INSTALLATION RESTORATION PROGRAM (IRP)

PHASE II STAGE 2 INVESTIGATION

VOLUME III
APPENDICES G-J

127th FIGHTER WING
MICHIGAN AIR NATIONAL GUARD
SELFRIDGE AIR NATIONAL GUARD BASE
MT. CLEMENS, MICHIGAN

DECEMBER 1996

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Prepared For
ANGRC/CEVR
ANDREWS AFB, MARYLAND

REPORT DOCUMENTATION PAGE

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13. ABSTRACT *(Maximum 200 words)*

An investigation was performed on eight sites at Selfridge Air National Guard Base; Site 1 - Southwest Landfill, Site 2 - Fire Training Area 2, Site 3 - Fire Training Area 1, Site 4 - West Ramp, Site 5 - Tucker Creek Landfill, Site 6 - Northwest Landfill, Site 7 - East Ramp, and Site 8 - Base Coal Storage Pile. Volume III contains the following Appendices; G - Soil Boring and Well Completion Logs, H - Continuous Water Level Recorder Data, I - Hydraulic Conductivity Calculations, and J - Groundwater and Surface Water Sampling Documentation.

14. SUBJECT TERMS

Installation Restoration Program; Air National Guard; Phase II Stage 2 Investigation, Volume I, Selfridge Air National Guard Base, Mt. Clemens, Michigan

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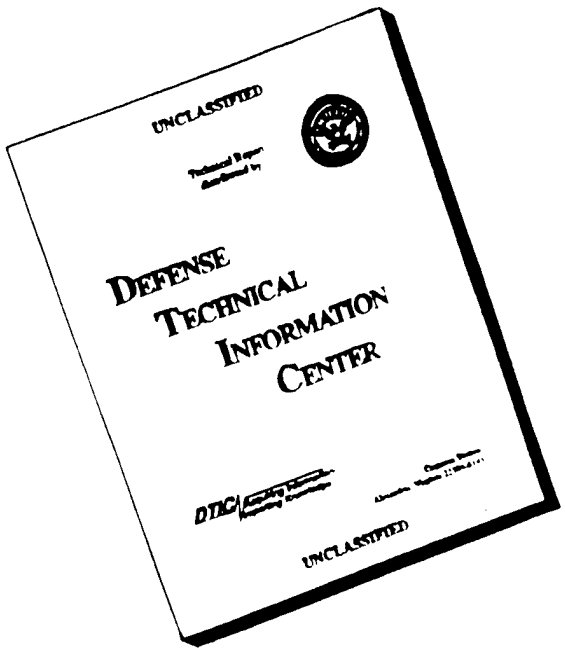

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1308-134

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127th FIGHTER WING
MICHIGAN AIR NATIONAL GUARD
SELFRIDGE AIR NATIONAL GUARD BASE
MT. CLEMENS, MICHIGAN

DECEMBER 1996

Operational Technologies Corporation Prepared

- Executive Summary
- Summary and Conclusions

Roy F. Weston, Inc. Prepared

- Introduction
- Field Investigation Program
- Preliminary Feasibility Study
- Results and Significance of Findings
- Environmental Setting
- Appendices A through Q

WESTON

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APPENDIX G

SOIL BORING AND WELL COMPLETION LOGS

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 02-422
OWNER: SELFRIDGE ANGB
LOCATION: FIRE TRAINING AREA # 2 (FTA-2)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: NA
TOTAL DEPTH: 30 FT
SURFACE ELEVATION: 579.69
WATER LEVEL: 11.0 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-8-88
DRILLER: DAVE CRUISE
HELPER: JIM BOERST
WELL COMPLETED: NA
LOG BY: HMB & WLN/WLN
CHECKED BY: RLM
SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0	B001	CS 01	100%	GRAVEL (fill) 0.5	100-700
				Green-gray Clayey SILT to Clayey SAND, massive, "very moist", "stiff to medium dense", "low plasticity", lacustrine or fill (ml, sc). 5.0	
5	B002	CS 02	100%	Light brown to gray green Silty CLAY, laminated, "moist", "low to med. plasticity", lacustrine (cl). 7.0	100-400
				Gray-brown SILT, laminated, "moist", "low plasticity", lacustrine (ml). 8.0	100-300
				Gray-brown Silty CLAY, laminated, "moist", "low to med. plasticity", lacustrine (cl). 10.0	NK
10		CS 03	100%	Gray-green to brown-green Silty CLAY, massive, "moist to very moist", "medium to high plasticity", lacustrine (cl). ▽ 11.0	100
					200
15		CS 04	100%		2-6
					10-40
20				(cont.)	

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 02-422 OWNER: SELFRIDGE ANGB

LOCATION: FIRE TRAINING AREA # 2 (FTA-2) ADDRESS: MT. CLEMENS, MICHIGAN

CASING ELEVATION: NA TOTAL DEPTH: 30 FT

SURFACE ELEVATION: 579.69 WATER LEVEL: 11 FT

DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-8-88

DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA

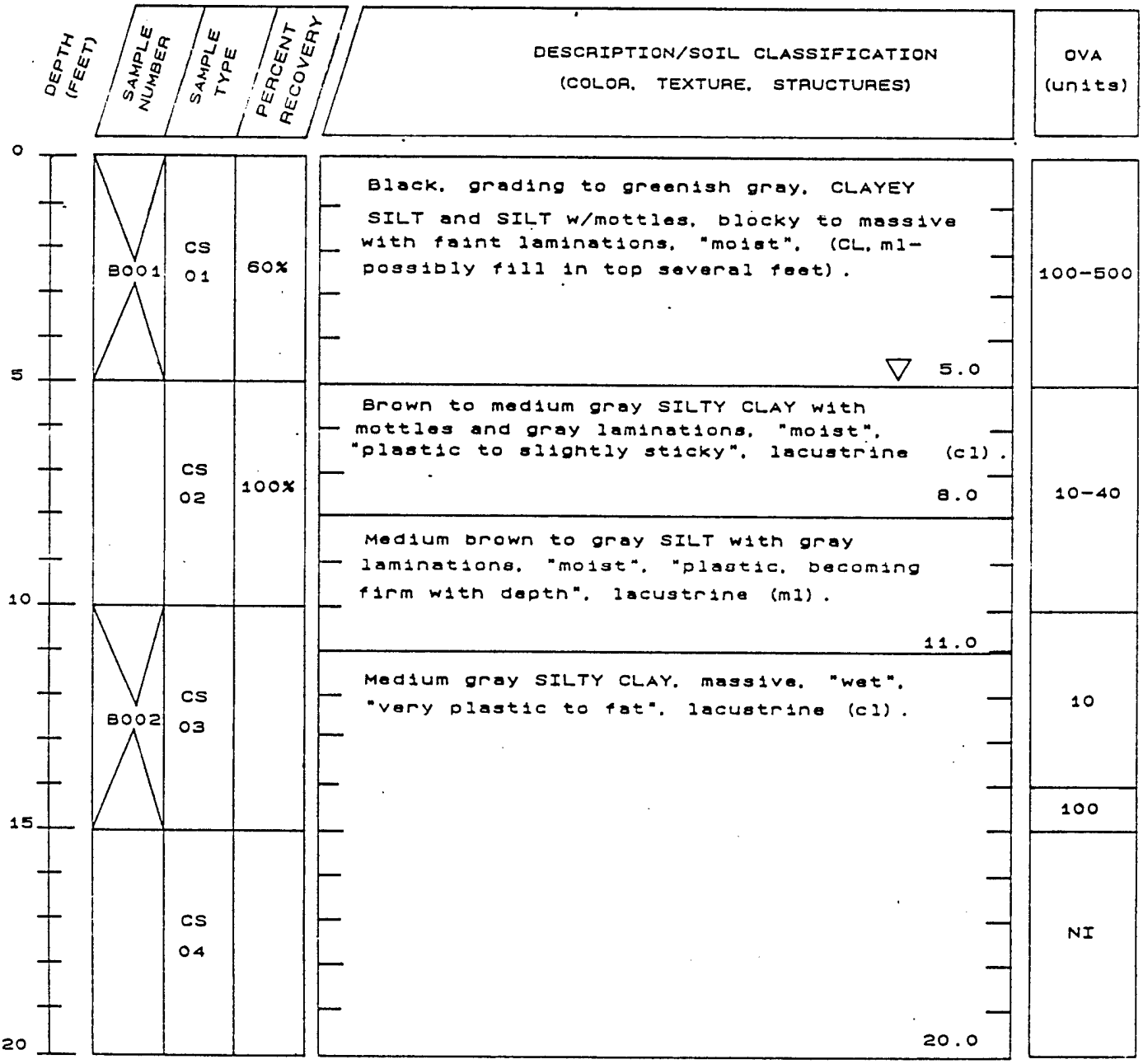
LOG BY: HMB & WLN/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20		CS 05	100%	As above	50-150
25		CS 06	60%	Gray Silty CLAY, trace sand, massive, "moist", "soft to very soft", "medium to high plasticity", lacustrine (cl).	2-4
30				E.O.B. at 30 FT	

DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 02-423
OWNER: SELFRIDGE ANGB
LOCATION: FIRE TRAINING AREA # 2 (FTA-2)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: NA
TOTAL DEPTH: 30 FT
SURFACE ELEVATION: 579.92
WATER LEVEL: 5 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-8-88
DRILLER: DAVE CRUISE
HELPER: JIM
WELL COMPLETED: NA
LOG BY: HMR/WLN
CHECKED BY: RLM
SHEET 1 OF 2



DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 02-423
OWNER: SELFRIDGE ANGB
LOCATION: FIRE TRAINING AREA # 2 (FTA-2)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: NA
TOTAL DEPTH: 30 FT
SURFACE ELEVATION: 579.92
WATER LEVEL: 5 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-8-88
DRILLER: DAVE CRUISE
HELPER: JIM
WELL COMPLETED: NA
LOG BY: JDO/WLN
CHECKED BY: RLM
SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20	B003	CS 05	100%	Gray Silty CLAY, trace sand, massive, "wet", "soft", "medium to very plastic", lacustrine (cl).	NK
25		CS 06	100%		10-20
30				E.O.B. at 30 FT	

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 02-424 OWNER: SELFRIDGE ANGB

LOCATION: FIRE TRAINING AREA # 2 (FTA-2) ADDRESS: MT. CLEMENS, MICHIGAN

CASING ELEVATION: NA TOTAL DEPTH: 30 FT

SURFACE ELEVATION: 579.80 WATER LEVEL: 11 FT

DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-9-88

DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA

LOG BY: WLN/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0	B001	CS 01	64%	GRAVEL (fill) 0.5	
				Brown to gray Clayey SILT (fill) 2.0	10
				Gray Silty CLAY w/ brown mottles, massive, "moist", "medium stiff", "low plasticity", lacustrine (cl).	40
5		CS 02	100 %		10
				Gray Silty CLAY w/minor brown mottles, some sand, "moist", "medium stiff", "low plasticity", lacustrine (cl). 10.0	2
10	B002	CS 03	100 %	Gray Silty CLAY, massive, "moist" from 10 to 11 FT, "wet" below 11 FT, "soft", "medium to high plasticity", lacustrine (cl). ▽ 11.0	4
					10
15		CS 04	100 %		2-4
20				(cont.)	

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 02-424
OWNER: SELFRIDGE ANGB
LOCATION: FIRE TRAINING AREA # 2 (FTA-2)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: NA
TOTAL DEPTH: 30 FT
SURFACE ELEVATION: 579.80
WATER LEVEL: 11 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-9-88
DRILLER: DAVE CRUISE
HELPER: JIM BOERST
WELL COMPLETED: NA
LOG BY: WLN/WLN
CHECKED BY: RLM
SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20	CS 05		100 %	As above	1-5
				23.5 Gray Silty CLAY, trace sand, massive, "wet", "soft" "medium to high plasticity", lacustrine (cl). 26.0	
25	CS 06		100 %	Gray Silty CLAY, massive, "wet", "soft to very soft", "medium to high plasticity", lacustrine (cl).	1-4
30				E.O.B. at 30 FT	

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 03-418 OWNER: SELFRIDGE ANGB

LOCATION: FIRE TRAINING AREA # 1 (FTA-1) ADDRESS: MT. CLEMENS, MICHIGAN

CASING ELEVATION: NA TOTAL DEPTH: 30 FT

SURFACE ELEVATION: 580.24 WATER LEVEL: 12 FT

DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-7-88

DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA

LOG BY: WLN/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0		CS 01	100%	GRAVEL, 1-inch diameter (fill). 0.5	NK
				Brown Silty SAND (fill). 1.0	
	B001 B101	CS 02	38%	Black SILT and GRAVEL with miscellaneous fill material, including glass (fill). 3.0	1-10
5				Brown Silty CLAY with gray mottles, laminaed "moist", "firm to stiff", lacustrine (cl).	NK
		CS 03	100%		1-3
10		CS 04	100%	▽ 12.0	
				12.0 Gray Silty CLAY with very minor brown mottles, massive, "wet", "medium plasticity and sticky", lacustrine (cl). 15.0	0
15	B002	CS 05	100%	Gray Silty CLAY, trace sand and silt lenses, massive, "wet", "soft", "medium to high plasticity", lacustrine-reworked till (cl). (cont.)	0-1
20					

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 03-418

OWNER: SELFRIDGE ANGB

LOCATION: FIRE TRAINING AREA # 1 (FTA-1)

