
Standard Error	0.426
Observations	26

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	305.83	305.834	1688.7	9.30E-24
Residual	24	4.35	0.181		
Total	25	310.18			

Coefficients							
	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	0.17	124.87	2.80E-35	20.46	21.15	20.46	21.15
X Variable 1	0.07	-41.09	9.30E-24	-3.07	-2.78	-3.07	-2.78

SUMMARY OUTPUT

MPD 12 ft bgs Regression of linear portion of Oxygen versus time plot

Regression Statistics	
Multiple R	0.998
R Square	0.995
Adjusted R Square	0.995
Standard Error	0.362
Observations	24

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	577.53	577.532	4400.7	7.78E-27
Residual	22	2.89	0.131		
Total	23	580.42			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	20.96	0.15	139.46	6.45E-34	20.65	21.27	20.65	21.27
X Variable 1	-4.68	0.07	-66.34	7.78E-27	-4.82	-4.53	-4.82	-4.53

SUMMARY OUTPUT

MPD 17 ft bgs Regression of linear portion of Oxygen versus time plot

Regression Statistics	
Multiple R	0.999
R Square	0.999
Adjusted R Square	0.999
Standard Error	0.213
Observations	10

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	315.80	315.796	6933.6	4.83E-13
Residual	8	0.36	0.046		
Total	9	316.16			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	18.23	0.13	139.38	7.85E-15	17.93	18.53	17.93	18.53
X Variable 1	-11.70	0.14	-83.27	4.83E-13	-12.02	-11.38	-12.02	-11.38

SUMMARY OUTPUT

MPE 7 ft bgs Regression of linear portion of Oxygen versus time plot

Regression Statistics	
Multiple R	0.988
R Square	0.976
Adjusted R Square	0.974
Standard Error	0.393
Observations	18

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	98.37	98.371	638.1	2.55E-14
Residual	16	2.47	0.154		
Total	17	100.84			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	14.32	0.20	70.00	2.48E-21	13.89	14.75	13.89	14.75
X Variable 1	-2.94	0.12	-25.26	2.55E-14	-3.19	-2.70	-3.19	-2.70

SUMMARY OUTPUT

MPE 12 ft bgs Regression of linear portion of Oxygen versus time plot

Regression Statistics	
Multiple R	0.999
R Square	0.998
Adjusted R Square	0.997
Standard Error	0.162
Observations	9

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	78.90	78.896	3008.8	1.75E-10
Residual	7	0.18	0.026		
Total	8	79.08			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	15.19	0.10	147.97	1.70E-13	14.95	15.43	14.95	15.43
X Variable 1	-6.55	0.12	-54.85	1.75E-10	-6.83	-6.27	-6.83	-6.27

SUMMARY OUTPUT MPF 7 ft bgs Regression of linear portion of Oxygen versus time plot

Regression Statistics	
Multiple R	0.988
R Square	0.975
Adjusted R Square	0.974
Standard Error	0.468
Observations	26

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	207.72	207.718	947.6	8.41E-21
Residual	24	5.26	0.219		
Total	25	212.98			

Coefficients						
	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%
Intercept	0.18	107.44	1.03E-33	19.40	20.16	19.40
X Variable 1	0.08	-30.78	8.41E-21	-2.57	-2.25	-2.57
						Upper 95.0%
						20.16
						-2.25
						-2.25

SUMMARY OUTPUT

MPF 12 ft bgs Regression of linear portion of Oxygen versus time plot

Regression Statistics	
Multiple R	0.998
R Square	0.996
Adjusted R Square	0.996
Standard Error	0.289
Observations	24

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	447.11	447.106	5343.7	9.28E-28
Residual	22	1.84	0.084		
Total	23	448.95			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	20.09	0.12	166.71	1.28E-35	19.84	20.34	19.84	20.34
X Variable 1	-4.12	0.06	-73.10	9.28E-28	-4.23	-4.00	-4.23	-4.00

SUMMARY OUTPUT MPF 17 ft bgs Regression of linear portion of Oxygen versus time plot

Regression Statistics	
Multiple R	0.993
R Square	0.986
Adjusted R Square	0.983
Standard Error	0.294
Observations	8

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	36.16	36.156	417.9	8.91E-07
Residual	6	0.52	0.087		
Total	7	36.68			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	12.72	0.23	54.77	2.49E-09	12.15	13.29	12.15	13.29
X Variable 1	-5.18	0.25	-20.44	8.91E-07	-5.80	-4.56	-5.80	-4.56

SUMMARY OUTPUT MPG 7 ft bgs Regression of linear portion of Oxygen versus time plot

Regression Statistics	
Multiple R	0.990
R Square	0.980
Adjusted R Square	0.979
Standard Error	0.231
Observations	28

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	68.23	68.232	1276.7	1.25E-23
Residual	26	1.39	0.053		
Total	27	69.62			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	12.16	0.08	146.25	1.93E-39	11.99	12.33	11.99	12.33
X Variable 1	-1.31	0.04	-35.73	1.25E-23	-1.39	-1.24	-1.39	-1.24

SUMMARY OUTPUT MPG 12 ft bgs Regression of linear portion of Oxygen versus time plot

Regression Statistics	
Multiple R	0.958
R Square	0.918
Adjusted R Square	0.914
Standard Error	0.363
Observations	27

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	36.69	36.686	278.6	4.59E-15
Residual	25	3.29	0.132		
Total	26	39.98			

Coefficients							
	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	0.14	52.17	4.90E-27	6.91	7.47	6.91	7.47
X Variable 1	0.06	-16.69	4.59E-15	-1.12	-0.88	-1.12	-0.88

SUMMARY OUTPUT

MPH 7 ft bgs Regression of linear portion of Oxygen versus time plot

Regression Statistics	
Multiple R	0.983
R Square	0.965
Adjusted R Square	0.964
Standard Error	0.589
Observations	26

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	231.97	231.973	669.3	4.85E-19
Residual	24	8.32	0.347		
Total	25	240.29			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	20.88	0.23	90.69	5.94E-32	20.40	21.35	20.40	21.35
X Variable 1	-2.55	0.10	-25.87	4.85E-19	-2.75	-2.34	-2.75	-2.34

SUMMARY OUTPUT

MPH 12 ft bgs Regression of linear portion of Oxygen versus time plot

Regression Statistics	
Multiple R	0.998
R Square	0.995
Adjusted R Square	0.995
Standard Error	0.281
Observations	22

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	345.75	345.754	4373.0	6.75E-25
Residual	20	1.58	0.079		
Total	21	347.34			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	20.57	0.14	146.14	9.06E-32	20.28	20.87	20.28	20.87
X Variable 1	-4.19	0.06	-66.13	6.75E-25	-4.32	-4.06	-4.32	-4.06

SUMMARY OUTPUT MPH 17 ft bgs Regression of linear portion of Oxygen versus time plot

Regression Statistics	
Multiple R	0.999
R Square	0.997
Adjusted R Square	0.997
Standard Error	0.278
Observations	11

ANOVA				
	df	SS	MS	Significance F
Regression	1	267.32	267.324	3456.5
Residual	9	0.70	0.077	6.00E-13
Total	10	268.02		

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	17.45	0.17	103.04	3.88E-15	17.07	17.84	17.07	17.84
X Variable 1	-10.73	0.18	-58.79	6.00E-13	-11.14	-10.32	-11.14	-10.32

MPA 12 ft bgs			
Shut off Blower 7/17/1997 9:33:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.08	11.2	7.3	400
0.17	11.0	7.5	435
0.32	10.7	7.5	410
0.48	9.8	7.8	350
0.95	7.1	9.2	460
1.03	6.3	9.8	480
1.13	5.8	10.0	560
1.23	5.0	10.1	620
1.27	5.0	10.5	620
1.46	3.9	11.0	550
1.54	4.0	10.8	625
1.96	2.5	12.0	520
2.04	2.6	12.0	680
2.18	1.8	12.3	500
2.27	1.8	12.8	510
2.39	1.8	12.4	625
2.46	1.5	12.8	650
2.54	1.3	12.9	620
2.95	0.8	15.0	720
3.08	0.6	14.1	NT
3.19	0.4	14.1	NT
3.29	0.3	14.5	NT
3.42	0.1	14.9	NT
3.49	0.1	15.1	NT
3.94	0.9	15.1	NT
4.30	0.5	15.6	NT

MPA 17 ft bgs			
Shut off Blower 7/17/1997 9:33:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.08	0.1	18.0	760
0.17	0.0	18.9	720
0.32	1.0	16.9	770
0.48	1.0	16.9	680
0.96	1.3	16.0	760
0.96	0.4	18.1	805
1.03	0.8	17.7	800
1.13	0.4	16.1	930
1.23	0.1	17.9	1000
1.30	0.0	18.3	1000
1.46	0.0	17.9	940
1.54	0.2	16.9	990
1.96	0.2	16.8	820
2.05	0.0	16.9	1000
2.18	0.0	16.2	805
2.27	0.0	16.4	800
2.39	0.1	16.0	935
2.46	0.0	16.2	950
2.54	0.0	16.2	970
2.95	0.0	17.6	1200
3.08	0.1	16.8	NT
3.19	0.2	16.1	NT
3.29	0.0	16.4	NT
3.42	0.0	17.0	NT
3.49	0.0	17.0	NT
3.94	0.4	16.5	- NT
4.30	0.0	17.0	NT

MPA 7 ft bgs			
Shut off Blower 7/17/1997 9:33:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.08	4.8	19.8	470
0.16	4.3	13.0	450
0.32	4.7	12.2	475
0.48	4.2	12.5	425
0.95	2.9	14.0	495
1.03	2.7	14.1	520
1.13	2.4	14.0	590
1.23	2.0	14.8	670
1.30	2.0	14.8	670
1.46	0.9	15.1	590
1.54	1.9	14.5	650
1.96	1.0	15.1	475
2.04	1.0	15.1	680
2.17	0.9	15.1	520
2.27	1.0	15.1	520
2.39	1.0	15.0	625
2.46	1.2	15.0	645
2.54	0.8	15.9	625
2.95	0.5	17.0	715
3.08	0.2	16.8	NT
3.19	0.4	16.1	NT
3.29	0.1	16.5	NT
3.42	0.0	17.1	NT
3.49	0.0	17.8	NT
3.94	0.4	17.1	NT
4.30	0.0	18.1	NT

MPB 12 ft bgs			
Shut off Blower 7/17/1997 9:33:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.07	17.3	2.8	195
0.16	17.2	3.0	195
0.31	16.5	3.1	200
0.48	15.8	3.3	160
0.95	13.1	4.5	285
1.02	12.6	4.7	295
1.12	12.1	4.8	350
1.22	11.5	5.0	405
1.29	11.4	5.1	405
1.46	10.0	5.8	370
1.54	10.0	5.7	445
1.95	8.2	6.6	365
2.04	8.1	6.6	520
2.17	7.1	7.0	390
2.27	7.0	7.1	380
2.38	6.6	7.1	480
2.46	6.5	7.2	520
2.54	6.1	7.5	485
2.95	4.9	9.0	590
3.07	4.5	8.9	NT
3.18	4.2	8.9	NT
3.28	4.2	8.9	NT
3.42	3.8	9.2	NT
3.49	3.5	9.6	NT
3.94	3.1	10.1	NT
4.29	8.0	8.1	NT

MPB 17 ft bgs			
Shut off Blower 7/17/1997 9:33:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.07	2.5	11.9	650
0.16	2.1	12.2	630
0.31	2.1	12.1	660
0.48	1.8	12.7	605
0.95	1.5	13.8	690
1.02	0.9	14.2	720
1.12	0.9	14.0	810
1.23	0.1	14.8	910
1.30	0.0	15.0	910
1.46	0.0	15.0	835
1.54	0.1	14.2	870
1.96	0.0	14.4	730
2.04	0.1	14.2	905
2.17	0.1	14.0	730
2.27	0.0	14.1	720
2.39	0.6	13.5	835
2.46	0.0	14.0	855
2.54	0.0	14.1	865
2.95	0.0	15.1	960
3.08	0.1	14.3	NT
3.18	0.0	14.1	NT
3.29	0.2	14.0	NT
3.42	0.0	14.5	NT
3.49	0.0	15.0	NT
3.94	0.7	14.1	NT
4.29	0.0	15.0	NT

MPB 7 ft bgs			
Shut off Blower 7/17/1997 9:33:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.07	17.1	3.4	220
0.16	16.9	3.7	230
0.31	16.3	3.8	240
0.48	16.0	3.9	200
0.95	14.2	4.9	285
1.02	13.8	5.0	300
1.12	13.4	5.0	360
1.22	13.0	5.2	405
1.29	13.0	5.3	410
1.46	12.1	5.8	370
1.54	12.0	5.7	430
1.95	11.0	6.2	340
2.04	10.5	6.4	500
2.17	10.0	6.4	355
2.27	10.0	6.6	345
2.38	10.0	6.3	440
2.46	10.0	6.4	460
2.53	9.2	6.9	440
2.95	8.0	7.9	530
3.07	7.5	15.5	NT
3.18	7.4	7.8	NT
3.28	7.2	7.8	NT
3.42	6.9	8.1	NT
3.49	6.8	8.5	NT
3.93	6.0	8.8	NT
4.29	5.9	9.1	NT

MPC 12 ft bgs			
Shut off Blower 7/17/1997 9:33:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.06	12.3	7.1	330
0.15	10.9	7.9	330
0.30	9.0	9.0	370
0.47	7.0	10.7	400
0.94	6.1	11.5	410
1.01	6.0	11.8	440
1.11	5.2	11.9	520
1.22	4.1	12.9	510
1.28	3.9	13.1	605
1.45	2.9	13.8	500
1.53	3.4	13.0	580
1.94	3.6	13.0	445
2.03	3.5	13.1	565
2.16	2.8	13.7	470
2.26	2.2	14.0	480
2.37	1.9	14.1	520
2.45	1.9	14.1	580
2.53	1.9	14.6	600
2.94	2.2	15.1	640
3.07	2.5	14.4	NT
3.17	2.0	14.8	NT
3.28	1.6	15.0	NT
3.41	1.1	15.5	NT
3.48	1.1	15.9	NT
3.93	2.1	14.2	NT
4.29	1.9	15.2	NT

MPC 17 ft bgs			
Shut off Blower 7/17/1997 9:33:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.07	0.3	17.2	665
0.15	0.3	17.9	620
0.30	1.2	16.1	645
0.47	1.1	16.1	640
0.94	1.1	16.8	620
1.01	0.5	17.0	700
1.11	0.5	16.8	800
1.22	0.0	17.1	815
1.28	0.0	17.4	905
1.45	0.0	17.1	840
1.53	0.3	16.1	840
1.94	0.4	16.1	690
2.03	0.1	16.2	810
2.16	0.1	16.0	700
2.26	0.0	16.1	725
2.38	0.0	16.0	780
2.45	0.0	16.0	820
2.53	0.0	16.1	860
2.94	0.0	17.2	920
3.07	0.2	16.8	NT
3.18	0.1	16.1	NT
3.28	0.1	16.1	NT
3.41	0.0	17.1	NT
3.48	0.0	17.0	NT
3.93	0.7	15.9	NT
4.29	0.0	17.0	NT

MPC 7 ft bgs			
Shut off Blower 7/17/1997 9:33:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.06	10.5	10.3	440
0.15	10.5	10.5	400
0.30	11.0	9.8	395
0.47	11.0	9.8	425
0.93	10.0	10.1	375
1.01	9.7	10.5	440
1.11	9.2	10.2	520
1.21	8.9	10.6	510
1.28	8.9	10.8	590
1.45	8.0	11.0	505
1.52	8.3	10.5	565
1.94	7.8	10.8	440
2.03	7.3	11.1	555
2.16	7.2	10.8	480
2.26	7.0	11.0	490
2.37	6.9	11.0	465
2.45	7.0	10.8	565
2.53	6.8	11.1	575
2.94	6.1	12.0	625
3.06	5.9	12.0	NT
3.17	5.5	11.0	NT
3.28	5.3	12.0	NT
3.41	4.9	12.4	NT
3.48	4.9	12.9	NT
3.93	4.9	12.1	NT
4.28	4.1	13.0	NT