ADDRESS: MT. CLEMENS, MICHIGAN

CASING ELEVATION: NA

TOTAL DEPTH: 30 FT

SURFACE ELEVATION: 580.24

WATER LEVEL: 12 FT

DRILLING COMPANY: ETI

DRILLING METHOD: 4.25 HSA

BORING COMPLETED: 1-7-88

DRILLER: DAVE CRUISE

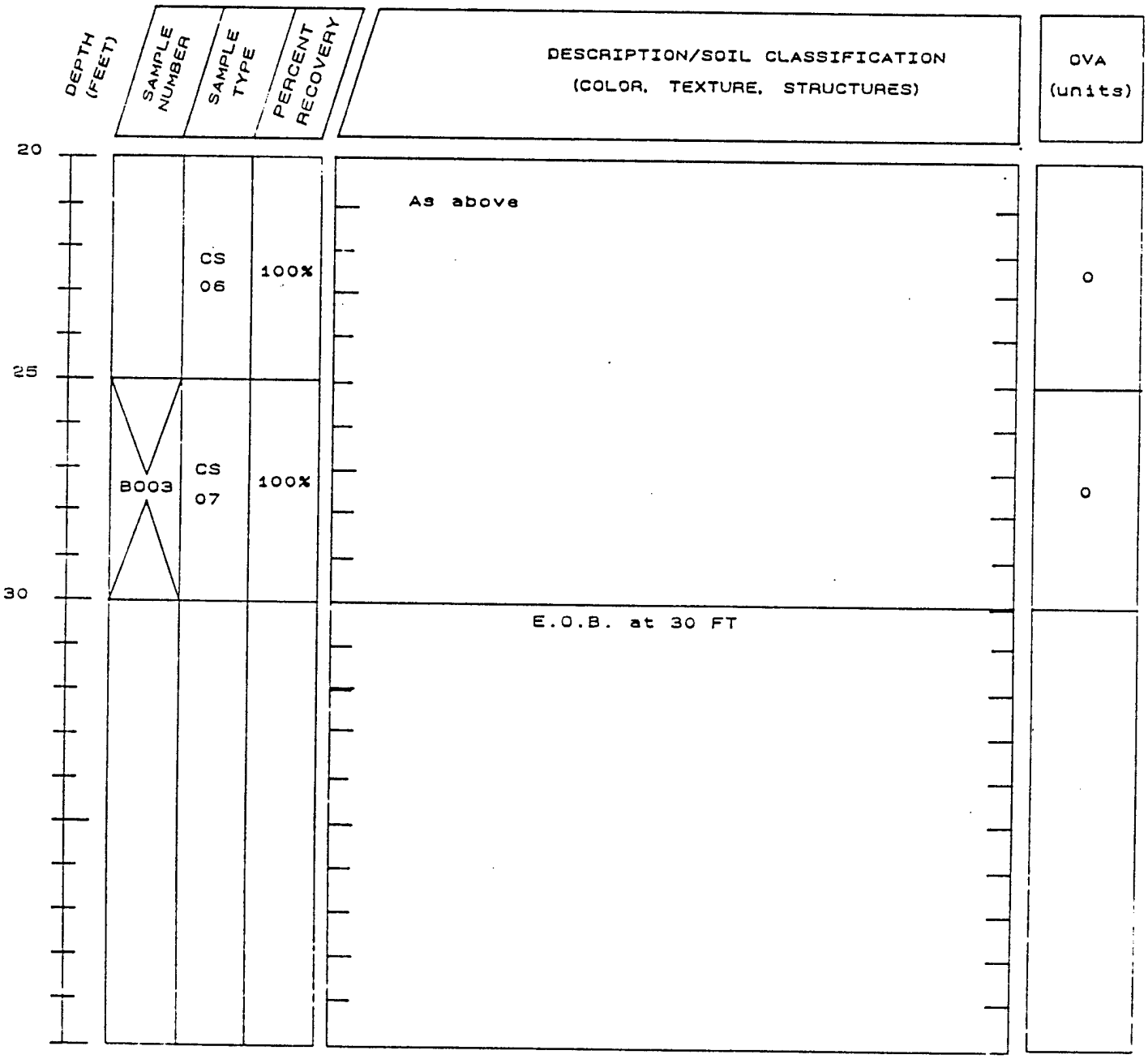
HELPER: JIM BOERST

WELL COMPLETED: NA

LOG BY: WLN/WLN

CHECKED BY: RLM

SHEET 2 OF 2



DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 03-419 OWNER: SELFRIDGE ANGB

LOCATION: FIRE TRAINING AREA # 1 (FTA-1) ADDRESS: MT. CLEMENS, MICHIGAN

CASING ELEVATION: NA TOTAL DEPTH: 30 FT

SURFACE ELEVATION: 580.31 WATER LEVEL: 13 FT

DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-7-88

DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA

LOG BY: JDO/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0	B001 B001 MS	CS 01	78%	Light brown GRAVEL road aggregate (fill). 1.5	10-20
				Brown, fine SAND with iron staining "moist", black-staining at 2.0 FT (fill). 3.5	10-100
5	B002	CS 02	84%	Green-gray to brown Silty CLAY with gray and brown mottles, laminated, "moist", "stiff", "low plasticity" lacustrine (cl).	10-20
10		CS 03	100%	▽ 13.0	10-20
				15.0	Q
15		CS 04	96%	Gray Silty CLAY interbedded with 1 to 2 inch sandy silt layers, "wet", "soft", "high plasticity", lacustrine (cl).	5-10
				(Cont.)	10
20					

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 03-419 OWNER: SELFRIDGE ANGB

LOCATION: FIRE TRAINING AREA # 1 (FTA-1) ADDRESS: MT. CLEMENS, MICHIGAN

CASING ELEVATION: NA TOTAL DEPTH: 30 FT

SURFACE ELEVATION: 580.31 WATER LEVEL: 13 FT

DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-7-88

DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA

LOG BY: JDO/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
		CS 05	100%	As above	10
					40
	B003		100%		2-3
				28.0	
				Light gray Sandy CLAY with some gravel, massive, "wet", "medium to high plasticity", lacustrine-reworked till (sc).	20-30
				30.0	
				E.O.B. at 30 FT	

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 03-420
OWNER: SELFRIDGE ANGB
LOCATION: FIRE TRAINING AREA # 1 (FTA-1)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: NA
TOTAL DEPTH: 30 FT
SURFACE ELEVATION: 580.26
WATER LEVEL: 11.5 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-7/8-88
DRILLER: DAVE CRUISE
HELPER: JIM BOERST
WELL COMPLETED: NA
LOG BY: JDO/WLN
CHECKED BY: RLM
SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0				Red-brown GRAVEL road aggregate (fill).	NK
	B001	SS 01	75%	1.5 Black SILT, organic, with black laminations "moist", (fill).	0
				2.7 Green-gray to brown Silty CLAY with brown mottles, petroleum odor from 2.7 to 3.0 FT and oily film from 6.0 to 7.5 FT, laminated, "moist", "medium stiff to stiff".	10-12
5					NK
	B002	CS 02	90%		10-12
					1-5
10					NK
		CS 03	100%	▽ 11.5 11.5 Gray Silty CLAY, massive, "wet", "medium to high plasticity", lacustrine (cl).	3
					12
15					10
		CS 04	80%	17.0 Gray Silty CLAY, trace sand and silt lenses, massive, "wet", "soft", "medium to high plasticity", lacustrine-reworked till (cl).	30
20				(Cont.)	

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 03-420 OWNER: SELFRIDGE ANGB

LOCATION: FIRE TRAINING AREA # 1 (FTA-1) ADDRESS: MT. CLEMENS, MICHIGAN

CASING ELEVATION: NA TOTAL DEPTH: 30 FT

SURFACE ELEVATION: 580.26 WATER LEVEL: 11.5 FT

DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-7/8-88

DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA

LOG BY: JDO/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20	B003	CS 05	96%	As above	8-12
25		CS 06	100%		10-25
30				E.O.B. at 30 FT	

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 04-406
OWNER: SELFRIDGE ANGB
LOCATION: WEST RAMP
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: NA
TOTAL DEPTH: 29.5 FT
SURFACE ELEVATION: 579.05
WATER LEVEL: 9.5 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-20-88
DRILLER: DAVE CRUISE
HELPER: JIM BOERST
WELL COMPLETED: NA
LOG BY: JDO/WLN
CHECKED BY: RLM
SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0	B001	CS 01	100%	Black Clayey SILT, roots (fill with topsoil development). 0.5	
				Olive gray Silty CLAY with orange mottles, massive, "moist", "firm", (fill). 5.0	0
5	B002	CS 02	100%	Olive gray Silty CLAY with orange motles, laminated, "moist", "medium stiff", "low plasticity", lacustrine (cl). ▽ 9.5	0
10		CS 03	100%	Gray Silty CLAY with gray mottles, massive, "moist", "soft", "medium to high plasticity", lacustrine (cl).	1
					3
15		CS 04	100%		1-4
20				20.0	1

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 04-406
OWNER: SELFRIDGE ANGB
LOCATION: WEST RAMP (WRMP)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: NA
TOTAL DEPTH: 29.5 FT
SURFACE ELEVATION: 579.05
WATER LEVEL: 9.5 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-20-88
DRILLER: DAVE CRUISE
HELPER: JIM BOERST
WELL COMPLETED: NA
LOG BY: JDO/WLN
CHECKED BY: RLM
SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY *	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20	B003	CS 05	60%	Gray Clayey SAND to Clayey SILT, trace gravel, massive, "moist to wet", "soft", organic lacustrine-reworked till (sc, ml).	1000
25		CS 06	100%		
		SS 07	40 64 110 30	26.0 Light gray Silty SAND, some clay and gravel, massive, "dry", and crumbly, very dense, till (sm).	100 - 400 / 20-40
		SS 08	45 58 108 100/6"		2-20
30				E.O.B. at 29.5 FT	

* Samples SS-07 and SS-08 were collected using the Standard Penetration Test (ASTM D-1586) Method. The values given are blow counts.