MPD 12 ft bgs			
Shut off Blower 7/17/1997 9:33:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.06	20.2	0.5	30
0.15	20.2	0.6	20
0.30	19.3	0.6	20
0.47	19.1	0.7	10
0.93	17.0	0.8	10
1.01	16.9	0.9	60
1.11	16.1	1.0	110
1.21	15.3	1.2	80
1.28	15.3	1.3	140
1.44	14.0	1.7	110
1.52	13.9	1.8	205
1.94	12.1	2.5	115
2.03	11.5	2.8	260
2.16	10.5	3.1	145
2.25	10.0	3.3	225
2.37	9.3	3.5	205
2.45	9.0	3.7	330
2.52	8.6	3.9	320
2.94	7.1	4.8	370
3.06	6.8	4.9	NT
3.17	6.2	5.1	NT
3.27	6.0	5.3	NT
3.40	5.2	5.9	NT
3.48	5.1	6.1	NT
3.92	4.8	6.5	NT
4.28	10.8	5.9	NT
4.29	11.1	5.7	NT

MPD 17 ft bgs			
Shut off Blower 7/17/1997 9:33:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.06	17.7	2.2	380
0.15	16.3	2.7	380
0.30	14.7	3.1	410
0.47	12.6	3.7	450
0.93	7.6	5.4	485
1.01	6.2	5.9	570
1.11	5.5	6.1	670
1.21	3.9	6.7	695
1.28	3.4	6.9	770
1.45	1.1	7.7	740
1.52	1.4	7.8	780
1.94	0.4	8.3	665
2.03	0.1	8.9	770
2.16	0.0	8.8	680
2.26	0.0	9.0	720
2.37	0.0	9.0	720
2.45	0.0	9.1	770
2.53	0.1	9.2	830
2.94	0.0	10.1	890
3.06	0.0	10.0	NT
3.17	0.1	10.0	NT
3.27	0.0	10.0	NT
3.41	0.0	10.3	NT
3.48	0.0	10.7	NT
3.92	0.7	10.1	NT
4.28	2.0	10.7	NT

MPD 7 ft bgs			
Shut off Blower 7/17/1997 9:33:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.06	19.8	1.2	140
0.15	19.8	1.3	125
0.30	19.2	4.8	110
0.47	19.3	1.5	60
0.93	18.2	2.0	110
1.01	18.1	2.1	160
1.11	17.9	2.1	210
1.21	17.2	2.2	200
1.28	17.6	2.2	240
1.44	16.8	2.5	230
1.52	16.8	2.5	280
1.94	15.8	2.8	150
2.03	15.4	3.0	280
2.16	14.9	3.0	170
2.25	14.4	3.0	270
2.37	14.1	3.1	230
2.45	13.9	3.2	340
2.52	13.7	3.3	310
2.94	12.3	3.8	360
3.06	11.9	3.8	NT
3.17	11.4	4.0	NT
3.27	11.1	4.1	NT
3.40	10.2	4.4	NT
3.48	10.1	4.7	NT
3.92	9.0	4.9	NT
4.28	8.0	5.5	NT

MPE 12 ft bgs			
Shut off Blower 7/17/1997 9:33:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.07	15.0	10.9	255
0.16	14.2	4.9	240
0.31	13.0	5.2	270
0.47	11.9	6.0	275
0.94	9.0	7.7	280
1.02	8.5	7.9	355
1.12	8.0	8.0	420
1.22	7.1	2.6	390
1.29	6.9	8.9	490
1.45	5.9	9.1	440
1.53	5.9	9.2	495
1.95	4.8	10.1	345
2.04	4.9	10.0	525
2.17	4.0	10.4	390
2.26	4.6	10.8	420
2.38	3.5	10.7	480
2.45	3.0	11.0	590
2.53	2.9	11.5	525
2.94	2.6	12.8	605
3.07	2.4	12.2	NT
3.18	2.2	12.1	NT
3.28	2.0	12.2	NT
3.41	1.2	13.0	NT
3.48	1.5	13.2	NT
3.93	1.9	13.1	NT
4.28	1.9	13.0	NT

MPE 17 ft bgs			
Shut off Blower 7/17/1997 9:33:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.07	4.1	13.2	500
0.16	3.6	13.9	460
0.31	3.4	13.1	490
0.47	2.9	13.8	460
0.94	1.6	15.0	460
1.02	0.9	15.5	530
1.12	0.9	15.0	620
1.22	0.2	15.8	580
1.29	0.2	15.9	685
1.45	0.0	16.0	645
1.53	0.1	15.2	660
1.95	0.2	15.1	540
2.04	0.1	15.1	665
2.17	0.1	15.0	510
2.26	0.0	15.1	540
2.38	0.1	14.9	620
2.45	0.0	15.0	665
2.53	0.0	15.1	660
2.95	0.0	16.1	740
3.07	0.0	15.9	NT
3.18	0.1	15.1	NT
3.28	0.0	15.1	NT
3.41	0.0	15.9	NT
3.49	0.0	15.9	NT
3.93	0.5	15.2	NT
4.29	0.0	15.9	NT

MPE 7 ft bgs			
Shut off Blower 7/17/1997 9:33:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.07	14.6	6.2	315
0.15	13.9	6.5	300
0.31	14.0	6.2	320
0.47	13.5	6.5	300
0.94	11.9	7.3	300
1.02	11.1	7.7	370
1.12	10.9	7.7	440
1.22	10.1	7.9	400
1.29	10.0	8.1	495
1.45	9.4	8.1	440
1.53	9.5	8.0	495
1.94	8.9	8.4	360
2.03	8.2	8.8	505
2.17	8.0	8.8	390
2.26	7.8	8.9	405
2.38	7.2	9.0	425
2.45	7.3	9.0	520
2.53	7.0	9.3	500
2.94	6.1	10.2	560
3.07	6.0	10.1	NT
3.18	5.9	10.1	NT
3.28	5.6	10.1	NT
3.41	5.0	10.8	NT
3.48	5.0	10.9	NT
3.93	4.9	11.0	NT
4.28	6.4	9.2	NT

MPF 12 ft bgs			
Shut off Blower 7/17/1997 9:33:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.07	19.2	0.8	70
0.16	19.1	0.9	65
0.31	18.8	1.1	75
0.48	18.2	1.2	40
0.95	16.8	1.9	145
1.02	16.1	2.0	140
1.12	15.8	2.1	180
1.22	15.0	2.3	95
1.29	15.1	2.5	200
1.45	14.0	2.8	185
1.53	14.0	2.9	270
1.95	12.2	3.4	230
2.04	12.1	3.5	350
2.17	11.0	3.7	200
2.26	10.7	3.9	230
2.38	9.9	4.1	300
2.46	9.9	4.2	380
2.53	9.2	4.4	340
2.95	7.9	5.2	400
3.07	7.5	5.3	NT
3.18	7.0	5.5	NT
3.28	6.7	5.6	NT
3.41	5.8	6.2	NT
3.49	5.9	6.4	NT
3.93	5.1	6.9	NT
4.29	8.0	6.1	NT

MPF 17 ft bgs			
Shut off Blower 7/17/1997 9:33:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.07	12.0	5.9	480
0.16	11.5	6.0	460
0.31	11.2	6.0	480
0.48	10.5	6.2	430
0.95	8.2	7.1	550
1.02	7.5	7.5	550
1.12	7.0	7.5	640
1.22	6.1	15.5	710
1.29	5.8	8.0	710
1.46	4.2	8.4	675
1.53	4.8	8.1	720
1.95	2.9	9.0	615
2.04	2.1	9.3	770
2.17	1.9	9.3	625
2.27	1.5	9.7	620
2.38	1.5	9.3	720
2.46	1.0	10.0	740
2.53	0.9	11.1	750
2.95	0.1	11.2	830
3.07	0.3	11.0	NT
3.18	0.2	10.8	NT
3.28	0.1	10.7	NT
3.42	0.1	10.9	NT
3.49	0.1	11.2	NT
3.93	0.6	11.1	NT
4.29	0.1	11.7	NT

MPF 7 ft bgs			
Shut off Blower 7/17/1997 9:33:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.07	18.8	2.0	200
0.16	18.6	3.0	190
0.31	18.4	8.0	195
0.47	18.5	3.0	155
0.94	17.8	3.2	140
1.02	17.4	3.3	220
1.12	17.1	3.3	265
1.22	16.8	3.4	180
1.29	17.1	3.4	285
1.45	16.5	3.6	250
1.53	16.4	3.4	320
1.95	15.9	3.7	245
2.04	15.4	3.7	265
2.17	14.9	3.7	205
2.26	15.0	3.7	235
2.38	14.6	3.7	290
2.46	14.1	3.9	360
2.53	13.9	4.0	320
2.95	12.7	4.3	370
3.07	12.2	4.3	NT
3.18	12.0	4.3	NT
3.28	11.8	4.4	NT
3.41	10.9	4.8	NT
3.49	10.9	4.8	NT
3.93	9.9	5.1	NT
4.29	8.9	5.3	NT

MPG 12 ft bgs			
Shut off Blower 7/17/1997 9:33:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.05	7.2	12.2	545
0.14	6.5	13.2	520
0.27	7.3	11.9	525
0.46	6.1	12.6	525
0.92	6.8	12.9	580
1.00	6.8	13.0	585
1.08	6.3	12.9	435
1.09	6.2	12.9	660
1.20	6.0	13.2	730
1.27	6.0	13.5	780
1.44	5.2	13.7	700
1.51	6.0	12.9	680
1.93	5.4	13.0	575
2.02	5.1	13.2	630
2.15	4.9	13.1	620
2.25	4.9	13.1	640
2.36	4.8	13.0	675
2.44	5.0	13.0	675
2.52	4.5	13.3	720
2.93	3.4	14.2	800
3.05	4.0	14.0	NT
3.17	4.0	14.1	NT
3.27	4.0	13.9	NT
3.40	3.7	14.1	NT
3.47	3.6	14.8	NT
3.92	3.9	14.9	NT
4.27	3.0	15.2	NT

MPG 17 ft bgs			
Shut off Blower 7/17/1997 9:33:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.05	0.1	19.0	700
0.14	0.4	19.0	655
0.27	1.0	17.0	670
0.46	1.3	17.5	650
0.93	1.3	17.9	705
1.00	0.6	19.0	740
1.08	0.8	18.1	560
1.09	0.8	18.0	820
1.21	0.1	19.0	925
1.27	0.2	18.9	945
1.44	0.0	19.0	910
1.51	0.4	17.9	870
1.93	0.5	17.8	730
2.02	0.1	18.1	800
2.15	0.2	17.5	750
2.25	0.1	17.8	800
2.37	0.3	17.1	830
2.44	0.1	17.1	800
2.52	0.0	17.9	905
2.93	0.0	19.1	995
3.06	0.2	18.1	NT
3.17	0.2	17.9	NT
3.27	0.2	17.9	NT
3.40	0.0	18.5	NT
3.47	0.0	18.9	NT
3.92	0.6	17.1	NT
4.28	0.0	19.0	NT

MPG 7 ft bgs			
Shut off Blower 7/17/1997 9:33:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.05	11.9	9.5	500
0.14	11.6	9.7	460
0.27	12.0	8.8	280
0.29	12.0	9.1	460
0.46	12.0	9.1	530
0.92	11.2	9.7	510
1.00	11.0	10.0	510
1.08	10.8	9.8	380
1.09	10.8	9.9	570
1.20	10.5	10.1	620
1.27	10.1	10.1	690
1.44	10.1	10.2	600
1.51	10.2	10.0	615
1.93	9.8	10.1	520
2.02	9.3	10.2	560
2.15	9.1	10.2	540
2.25	9.2	10.0	550
2.36	9.0	10.1	595
2.44	9.0	10.3	600
2.52	9.0	10.5	645
2.93	7.9	11.1	720
3.05	8.0	11.0	NT
3.17	8.0	11.0	NT
3.27	8.0	10.9	NT
3.40	7.5	11.1	NT
3.47	7.6	11.1	NT
3.92	7.5	11.0	NT
4.27	6.6	12.0	NT

MPH 12 ft bgs			
Shut off Blower 7/17/1997 9:33:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.05	19.5	0.8	120
0.15	18.9	0.8	115
0.30	18.9	0.9	90
0.46	18.8	1.0	45
0.93	16.8	1.4	110
1.00	16.8	1.5	160
1.11	16.1	1.7	770
1.21	15.4	1.8	190
1.28	15.9	1.9	200
1.44	14.5	2.1	195
1.52	14.1	2.2	260
1.93	12.3	2.9	180
2.03	12.1	3.1	290
2.16	11.2	3.2	210
2.25	10.9	3.3	280
2.37	10.4	3.5	265
2.44	10.0	3.6	340
2.52	9.8	3.8	350
2.93	8.1	4.6	405
3.06	8.0	4.7	NT
3.17	7.5	4.8	NT
3.27	7.0	4.9	NT
3.40	6.4	5.2	NT
3.48	6.3	5.4	NT
3.92	5.6	6.0	NT
4.28	5.0	7.4	NT

MPH 17 ft bgs			
Shut off Blower 7/17/1997 9:33:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.06	17.0	2.6	475
0.15	16.0	3.0	475
0.30	14.0	3.5	490
0.46	12.2	4.0	440
0.93	7.6	5.9	600
0.94	8.0	5.5	555
1.00	6.5	6.5	640
1.11	5.4	6.9	570
1.21	4.2	7.2	815
1.28	3.9	7.5	880
1.44	2.0	8.1	830
1.52	2.1	8.1	850
1.94	0.8	9.3	715
2.03	0.4	9.8	840
2.16	0.3	9.7	760
2.25	0.2	10.0	805
2.37	0.5	9.8	815
2.44	0.9	9.5	820
2.52	0.0	10.1	925
2.94	0.0	11.1	995
3.06	0.2	10.8	NT
3.17	0.1	10.8	NT
3.27	0.2	10.8	NT
3.40	0.0	11.0	NT
3.48	0.2	1.0	NT
3.92	0.3	11.0	NT
4.28	1.0	11.5	NT

MPH 7 ft bgs			
Shut off Blower 7/17/1997 9:33:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.05	19.8	0.8	95
0.14	19.2	0.8	95
0.30	19.8	0.9	25
0.46	19.3	0.9	70
0.93	18.8	1.2	100
1.00	18.6	1.4	160
1.11	18.8	1.4	110
1.21	17.9	1.5	190
1.27	18.4	1.5	190
1.44	17.5	1.6	160
1.52	17.4	1.6	220
1.93	16.4	2.1	140
2.03	16.3	2.1	220
2.16	15.7	2.1	160
2.25	15.1	2.1	240
2.37	15.3	2.1	185
2.44	15.0	2.2	270
2.52	14.8	2.4	260
2.93	14.3	2.9	220
3.06	13.0	3.0	NT
3.17	12.3	3.0	NT
3.27	12.1	3.1	NT
3.40	11.6	3.3	NT
3.48	11.4	3.5	NT
3.92	10.0	3.8	NT
4.28	10.1	4.3	NT

RESPIRATION TEST DATA

and

LINEAR REGRESSION RESULTS

October 1997

SUMMARY OUTPUT

MPA 7 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.973
R Square	0.947
Adjusted R Square	0.938
Standard Error	0.719
Observations	8

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	55.42	55.421	107.3	4.74E-05
Residual	6	3.10	0.516		
Total	7	58.52			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	15.31	0.48	31.68	6.58E-08	14.13	16.49	14.13	16.49
X Variable 1	-7.88	0.76	-10.36	4.74E-05	-9.74	-6.02	-9.74	-6.02

SUMMARY OUTPUT MPA 12 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.967
R Square	0.935
Adjusted R Square	0.929
Standard Error	0.957
Observations	14

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	157.46	157.458	171.8	1.80E-08
Residual	12	11.00	0.917		
Total	13	168.46			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	15.17	0.45	33.56	3.11E-13	14.19	16.15	14.19	16.15
X Variable 1	-5.28	0.40	-13.11	1.80E-08	-6.16	-4.40	-6.16	-4.40

SUMMARY OUTPUT MPB 7 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.992
R Square	0.983
Adjusted R Square	0.982
Standard Error	0.422
Observations	17

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	158.79	158.785	892.1	8.87E-15
Residual	15	2.67	0.178		
Total	16	161.46			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	20.16	0.18	110.86	2.83E-23	19.77	20.55	19.77	20.55
X Variable 1	-1.96	0.07	-29.87	8.87E-15	-2.10	-1.82	-2.10	-1.82

SUMMARY OUTPUT

MPB 12 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.992
R Square	0.983
Adjusted R Square	0.983
Standard Error	0.678
Observations	24

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	594.25	594.251	1292.6	4.89E-21
Residual	22	10.11	0.460		
Total	23	604.37			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	19.43	0.21	94.61	3.24E-30	19.00	19.86	19.00	19.86
X Variable 1	-3.37	0.09	-35.95	4.89E-21	-3.56	-3.17	-3.56	-3.17

SUMMARY OUTPUT MPB 17 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.993
R Square	0.987
Adjusted R Square	0.983
Standard Error	0.296
Observations	6