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 04-407 OWNER: SELFRIDGE ANGB

LOCATION: WEST RAMP ADDRESS: MT. CLEMENS, MICHIGAN

CASING ELEVATION: NA TOTAL DEPTH: 30 FT

SURFACE ELEVATION: 580.23 WATER LEVEL: 12 FT

DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 12-20-87

DRILLER: DAVE CRUISE HELPER: GREG SCALLON WELL COMPLETED: NA

LOG BY: CKW/WLN CHECKED BY: RLM SHEET 1 OF 2

KEVIN McCUMBER

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0		SS 01	2 4 8 7	Brown to black Silty CLAY, trace gravel, "stiff", (fill w/ topsoil development). 0.5	0
		SS 02	7 8 10 13	Brown Clayey SILT to Clayey SAND, massive, "dry", stiff to very stiff (fill). 4.0	0
5	B001	SS 03	7 7 10 10	Light gray to very dark gray Silty CLAY with brown to black streaks, "dry", very stiff, "low plasticity", lacustrine (cl). 7.0	0.0-0.2
		SS 04	2 4 5 10	Brown Silty CLAY, some sand, laminated, and mottled, "dry", "v. stiff", lacust. (cl). 7.5	0.0-0.5
		SS 05	2 4 8 8	Gray and brown Silty CLAY, trace gravel, laminated, "moist", stiff to very stiff, "low plast.", lacustrine-reworked till (cl).	0
10		SS 06	2 3 4 5	▽ 12.0 12.0	0
		SS 07	0 1 1 1	Gray Silty CLAY, trace gravel, massive, "wet", soft to very soft, "medium to high plasticity", lacustrine-reworked till (cl).	0
15		SS 08	0 0 0 0		2-7
		SS 09	0 0 0 0		2-7
		SS 10	0 0 0 0	(cont.)	2-7
20					

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 04-407 OWNER: SELFRIDGE ANGB

LOCATION: WEST RAMP (WRMP) ADDRESS: MT. CLEMENS, MICHIGAN

CASING ELEVATION: NA TOTAL DEPTH: 30 FT

SURFACE ELEVATION: 580.23 WATER LEVEL: 12 FT

DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 12-20-87

DRILLER: KEVIN McCUMBER HELPER: GREG SCALLON WELL COMPLETED: NA

LOG BY: CKW/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20	B002	SS 11	0 0 0 0	As above	4-8
				22.0	
		SS 12	0 0 0 0	Gray Silty CLAY, some sand, trace gravel, massive, "wet", very soft, "medium to high plasticity", lacustrine-reworked till (cl).	4-20
25	B003	SS 13	0 0 0 0		4-10
		SS 14	0 0 0 5		8-20
		SS 15	20 35 76 82	Gray Silty SAND, trace gravel, massive, "dry", very dense, "low plasticity", till (sm).	2-4
30				E.O.B. at 30 FT	
35					

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 04-408 OWNER: SELFRIDGE ANGB

LOCATION: WEST RAMP (WRMP) ADDRESS: MT. CLEMENS, MICHIGAN

CASING ELEVATION: NA TOTAL DEPTH: 30 FT

SURFACE ELEVATION: 579.02 WATER LEVEL: 10 FT

DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-20-88

DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA

LOG BY: JDO/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0	B001 B101	CS 01	100%	Gray to black SILT, organic, roots, "moist", (topsoil in fill) 0.5	
				Olive gray Silty CLAY with iron-stain mottles, black staining from 3.5 to 4.5 FT, "moist", "medium stiff", "low to medium plasticity", lacustrine, with top several feet probably fill material (fill, cl).	0
5		CS 02	100%		0
10	B002	CS 03	100%	▽ 10.0 10.0 Dark olive gray Silty CLAY with gray mottles, massive, "wet", "soft", "medium to high plasticity", lacustrine (cl).	0.0 - 0.5
15		CS 04	100%		1-2
20				20.0	

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 04-408
OWNER: SELFRIDGE ANGB
LOCATION: WEST RAMP (WRMP)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: NA
TOTAL DEPTH: 30 FT
SURFACE ELEVATION: 579.02
WATER LEVEL: 10 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-20-88
DRILLER: DAVE CRUISE
HELPER: JIM BOERST
WELL COMPLETED: NA
LOG BY: JDO/WLN
CHECKED BY: RLM
SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20		CS 05	100%	Dark olive gray Silty CLAY with gray mottles, OVA reading in borehole = 1000+ ppm, massive "wet", "soft", "medium to high plasticity", organic lacustrine (cl).	0
25	B003	CS 06	42%	25.0 Light gray Silty SAND, some gravel, massive, "moist", "medium dense", till (sm).	NK
30				E.O.B. at 30 FT	
35					
40					

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 04-409
OWNER: SELFRIDGE ANGB
LOCATION: WEST RAMP (WRMP)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: NA
TOTAL DEPTH: 30 FT
SURFACE ELEVATION: 579.40
WATER LEVEL: 11 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-22-88
DRILLER: DAVE CRUISE
HELPER: JIM BOERST
WELL COMPLETED: NA
LOG BY: JDO/WLN
CHECKED BY: RLM
SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0				Black SILT, organic, with iron-stained horizons, roots, "moist" (topsoil in fill).	0
		CS 01	24%	Olive gray Silty CLAY with iron-stain mottles, some lamination, "moist", "m. stiff", "low plasticity", lacustrine, with top several feet probably fill (fill, cl). 1.2	NK
5		CS 02	100%		0
	B001				
10		CS 03	100%	▽ 11.0 11.0 Light gray Silty CLAY with gray mottles, massive, "moist to wet", "medium to high plasticity", lacustrine (cl).	0
15	B005 B002 MS	CS 04	100%		3-4
20				(cont.)	

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 04-409 OWNER: SELFRIDGE ANGB

LOCATION: WEST RAMP (WRMP) ADDRESS: MT. CLEMENS,

MICHIGAN

CASING ELEVATION: NA TOTAL DEPTH: 30 FT

SURFACE ELEVATION: 579.40 WATER LEVEL: 11 FT

DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-21/22-88

DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA

LOG BY: JDO/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20		CS 05	94%	As above	50-70
				23.0 Gray Clayey SAND with some gray mottling, massive, "wet", "soft", "low to med. plast.", organic lacustrine-reworked till (sc).	
25		CS 06	44%	25.0 Light olive gray Silty SAND, "moist to wet", "medium dense", till (sm).	800
	8003				
30				30.0 E.O.B. at 30 FT	1000

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 04-410
OWNER: SELFRIDGE ANGB
LOCATION: WEST RAMP (WRMP)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: NA
TOTAL DEPTH: 30 FT
SURFACE ELEVATION: 578.55
WATER LEVEL: 8 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 12-21-87
DRILLER: KEVIN McCUMBER
HELPER: GREG SCALLON
WELL COMPLETED: NA
LOG BY: CWK/WLN
CHECKED BY: RLM
SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0		SS 01	4 7 7 10	Gray-brown Silty CLAY, organic, with iron-staining, stiff (topsoil in fill). 2.0	0
		SS 02	2 4 5 7	Brown Clayey SILT, trace gravel and sand, some black organic wood chunks and coal chunks, massive "moist", stiff (fill). 4.5	0
5		SS 03	2 4 6 7	Brown to gray Silty CLAY with gray mottling, laminated, "moist", stiff, "low plasticity", lacustrine (cl).	0
	B001	SS 04	2 5 8 7	▽ 8.0 8.0	0
		SS 05	0 0 1 2	Gray Silty CLAY, no mottling, trace gravel and sand, massive, "wet", very soft, "medium to high plasticity" lacustrine-reworked till (cl).	0
10		SS 06	0 0 0 1		0
		SS 07	0 0 0 1		0
	B002 B102	SS 08	0 0 0 0		0
15		SS 09	0 0 0 0		0
		SS 10	0 0 0 0	(cont.)	0
20					

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 04-410
OWNER: SELFRIDGE ANGB
LOCATION: WEST RAMP (WRMP)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: NA
TOTAL DEPTH: 30 FT
SURFACE ELEVATION: 578.55
WATER LEVEL: 8 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 12-21-87
DRILLER: KEVIN McCUMBER
HELPER: GREG SCALLON
WELL COMPLETED: NA
LOG BY: CWK/WLN
CHECKED BY: RLM
SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20		SS 11	0 0 0 0	As above	0.5 - 2.0
		SS 12	0 0 0 0		0.5 - 2.0
				24.0	
25	B003	SS 13	20 33 50 57	Light gray Sandy SILT, some clay and gravel, massive, hard, "dry", low plasticity", till (sm).	1-2
		SS 14	60 71 63 ?		1-2
		SS 15	40 100/5"		1-2
30				E.O.B. at 30 FT	

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 04-411 OWNER: SELFRIDGE ANGB

LOCATION: WEST RAMP (WRMP) ADDRESS: MT. CLEMENS, MICHIGAN

CASING ELEVATION: NA TOTAL DEPTH: 30 FT

SURFACE ELEVATION: 582.04 WATER LEVEL: 9 FT

DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 12-22-87

DRILLER: KEVIN McCUMBER HELPER: GREG SCALLON WELL COMPLETED: NA

LOG BY: CWK/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0		SS 01	2 6 6 10	Brown to black Silty CLAY, trace gravel, stiff (topsoil in fill). 1.0	0
		SS 02	6 6 10 12	Red-brown Clayey SILT with iron-staining, some sand, trace gravel, massive, very "low plasticity", stiff (fill).	0
5		SS 03	2 3 9 8	5.0	0
		SS 04	2 6 10 10	Brown to gray Silty CLAY with gray mottling, laminated, "moist", very stiff, "low plasticity, lacustrine (cl).	0
	B001 B001 MS	SS 05	2 8 2 3	▽ 9.0	0
10		SS 06	0 0 0 2	Gray Silty CLAY, no mottling, massive, "wet", very soft, "medium to high plasticity", lacustrine (cl).	0
		SS 07	0 0 0 0		0
15		SS 08	0 0 0 1		0.0 - 0.5
		SS 09	0 0 0 0		0.0 - 0.5
		SS 10	0 0 0 0	(cont.)	0
20					

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 04-411 OWNER: SELFRIDGE ANGB

LOCATION: WEST RAMP (WRMP) ADDRESS: MT. CLEMENS,

MICHIGAN

CASING ELEVATION: NA TOTAL DEPTH: 30 FT

SURFACE ELEVATION: 582.04 WATER LEVEL: 9 FT

DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 12-22-87

DRILLER: KEVIN McCUMBER HELPER: GREG SCALLON WELL COMPLETED: NA

LOG BY: CWK/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20		SS 11	0 0 0 1	As above 21.0	0.0 - 2.0
	B002	SS 12	0 0 0 0	Gray Clayey SAND, some silt, massive "wet", very loose, "medium to high plast.", lacustrine-reworked till (sc).	0.0 - 2.0
25		SS 13	0 0 0 0		2-4
		SS 14	0 0 0 0	28.0	2-4
	B003	SS 15	63 100/6"	Light gray Sandy SILT, some clay, massive, "dry to moist", very dense, till (sm). 30.0	600 - 800
30				E.O.B. at 30 FT	
35					
40					

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 04-412
OWNER: SELFRIDGE ANGB
LOCATION: WEST RAMP (WRMP)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: NA
TOTAL DEPTH: 30 FT
SURFACE ELEVATION: 575.88
WATER LEVEL: 6.5 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 12-22-87
DRILLER: DAVE CRUISE
HELPER: JIM BOERST
WELL COMPLETED: NA
LOG BY: JDO/WLN
CHECKED BY: RLM
SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0		CS 01	90%	Black SILT, organic, roots, "moist", (topsoil in fill). 0.5	NK
				Olive geen-gray Clayey SILT with iron-stain mottles, "moist", "medium stiff", lacustrine, with top several feet probably fill (fill, cl).	
5	B001	CS 02	100%	▽ 6.5 6.5 Light gray Silty CLAY with gray mottles, massive, "wet", "soft", "medium to high plasticity", lacustrine (cl).	NK
10		CS 03	100%		NK
15	B002	CS 04	100%	15.0 Light gray Silty CLAY, some sand layers, "wet", "soft", "medium to high plasticity", lacustrine (cl).	NK
20				20.0	

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 04-412

OWNER: SELFRIDGE ANGB

LOCATION: WEST RAMP (WRMP)

ADDRESS: MT. CLEMENS, MICHIGAN

CASING ELEVATION: NA

TOTAL DEPTH: 30 FT

SURFACE ELEVATION: 575.88

WATER LEVEL: 6.5 FT

DRILLING COMPANY: ETI

DRILLING METHOD: 4.25 HSA

BORING COMPLETED: 12-22-87

DRILLER: DAVE CRUISE

HELPER: JIM BOERST

WELL COMPLETED: NA

LOG BY: JDO/WLN

CHECKED BY: RLM

SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20	CS 05		100%	Light gray Clayey SAND with gray mottles, changing to orange mottles toward base, "wet", "soft", "medium to high plasticity", lacustrine-reworked till (sc).	NK
25	B003	CS 06	70%	25.0 Light gray Clayey GRAVEL, some sand and silt, brown liquid film on sample surface, "wet", "loose", till (gc).	NK
30				E.O.B. at 30 FT	

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 04-413
OWNER: SELFRIDGE ANGB
LOCATION: WEST RAMP (WRMP)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: NA
TOTAL DEPTH: 30 FT
SURFACE ELEVATION: 576.52
WATER LEVEL: 3 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-4/5-88
DRILLER: DAVE CRUISE
HELPER: JIM BOERST
WELL COMPLETED: NA
LOG BY: HSR/WLN
CHECKED BY: RLM
SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0	B001	CS 01	60%	Medium gray Silty CLAY with orange-brown mottles, laminated, "stiff", "low plasticity", lacustrine (cl). 1.5	0.0 - 0.5
				▽ 3.0	0
5		CS 02	100%	Gray Silty CLAY, no mottles, massive, "moist to wet", "soft to very soft", "medium to high plasticity", lacustrine (cl).	NK
					0.5 - 1.0
10	B002	CS 03	100%		0
					8
15		CS 04	100%		5-10
					20-30
20				20.0	

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 04-413 OWNER: SELFRIDGE ANGB

LOCATION: WEST RAMP (WRMP) ADDRESS: MT. CLEMENS, MICHIGAN

CASING ELEVATION: NA TOTAL DEPTH: 30 FT

SURFACE ELEVATION: 576.52 WATER LEVEL: 3 FT

DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-5-88

DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA

LOG BY: HSR/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20		CS 05	100%	Gray Silty CLAY, OVA reading down borehole = 1000+, massive, "wet", "very soft", "medium to high plasticity", organic lacustrine (cl).	0
				24.0	
25	B003 B103	CS 06	60%	Gray CLAYEY SAND, some silt, massive, "wet", "very loose to loose", "medium to high plasticity", lacustrine-reworked till (sc).	2-5
					NK
30				30.0	
				E.O.B. at 30 FT	

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 04-414 OWNER: SELFRIDGE ANGB

LOCATION: WEST RAMP (WRMP) ADDRESS: MT. CLEMENS, MICHIGAN

CASING ELEVATION: NA TOTAL DEPTH: 28.5 FT

SURFACE ELEVATION: 575.80 WATER LEVEL: 4.0 FT

DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-5-88

DRILLER: KEVIN McCUMBER HELPER: GREG SCALLON WELL COMPLETED: NA

LOG BY: HMR & WLN/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY *	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0				Olive gray Clayey SILT with orange mottling, some sand, massive, "moist", "stiff", "medium plasticity", (fill). 1.0	
	B001	SS 01	4 6 5 8	Olive gray Silty CLAY, some sand laminae, "moist", stiff, "medium plasticity", lacustrine (cl).	NK
	B002			▽ 4.0	5
5		CS 02	100%	Gray Silty CLAY with orange mottling, massive, "moist", "soft", "medium to high plasticity", lacustrine (cl).	0
10		CS 03	80%		1-2
15	B003	CS 04	90%	18.0	0-10
20		CS 05	96%	Gray Silty CLAY, no mottling, massive, "moist", "soft", "medium to high plasticity", lacustrine (cl). (cont.)	1-2

* Sample SS-01 was collectd using the Standard Penetration Test (ASTM D-1586). Values given are blow counts.