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	25.76	25.764	294.6	6.76E-05
Residual	4	0.35	0.087		
Total	5	26.11			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	15.90	0.25	63.92	3.59E-07	15.21	16.59	15.21	16.59
X Variable 1	-28.49	1.66	-17.16	6.76E-05	-33.10	-23.88	-33.10	-23.88

SUMMARY OUTPUT

MPC 7 ft bgs Regression of linear portion of oxygen versus time plot

<i>Regression Statistics</i>	
Multiple R	0.986
R Square	0.972
Adjusted R Square	0.970
Standard Error	0.492
Observations	17

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	126.66	126.662	522.4	4.52E-13
Residual	15	3.64	0.242		
Total	16	130.30			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	20.04	0.20	98.35	1.70E-22	19.60	20.47	19.60	20.47
X Variable 1	-1.81	0.08	-22.86	4.52E-13	-1.98	-1.64	-1.98	-1.64

SUMMARY OUTPUT

MPC 12 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.989
R Square	0.977
Adjusted R Square	0.976
Standard Error	0.545
Observations	14

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	154.68	154.683	520.6	2.98E-11
Residual	12	3.57	0.297		
Total	13	158.25			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	18.02	0.25	72.97	2.92E-17	17.48	18.56	17.48	18.56
X Variable 1	-4.38	0.19	-22.82	2.98E-11	-4.80	-3.96	-4.80	-3.96

SUMMARY OUTPUT MPD 7 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.939
R Square	0.881
Adjusted R Square	0.873
Standard Error	0.815
Observations	17

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	73.62	73.618	111.0	2.51E-08
Residual	15	9.95	0.664		
Total	16	83.57			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	20.88	0.35	58.89	3.66E-19	20.12	21.63	20.12	21.63
X Variable 1	-1.40	0.13	-10.53	2.51E-08	-1.68	-1.12	-1.68	-1.12

SUMMARY OUTPUT

MPD 12 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.997
R Square	0.994
Adjusted R Square	0.993
Standard Error	0.361
Observations	19

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	352.39	352.391	2697.7	3.58E-20
Residual	17	2.22	0.131		
Total	18	354.61			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	21.60	0.15	141.18	1.55E-27	21.28	21.92	21.28	21.92
X Variable 1	-3.08	0.06	-51.94	3.58E-20	-3.21	-2.95	-3.21	-2.95

SUMMARY OUTPUT

MPD 17 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.993
R Square	0.985
Adjusted R Square	0.984
Standard Error	0.592
Observations	14

ANOVA				
	df	SS	MS	Significance F
Regression	1	283.83	283.833	808.9
Residual	12	4.21	0.351	2.21E-12
Total	13	288.04		

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	20.41	0.26	77.49	1.42E-17	19.83	20.98	19.83	20.98
X Variable 1	-14.67	0.52	-28.44	2.21E-12	-15.80	-13.55	-15.80	-13.55

SUMMARY OUTPUT

MPE 7 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.989
R Square	0.979
Adjusted R Square	0.977
Standard Error	0.554
Observations	17

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	209.62	209.617	683.0	6.34E-14
Residual	15	4.60	0.307		
Total	16	214.22			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	18.52	0.23	81.15	3.03E-21	18.04	19.01	18.04	19.01
X Variable 1	-2.32	0.09	-26.14	6.34E-14	-2.51	-2.13	-2.51	-2.13

SUMMARY OUTPUT

MPE 12 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.993
R Square	0.986
Adjusted R Square	0.985
Standard Error	0.511
Observations	15

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	238.42	238.420	911.7	2.00E-13
Residual	13	3.40	0.262		
Total	14	241.82			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	19.27	0.22	88.05	1.96E-19	18.80	19.74	18.80	19.74
X Variable 1	-6.09	0.20	-30.19	2.00E-13	-6.53	-5.65	-6.53	-5.65

SUMMARY OUTPUT

MPE 17 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.942
R Square	0.887
Adjusted R Square	0.850
Standard Error	1.063
Observations	5

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	26.68	26.676	23.6	1.67E-02
Residual	3	3.39	1.131		
Total	4	30.07			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	14.00	1.63	8.58	3.33E-03	8.81	19.20	8.81	19.20
X Variable 1	-23.92	4.92	-4.86	1.67E-02	-39.59	-8.25	-39.59	-8.25

SUMMARY OUTPUT

MPF 7 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.959
R Square	0.920
Adjusted R Square	0.914
Standard Error	0.737
Observations	16

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	87.51	87.506	160.9	4.57E-09
Residual	14	7.61	0.544		
Total	15	95.12			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	20.79	0.32	64.72	9.55E-19	20.10	21.47	20.10	21.47
X Variable 1	-1.54	0.12	-12.69	4.57E-09	-1.80	-1.28	-1.80	-1.28

SUMMARY OUTPUT MPF 12 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.993
R Square	0.987
Adjusted R Square	0.986
Standard Error	0.585
Observations	22

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	520.78	520.784	1520.4	2.41E-20
Residual	20	6.85	0.343		
Total	21	527.63			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	21.09	0.19	111.59	1.98E-29	20.70	21.48	20.70	21.48
X Variable 1	-3.12	0.08	-38.99	2.41E-20	-3.28	-2.95	-3.28	-2.95

SUMMARY OUTPUT

MPF 17 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.983
R Square	0.966
Adjusted R Square	0.962
Standard Error	0.531
Observations	10

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	64.13	64.126	227.5	3.69E-07
Residual	8	2.26	0.282		
Total	9	66.38			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	18.34	0.38	48.81	3.44E-11	17.47	19.21	17.47	19.21
X Variable 1	-9.40	0.62	-15.08	3.69E-07	-10.84	-7.97	-10.84	-7.97

SUMMARY OUTPUT

MPG 7 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.952
R Square	0.906
Adjusted R Square	0.899
Standard Error	0.604
Observations	16

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	48.98	48.977	134.4	1.45E-08
Residual	14	5.10	0.364		
Total	15	54.08			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	19.03	0.26	72.38	2.00E-19	18.47	19.60	18.47	19.60
X Variable 1	-1.15	0.10	-11.59	1.45E-08	-1.37	-0.94	-1.37	-0.94

SUMMARY OUTPUT MPG 12 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.951
R Square	0.905
Adjusted R Square	0.900
Standard Error	0.938
Observations	23

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	175.49	175.486	199.4	3.42E-12
Residual	21	18.48	0.880		
Total	22	193.96			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	14.87	0.30	49.43	3.22E-23	14.24	15.49	14.24	15.49
X Variable 1	-1.89	0.13	-14.12	3.42E-12	-2.17	-1.61	-2.17	-1.61

SUMMARY OUTPUT MPH 7 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.933
R Square	0.870
Adjusted R Square	0.861
Standard Error	0.832
Observations	16

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	65.04	65.044	94.0	1.37E-07
Residual	14	9.69	0.692		
Total	15	74.73			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	20.91	0.36	57.68	4.76E-18	20.13	21.69	20.13	21.69
X Variable 1	-1.33	0.14	-9.69	1.37E-07	-1.62	-1.03	-1.62	-1.03

SUMMARY OUTPUT

MPH 12 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.991
R Square	0.982
Adjusted R Square	0.980
Standard Error	0.417
Observations	12

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	95.22	95.216	547.0	4.62E-10
Residual	10	1.74	0.174		
Total	11	96.96			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	21.59	0.21	101.37	2.14E-16	21.12	22.07	21.12	22.07
X Variable 1	-3.16	0.13	-23.39	4.62E-10	-3.46	-2.86	-3.46	-2.86

SUMMARY OUTPUT

MPH 17 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.990
R Square	0.980
Adjusted R Square	0.978
Standard Error	0.579
Observations	13

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	176.34	176.342	525.7	1.23E-10
Residual	11	3.69	0.335		
Total	12	180.03			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	20.01	0.30	67.11	9.97E-16	19.36	20.67	19.36	20.67
X Variable 1	-11.19	0.49	-22.93	1.23E-10	-12.27	-10.12	-12.27	-10.12

MPA 12 ft bgs			
Shut off Blower 10/21/1997 8:03:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	16.0	4.3	365
0.09	15.1	4.2	380
0.18	15.2	4.1	360
0.29	14.0	4.9	380
0.40	12.9	5.1	400
0.46	12.0	5.0	400
0.54	13.0	5.5	410
0.77	12.0	6.1	440
0.94	9.0	6.5	470
1.05	7.5	7.0	440
1.17	8.3	7.0	430
1.34	8.0	7.0	480
1.56	7.0	7.5	480
1.93	6.0	8.2	440
2.22	4.0	9.0	160
2.53	4.5	9.0	190
2.98	2.1	11.0	200
2.99	2.1	10.5	430
3.29	2.3	11.5	240
3.58	2.0	12.5	240
3.98	0.8	13.5	220
4.31	1.1	13.0	210
4.91	0.5	14.5	260

MPA 7 ft bgs			
Shut off Blower 10/21/1997 8:03:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	16.0	5.0	460
0.00	15.9	4.9	480
0.19	14.0	5.2	500
0.41	11.2	6.4	560
0.45	11.0	6.5	580
0.52	11.0	6.5	580
0.78	10.3	7.3	620
0.93	8.0	8.0	620
1.03	7.0	8.5	160
1.12	5.0	8.0	200
1.18	7.7	8.4	180
1.28	7.0	8.5	180
1.35	7.5	8.5	240
1.47	6.0	9.0	280
1.58	6.0	9.0	240
1.93	5.8	9.8	180
2.22	5.1	9.9	150
2.53	5.0	10.0	200
2.98	3.0	11.7	210
3.29	3.9	11.5	240
3.57	3.1	12.5	240
3.98	2.0	14.0	220
4.31	2.1	12.5	210
4.91	1.8	13.5	240

MPB 12 ft bgs			
Shut off Blower 10/21/1997 8:03:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	19.0	1.3	230
0.05	20.0	0.8	170
0.09	19.3	0.8	220
0.18	19.5	1.0	200
0.28	18.8	1.1	0
0.30	19.0	1.1	180
0.39	18.1	1.2	210
0.46	17.5	1.0	210
0.54	18.0	1.3	240
0.76	17.5	1.8	240
0.94	16.0	2.0	260
1.05	15.5	2.0	280
1.17	15.3	2.2	270
1.34	14.0	2.0	360
1.56	14.0	2.5	320
1.94	13.6	1.9	320
2.22	11.0	3.3	300
2.53	10.0	3.5	280
2.99	9.0	4.6	300
3.29	7.5	5.1	350
3.58	7.0	5.9	360
3.98	5.5	6.5	380
4.31	6.0	6.1	390
4.91	4.3	8.0	200

MPB 17 ft bgs			
Shut off Blower 10/21/1997 8:03:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	15.0	5.2	120
0.00	14.5	5.0	480
0.04	15.0	5.0	440
0.08	13.5	5.0	520
0.11	12.5	5.5	500
0.13	12.3	5.7	500
0.17	11.5	5.9	500
0.27	8.2	7.1	140
0.31	8.0	7.3	490
0.38	6.9	7.8	500
0.45	6.0	8.0	520
0.53	6.0	8.5	540
0.61	4.8	9.5	200
0.76	4.0	10.5	220
0.91	2.0	10.5	200
1.03	0.3	12.0	200
1.12	0.0	11.5	250

MPB 7 ft bgs			
Shut off Blower 10/21/1997 8:03:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	20.0	7.5	210
0.19	20.0	0.6	130
0.41	19.1	0.7	160
0.62	19.2	0.7	200
0.92	18.5	0.8	180
1.18	17.2	0.8	250
1.45	17.0	0.8	240
1.94	16.1	1.0	200
2.23	16.0	1.0	200
2.54	16.0	1.0	200
3.00	15.1	1.8	220
3.30	13.5	1.8	280
3.59	13.0	2.1	280
3.99	12.2	2.3	300
4.32	11.5	2.5	270
4.33	12.0	2.5	300
4.92	10.0	3.0	320

MPC 12 ft bgs			
Shut off Blower 10/21/1997 8:03:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	19.0	1.2	200
0.09	18.2	1.2	240
0.18	17.9	1.7	220
0.30	16.9	2.4	240
0.39	16.0	2.8	270
0.46	15.0	3.0	280
0.54	15.0	3.3	280
0.77	15.0	3.8	300
1.04	13.5	4.0	320
1.17	13.2	4.2	320
1.34	12.0	4.5	400
1.56	11.0	5.0	400
1.94	8.9	6.1	320
2.22	9.0	5.3	300
2.53	7.0	7.0	310
2.98	6.0	8.0	140
3.29	7.9	6.8	330
3.58	6.8	7.9	340
3.98	6.8	7.3	340
4.31	7.2	6.5	320
4.33	6.5	7.8	340
4.91	5.8	8.9	200

MPC 7 ft bgs			
Shut off Blower 10/21/1997 8:03:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	19.5	0.7	190
0.20	19.8	0.7	170
0.41	19.0	0.8	170
0.52	19.5	0.8	160
0.78	19.2	0.9	180
1.06	18.1	1.0	190
1.18	17.0	1.0	250
1.45	18.0	1.0	280
1.95	16.0	1.7	220
2.23	16.0	1.5	210
2.54	16.0	1.8	220
3.00	15.0	2.3	220
3.31	14.5	2.5	280
3.59	13.0	3.0	280
3.99	12.8	3.0	280
4.32	12.5	3.0	300
4.92	10.6	3.5	300

MPD 12 ft bgs			
Shut off Blower 10/21/1997 8:03:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	20.0	0.2	180
0.04	20.5	0.3	100
0.08	20.5	0.1	175
0.18	20.5	0.1	160
0.28	20.5	0.0	0
0.30	20.8	0.1	100
0.39	20.1	0.2	120
0.62	19.9	0.2	140
0.92	19.0	0.3	160
1.05	18.8	0.4	90
1.17	18.1	0.3	150
1.46	17.0	0.3	210
1.94	15.7	0.5	210
2.22	15.0	2.0	160
2.27	15.0	0.5	50
2.53	13.5	0.5	120
2.98	12.0	5.0	150
2.99	12.0	1.2	160
3.29	11.0	1.6	200
3.58	10.1	2.2	220
3.98	9.1	2.6	260
4.31	8.9	2.7	260
4.91	7.0	3.8	320

MPD 17 ft bgs			
Shut off Blower 10/21/1997 8:03:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	19.1	0.8	250
0.03	20.0	0.8	160
0.03	20.0	0.8	180
0.07	19.0	0.9	260
0.10	18.8	1.0	280
0.13	18.3	1.1	220
0.16	18.1	1.4	240
0.26	16.3	1.7	28
0.31	16.1	1.9	300
0.38	15.0	2.2	340
0.45	13.5	2.5	370
0.53	13.0	3.0	400
0.61	12.0	3.1	440
0.75	10.8	3.8	500
0.91	6.0	4.5	480
1.02	5.0	5.0	120
1.11	1.9	5.3	170
1.19	4.0	5.8	170
1.28	3.8	6.0	180
1.35	3.0	6.5	220
1.47	2.0	6.5	300
1.57	1.5	7.0	240
1.93	1.1	8.1	190
2.21	0.0	8.5	180
2.53	1.0	9.0	220
2.97	0.5	9.5	230
3.28	0.0	10.8	280
3.57	0.0	11.0	280

MPD 7 ft bgs			
Shut off Blower 10/21/1997 8:03:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	19.3	0.3	220
0.20	20.8	0.1	110
0.40	19.7	0.1	120
0.62	20.2	0.2	140
0.92	20.0	0.3	80
1.18	18.9	0.2	180
1.45	19.0	0.3	200
1.95	18.1	0.4	120
2.23	18.5	0.3	120
2.54	18.5	0.0	200
3.00	17.5	0.3	80
3.01	17.5	0.3	70
3.31	17.0	0.4	140
3.59	15.2	0.5	140
3.99	15.0	0.5	150
4.32	14.5	0.9	160
4.92	12.5	0.8	210

MPE 12 ft bgs			
Shut off Blower 10/21/1997 8:03:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	18.0	0.7	200
0.05	19.5	0.8	160
0.09	19.0	0.8	210
0.18	18.5	1.0	220
0.29	17.5	1.5	195
0.39	17.0	1.8	220
0.45	16.0	2.0	240
0.54	16.0	2.3	240
0.77	15.0	3.1	280
0.93	13.0	3.8	300
1.05	12.0	3.8	330
1.17	12.1	4.0	310
1.34	11.0	4.5	400
1.57	9.0	5.0	360
1.94	7.9	6.1	320
2.22	6.5	6.5	300
2.53	6.0	7.0	320
2.98	4.5	7.9	320
3.29	4.5	7.4	350
3.58	4.0	9.0	370
3.98	3.5	9.2	360
4.31	3.6	9.1	380
4.33	3.5	9.3	370
4.91	2.6	10.9	220