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 04-414 OWNER: SELFRIDGE ANGB

LOCATION: WEST RAMP (WRMP) ADDRESS: MT. CLEMENS, MICHIGAN

CASING ELEVATION: NA TOTAL DEPTH: 28.5 FT

SURFACE ELEVATION: 575.80 WATER LEVEL: 4.0 FT

DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-5-88

DRILLER: KEVIN McCUMBER HELPER: GREG SCALLON WELL COMPLETED: NA

LOG BY: HMR & WLN/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20				As above	
				21.5	
				Gray Clayey SAND, some silt, massive, "wet", "loose", "medium to high plasticity", lacustrine-reworked till (sc).	3-5
					6-10
25	B004	CS 06	100%		2-3
				28.0	
		SS 07	100%	Light gray Sandy SILT, some clay and gravel, massive, "dry", very hard, "low plasticity", till (sm).	2-3
				28.5	
30				E.O.B. at 28.5 FT	

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 04-415
OWNER: SELFRIDGE ANGB
LOCATION: WEST RAMP (WRMP)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: NA
TOTAL DEPTH: 30 FT
SURFACE ELEVATION: 576.53
WATER LEVEL: 5 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-5-88
DRILLER: DAVE CRUISE
HELPER: JIM BOERST
WELL COMPLETED: NA
LOG BY: WLN/WLN
CHECKED BY: RLM
SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0		CS 01	60%	Gray Silty CLAY with iron-stain mottles, massive, "moist", "stiff", "low plast." (fill).	0
5	B001 B001 MS	CS 02	100%	▽ 5.0 Gray Silty CLAY with gray mottling, massive, "wet", "very soft", "medium to high plasticity", lacustrine (cl).	1
10		CS 03	90%		1
15	B002	CS 04	90%		0
20				20.0	2-3

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 04-415 OWNER: SELFRIDGE ANGB

LOCATION: WEST RAMP (WRMP) ADDRESS: MT. CLEMENS, MICHIGAN

CASING ELEVATION: NA TOTAL DEPTH: 30 FT

SURFACE ELEVATION: 576.53 WATER LEVEL: 5 FT

DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-5-88

DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA

LOG BY: WLN/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20		CS 05	50%	Gray Silty CLAY, no mottling, OVA reading down borehole = 1000 +units, massive, "wet", "very soft", "medium to high plasticity", organic lacustrine (cl). 21.5	10-100
				Gray Silty SAND, trace to some gravel, massive, "moist", becoming "dry" at 25 FT "dense", till (sm).	
25	B003	CS 06	40%		10-28
30				E.O.B. at 30 FT	

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 05-401 OWNER: SELFRIDGE ANGB

LOCATION: TUCKER CREEK LANDFILL (TCLF) ADDRESS: MT. CLEMENS, MICHIGAN

CASING ELEVATION: NA TOTAL DEPTH: 30 FT

SURFACE ELEVATION: 573.81 WATER LEVEL: 8 FT

DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 12-17-88

DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA

LOG BY: JDO/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY *	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0				Gray to brown Silty CLAY with iron-stain mottling, trace gravel, black organic silt with roots near top, "moist", "medium stiff to stiff", "low to medium plasticity", (fill with topsoil development near top). 2.0	
	B001	CS 01	100%	Black SILT, organic, "moist", "medium stiff to stiff", "low to medium plasticity", topsoil (ol). 3.0	0
				Brown Silty CLAY with black organic streaks and some iron-stain mottling, "moist", "stiff", "medium plasticity", lacustrine (cl). 5.0	
5				Gray Silty CLAY, trace gravel near base, massive, "moist" 5-8 FT, "wet" below 8 FT, "soft", "medium to high plasticity", lacustrine (cl). ▽ 8.0	
	B002	CS 02	100%		NK
10		CS 03	100%		NK
15		CS 04	100%	16.0	NK
		SS 05	18 22 25 23	Gray Sandy CLAY, some gravel, massive, "wet", hard, "medium plasticity", lacustrine-reworked till (sc). 19.0	NK
20		SS 06	17 23	Gray Sandy SILT, some gravel, generally massive, "moist", hard, "low plasticity", till (sm). (cont.)	NK

* Sample SS-05 and SS-06 were obtained using the Standard Penetration Test (ASTM D-1586). Values shown are blow counts.

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 05-401
OWNER: SELFRIDGE ANGB
LOCATION: TUCKER CREEK LANDFILL (TCLF)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: NA
TOTAL DEPTH: 30 FT
SURFACE ELEVATION: 573.81
WATER LEVEL: 8 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 12-17-88
DRILLER: DAVE CRUISE
HELPER: JIM BOERST
WELL COMPLETED: NA
LOG BY: JDO/WLN
CHECKED BY: RLM
SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20		SS 06	73 50	As above	NK
		SS 07	17 18 25 22		NK
		SS 08	28 36 39 43		NK
25	B003	SS 09	3 9 12 18		NK
		SS 10	22 37 52		2-250
		SS 11	29 35 29		200
30				EOB AT 30 FT	

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 05-402
OWNER: SELFRIDGE ANGB
LOCATION: TUCKER CREEK LANDFILL (TCLF)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: NA
TOTAL DEPTH: 30 FT
SURFACE ELEVATION: 574.22
WATER LEVEL: 8 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 12-18-87
DRILLER: DAVE CRUISE
HELPER: JIM BOERST
WELL COMPLETED: NA
LOG BY: JDO/WLN
CHECKED BY: RLM
SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0	B001	CS 01	100%	Yellow-brown Silty CLAY, some gravel, massive, "stiff", "low to medium plasticity", (fill). 2.0	0
				Black SILT, organic, massive, "moist", "medium stiff", "low plasticity", buried topsoil (ol). 2.7	
5	B002	CS 02	100%	Green-gray Silty CLAY with brown iron-stain mottling, "moist", "medium stiff", "medium to high plasticity", lacustrine (cl). ▽ 8.0 8.0	0
10		CS 03	100%	Gray Silty CLAY, massive, "wet", "soft to very soft", "medium to high plasticity", lacustrine (cl). 15.0	10 20
15	B003	CS 04	100%	Gray Sandy CLAY, generally massive with some layering of sand, "wet", "soft", "medium to high plasticity", lacustrine-reworked till (sc). 20.0	20-40
20					

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 05-402

OWNER: SELFRIDGE ANGB

LOCATION: TUCKER CREEK LANDFILL (TCLF)

ADDRESS: MT. CLEMENS, MICHIGAN

CASING ELEVATION: NA

TOTAL DEPTH: 30 FT

SURFACE ELEVATION: 574.22

WATER LEVEL: 8 FT

DRILLING COMPANY: ETI

DRILLING METHOD: 4.25 HSA

BORING COMPLETED: 12-18-87

DRILLER: DAVE CRUISE

HELPER: JIM BOERST

WELL COMPLETED: NA

LOG BY: JDO/WLN

CHECKED BY: RLM

SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY *	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20	CS 05		100%	Gray Sandy SILT, some to trace gravel, generally massive with some layering of sand near base, "moist", "hard", "low to medium plasticity", till (sm).	7-8
					20
25	SS 06		32 17 15 25		2-5
	SS 07		22 25 37 43		2-9
	SS 08		53 76		0.5 - 2.0
30				E.O.B. at 30 FT	

* Samples SS-06 through SS-08 were collected using the Standard Penetration Test (ASTM D-1586). Values shown are blow counts.

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 05-403
OWNER: SELFRIDGE ANGB
LOCATION: TUCKER CREEK LANDFILL (TCLF)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: NA
TOTAL DEPTH: 30 FT
SURFACE ELEVATION: 574.51
WATER LEVEL: 11 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 12-18-87
DRILLER: DAVE CRUISE
HELPER: JIM BOERST
WELL COMPLETED: NA
LOG BY: JDO/WLN
CHECKED BY: RLM
SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0	B001 B101	CS 01	100%	Black SILT, organic, massive, "moist", "medium stiff to stiff", "low to medium plasticity", (topsoil in fill).	0
				3.0 GRAVEL (fill). 3.5	
5		CS 02	100%	Brown Silty CLAY with brown iron-stain mottling, "moist", "stiff", "medium plasticity (fill). 5.0 Black SILT, organic, roots, massive, "moist", "medium stiff to stiff", "low to medium plasticity", buried topsoil (ol). 6.0 Light brown Silty CLAY with brown iron-stain mottling, laminated, "moist", "stiff", "medium plasticity, lacustrine (cl).	0.0-3.0
10		CS 03	100%	▽ 11.0 Olive gray Silty CLAY with greenish mottling below 15 FT, trace gravel near base, massive, "moist to very moist", "soft", "medium to high plasticity", lacustrine (cl).	1-6
15		CS 04	100%		9-20
	B002				8
20					45

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 05-403

OWNER: SELFRIDGE ANGB

LOCATION: TUCKER CREEK LANDFILL (TCLF)

ADDRESS: MT. CLEMENS, MICHIGAN

CASING ELEVATION: NA

TOTAL DEPTH: 30 FT

SURFACE ELEVATION: 574.51

WATER LEVEL: 11 FT

DRILLING COMPANY: ETI

DRILLING METHOD: 4.25 HSA

BORING COMPLETED: 12-18-87

DRILLER: DAVE CRUISE

HELPER: JIM BOERST

WELL COMPLETED: NA

LOG BY: JDO/WLN

CHECKED BY: RLM

SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20	B003			As above	
				21.3	
		CS 05	100%	Green-gray Sandy SILT, trace to some gravel, massive, "moist", "stiff to very stiff", "low plasticity", till (sm).	20-50
25		CS 06	100%		90-550
30				E.O.B. at 30 FT	

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 05-404
OWNER: SELFRIDGE ANGB
LOCATION: TUCKER CREEK LANDFILL (TCLF)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: NA
TOTAL DEPTH: 30 FT
SURFACE ELEVATION: 575.16
WATER LEVEL: 10.5 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 12-19-87
DRILLER: DAVE CRUISE
HELPER: JIM BOERST
WELL COMPLETED: NA
LOG BY: JDO/WLN
CHECKED BY: RLM
SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0		CS 01	50%	Gray Silty CLAY with brown iron-stain mottling, massive, "moist", "stiff", "low to medium plasticity" (fill). 1.7	0
				Black organic SILT with some coal pieces near base, roots, massive, "moist", "medium stiff", "low plasticity", buried topsoil (ol). 2.7	
5	B001	CS 02	100%	Green-gray Silty CLAY with brown and gray mottling, massive, "moist" to 10.5 FT, "wet" below 10.5 FT, "medium stiff" to "soft", "medium to high plasticity", lacustrine (cl).	0
10	B002	CS 03	100%	▽ 10.5	0.5
15		CS 04	100%		5-9
20				Gray Sandy CLAY with thin sand horizons, "moist to wet", "soft" "medium to high plasticity", lacustrine (sc). 18.0 (cont.)	

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 05-404
OWNER: SELFRIDGE ANGB
LOCATION: TUCKER CREEK LANDFILL (TCLF)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: NA
TOTAL DEPTH: 30 FT
SURFACE ELEVATION: 575.16
WATER LEVEL: 10.5 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 12-19-87
DRILLER: DAVE CRUISE
HELPER: JIM BOERST
WELL COMPLETED: NA
LOG BY: JDO/WLN
CHECKED BY: RLM
SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY*	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20		CS 05	100%	As above 20.5	2-5
		SS 06	11 14 18 21	Gray Sandy SILT, some gravel, massive, "moist", hard, "low plasticity", till (sm).	40
		SS 07	17 92 50 41		2-5
25					50
		SS 08	100 87 19 21		2-10
		SS 09	20 30 25		30-50
		SS 10	41 73		20-50
30				E.O.B. at 30 FT	

* Samples SS-05 through SS-10 were collected using the Standard Penetration Test (ASTM D-1586). Values shown are blow counts.

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 05-405
OWNER: SELFRIDGE ANGB
LOCATION: TUCKER CREEK LANDFILL (TCLF)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: NA
TOTAL DEPTH: 30 FT
SURFACE ELEVATION: 575.36
WATER LEVEL: 9 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 12-19-87
DRILLER: DAVE CRUISE
HELPER: JIM BOERST
WELL COMPLETED: NA
LOG BY: JDO/WLN
CHECKED BY: RLM
SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0		CS 01	100%	Green-gray Silty CLAY with black gray motles, massive, "moist", "medium stiff to stiff", "low to medium plasticity", (fill).	0.0 - 5.0
				3.0 Black SILT, organic, massive, "moist", "medium stiff", "low Plasticity", (topsoil) (ol). 4.0	
5		CS 02	100%	Green-gray Silty CLAY with brown iron-stain mottles, massive, "moist", "medium stiff", "medium plasticity", lacustrine (cl).	0.5
	B001			▽ 9.0 9.0	
10		CS 03	100%	Green-gray Silty CLAY with gray mottling, massive, "wet", "soft to very soft", "medium to high plasticity", lacustrine (cl).	0.5 - 5.0
15		CS 04	100%		0.5 - 5.0
20				(cont.)	

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 05-405 OWNER: SELFRIDGE ANGB

LOCATION: TUCKER CREEK LANDFILL (TCLF) ADDRESS: MT. CLEMENS, MICHIGAN

CASING ELEVATION: NA TOTAL DEPTH: 30 FT

SURFACE ELEVATION: 575.36 WATER LEVEL: 9 FT

DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 12-19-87

DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA

LOG BY: JDO/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY *	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20		CS 05	100%	As above	2-8
	B002			23.0 Gray Sandy CLAY, massive, "wet", "soft", "medium to high plasticity", lacustrine-reworked till (sc). 24.0	
25	B003 B103	SS 06	24 49 36 51	Gray Sandy SILT, trace to some gravel, massive, "moist", hard, "low plasticity", till (sm).	10-30
		SS 07	32 60 38 77		30-40
		SS 08	28 38		NK
30				E.O.B. at 29 FT	

* Samples SS-06, SS-07, and SS-08 were collected using the Standard Penetration Test (ASTM D-1586). Values shown are blow counts.

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 05-416
OWNER: SELFRIDGE ANGB
LOCATION: TUCKER CREEK LANDFILL (TCLF)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: NA
TOTAL DEPTH: 30 FT
SURFACE ELEVATION: 571.83
WATER LEVEL: 8 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-6-88
DRILLER: DAVE CRUISE
HELPER: JIM BOERST
WELL COMPLETED: NA
LOG BY: WLN & JDO/WLN
CHECKED BY: RLM
SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0		CS 01	72%	Brown to black Clayey SILT, "moist", "medium stiff", "low plasticity", (topsoil in fill). 1.5	0
				Brown and light gray Silty CLAY with orange-brown mottling, "moist", "stiff to soft", "medium to high plasticity", lacustrine (cl).	
5	B001	CS 02	100%		3-5
10		CS 03	100%	▽ 7.0 7.0 Gray Silty CLAY, massive, "wet", "soft to very soft", "medium to high plasticity", lacustrine (cl).	5-15
15	B002 B102	CS 04	100%		1-3 3-6
20				19.0 Gray Sandy CLAY, massive, "wet", "soft", "medium to high plasticity", lacustrine reworked till (sc). (cont.)	1-3

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 05-416
OWNER: SELFRIDGE ANGB
LOCATION: TUCKER CREEK LANDFILL (TCLF)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: NA
TOTAL DEPTH: 30 FT
SURFACE ELEVATION: 571.83
WATER LEVEL: 8 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-6-88
DRILLER: DAVE CRUISE
HELPER: JIM BOERST
WELL COMPLETED: NA
LOG BY: WLN & JDO/WLN
CHECKED BY: RLM
SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20		CS 05	76%	As above	7-12
					50-200
25				25.0	NK
	B003	CS 06	20%	Gray Silty SAND, some gravel, massive, "moist to dry", "dense to very dense", till (sm).	10-100
					NK
30				E.O.B. at 30 FT	