MPE 17 ft bgs			
Shut off Blower 10/21/1997 8:03:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	7.2	11.0	200
0.04	9.0	9.5	600
0.08	9.5	8.8	620
0.11	9.0	9.0	600
0.11	9.0	9.0	170
0.13	10.0	8.5	170
0.17	11.0	8.0	160
0.27	6.7	9.9	165
0.32	5.5	10.5	545
0.38	4.9	11.0	570
0.45	4.0	11.0	580
0.53	4.0	11.5	600
0.61	4.0	12.2	215
0.76	3.1	13.0	240
0.91	0.3	14.0	240
1.03	0.5	12.0	200
1.12	0.0	13.5	260

MPE 7 ft bgs			
Shut off Blower 10/21/1997 8:03:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	18.8	1.1	230
0.20	18.5	1.4	180
0.40	17.5	1.5	210
0.52	18.0	1.8	210
0.78	17.3	2.0	230
0.93	16.0	2.3	240
1.18	14.7	2.2	300
1.46	15.0	2.5	360
1.95	13.0	3.3	280
2.23	13.0	3.5	240
2.54	13.0	3.5	280
3.00	11.5	4.2	280
3.31	11.5	4.5	320
3.59	10.0	4.9	330
3.99	8.8	5.0	310
4.32	8.8	5.0	310
4.92	7.5	5.8	340

MPF 12 ft bgs			
Shut off Blower 10/21/1997 8:03:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	19.9	0.3	160
0.05	20.5	0.1	50
0.05	20.5	0.1	120
0.09	20.5	0.3	175
0.18	20.4	0.4	160
0.28	20.3	0.3	0
0.39	20.0	0.5	130
0.54	19.5	0.3	150
0.77	19.8	0.6	110
1.04	19.0	0.5	140
1.16	18.3	0.7	140
1.46	17.0	0.5	260
1.94	15.2	1.1	190
2.23	14.0	1.0	200
2.53	13.0	1.5	220
2.99	11.6	2.3	190
3.30	9.9	2.8	250
3.30	10.6	2.7	290
3.58	10.0	3.2	300
3.98	8.2	3.5	280
4.32	8.0	4.7	280
4.91	6.0	4.8	340

MPF 17 ft bgs			
Shut off Blower 10/21/1997 8:03:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	16.9	3.1	420
0.03	18.0	2.8	340
0.08	17.1	3.0	430
0.11	17.0	3.0	380
0.13	17.0	3.1	380
0.16	17.2	2.8	360
0.26	15.2	3.5	70
0.31	15.5	3.8	440
0.38	14.6	3.9	450
0.45	14.0	4.0	460
0.53	13.0	4.0	480
0.61	13.1	4.5	490
0.75	12.1	5.0	540
0.91	10.0	5.5	560
1.03	8.0	6.0	120
1.11	5.7	6.1	180
1.19	7.5	6.3	160
1.28	7.0	6.5	180
1.35	7.0	6.5	220
1.47	5.0	7.0	280
1.57	5.0	7.5	220
1.93	4.1	8.2	180
2.22	3.0	8.5	160
2.22	3.0	8.5	160
2.52	3.0	9.0	200
2.98	1.1	10.2	200
3.28	1.9	10.5	240
3.57	1.3	11.0	240
3.97	0.4	11.5	220
4.31	0.9	11.0	210
4.90	0.2	12.0	240

MPF 7 ft bgs			
Shut off Blower 10/21/1997 8:03:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	19.7	0.2	180
0.20	20.1	0.4	110
0.40	19.9	0.4	120
0.62	20.0	0.5	150
0.92	20.0	0.5	120
1.18	18.2	0.5	200
1.46	19.0	0.3	240
1.95	17.9	0.5	140
2.24	18.0	0.3	140
2.54	18.0	0.3	120
3.00	17.0	0.6	110
3.31	16.5	0.7	150
3.59	14.5	0.8	160
3.99	14.3	0.8	180
4.33	14.0	0.8	180
4.92	12.1	1.0	240

MPG 12 ft bgs			
Shut off Blower 10/21/1997 8:03:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	15.5	4.0	350
0.10	15.8	3.5	340
0.19	16.0	3.6	320
0.29	15.0	4.1	220
0.39	14.4	4.3	350
0.46	14.0	4.5	360
0.54	11.0	7.0	360
0.63	14.0	4.5	360
0.77	14.1	4.8	370
0.93	13.0	5.0	400
1.05	12.0	5.0	400
1.17	12.9	5.0	380
1.34	12.0	5.0	480
1.57	11.0	5.5	400
1.94	10.7	5.9	340
2.23	10.0	4.0	340
2.53	9.8	6.0	340
2.99	9.0	6.8	350
3.30	8.1	7.0	380
3.58	8.0	7.5	390
3.98	7.2	7.5	400
4.32	8.2	6.5	370
4.91	6.1	8.1	440

MPG 7 ft bgs			
Shut off Blower 10/21/1997 8:03:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	18.0	0.8	220
0.20	19.1	0.7	160
0.40	18.9	0.8	180
0.62	18.9	0.9	200
0.92	18.0	1.3	200
1.18	16.8	1.2	260
1.46	17.5	1.3	310
1.95	16.4	1.8	230
2.24	16.5	1.8	210
2.54	17.0	1.8	220
3.00	16.1	2.2	220
3.31	16.0	2.3	260
3.60	14.2	2.6	270
3.99	14.2	2.7	280
4.33	14.2	2.5	290
4.92	12.8	3.1	340

MPH 12 ft bgs			
Shut off Blower 10/21/1997 8:03:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	19.5	0.4	200
0.04	20.5	0.8	180
0.08	20.5	0.4	190
0.17	20.5	0.4	160
0.27	20.5	0.3	0
0.30	20.5	0.4	100
0.38	20.0	0.5	160
0.53	19.5	0.3	160
0.76	19.6	0.6	140
1.04	19.0	0.5	140
1.16	18.3	0.6	120
1.47	17.0	0.5	260
1.94	15.4	0.8	190
2.23	15.0	0.8	190
2.53	13.0	1.0	220
2.99	12.0	1.8	220
3.30	12.5	2.0	280
3.59	11.0	2.5	300
3.99	9.0	3.0	280
4.32	8.2	3.1	300
4.91	6.8	4.0	340

MPH 17 ft bgs			
Shut off Blower 10/21/1997 8:03:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	19.0	0.8	310
0.03	19.5	1.0	240
0.07	19.1	0.9	280
0.10	18.2	1.1	340
0.13	18.6	1.3	270
0.16	18.5	1.3	260
0.26	16.9	1.9	24
0.31	16.5	2.1	330
0.38	15.9	2.4	330
0.45	15.0	2.8	360
0.53	14.0	3.0	380
0.61	13.9	3.3	400
0.75	12.5	3.8	440
0.90	10.0	4.5	460
1.02	9.0	5.0	480
1.11	6.3	4.7	140
1.19	6.7	5.5	150
1.28	6.0	6.0	140
1.35	5.8	6.0	200
1.47	5.0	6.0	660
1.57	3.0	7.0	220
1.93	2.8	7.9	150
2.21	3.0	8.0	580
2.21	1.0	8.0	140
2.22	2.0	8.0	140
2.22	2.0	8.0	140
2.52	1.5	8.5	200
2.97	0.0	10.0	210
3.28	1.0	10.0	220
3.57	0.9	10.8	230
4.33	0.4	10.9	240

MPH 7 ft bgs			
Shut off Blower 10/21/1997 8:03:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	19.8	0.2	180
0.20	20.0	0.1	100
0.40	20.0	0.2	120
0.63	20.5	0.1	120
0.93	20.0	0.3	74
1.19	18.5	0.0	170
1.47	20.0	0.3	210
1.95	18.4	0.3	86
2.24	19.0	0.0	100
2.54	18.0	0.0	76
3.01	18.0	0.0	70
3.31	17.5	0.0	190
3.60	15.6	0.3	110
3.99	15.2	0.0	120
4.33	15.0	0.0	140
4.92	13.0	0.6	180

RESPIRATION TEST DATA

and

LINEAR REGRESSION RESULTS

January 1998

SUMMARY OUTPUT MPA 7 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.989
R Square	0.978
Adjusted R Square	0.976
Standard Error	0.356
Observations	13

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	63.01	63.008	497.2	1.66E-10
Residual	11	1.39	0.127		
Total	12	64.40			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	18.22	0.17	108.64	5.03E-18	17.85	18.59	17.85	18.59
X Variable 1	-1.43	0.06	-22.30	1.66E-10	-1.57	-1.29	-1.57	-1.29

SUMMARY OUTPUT

MPA 12 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.993
R Square	0.986
Adjusted R Square	0.985
Standard Error	0.411
Observations	14

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	142.06	142.056	841.3	1.76E-12
Residual	12	2.03	0.169		
Total	13	144.08			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	16.61	0.18	94.10	1.39E-18	16.23	17.00	16.23	17.00
X Variable 1	-2.03	0.07	-29.00	1.76E-12	-2.18	-1.87	-2.18	-1.87

SUMMARY OUTPUT MPB 7 ft bgs Regression of linear portion of oxygen versus timeplot

Regression Statistics	
Multiple R	0.959
R Square	0.920
Adjusted R Square	0.912
Standard Error	0.428
Observations	13

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	23.05	23.055	125.7	2.33E-07
Residual	11	2.02	0.183		
Total	12	25.07			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	20.63	0.20	102.24	9.80E-18	20.19	21.08	20.19	21.08
X Variable 1	-0.86	0.08	-11.21	2.33E-07	-1.03	-0.70	-1.03	-0.70

SUMMARY OUTPUT

MPB 12 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.993
R Square	0.987
Adjusted R Square	0.986
Standard Error	0.365
Observations	14

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	118.85	118.852	891.8	1.24E-12
Residual	12	1.60	0.133		
Total	13	120.45			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	20.03	0.16	127.25	3.72E-20	19.68	20.37	19.68	20.37
X Variable 1	-1.86	0.06	-29.86	1.24E-12	-2.00	-1.72	-2.00	-1.72

SUMMARY OUTPUT MPB 17 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.997
R Square	0.994
Adjusted R Square	0.993
Standard Error	0.345
Observations	8

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	120.53	120.525	1011.5	6.42E-08
Residual	6	0.71	0.119		
Total	7	121.24			

Coefficients						
	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%
Intercept	0.20	85.28	1.75E-10	16.90	17.90	16.90
X Variable 1	0.23	-31.80	6.42E-08	-7.91	-6.78	-7.91
						Upper 95.0%
						17.90
						-6.78

SUMMARY OUTPUT

MPC 7 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.983
R Square	0.966
Adjusted R Square	0.963
Standard Error	0.424
Observations	13

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	56.88	56.881	315.9	1.89E-09
Residual	11	1.98	0.180		
Total	12	58.86			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	20.14	0.20	100.69	1.16E-17	19.70	20.58	19.70	20.58
X Variable 1	-1.36	0.08	-17.77	1.89E-09	-1.53	-1.19	-1.53	-1.19

SUMMARY OUTPUT

MPC 12 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	1.000
R Square	0.999
Adjusted R Square	0.999
Standard Error	0.088
Observations	4

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	22.48	22.485	2901.3	3.44E-04
Residual	2	0.02	0.008		
Total	3	22.50			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	20.02	0.07	280.72	1.27E-05	19.72	20.33	19.72	20.33
X Variable 1	-14.32	0.27	-53.86	3.44E-04	-15.46	-13.18	-15.46	-13.18

SUMMARY OUTPUT MPD 7 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.938
R Square	0.880
Adjusted R Square	0.869
Standard Error	0.469
Observations	13

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	17.74	17.745	80.7	2.13E-06
Residual	11	2.42	0.220		
Total	12	20.16			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	20.88	0.22	94.45	2.34E-17	20.39	21.37	20.39	21.37
X Variable 1	-0.76	0.08	-8.98	2.13E-06	-0.94	-0.57	-0.94	-0.57

SUMMARY OUTPUT

MPD 12 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.983
R Square	0.966
Adjusted R Square	0.963
Standard Error	0.626
Observations	14

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	133.34	133.345	340.3	3.58E-10
Residual	12	4.70	0.392		
Total	13	138.05			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	20.98	0.27	77.66	1.38E-17	20.39	21.56	20.39	21.56
X Variable 1	-1.97	0.11	-18.45	3.58E-10	-2.20	-1.74	-2.20	-1.74

SUMMARY OUTPUT

MPD 17 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.996
R Square	0.992
Adjusted R Square	0.990
Standard Error	0.470
Observations	8

ANOVA				
	df	SS	MS	Significance F
Regression	1	157.17	157.174	711.0
Residual	6	1.33	0.221	1.84E-07
Total	7	158.50		

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	19.45	0.28	69.90	5.77E-10	18.77	20.13	18.77	20.13
X Variable 1	-8.39	0.31	-26.67	1.84E-07	-9.16	-7.62	-9.16	-7.62

SUMMARY OUTPUT

MPE 7 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.988
R Square	0.977
Adjusted R Square	0.975
Standard Error	0.490
Observations	13

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	112.85	112.854	469.2	2.27E-10
Residual	11	2.65	0.241		
Total	12	115.50			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	19.05	0.23	82.37	1.05E-16	18.54	19.56	18.54	19.56
X Variable 1	-1.91	0.09	-21.66	2.27E-10	-2.11	-1.72	-2.11	-1.72

SUMMARY OUTPUT MPE 12 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.988
R Square	0.976
Adjusted R Square	0.974
Standard Error	0.727
Observations	11

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	194.79	194.791	368.7	1.30E-08
Residual	9	4.75	0.528		
Total	10	199.55			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	18.65	0.39	47.35	4.19E-12	17.75	19.54	17.75	19.54
X Variable 1	-3.90	0.20	-19.20	1.30E-08	-4.35	-3.44	-4.35	-3.44

SUMMARY OUTPUT MPE 17 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.998
R Square	0.997
Adjusted R Square	0.995
Standard Error	0.124
Observations	5

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	13.65	13.654	881.2	8.40E-05
Residual	3	0.05	0.015		
Total	4	13.70			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	11.52	0.09	127.29	1.07E-06	11.23	11.81	11.23	11.81
X Variable 1	-10.51	0.35	-29.68	8.40E-05	-11.63	-9.38	-11.63	-9.38

SUMMARY OUTPUT

MPF 7 ft bgs Regression of linear portion of oxygen versus timeplot

Regression Statistics	
Multiple R	0.953
R Square	0.909
Adjusted R Square	0.900
Standard Error	0.529
Observations	13

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	30.59	30.591	109.5	4.68E-07
Residual	11	3.07	0.279		
Total	12	33.66			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	20.99	0.25	84.17	8.29E-17	20.44	21.54	20.44	21.54
X Variable 1	-1.00	0.10	-10.47	4.68E-07	-1.21	-0.79	-1.21	-0.79

SUMMARY OUTPUT

MPF 12 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.989
R Square	0.979
Adjusted R Square	0.977
Standard Error	0.526
Observations	14

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	153.36	153.365	554.7	2.05E-11
Residual	12	3.32	0.276		
Total	13	156.68			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	20.95	0.23	92.29	1.75E-18	20.46	21.45	20.46	21.45
X Variable 1	-2.11	0.09	-23.55	2.05E-11	-2.31	-1.92	-2.31	-1.92

SUMMARY OUTPUT

MPF 17 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.993
R Square	0.986
Adjusted R Square	0.985
Standard Error	0.504
Observations	9

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	129.61	129.608	509.5	8.48E-08
Residual	7	1.78	0.254		
Total	8	131.39			

Coefficients							
	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	17.81	60.54	8.81E-11	17.11	18.51	17.11	18.51
X Variable 1	-4.26	-22.57	8.48E-08	-4.70	-3.81	-4.70	-3.81

SUMMARY OUTPUT MPG 7 ft bgs Regression of linear portion of oxygen versus timeplot

Regression Statistics	
Multiple R	0.984
R Square	0.968
Adjusted R Square	0.965
Standard Error	0.266
Observations	13

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	23.52	23.519	332.9	1.43E-09
Residual	11	0.78	0.071		
Total	12	24.30			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	19.94	0.13	158.99	7.64E-20	19.66	20.22	19.66	20.22
X Variable 1	-0.87	0.05	-18.25	1.43E-09	-0.98	-0.77	-0.98	-0.77

SUMMARY OUTPUT

MPG 12 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.998
R Square	0.996
Adjusted R Square	0.995
Standard Error	0.155
Observations	14

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	65.82	65.823	2742.1	1.55E-15
Residual	12	0.29	0.024		
Total	13	66.11			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	16.74	0.07	250.20	1.12E-23	16.60	16.89	16.60	16.89
X Variable 1	-1.39	0.03	-52.37	1.55E-15	-1.44	-1.33	-1.44	-1.33

SUMMARY OUTPUT

MPH 7 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.918
R Square	0.843
Adjusted R Square	0.828
Standard Error	0.443
Observations	13

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	11.58	11.578	58.9	9.65E-06
Residual	11	2.16	0.197		
Total	12	13.74			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	20.85	0.21	99.66	1.30E-17	20.39	21.31	20.39	21.31
X Variable 1	-0.61	0.08	-7.68	9.65E-06	-0.79	-0.44	-0.79	-0.44

SUMMARY OUTPUT MPH 12 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.981
R Square	0.963
Adjusted R Square	0.959
Standard Error	0.528
Observations	14

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	86.11	86.107	309.0	6.26E-10
Residual	12	3.34	0.279		
Total	13	89.45			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	20.81	0.23	91.25	2.01E-18	20.31	21.31	20.31	21.31
X Variable 1	-1.58	0.09	-17.58	6.26E-10	-1.78	-1.39	-1.78	-1.39

SUMMARY OUTPUT MPH 17 ft bgs Regression of linear portion of oxygen versus time plot

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.995
R Square	0.991
Adjusted R Square	0.990
Standard Error	0.468
Observations	9

ANOVA					
	df	SS	MS	Significance F	
Regression	1	168.47	168.470	770.7	2.02E-08
Residual	7	1.53	0.219		
Total	8	170.00			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	19.07	0.25	75.77	1.84E-11	18.48	19.67	18.48	19.67
X Variable 1	-5.75	0.21	-27.76	2.02E-08	-6.24	-5.26	-6.24	-5.26

MPA 12 ft bgs			
Shut off Blower 1/26/1998 9:45:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	17.0	3.0	120
0.14	16.5	3.0	100
0.21	16.0	3.0	98
0.44	16.0	3.3	98
0.94	15.0	3.5	NR
1.18	14.0	4.0	320
1.46	13.0	4.0	280
1.92	12.0	4.5	290
2.16	12.0	4.5	290
2.92	11.0	5.8	310
3.33	10.3	5.6	310
3.95	9.1	5.5	650
4.26	8.1	6.2	780
4.82	6.5	6.9	920
0.00	20.5	0.5	400
0.13	1.0	14.5	300
0.16	1.0	13.5	920
0.24	1.0	14.0	820
0.48	1.0	14.0	720
0.96	0.5	14.5	1700
2.17	0.2	14.0	1200

MPA 7 ft bgs			
Shut off Blower 1/26/1998 9:45:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	19.0	2.0	190
0.14	18.0	2.0	160
0.46	17.0	2.0	160
0.97	17.0	2.5	420
1.20	16.5	2.5	380
1.45	16.0	4.0	340
1.91	15.0	3.0	360
2.15	15.0	3.0	360
2.91	14.0	3.5	360
3.32	13.8	3.3	360
3.93	12.8	3.4	370
4.24	12.0	3.9	360
4.80	11.5	4.0	380

MPB 12 ft bgs			
Shut off Blower 1/26/1998 9:45:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	20.0	0.5	70
0.14	19.0	0.5	60
0.25	19.5	0.5	40
0.45	19.0	0.5	54
0.94	19.0	0.5	NR
1.19	18.0	0.8	200
1.46	17.5	0.8	160
1.92	16.5	1.0	170
2.17	16.0	1.0	190
2.92	15.0	1.8	180
3.33	14.0	1.5	200
3.94	12.5	2.2	210
4.25	11.8	2.8	220
4.81	11.0	4.1	220

MPB 17 ft bgs			
Shut off Blower 1/26/1998 9:45:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	17.5	2.5	140
0.13	16.5	2.8	120
0.25	16.0	3.0	110
0.47	13.5	3.5	120
0.97	10.0	4.8	400
1.18	8.5	5.5	380
1.20	8.6	5.5	1000
1.47	7.0	6.5	1000
1.93	5.0	7.5	950
2.17	4.3	7.8	990
2.93	3.0	9.0	1500
3.34	2.5	9.0	880

MPB 7 ft bgs			
Shut off Blower 1/26/1998 9:45:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	20.9	0.2	46
0.15	20.0	0.0	48
0.46	20.0	0.0	44
0.97	19.0	0.3	170
1.20	20.0	0.3	180
1.45	20.0	0.5	120
1.91	19.0	0.5	120
2.16	19.0	0.3	120
2.91	18.5	0.6	100
3.32	18.0	0.5	110
3.93	17.2	0.5	105
4.24	16.8	0.6	100
4.80	16.1	0.6	110

MPC 12 ft bgs			
Shut off Blower 1/26/1998 9:45:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	20.0	0.5	70
0.14	18.0	1.0	72
0.25	16.5	1.5	72
0.45	13.5	3.0	88
0.94	13.0	3.5	NR
1.19	12.0	4.0	300
1.46	12.5	4.0	260
1.92	12.0	4.0	260
2.17	11.8	4.0	270
2.92	5.0	8.0	300
2.93	4.5	8.5	1400
3.34	4.0	9.0	900
3.94	8.5	5.6	620
3.96	8.8	5.6	680
4.26	8.0	6.0	720
4.81	6.0	6.8	880

MPC 17 ft bgs			
Shut off Blower 1/26/1998 9:45:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	20.9	0.3	400
0.13	2.0	14.0	320
0.16	20.0	0.5	0
0.17	3.0	13.0	820
0.24	2.5	13.5	840
0.48	2.0	12.5	660
0.96	1.0	13.0	1600
2.18	0.5	13.5	1100

MPC 7 ft bgs			
Shut off Blower 1/26/1998 9:45:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	20.5	0.3	56
0.15	19.5	0.5	50
0.46	19.5	0.5	52
0.97	19.0	0.5	180
1.20	18.5	0.5	180
1.46	18.0	0.8	140
1.91	17.5	0.8	140
2.16	17.3	0.8	160
2.92	17.0	1.0	130
3.32	15.0	1.1	180
3.93	14.2	1.3	160
4.24	14.8	1.8	160
4.80	13.8	2.0	170

MPD 12 ft bgs			
Shut off Blower 1/26/1998 9:45:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	20.9	0.0	42
0.14	20.0	0.0	48
0.25	20.0	0.0	30
0.45	20.0	0.0	40
0.94	19.0	0.0	NR
1.19	19.0	0.0	160
1.46	18.8	0.3	100
1.92	18.0	0.1	95
2.17	17.8	0.1	100
2.92	15.0	0.6	70
3.33	14.0	0.5	110
3.94	12.1	0.5	110
4.25	12.5	0.8	100
4.81	11.9	0.9	120

MPD 17 ft bgs			
Shut off Blower 1/26/1998 9:45:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	20.0	0.5	100
0.13	18.5	0.5	84
0.25	17.0	0.8	72
0.47	15.0	1.0	98
0.97	11.0	2.0	300
1.18	9.5	2.5	300
1.21	10.0	2.5	630
1.47	7.0	3.3	620
1.93	4.3	4.0	620
2.18	3.5	4.3	700
2.93	1.0	6.0	1000
3.34	0.8	6.8	780

Shut off Blower 1/26/1998 9:45:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	20.9	0.0	34
0.15	20.0	0.0	40
0.46	20.0	0.0	46
0.98	20.5	0.0	140
1.20	20.0	0.0	140
1.46	20.0	0.0	98
1.92	20.0	0.1	96
2.16	20.0	0.0	100
2.92	19.0	0.5	50
3.32	18.0	0.0	68
3.93	17.9	0.0	16
4.25	17.3	0.0	18
4.80	17.0	0.1	14

MPE 12 ft bgs			
Shut off Blower 1/26/1998 9:45:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	20.0	0.3	58
0.14	19.0	0.5	58
0.26	18.5	0.5	52
0.45	17.0	1.0	62
0.95	14.0	2.0	NR
1.19	13.0	2.5	280
1.46	12.0	3.5	220
1.92	11.0	4.0	260
2.17	10.5	4.0	260
2.92	7.5	6.0	280
2.93	7.5	6.0	1000
3.34	6.0	6.5	760
3.95	6.1	6.1	660
4.26	6.0	6.8	780
4.82	5.0	7.0	880

MPE 17 ft bgs			
Shut off Blower 1/26/1998 9:45:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	11.5	7.0	180
0.13	10.0	7.0	140
0.16	10.0	7.0	480
0.24	9.0	17.0	540
0.47	6.5	8.0	500
0.96	5.0	14.5	1300
1.48	3.3	10.5	1400
1.93	2.5	11.0	1100
2.18	2.0	11.0	1000
2.94	1.0	12.0	1600

MPE 7 ft bgs			
Shut off Blower 1/26/1998 9:45:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	20.0	0.5	64
0.15	19.0	0.8	62
0.46	18.0	0.5	62
0.98	17.0	1.0	220
1.20	16.5	1.0	220
1.46	16.0	1.5	180
1.92	15.0	1.8	200
2.16	15.0	1.5	200
2.92	13.0	2.8	210
3.32	12.0	2.8	230
3.93	12.0	2.6	180
4.25	11.0	3.1	200
4.81	10.5	3.5	220

MPF 12 ft bgs			
Shut off Blower 1/26/1998 9:45:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	20.5	0.0	44
0.14	20.0	0.0	44
0.26	20.0	0.0	40
0.46	20.0	0.0	40
0.95	19.5	0.3	NR
1.19	19.0	0.5	180
1.47	18.5	0.5	120
1.92	17.3	0.6	140
2.17	17.0	0.6	240
2.92	14.5	1.0	120
3.33	13.0	1.0	180
3.94	12.5	1.1	160
4.25	11.9	1.6	160
4.81	10.9	2.0	170

MPF 17 ft bgs			
Shut off Blower 1/26/1998 9:45:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	18.0	2.3	140
0.13	16.5	2.8	140
0.25	17.0	2.5	105
0.47	15.5	6.5	105
0.97	14.0	3.0	380
1.18	13.5	3.5	360
1.48	12.0	4.0	720
1.93	9.3	4.5	700
2.18	8.5	4.8	740
2.94	5.0	6.5	1000
3.34	4.5	6.5	600
3.95	3.5	6.7	640
4.26	3.0	7.1	760

MPF 7 ft bgs			
Shut off Blower 1/26/1998 9:45:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	20.9	0.0	44
0.15	20.0	0.0	44
0.46	20.0	0.0	48
0.98	20.0	0.0	160
1.20	20.5	0.5	160
1.46	20.0	0.3	105
1.92	19.5	0.3	100
2.16	19.5	0.1	100
2.92	18.5	0.5	78
3.32	17.0	0.1	100
3.93	17.0	0.1	90
4.25	16.5	0.4	60
4.81	16.0	0.5	64

MPG 12 ft bgs			
Shut off Blower 1/26/1998 9:45:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	17.0	2.5	105
0.14	16.5	2.5	94
0.26	16.5	2.5	84
0.46	16.0	2.5	90
0.95	15.5	3.0	NR
1.19	15.0	3.0	280
1.47	14.8	3.5	260
1.92	14.0	3.8	260
2.17	13.5	3.8	280
2.93	12.5	4.5	270
3.33	12.0	4.3	280
3.94	11.5	4.2	270
4.25	10.9	4.9	280
4.81	10.2	5.0	250

MPG 17 ft bgs			
Shut off Blower 1/26/1998 9:45:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	19.0	1.0	300
0.13	3.0	12.0	240
0.16	3.0	12.0	740
0.24	2.5	12.0	580
0.48	12.0	2.0	600
0.96	1.5	13.0	1400
2.18	1.0	13.0	1100

MPG 7 ft bgs			
Shut off Blower 1/26/1998 9:45:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	20.0	0.3	58
0.15	19.5	0.5	52
0.47	19.0	0.5	62
0.98	19.4	0.5	190
1.20	19.0	0.6	190
1.46	19.0	0.8	120
1.92	18.5	0.8	160
2.16	18.3	0.8	160
2.92	17.3	1.0	160
3.32	17.0	0.9	180
3.93	16.5	0.8	160
4.25	16.0	1.0	150
4.81	15.8	1.3	160

MPH 12 ft bgs			
Shut off Blower 1/26/1998 9:45:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	20.5	0.3	50
0.14	20.0	0.0	50
0.26	20.0	0.0	40
0.46	19.5	0.0	46
0.95	19.5	0.0	NR
1.19	19.5	0.3	140
1.47	19.0	0.5	105
1.93	18.3	0.3	105
2.17	18.0	0.3	110
2.93	16.5	0.6	78
3.33	16.0	0.5	120
3.94	14.5	0.5	100
4.25	13.5	0.8	100
4.81	12.5	0.8	110

MPH 17 ft bgs			
Shut off Blower 1/26/1998 9:45:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	20.0	0.8	120
0.14	18.0	1.0	110
0.25	17.5	1.0	100
0.47	16.0	1.5	100
0.96	13.5	2.5	340
1.19	12.0	2.8	320
1.47	10.3	3.3	280
1.93	8.0	4.0	620
2.18	7.0	4.0	680
2.94	3.0	6.0	1000
3.34	2.0	6.0	760
3.95	1.0	6.0	680

MPH 7 ft bgs			
Shut off Blower 1/26/1998 9:45:00 AM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	20.9	0.0	32
0.15	20.0	0.0	40
0.47	20.0	0.0	44
0.98	20.5	0.0	150
1.20	20.5	0.0	160
1.46	20.0	0.0	86
1.92	20.0	0.0	100
2.16	20.0	0.0	110
2.92	19.5	0.3	58
3.32	19.0	0.3	100
3.93	18.5	0.0	86
4.25	18.0	0.0	36
4.81	17.3	0.0	26

RESPIRATION TEST DATA

and

LINEAR REGRESSION RESULTS

April 1998

SUMMARY OUTPUT MPA 7 ft bgs Regression of linear portion of oxygen versus timeplot

Regression Statistics	
Multiple R	0.998
R Square	0.995
Adjusted R Square	0.995
Standard Error	0.213
Observations	11

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	85.17	85.167	1873.2	9.37E-12
Residual	9	0.41	0.045		
Total	10	85.58			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	18.01	0.10	174.51	3.39E-17	17.78	18.25	17.78	18.25
X Variable 1	-1.77	0.04	-43.28	9.37E-12	-1.86	-1.68	-1.86	-1.68

SUMMARY OUTPUT MPA 12 ft bgs Regression of linear portion of oxygen versus timeplot

Regression Statistics	
Multiple R	0.989
R Square	0.978
Adjusted R Square	0.976
Standard Error	0.530
Observations	13

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	136.65	136.646	485.9	1.88E-10
Residual	11	3.09	0.281		
Total	12	139.74			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	19.03	0.25	75.29	2.82E-16	18.47	19.59	18.47	19.59
X Variable 1	-1.96	0.09	-22.04	1.88E-10	-2.16	-1.77	-2.16	-1.77

SUMMARY OUTPUT

MPA 17 ft bgs Regression of linear portion of oxygen versus timeplot

Regression Statistics	
Multiple R	0.991
R Square	0.982
Adjusted R Square	0.980
Standard Error	0.250
Observations	11

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	31.07	31.072	495.5	3.52E-09
Residual	9	0.56	0.063		
Total	10	31.64			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	11.75	0.12	99.10	5.50E-15	11.49	12.02	11.49	12.02
X Variable 1	-1.75	0.08	-22.26	3.52E-09	-1.93	-1.57	-1.93	-1.57

SUMMARY OUTPUT

MPB 7 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.926
R Square	0.857
Adjusted R Square	0.843
Standard Error	0.587
Observations	12

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	20.63	20.628	59.9	1.57E-05
Residual	10	3.44	0.344		
Total	11	24.07			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	20.38	0.28	72.42	6.15E-15	19.75	21.01	19.75	21.01
X Variable 1	-0.80	0.10	-7.74	1.57E-05	-1.03	-0.57	-1.03	-0.57

SUMMARY OUTPUT **MPB 12 ft bgs Regression of linear portion of oxygen versus time plot**

Regression Statistics	
Multiple R	0.979
R Square	0.958
Adjusted R Square	0.955
Standard Error	0.542
Observations	13

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	74.30	74.303	253.1	6.12E-09
Residual	11	3.23	0.294		
Total	12	77.53			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	20.69	0.26	80.10	1.43E-16	20.12	21.26	20.12	21.26
X Variable 1	-1.45	0.09	-15.91	6.12E-09	-1.65	-1.25	-1.65	-1.25

SUMMARY OUTPUT

MPB 17 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.997
R Square	0.994
Adjusted R Square	0.994
Standard Error	0.224
Observations	16

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	121.54	121.537	2427.6	4.28E-17
Residual	14	0.70	0.050		
Total	15	122.24			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	18.58	0.09	201.32	1.23E-25	18.38	18.78	18.38	18.78
X Variable 1	-1.80	0.04	-49.27	4.28E-17	-1.88	-1.72	-1.88	-1.72

SUMMARY OUTPUT

MPC 7 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.991
R Square	0.983
Adjusted R Square	0.981
Standard Error	0.373
Observations	11

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	71.00	71.003	510.0	3.10E-09
Residual	9	1.25	0.139		
Total	10	72.26			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	20.29	0.18	109.84	2.18E-15	19.87	20.71	19.87	20.71
X Variable 1	-1.72	0.08	-22.58	3.10E-09	-1.90	-1.55	-1.90	-1.55

SUMMARY OUTPUT

MPC 12 ft bgs Regression of linear portion of oxygen versus timeplot

Regression Statistics	
Multiple R	0.976
R Square	0.952
Adjusted R Square	0.942
Standard Error	1.734
Observations	7

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	295.58	295.583	98.4	1.78E-04
Residual	5	15.03	3.005		
Total	6	310.61			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	20.27	0.99	20.48	5.13E-06	17.73	22.81	17.73	22.81
X Variable 1	-7.74	0.78	-9.92	1.78E-04	-9.74	-5.73	-9.74	-5.73

SUMMARY OUTPUT

MPC 17 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.994
R Square	0.988
Adjusted R Square	0.987
Standard Error	0.381
Observations	10

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	97.48	97.485	672.7	5.24E-09
Residual	8	1.16	0.145		
Total	9	98.64			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	9.62	0.19	51.06	2.40E-11	9.18	10.05	9.18	10.05
X Variable 1	-3.80	0.15	-25.94	5.24E-09	-4.13	-3.46	-4.13	-3.46

SUMMARY OUTPUT

MPD 7 ft bgs Regression of linear portion of oxygen versus timeplot

Regression Statistics	
Multiple R	0.981
R Square	0.963
Adjusted R Square	0.959
Standard Error	0.319
Observations	12

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	26.12	26.123	256.9	1.85E-08
Residual	10	1.02	0.102		
Total	11	27.14			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	20.86	0.15	136.29	1.11E-17	20.52	21.20	20.52	21.20
X Variable 1	-0.90	0.06	-16.03	1.85E-08	-1.03	-0.78	-1.03	-0.78

SUMMARY OUTPUT

MPD 12 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.904
R Square	0.818
Adjusted R Square	0.781
Standard Error	0.936
Observations	7

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	19.65	19.654	22.4	5.17E-03
Residual	5	4.38	0.876		
Total	6	24.03			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	21.13	0.53	39.52	1.96E-07	19.75	22.50	19.75	22.50
X Variable 1	-1.99	0.42	-4.74	5.17E-03	-3.08	-0.91	-3.08	-0.91

SUMMARY OUTPUT MPD 17 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.993
R Square	0.987
Adjusted R Square	0.985
Standard Error	0.527
Observations	10

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	163.65	163.650	588.2	8.92E-09
Residual	8	2.23	0.278		
Total	9	165.88			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	19.99	0.26	76.57	9.43E-13	19.39	20.59	19.39	20.59
X Variable 1	-4.92	0.20	-24.25	8.92E-09	-5.39	-4.45	-5.39	-4.45

SUMMARY OUTPUT MPE 7 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.994
R Square	0.988
Adjusted R Square	0.986
Standard Error	0.349
Observations	9

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	69.31	69.308	569.4	5.77E-08
Residual	7	0.85	0.122		
Total	8	70.16			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	19.69	0.18	106.57	1.69E-12	19.26	20.13	19.26	20.13
X Variable 1	-2.39	0.10	-23.86	5.77E-08	-2.62	-2.15	-2.62	-2.15

SUMMARY OUTPUT

MPE 12 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.998
R Square	0.996
Adjusted R Square	0.995
Standard Error	0.332
Observations	7

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	126.12	126.124	1141.0	4.28E-07
Residual	5	0.55	0.111		
Total	6	126.68			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	20.37	0.19	107.22	1.34E-09	19.88	20.86	19.88	20.86
X Variable 1	-5.05	0.15	-33.78	4.28E-07	-5.44	-4.67	-5.44	-4.67

SUMMARY OUTPUT

MPE 17 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.987
R Square	0.973
Adjusted R Square	0.969
Standard Error	0.766
Observations	8

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	128.42	128.418	218.9	6.00E-06
Residual	6	3.52	0.587		
Total	7	131.94			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	14.84	0.40	36.99	2.61E-08	13.86	15.83	13.86	15.83
X Variable 1	-6.30	0.43	-14.79	6.00E-06	-7.35	-5.26	-7.35	-5.26

SUMMARY OUTPUT

MPF 7 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.987
R Square	0.974
Adjusted R Square	0.971
Standard Error	0.283
Observations	12

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	30.08	30.078	375.2	2.93E-09
Residual	10	0.80	0.080		
Total	11	30.88			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	20.90	0.14	153.76	3.32E-18	20.60	21.21	20.60	21.21
X Variable 1	-0.97	0.05	-19.37	2.93E-09	-1.08	-0.86	-1.08	-0.86

SUMMARY OUTPUT MPF 12 ft bgs Regression of linear portion of oxygen versus timeplot

Regression Statistics	
Multiple R	0.974
R Square	0.949
Adjusted R Square	0.943
Standard Error	0.616
Observations	11

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	63.09	63.090	166.1	4.19E-07
Residual	9	3.42	0.380		
Total	10	66.51			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	20.62	0.30	67.66	1.70E-13	19.93	21.31	19.93	21.31
X Variable 1	-1.62	0.13	-12.89	4.19E-07	-1.91	-1.34	-1.91	-1.34

SUMMARY OUTPUT

MPF 17 ft bgs Regression of linear portion of oxygen versus timeplot

Regression Statistics	
Multiple R	0.993
R Square	0.986
Adjusted R Square	0.985
Standard Error	0.453
Observations	16

ANOVA				
	df	SS	MS	Significance F
Regression	1	205.70	205.698	1001.2
Residual	14	2.88	0.205	2.00E-14
Total	15	208.57		

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	18.98	0.19	99.56	2.33E-21	18.57	19.39	18.57	19.39
X Variable 1	-2.47	0.08	-31.64	2.00E-14	-2.63	-2.30	-2.63	-2.30

SUMMARY OUTPUT

MPG 7 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.954
R Square	0.910
Adjusted R Square	0.901
Standard Error	0.306
Observations	12

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	9.47	9.472	101.1	1.51E-06
Residual	10	0.94	0.094		
Total	11	10.41			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	20.24	0.15	137.65	1.01E-17	19.91	20.57	19.91	20.57
X Variable 1	-0.54	0.05	-10.05	1.51E-06	-0.66	-0.42	-0.66	-0.42

SUMMARY OUTPUT

MPG 12 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.984
R Square	0.968
Adjusted R Square	0.964
Standard Error	0.320
Observations	12

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	30.58	30.581	299.4	8.80E-09
Residual	10	1.02	0.102		
Total	11	31.60			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	18.99	0.15	123.94	2.87E-17	18.65	19.33	18.65	19.33
X Variable 1	-0.98	0.06	-17.30	8.80E-09	-1.10	-0.85	-1.10	-0.85

SUMMARY OUTPUT

MPG 17 ft bgs Regression of linear portion of oxygen versus timeplot

Regression Statistics	
Multiple R	0.987
R Square	0.975
Adjusted R Square	0.973
Standard Error	0.285
Observations	16

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	44.10	44.103	544.1	1.32E-12
Residual	14	1.13	0.081		
Total	15	45.24			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	13.77	0.12	117.12	2.40E-22	13.52	14.02	13.52	14.02
X Variable 1	-1.08	0.05	-23.33	1.32E-12	-1.18	-0.98	-1.18	-0.98

SUMMARY OUTPUT

MPH 7 ft bgs Regression of linear portion of oxygen versus timeplot

Regression Statistics	
Multiple R	0.926
R Square	0.857
Adjusted R Square	0.843
Standard Error	0.361
Observations	12

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	7.83	7.832	60.0	1.56E-05
Residual	10	1.30	0.130		
Total	11	9.14			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	20.76	0.17	119.63	4.09E-17	20.37	21.14	20.37	21.14
X Variable 1	-0.49	0.06	-7.75	1.56E-05	-0.64	-0.35	-0.64	-0.35

SUMMARY OUTPUT

MPH 12 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.981
R Square	0.963
Adjusted R Square	0.959
Standard Error	0.358
Observations	12

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	33.15	33.150	259.2	1.77E-08
Residual	10	1.28	0.128		
Total	11	34.43			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	20.86	0.17	121.66	3.45E-17	20.48	21.25	20.48	21.25
X Variable 1	-1.02	0.06	-16.10	1.77E-08	-1.16	-0.88	-1.16	-0.88

SUMMARY OUTPUT MPH 17 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.988
R Square	0.977
Adjusted R Square	0.974
Standard Error	0.535
Observations	9

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	84.93	84.925	296.7	5.46E-07
Residual	7	2.00	0.286		
Total	8	86.93			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	19.35	0.27	71.11	2.86E-11	18.71	20.00	18.71	20.00
X Variable 1	-4.17	0.24	-17.22	5.46E-07	-4.74	-3.60	-4.74	-3.60

MPA 12 ft bgs			
Shut off Blower 4/21/1998 10:45:00 AM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	18.8	1.8	110
0.07	18.1	1.7	130
0.27	18.5	1.8	100
0.88	17.2	2.2	160
1.25	16.8	2.3	160
1.88	16.0	2.8	150
2.30	15.7	2.8	160
2.92	13.1	3.5	180
3.27	12.9	3.5	180
3.96	11.2	4.4	200
4.13	10.9	4.6	240
4.24	10.2	4.6	220
4.88	9.1	5.5	220

MPA 17 ft bgs			
Shut off Blower 4/21/1998 10:45:00 AM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	12.0	7.1	300
0.05	11.7	6.9	280
0.16	11.7	6.9	280
0.26	11.1	7.0	250
0.86	10.1	7.9	280
1.06	9.5	8.0	320
1.25	9.3	7.9	280
1.88	8.6	8.9	280
2.05	8.4	8.9	280
2.29	8.0	8.9	300
2.91	6.5	9.1	300
3.03	7.2	8.8	290
3.26	6.8	9.2	320
3.95	5.2	10.0	320
4.24	4.9	9.2	340
4.87	3.9	10.2	360

MPA 7 ft bgs			
Shut off Blower 4/21/1998 10:45:00 AM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	18.1	2.5	250
0.08	17.9	2.3	260
0.27	17.6	2.4	230
0.88	16.0	3.0	240
1.26	15.6	3.0	250
1.89	14.9	3.6	280
2.30	14.2	3.1	280
2.93	12.9	4.1	310
3.27	12.3	4.2	300
3.96	11.0	5.0	300
4.88	9.2	5.4	340
5.25	10.2	4.8	360
7.14	10.8	4.8	350

MPB 12 ft bgs			
Shut off Blower 4/21/1998 10:45:00 AM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	20.3	0.6	53
0.07	19.8	0.5	70
0.27	19.9	0.8	76
0.88	19.8	0.7	100
1.26	19.2	0.7	90
1.88	19.0	0.7	88
2.30	18.0	0.7	100
2.92	16.5	0.8	90
3.27	16.2	0.8	110
3.96	15.0	1.5	100
4.13	14.6	1.4	150
4.24	14.1	1.5	160
4.88	13.1	2.2	140

MPB 17 ft bgs			
Shut off Blower 4/21/1998 10:45:00 AM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	19.0	1.5	96
0.06	18.3	1.5	180
0.16	18.4	1.5	200
0.26	18.1	1.7	150
0.87	17.2	2.2	180
1.07	16.3	2.5	220
1.25	16.2	2.5	210
1.88	15.1	3.1	200
2.06	15.0	3.1	220
2.29	14.1	3.3	220
2.91	13.4	3.7	200
3.04	13.3	3.5	220
3.26	12.5	3.8	240
3.95	11.7	4.3	235
4.24	10.9	4.1	230
4.87	9.9	4.7	240

MPB 7 ft bgs			
Shut off Blower 4/21/1998 10:45:00 AM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	19.1	0.4	42
0.08	20.2	0.3	84
0.27	20.1	0.4	74
0.89	20.0	0.5	60
1.26	19.9	0.6	76
1.89	19.4	0.7	78
2.30	19.1	0.6	110
2.93	18.4	0.7	80
3.27	18.0	0.5	90
3.96	17.1	0.8	100
4.25	16.6	0.8	76
4.88	15.8	0.8	84

MPC 12 ft bgs			
Shut off Blower 4/21/1998 10:45:00 AM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	20.0	0.7	48
0.07	19.3	0.6	90
0.27	18.0	0.8	94
0.88	16.4	1.9	130
1.26	8.2	4.7	160
1.89	6.4	7.1	200
2.30	2.1	10.5	200
2.92	8.9	5.8	180
3.27	6.5	6.7	220
3.96	9.1	5.6	220
4.13	8.8	5.2	190
4.25	7.9	5.6	190
4.88	9.5	5.0	200

MPC 17 ft bgs			
Shut off Blower 4/21/1998 10:45:00 AM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	10.0	9.1	300
0.06	8.7	3.4	320
0.17	9.0	8.2	320
0.26	8.6	3.4	270
0.87	6.7	9.4	280
1.07	5.6	10.1	330
1.25	5.2	10.0	320
1.88	2.0	11.9	310
2.06	1.7	11.8	300
2.29	1.1	11.2	310
2.91	0.3	12.0	310
3.04	0.2	12.1	340
3.26	0.2	11.9	340

MPC 7 ft bgs			
Shut off Blower 4/21/1998 10:45:00 AM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	20.0	0.6	32
0.08	20.0	0.5	86
0.27	20.0	0.6	70
0.89	18.8	0.7	68
1.26	18.8	0.7	90
1.89	17.2	0.8	100
2.31	16.0	0.9	96
2.93	14.8	1.3	120
3.28	14.3	1.4	120
3.97	13.9	2.1	120
4.25	13.0	1.9	130
4.88	13.7	1.9	140

MPD 12 ft bgs			
Shut off Blower 4/21/1998 10:45:00 AM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	20.9	0.1	30
0.07	20.4	0.0	70
0.27	20.3	0.0	66
0.88	20.1	0.2	40
1.26	19.7	0.0	70
1.89	18.0	0.5	60
2.30	15.2	0.3	60
2.92	15.1	0.5	30
3.27	15.3	0.5	64
3.96	14.5	0.7	60
4.25	13.9	0.7	110
4.88	13.8	0.6	58

MPD 17 ft bgs			
Shut off Blower 4/21/1998 10:45:00 AM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	20.8	0.7	96
0.06	19.5	0.6	120
0.17	19.3	0.6	120
0.26	18.6	0.6	100
0.87	15.8	1.2	140
1.07	14.0	1.5	200
1.25	13.0	1.7	170
1.88	11.0	2.7	180
2.06	10.2	3.1	200
2.29	9.0	3.0	200
2.91	8.1	3.7	190
3.04	7.9	3.6	210
3.26	7.1	3.8	230
3.95	5.2	4.5	210
4.13	5.1	4.5	230
4.24	4.9	4.3	290
4.87	4.3	5.0	250

MPD 7 ft bgs			
Shut off Blower 4/21/1998 10:45:00 AM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	20.5	0.2	27
0.08	20.5	0.1	66
0.28	20.4	0.0	60
0.89	20.4	0.0	48
1.26	20.4	0.0	60
1.89	19.4	0.4	60
2.31	18.9	0.4	58
2.93	18.0	0.3	58
3.28	17.8	0.2	60
3.97	17.1	0.7	50
4.25	16.9	0.5	46
4.89	16.5	0.4	20

MPE 12 ft bgs			
Shut off Blower 4/21/1998 10:45:00 AM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	20.2	0.6	70
0.07	19.8	0.5	90
0.27	19.2	0.7	84
0.88	16.3	1.3	110
1.26	13.8	1.8	110
1.89	11.2	3.2	150
2.30	8.4	4.2	180
2.92	8.1	4.8	170
3.27	7.9	4.8	200
3.96	7.1	5.8	230
4.25	6.8	5.4	250
4.88	6.5	5.8	200

MPE 17 ft bgs			
Shut off Blower 4/21/1998 10:45:00 AM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	15.0	4.8	200
0.06	14.3	4.3	200
0.17	14.3	4.3	190
0.26	13.7	4.6	160
0.87	8.9	6.1	240
1.07	7.0	6.8	160
1.25	6.4	7.0	200
1.88	4.1	8.9	200
2.06	3.8	9.1	220
2.29	3.1	9.0	220
2.91	1.1	9.9	240
3.04	3.2	8.8	240
3.26	2.0	9.8	240

MPE 7 ft bgs			
Shut off Blower 4/21/1998 10:45:00 AM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	19.5	0.8	84
0.08	19.5	0.7	110
0.28	19.0	0.8	98
0.89	18.0	1.1	110
1.26	17.0	1.1	120
1.89	14.9	1.7	120
2.31	13.6	2.0	160
2.93	12.7	2.5	180
3.28	12.2	2.4	180
3.97	11.2	3.2	180
4.25	11.0	3.0	160
4.89	10.8	4.4	160
8.14	11.2	3.0	160

MPF 12 ft bgs			
Shut off Blower 4/21/1998 10:45:00 AM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	20.8	0.2	48
0.07	19.2	0.0	70
0.27	20.0	0.0	68
0.88	20.0	0.1	46
1.26	19.2	0.2	58
1.89	18.0	0.6	70
2.30	16.7	0.5	68
2.92	16.1	0.7	68
3.27	15.1	0.5	76
3.96	14.3	0.8	95
4.25	13.2	0.9	100
4.88	13.0	1.0	100

MPF 17 ft bgs			
Shut off Blower 4/21/1998 10:45:00 AM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	19.8	2.1	185
0.06	17.9	2.0	180
0.17	18.0	1.9	180
0.26	18.0	1.9	130
0.87	17.1	2.3	180
1.07	16.3	2.5	200
1.25	16.1	2.5	170
1.88	14.9	3.1	200
2.06	14.2	3.2	200
2.29	13.7	3.1	210
2.92	11.9	3.5	200
3.04	11.5	3.4	200
3.26	10.8	3.6	210
3.95	9.0	4.1	195
4.13	8.8	4.0	250
4.24	8.1	4.0	260
4.87	7.4	4.5	230

MPF 7 ft bgs			
Shut off Blower 4/21/1998 10:45:00 AM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	20.6	0.4	33
0.08	20.5	0.3	78
0.28	20.5	0.3	68
0.89	20.4	0.3	68
1.26	20.2	0.3	62
1.89	19.2	0.6	62
2.31	18.9	0.5	76
2.93	17.8	0.6	30
3.28	17.6	0.4	90
3.97	17.1	0.7	90
4.25	16.8	0.6	60
4.89	16.0	0.5	36

MPG 12 ft bgs			
Shut off Blower 4/21/1998 10:45:00 AM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	19.7	1.5	112
0.08	18.3	1.5	130
0.27	18.5	1.5	120
0.88	18.1	1.7	110
1.26	17.9	1.7	130
1.89	17.1	2.2	110
2.30	16.8	2.3	160
2.93	16.1	2.4	120
3.27	16.0	2.3	180
3.96	15.0	3.1	170
4.25	14.8	2.9	170
4.88	14.2	3.2	180
5.13	15.0	2.9	180

MPG 17 ft bgs			
Shut off Blower 4/21/1998 10:45:00 AM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	14.2	5.4	335
0.06	13.5	5.2	360
0.17	14.0	5.0	360
0.26	13.7	5.2	320
0.87	12.9	5.7	300
1.07	12.1	5.8	360
1.25	12.1	5.9	360
1.88	11.8	6.3	350
2.06	11.4	6.5	360
2.30	10.9	6.4	380
2.92	10.4	6.8	380
3.04	10.5	6.5	350
3.26	10.3	6.3	360
3.96	9.6	7.1	320
4.24	9.2	6.8	290
4.87	8.8	7.2	360

MPG 7 ft bgs			
Shut off Blower 4/21/1998 10:45:00 AM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	20.2	0.5	47
0.09	20.2	0.5	86
0.28	20.0	0.6	72
0.89	20.0	0.6	68
1.27	18.9	0.7	74
1.89	19.2	0.8	78
2.31	19.4	0.6	92
2.93	18.9	0.8	46
3.28	18.7	0.6	120
3.97	18.1	0.9	100
4.25	17.9	0.8	98
4.89	17.2	0.8	90

MPH 12 ft bgs			
Shut off Blower 4/21/1998 10:45:00 AM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	20.9	0.3	40
0.08	20.3	0.1	66
0.27	20.1	0.1	60
0.88	20.1	0.2	58
1.26	20.0	0.2	62
1.89	19.2	0.5	60
2.30	18.9	0.4	76
2.93	18.1	0.5	40
3.27	17.8	0.3	44
3.96	16.8	0.6	40
4.25	16.1	0.5	100
4.88	15.6	0.5	56
6.13	16.6	0.7	130

MPH 17 ft bgs			
Shut off Blower 4/21/1998 10:45:00 AM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	20.0	0.8	140
0.07	18.9	0.7	140
0.17	18.8	0.8	150
0.26	18.2	0.9	100
0.88	15.4	1.9	180
1.07	14.3	2.2	180
1.25	13.9	2.2	180
1.88	11.1	3.1	180
2.06	11.7	3.3	220
2.30	11.0	3.4	240
2.92	10.1	3.9	210
3.04	9.8	3.8	210
3.27	9.4	3.9	220
3.96	8.4	4.5	220
4.13	8.1	4.6	230
4.24	7.9	4.6	230
4.87	7.1	5.1	250

MPH 7 ft bgs			
Shut off Blower 4/21/1998 10:45:00 AM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	20.9	0.0	15
0.09	20.5	0.0	70
0.28	20.2	0.0	56
0.89	20.2	0.0	60
1.27	20.2	0.0	66
1.89	19.8	0.4	56
2.31	20.1	0.3	60
2.93	19.8	0.3	0
3.28	19.5	0.2	80
3.97	18.9	0.6	58
4.25	18.1	0.2	45
4.89	18.0	0.3	10

RESPIRATION TEST DATA

and

LINEAR REGRESSION RESULTS

August 1998

SUMMARY OUTPUT MPA 7 ft bgs Regression of linear portion of oxygen versus timeplot

Regression Statistics	
Multiple R	0.993
R Square	0.986
Adjusted R Square	0.981
Standard Error	0.438
Observations	5

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	40.62	40.624	211.5	7.05E-04
Residual	3	0.58	0.192		
Total	4	41.20			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	11.84	0.42	28.03	9.97E-05	10.50	13.19	10.50	13.19
X Variable 1	-7.34	0.50	-14.54	7.05E-04	-8.95	-5.73	-8.95	-5.73

SUMMARY OUTPUT

MPA 12 ft bgs Regression of linear portion of oxygen versus timeplot

Regression Statistics	
Multiple R	0.988
R Square	0.977
Adjusted R Square	0.974
Standard Error	0.745
Observations	11

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	211.23	211.234	380.7	1.13E-08
Residual	9	4.99	0.555		
Total	10	216.23			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	16.93	0.44	38.12	2.92E-11	15.93	17.94	15.93	17.94
X Variable 1	-5.41	0.28	-19.51	1.13E-08	-6.04	-4.78	-6.04	-4.78

SUMMARY OUTPUT

MPA 17 ft bgs Regression of linear portion of oxygen versus timeplot

Regression Statistics	
Multiple R	0.991
R Square	0.982
Adjusted R Square	0.980
Standard Error	0.250
Observations	11

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	31.07	31.072	495.5	3.52E-09
Residual	9	0.56	0.063		
Total	10	31.64			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	11.75	0.12	99.10	5.50E-15	11.49	12.02	11.49	12.02
X Variable 1	-1.75	0.08	-22.26	3.52E-09	-1.93	-1.57	-1.93	-1.57

SUMMARY OUTPUT

MPB 7 ft bgs Regression of linear portion of oxygen versus timeplot

Regression Statistics	
Multiple R	0.989
R Square	0.978
Adjusted R Square	0.976
Standard Error	0.662
Observations	12

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	195.85	195.851	447.3	1.24E-09
Residual	10	4.38	0.438		
Total	11	200.23			

Coefficients							
	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	0.41	48.68	3.23E-13	18.90	20.71	18.90	20.71
X Variable 1	0.14	-21.15	1.24E-09	-3.26	-2.64	-3.26	-2.64

SUMMARY OUTPUT **MPB 12 ft bgs Regression of linear portion of oxygen versus timeplot**

Regression Statistics	
Multiple R	0.988
R Square	0.976
Adjusted R Square	0.973
Standard Error	0.578
Observations	9

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	97.16	97.159	290.5	5.87E-07
Residual	7	2.34	0.334		
Total	8	99.50			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	20.96	0.38	54.82	1.76E-10	20.06	21.87	20.06	21.87
X Variable 1	-4.61	0.27	-17.04	5.87E-07	-5.25	-3.97	-5.25	-3.97

SUMMARY OUTPUT

MPB 12 ft bgs Regression of linear portion of oxygen versus timeplot

Regression Statistics	
Multiple R	0.991
R Square	0.982
Adjusted R Square	0.980
Standard Error	0.712
Observations	17

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	405.70	405.703	800.8	1.97E-14
Residual	15	7.60	0.507		
Total	16	413.30			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	20.57	0.37	56.26	7.24E-19	19.79	21.35	19.79	21.35
X Variable 1	-4.33	0.15	-28.30	1.97E-14	-4.65	-4.00	-4.65	-4.00

SUMMARY OUTPUT

MPB 17 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.993
R Square	0.986
Adjusted R Square	0.984
Standard Error	0.459
Observations	13

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	160.60	160.601	760.8	1.66E-11
Residual	11	2.32	0.211		
Total	12	162.92			

Coefficients						
	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%
Intercept	0.24	68.79	7.61E-16	16.02	17.08	16.02
X Variable 1	0.17	-27.58	1.66E-11	-5.21	-4.44	-5.21
						Upper 95.0%
						17.08
						-4.44

SUMMARY OUTPUT

MPC 7 ft bgs Regression of linear portion of oxygen versus timeplot

Regression Statistics	
Multiple R	0.997
R Square	0.994
Adjusted R Square	0.993
Standard Error	0.282
Observations	10

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	107.86	107.865	1358.7	3.22E-10
Residual	8	0.64	0.079		
Total	9	108.50			

Coefficients							
	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	0.17	117.94	2.98E-14	20.10	20.10	20.10	20.90
X Variable 1	0.06	-36.86	3.22E-10	-2.35	-2.07	-2.35	-2.07

SUMMARY OUTPUT MPC 12 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.984
R Square	0.968
Adjusted R Square	0.964
Standard Error	0.852
Observations	11

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	196.14	196.142	269.9	5.10E-08
Residual	9	6.54	0.727		
Total	10	202.68			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	19.85	0.53	37.42	3.45E-11	18.65	21.05	18.65	21.05
X Variable 1	-6.13	0.37	-16.43	5.10E-08	-6.97	-5.29	-6.97	-5.29

SUMMARY OUTPUT

MPC 12 ft bgs Regression of linear portion of oxygen versus timeplot

Regression Statistics	
Multiple R	0.986
R Square	0.972
Adjusted R Square	0.965
Standard Error	0.615
Observations	6

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	52.32	52.318	138.1	3.00E-04
Residual	4	1.52	0.379		
Total	5	53.83			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	20.38	0.50	40.95	2.12E-06	19.00	21.76	19.00	21.76
X Variable 1	-6.92	0.59	-11.75	3.00E-04	-8.56	-5.29	-8.56	-5.29

SUMMARY OUTPUT

MPC 17 ft bgs Regression of linear portion of oxygen versus timeplot

Regression Statistics	
Multiple R	0.994
R Square	0.988
Adjusted R Square	0.987
Standard Error	0.381
Observations	10

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	97.48	97.485	672.7	5.24E-09
Residual	8	1.16	0.145		
Total	9	98.64			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	9.62	0.19	51.06	2.40E-11	9.18	10.05	9.18	10.05
X Variable 1	-3.80	0.15	-25.94	5.24E-09	-4.13	-3.46	-4.13	-3.46

SUMMARY OUTPUT MPD 7 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.981
R Square	0.963
Adjusted R Square	0.956
Standard Error	0.431
Observations	8

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	28.60	28.602	154.2	1.67E-05
Residual	6	1.11	0.186		
Total	7	29.72			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	21.55	0.29	73.30	4.34E-10	20.83	22.27	20.83	22.27
X Variable 1	-1.58	0.13	-12.42	1.67E-05	-1.89	-1.27	-1.89	-1.27

SUMMARY OUTPUT

MPD 12 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.991
R Square	0.981
Adjusted R Square	0.980
Standard Error	0.690
Observations	16

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	346.09	346.092	726.7	1.82E-13
Residual	14	6.67	0.476		
Total	15	352.76			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	22.40	0.33	67.41	5.41E-19	21.69	23.11	21.69	23.11
X Variable 1	-3.21	0.12	-26.96	1.82E-13	-3.46	-2.95	-3.46	-2.95

SUMMARY OUTPUT

MPD 17 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.983
R Square	0.966
Adjusted R Square	0.962
Standard Error	1.047
Observations	13

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	338.66	338.662	308.7	2.14E-09
Residual	11	12.07	1.097		
Total	12	350.73			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	18.38	0.56	33.02	2.35E-12	17.16	19.61	17.16	19.61
X Variable 1	-7.69	0.44	-17.57	2.14E-09	-8.65	-6.72	-8.65	-6.72

MPE 7 ft bgs Regression of linear portion of oxygen versus time plot

SUMMARY OUTPUT

<i>Regression Statistics</i>	
Multiple R	0.993
R Square	0.987
Adjusted R Square	0.985
Standard Error	0.342
Observations	8

ANOVA					
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	52.80	52.799	452.0	7.06E-07
Residual	6	0.70	0.117		
Total	7	53.50			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	18.99	0.23	81.41	2.31E-10	18.42	19.56	18.42	19.56
X Variable 1	-2.14	0.10	-21.26	7.06E-07	-2.39	-1.90	-2.39	-1.90

SUMMARY OUTPUT MPE 12 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.995
R Square	0.990
Adjusted R Square	0.989
Standard Error	0.375
Observations	9

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	101.07	101.069	717.3	2.59E-08
Residual	7	0.99	0.141		
Total	8	102.06			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	20.11	0.25	80.04	1.25E-11	19.52	20.71	19.52	20.71
X Variable 1	-5.23	0.20	-26.78	2.59E-08	-5.70	-4.77	-5.70	-4.77

SUMMARY OUTPUT MPE 17 ft bgs Regression of linear portion of oxygen versus timeplot

Regression Statistics	
Multiple R	0.995
R Square	0.990
Adjusted R Square	0.986
Standard Error	0.397
Observations	4

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	32.43	32.435	205.7	4.83E-03
Residual	2	0.32	0.158		
Total	3	32.75			

Coefficients							
	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	12.27	35.71	7.83E-04	10.80	13.75	10.80	13.75
X Variable 1	-8.50	-14.34	4.83E-03	-11.05	-5.95	-11.05	-5.95

SUMMARY OUTPUT MPF 7 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.967
R Square	0.935
Adjusted R Square	0.927
Standard Error	0.615
Observations	10

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	43.49	43.495	114.8	5.05E-06
Residual	8	3.03	0.379		
Total	9	46.53			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	21.35	0.38	56.15	1.12E-11	20.47	22.23	20.47	22.23
X Variable 1	-1.40	0.13	-10.72	5.05E-06	-1.71	-1.10	-1.71	-1.10

SUMMARY OUTPUT MPF 12 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.990
R Square	0.980
Adjusted R Square	0.979
Standard Error	0.557
Observations	14

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	184.61	184.612	595.2	1.36E-11
Residual	12	3.72	0.310		
Total	13	188.33			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	22.06	0.27	80.59	8.88E-18	21.47	22.66	21.47	22.66
X Variable 1	-2.44	0.10	-24.40	1.36E-11	-2.65	-2.22	-2.65	-2.22

SUMMARY OUTPUT MPF 17 ft bgs Regression of linear portion of oxygen versus timeplot

Regression Statistics	
Multiple R	0.996
R Square	0.992
Adjusted R Square	0.991
Standard Error	0.367
Observations	20

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	287.53	287.528	2137.0	3.68E-20
Residual	18	2.42	0.135		
Total	19	289.95			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	17.57	0.16	112.83	4.14E-27	17.24	17.90	17.24	17.90
X Variable 1	-3.24	0.07	-46.23	3.68E-20	-3.39	-3.10	-3.39	-3.10

SUMMARY OUTPUT MPG 7 ft bgs Regression of linear portion of oxygen versus timeplot

Regression Statistics	
Multiple R	0.992
R Square	0.983
Adjusted R Square	0.981
Standard Error	0.326
Observations	10

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	49.88	49.876	470.2	2.16E-08
Residual	8	0.85	0.106		
Total	9	50.73			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	20.30	0.20	100.83	1.05E-13	19.84	20.77	19.84	20.77
X Variable 1	-1.50	0.07	-21.68	2.16E-08	-1.66	-1.34	-1.66	-1.34

SUMMARY OUTPUT MPG 12 ft bgs Regression of linear portion of oxygen versus timeplot

Regression Statistics	
Multiple R	0.997
R Square	0.995
Adjusted R Square	0.994
Standard Error	0.235
Observations	15

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	131.21	131.214	2370.1	4.24E-16
Residual	13	0.72	0.055		
Total	14	131.93			

Coefficients							
	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	18.47	161.88	7.18E-23	18.22	18.71	18.22	18.71
X Variable 1	-2.05	-48.68	4.24E-16	-2.14	-1.96	-2.14	-1.96

SUMMARY OUTPUT MPG 17 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.985
R Square	0.969
Adjusted R Square	0.967
Standard Error	0.376
Observations	14

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	53.73	53.734	380.4	1.87E-10
Residual	12	1.69	0.141		
Total	13	55.43			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	11.49	0.19	61.62	2.21E-16	11.09	11.90	11.09	11.90
X Variable 1	-2.40	0.12	-19.50	1.87E-10	-2.67	-2.13	-2.67	-2.13

SUMMARY OUTPUT MPH 7 ft bgs Regression of linear portion of oxygen versus timeplot

Regression Statistics	
Multiple R	0.974
R Square	0.949
Adjusted R Square	0.941
Standard Error	0.626
Observations	9

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	50.66	50.664	129.2	9.14E-06
Residual	7	2.74	0.392		
Total	8	53.41			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	21.95	0.41	54.05	1.95E-10	20.99	22.91	20.99	22.91
X Variable 1	-1.77	0.16	-11.37	9.14E-06	-2.13	-1.40	-2.13	-1.40

SUMMARY OUTPUT MPH 12 ft bgs Regression of linear portion of oxygen versus time plot

Regression Statistics	
Multiple R	0.993
R Square	0.985
Adjusted R Square	0.984
Standard Error	0.544
Observations	17

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	299.38	299.378	1012.1	3.49E-15
Residual	15	4.44	0.296		
Total	16	303.82			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	22.37	0.26	85.42	1.40E-21	21.81	22.92	21.81	22.92
X Variable 1	-3.04	0.10	-31.81	3.49E-15	-3.25	-2.84	-3.25	-2.84

SUMMARY OUTPUT

MPH 17 ft bgs Regression of linear portion of oxygen versus timeplot

Regression Statistics	
Multiple R	0.992
R Square	0.985
Adjusted R Square	0.984
Standard Error	0.606
Observations	16

ANOVA				
	df	SS	MS	Significance F
Regression	1	339.10	339.101	922.0
Residual	14	5.15	0.368	3.53E-14
Total	15	344.25		

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	18.93	0.28	66.57	6.44E-19	18.32	19.54	18.32	19.54
X Variable 1	-4.56	0.15	-30.36	3.53E-14	-4.88	-4.24	-4.88	-4.24

MPA 12 ft bgs			
Shut off Blower 8/4/1998 2:45:00 PM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	17.5	3.5	140
0.35	16.0	3.5	180
0.74	13.0	4.5	220
0.98	11.0	5.5	200
1.11	10.0	5.0	200
1.23	10.0	6.0	220
1.73	7.0	7.0	220
1.98	6.0	8.0	280
2.11	5.0	8.0	260
2.24	5.0	8.0	220
2.73	3.5	11.0	260

MPA 17 ft bgs			
Shut off Blower 8/4/1998 2:45:00 PM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	2.0	19.0	1400
0.09	2.0	14.5	1600
0.34	0.5	15.0	1600
1.27	0.0	16.0	720
1.77	0.0	15.0	140

MPA 7 ft bgs			
Shut off Blower 8/4/1998 2:45:00 PM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	12.0	9.0	520
0.76	6.0	11.5	600
0.86	5.0	12.0	1400
0.98	5.0	12.0	1200
1.11	4.0	13.0	1400
1.25	4.0	13.0	620
1.77	2.5	13.5	620
2.26	2.0	14.0	620

MPB 12 ft bgs			
Shut off Blower 8/4/1998 2:45:00 PM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	20.0	1.0	85
0.35	19.5	0.5	100
0.74	18.0	1.0	100
0.99	17.0	1.5	100
1.23	16.0	1.5	120
1.73	13.0	3.0	140
1.85	12.0	3.2	220
1.98	11.5	3.2	200
2.11	11.0	3.5	200
2.24	11.0	5.9	180
2.73	8.0	5.9	220
2.87	7.5	5.9	220
2.98	6.9	5.9	240
3.10	6.5	5.9	200
3.22	6.5	5.9	220
3.76	5.2	7.0	220
3.92	5.0	6.5	240
4.26	4.0	7.0	280

MPB 17 ft bgs			
Shut off Blower 8/4/1998 2:45:00 PM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	17.0	4.0	650
0.10	16.5	3.5	680
0.33	15.0	4.0	820
0.73	13.0	5.0	900
0.86	12.0	5.0	900
0.98	11.5	5.5	980
1.10	10.5	5.5	1000
1.23	10.0	6.0	1000
1.72	9.0	6.5	1000
1.84	8.0	6.5	1200
1.97	7.0	6.9	1200
2.09	6.5	7.0	1000
2.23	6.0	7.0	1000
2.72	4.0	8.2	1000

MPB 7 ft bgs			
Shut off Blower 8/4/1998 2:45:00 PM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	20.0	1.0	100
0.76	18.0	1.5	120
1.25	16.5	2.0	140
1.75	15.0	2.5	140
2.26	13.0	3.0	160
2.75	11.0	2.5	180
2.99	10.0	2.5	180
3.11	10.0	3.5	180
3.24	9.5	4.5	220
3.78	9.0	5.1	220
4.28	8.0	5.2	260
4.78	6.5	6.8	260
5.79	5.0	7.5	240

MPC 12 ft bgs			
Shut off Blower 8/4/1998 2:45:00 PM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	20.0	1.0	95
0.35	18.0	1.5	120
0.75	16.0	2.5	140
0.99	14.0	3.5	140
1.11	12.5	4.0	140
1.18	11.5	4.0	200
1.23	11.0	4.5	180
1.74	10.5	5.0	160
1.99	8.5	5.5	200
2.11	7.0	6.5	220
2.25	5.5	7.5	200
2.73	7.0	7.5	220
2.87	7.0	7.5	220
3.23	5.0	8.0	220
3.77	4.5	9.0	220

MPC 17 ft bgs			
Shut off Blower 8/4/1998 2:45:00 PM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	0.5	22.5	1350
0.10	0.5	16.0	1200
0.34	0.5	15.0	1400
1.27	0.5	16.0	420
1.77	0.0	15.0	1400

MPC 7 ft bgs			
Shut off Blower 8/4/1998 2:45:00 PM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	20.0	1.0	95
0.77	19.0	1.5	100
1.25	18.0	1.5	120
1.75	17.0	1.5	120
2.26	15.5	2.1	120
2.75	14.5	2.0	160
3.25	13.0	3.0	160
3.78	12.0	3.9	180
4.28	11.0	3.9	220
4.78	10.0	4.5	200
5.79	9.0	5.0	200

MPD 12 ft bgs			
Shut off Blower 8/4/1998 2:45:00 PM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	20.9	0.5	34
0.35	20.5	0.0	82
0.75	20.0	0.0	80
0.99	19.5	0.0	70
1.24	19.5	0.2	78
1.74	18.0	0.5	60
1.99	16.5	0.4	100
2.11	16.0	0.5	100
2.25	15.5	0.5	72
2.74	14.0	0.8	100
3.23	11.5	1.2	120
3.77	10.0	2.0	120
3.92	9.5	2.0	160
4.09	9.0	2.5	160
4.26	8.5	2.6	180
4.76	7.0	3.9	200
5.74	5.0	5.0	200

MPD 17 ft bgs			
Shut off Blower 8/4/1998 2:45:00 PM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	19.5	1.0	190
0.10	19.0	1.0	260
0.33	16.0	2.0	460
0.73	12.5	3.5	720
0.85	11.0	4.0	820
0.97	10.0	4.0	900
1.10	8.5	4.5	880
1.18	8.0	5.0	1000
1.22	8.0	5.0	900
1.72	6.0	6.0	740
1.84	5.0	6.0	1000
1.97	4.0	6.5	1000
2.10	3.0	6.9	1000
2.23	3.0	6.9	900

MPD 7 ft bgs			
Shut off Blower 8/4/1998 2:45:00 PM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	20.9	0.0	54
0.77	20.5	0.5	80
1.26	20.0	0.5	98
1.76	19.0	0.5	100
2.27	18.0	0.5	98
2.75	17.5	0.6	100
3.25	16.5	0.7	100
3.78	15.0	0.9	100
4.28	15.5	1.0	140
4.78	13.0	1.5	140
5.79	10.5	2.5	160

MPE 12 ft bgs			
Shut off Blower 8/4/1998 2:45:00 PM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	20.0	0.8	74
0.36	19.0	1.0	100
0.75	16.0	2.5	140
0.99	14.5	3.0	140
1.11	14.0	3.0	140
1.24	13.5	3.5	180
1.74	11.0	4.5	180
1.86	10.5	4.9	240
1.99	10.0	4.9	220
2.25	10.0	5.0	180
2.74	9.0	7.0	200
3.10	8.0	6.5	180
3.23	8.0	6.5	180
3.77	7.0	7.5	180
4.09	6.0	7.0	200
4.26	6.0	6.9	260
4.76	6.0	8.5	240
5.78	5.0	8.1	240

MPE 17 ft bgs			
Shut off Blower 8/4/1998 2:45:00 PM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	12.0	8.5	920
0.32	10.0	7.0	1000
0.72	6.0	10.0	1000
0.85	5.0	10.5	1000
0.97	4.0	11.0	1200
1.09	3.5	11.0	1000
1.27	3.0	11.5	300
1.78	1.0	12.0	1000

MPE 7 ft bgs			
Shut off Blower 8/4/1998 2:45:00 PM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	19.0	2.0	110
0.77	17.0	2.5	140
1.26	17.0	2.5	140
1.76	15.0	3.0	140
2.27	14.0	3.5	140
2.75	13.0	4.0	200
3.25	12.0	4.0	200
3.79	11.0	4.9	180
4.28	10.5	4.5	240
4.78	10.5	5.2	220
5.80	9.5	5.5	200

MPF 12 ft bgs			
Shut off Blower 8/4/1998 2:45:00 PM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	20.9	0.0	42
0.36	21.0	0.5	70
0.75	20.0	0.5	82
0.99	20.0	0.5	78
1.24	19.5	0.5	92
1.74	18.5	0.5	60
1.99	17.5	0.5	100
2.25	17.0	0.6	64
2.74	16.0	0.8	100
3.23	14.0	0.8	100
3.77	13.0	1.2	100
4.10	11.5	1.5	100
4.27	11.0	1.5	160
4.76	10.5	2.0	140
5.78	8.5	2.8	140

MPF 17 ft bgs			
Shut off Blower 8/4/1998 2:45:00 PM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	17.0	4.0	500
0.10	17.0	3.0	500
0.33	17.0	3.5	620
0.73	16.0	4.0	720
0.85	15.0	4.0	760
0.98	14.5	4.0	940
1.10	14.0	4.0	680
1.22	13.5	4.0	940
1.72	12.0	4.5	620
1.85	11.5	4.5	1000
1.97	11.0	4.5	1000
2.10	10.5	4.5	1000
2.23	10.0	4.9	800
2.72	9.0	5.5	1000
2.86	8.0	5.9	1000
2.97	8.0	5.9	1000
3.09	7.0	5.9	940
3.22	7.0	6.0	700
3.76	6.0	6.2	740
3.92	5.0	6.2	660

MPF 7 ft bgs			
Shut off Blower 8/4/1998 2:45:00 PM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	20.5	0.5	68
0.77	20.5	0.5	100
1.26	19.0	0.5	100
1.76	19.5	0.6	100
2.27	19.0	0.7	100
2.75	18.0	0.7	100
3.25	17.0	0.8	100
3.79	16.0	0.9	100
4.28	15.0	0.9	140
4.79	14.0	1.0	140
5.80	12.0	1.2	120

MPG 12 ft bgs			
Shut off Blower 8/4/1998 2:45:00 PM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	18.0	2.5	120
0.36	18.0	2.5	120
0.76	17.0	3.0	160
1.00	16.5	3.0	160
1.24	16.0	3.0	160
1.74	15.0	3.2	140
1.99	14.0	3.5	200
2.12	14.0	3.5	140
2.26	14.0	3.5	180
2.74	13.0	4.5	180
3.23	12.0	4.5	180
3.78	11.0	4.9	180
4.10	10.0	4.9	180
4.27	9.5	4.9	240
4.77	8.5	6.0	220
5.79	7.0	6.2	220

MPG 17 ft bgs			
Shut off Blower 8/4/1998 2:45:00 PM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	11.0	8.5	1000
0.09	11.5	6.9	950
0.32	11.0	7.0	1000
0.72	10.0	8.0	1000
0.84	10.0	7.5	900
0.97	9.0	8.0	1200
1.09	8.5	8.0	1000
1.22	8.0	8.0	1200
1.72	8.0	8.0	1000
1.85	7.0	8.0	1200
1.98	6.5	8.8	1200
2.10	6.5	8.0	1200
2.24	6.0	8.8	1000
2.72	5.0	9.0	1000
2.86	5.0	9.5	1000
2.97	4.9	8.5	1000

MPG 7 ft bgs			
Shut off Blower 8/4/1998 2:45:00 PM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	20.0	0.8	88
0.78	19.5	1.0	100
1.27	18.0	1.2	120
1.77	18.0	1.2	120
2.27	17.0	1.5	120
2.76	16.5	2.0	160
3.25	15.0	2.2	160
3.79	14.5	2.8	160
4.29	14.0	2.8	200
4.79	13.0	3.2	220
5.80	11.0	3.5	200

MPH 12 ft bgs			
Shut off Blower 8/4/1998 2:45:00 PM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	20.9	0.0	38
0.36	21.0	0.0	52
0.76	20.5	0.0	76
1.00	19.5	0.2	72
1.25	19.0	0.4	76
1.75	17.5	0.4	76
1.86	17.0	0.5	100
2.00	17.0	0.5	100
2.26	16.0	0.6	100
2.74	14.0	1.0	100
2.98	13.5	0.7	100
3.10	12.5	1.0	100
3.24	12.0	1.2	120
3.78	11.0	2.0	140
4.10	10.0	2.0	140
4.27	9.0	2.5	200
4.77	7.5	4.0	200
5.79	5.0	4.9	220

MPH 17 ft bgs			
Shut off Blower 8/4/1998 2:45:00 PM			
Time Elapsed, day	O₂, %	CO₂, %	TPH, ppmv
0.00	20.0	1.0	220
0.10	19.0	1.0	250
0.33	18.0	1.5	500
0.73	15.5	2.5	580
0.85	14.5	2.5	540
0.97	14.0	3.0	820
1.10	13.0	3.0	620
1.73	10.5	4.0	640
1.85	10.0	4.0	900
1.98	9.5	4.0	1000
2.10	9.0	4.2	1000
2.24	8.5	4.5	680
2.73	7.0	5.5	1000
2.87	6.5	5.5	960
2.97	6.0	5.5	960
3.10	5.0	5.9	700
3.22	4.5	5.9	920

MPH 7 ft bgs			
Shut off Blower 8/4/1998 2:45:00 PM			
Time Elapsed, day	O ₂ , %	CO ₂ , %	TPH, ppmv
0.00	20.9	0.0	48
0.78	20.5	0.0	74
1.26	20.5	0.2	76
1.77	19.5	0.2	88
2.27	18.5	0.3	86
2.76	17.0	0.4	100
3.25	16.0	0.5	100
3.79	15.0	0.7	100
4.29	14.0	0.7	120
4.79	14.0	1.0	140
5.80	10.0	2.0	160