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 05-417
OWNER: SELFRIDGE ANGB
LOCATION: TUCKER CREEK LANDFILL (TCLF)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: NA
TOTAL DEPTH: 25 FT
SURFACE ELEVATION: 572.70
WATER LEVEL: 12 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-6-88
DRILLER: KEVIN McCUMBER
HELPER: GREG SCALLON
WELL COMPLETED: NA
LOG BY: HMR/WLN
CHECKED BY: RLM
SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY *	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0		SS 01	–	Olive gray Silty CLAY, organic, with brown mottling, frozen in top 4", "moist" below 4", "stiff to very stiff", "low plasticity", (topsoil in fill). 1.5	0
		SS 02	–	Olive gray to light gray Silty CLAY with brown mottling, massive, "moist", "medium stiff", "medium plasticity", (fill). 5.0	0
5		CS 03	100%	Black organic SILT with roots, buried topsoil (ol) 5.5	NK
		SS 04	–	Medium gray Silty CLAY, laminated, "moist to very moist", "medium stiff to stiff", "medium plasticity", lacustrine (cl). 8.0	NK
	B001	SS 05	–	Medium gray SILTY CLAY, massive, "moist" above 12 FT, "wet" below 12 FT, "soft to very soft", "high plasticity", lacustrine (cl).	0
10		CS 06	20%	▽ 12.0	NK
15	B002 B002 MS	CS 07	100%		4-6
20		CS 08	100%	(cont.)	40-50

* Samples SS-01 through SS-05 were collected using the Standard Penetration Test (ASTM D-1586). Blow counts were not recorded.

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 05-417 OWNER: SELFRIDGE ANGB

LOCATION: TUCKER CREEK LANDFILL (TCLF) ADDRESS: MT. CLEMENS, MICHIGAN

CASING ELEVATION: NA TOTAL DEPTH: 25 FT

SURFACE ELEVATION: 572.70 WATER LEVEL: 12 FT

DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-6-88

DRILLER: KEVIN McCUMBER HELPER: GREG SCALLON WELL COMPLETED: NA

LOG BY: HMR/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20				As above	40-50
				23.5	
25	B003	CS 09	100%	Gray Clayey SAND, massive, "wet", "soft", "medium to high plasticity", lacustrine reworked till (sc).	10-100
				E.O.B. at 25 FT	

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 05-421
OWNER: SELFRIDGE ANGB
LOCATION: TUCKER CREEK LANDFILL (TCLF)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: NA
TOTAL DEPTH: 30 FT
SURFACE ELEVATION: 573.17
WATER LEVEL: 9 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-8-88
DRILLER: KEVIN McCUMBER
HELPER: GREG SCALLON
WELL COMPLETED: NA
LOG BY: JDO/WLN
CHECKED BY: RLM
SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0	B001	CS 01	82%	Black SILT, organic, roots, "moist", "medium stiff", "low plasticity", (topsoil in fill).	
				1.4	
				Green-gray Silty CLAY with brown iron-stain mottles, massive, "moist", "stiff", "low to medium plasticity", lacustrine, with top several feet probably fill (fill, cl).	0
5		CS 02	100%		0
				▽ 9.0	
				9.0	
10	B002	CS 03	100%	Gray Silty CLAY, some gray and black mottling, massive, "wet", "soft to very soft", "medium to high plasticity", lacustrine, (cl).	1
15		CS 04	100%		1-2
20				(cont.)	

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 05-421

OWNER: SELFRIDGE ANGB

LOCATION: TUCKER CREEK LANDFILL (TCLF)

ADDRESS: MT. CLEMENS, MICHIGAN

CASING ELEVATION: NA

TOTAL DEPTH: 30 FT

SURFACE ELEVATION: 573.17

WATER LEVEL: 9 FT

DRILLING COMPANY: ETI

DRILLING METHOD: 4.25 HSA

BORING COMPLETED: 1-8-88

DRILLER: KEVIN McCUMBER

HELPER: GREG SCALLON

WELL COMPLETED: NA

LOG BY: JDO/WLN

CHECKED BY: RLM

SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20		CS 05	100%	As above	2-8
25		CS 06	82%	25.0 Gray Sandy CLAY, massive, "wet", "soft", "medium to high plasticity", lacustrine reworked till (sc). 26.6	1-2
	B003			Gray Clayey SAND to SILTY SAND, some gravel, generally massive with some crude sand layering, "wet", "loose", till (sc, sm).	10-40
30				E.O.B. at 30 FT	

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 07-428
OWNER: SELFRIDGE ANGB
LOCATION: EAST RAMP (ERMP)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: NA
TOTAL DEPTH: 30 FT
SURFACE ELEVATION: 574.49
WATER LEVEL: 9 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-10-88
DRILLER: KEVIN MCCUMBER
HELPER: GREG SCALLON
WELL COMPLETED: NA
LOG BY: JDO/WLN
CHECKED BY: RLM
SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0		CS 01	0%	Black SILT, organic (topsoil in fill). 1.0 No recovery	NK
5	B001 B004	CS 02	100%	5.0 Brown Silty CLAY with brown iron-stain mottling, laminated, "moist", "stiff", "low plasticity", lacustrine (cl). ▽ 9.0	0
10	B002 B102	CS 03	100%	9.0 Gray Silty CLAY with some gray and brown mottling, massive, "wet", "soft to very soft", "medium to high plasticity", lacustrine (cl).	0
15		CS 04	88%		0
20				(cont.)	

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 07-428
OWNER: SELFRIDGE ANGB
LOCATION: EAST RAMP (ERMP)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: NA
TOTAL DEPTH: 30 FT
SURFACE ELEVATION: 574.49
WATER LEVEL: 9 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-10-88
DRILLER: KEVIN MCCUMBER
HELPER: GREG SCALLON
WELL COMPLETED: NA
LOG BY: JDO/WLN
CHECKED BY: RLM
SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20	CS 05		96%	As above	0.0-0.5
25	CS 06		100%	25.0 Gray Silty CLAY, no mottling, massive, "wet", "soft to very soft", "medium to high plasticity", lacustrine (cl).	0.0-0.5
30				E.O.B. AT 30 FT	

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 07-429
OWNER: SELFRIDGE ANGB
LOCATION: EAST RAMP (ERMP)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: NA
TOTAL DEPTH: 30 FT
SURFACE ELEVATION: 575.36
WATER LEVEL: 10 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-10-88
DRILLER: KEVIN MCCUMBER
HELPER: GREG SCALLON
WELL COMPLETED: NA
LOG BY: WLN/WLN
CHECKED BY: RLM
SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0		CS 01	50%	Black-dark brown Clayey SILT, organic, (topsoil in fill). 1.0 Brown Clayey SILT with gray mottling, some fine sand, massive, "moist", "soft to medium stiff" (fill). 2.5	0
5	B001	CS 02	100%	Brown and gray Clayey SILT with brown iron-stain mottling, laminated, "moist", "stiff", "low plasticity", lacustrine (ml). ▽ 10.0	1-2
10	B002	CS 03	100%	Gray Silty CLAY with gray mottling, massive, "wet", "soft to very soft", "medium to high plasticity", lacustrine (cl). 10.0	0
15		CS 04	100%	(cont.)	1-6
20					

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 07-429
OWNER: SELFRIDGE ANGB
LOCATION: BASE COAL STORAGE PILE (BCSP)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: NA
TOTAL DEPTH: 30 FT
SURFACE ELEVATION: 575.36
WATER LEVEL: 10 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-10-88
DRILLER: KEVIN MCCUMBER
HELPER: GREG SCALLON
WELL COMPLETED: NA
LOG BY: WLN/WLN
CHECKED BY: RLM
SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20	CS 05		100%	As above	2-5
25	B003	CS 06	100%	25.0 Gray Silty CLAY, no mottling, massive, "wet", "soft to very soft", "medium to high plasticity", lacustrine (cl).	0-3
30				E.O.B. AT 30 FT	

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 08-425
OWNER: SELFRIDGE ANGB
LOCATION: BASE COAL STORAGE PILE (BCSP)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: NA
TOTAL DEPTH: 30 FT
SURFACE ELEVATION: 579.78
WATER LEVEL: 12 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-9-88
DRILLER: KEVIN MCCUMBER
HELPER: GREG SCALLON
WELL COMPLETED: NA
LOG BY: CKW/WLN
CHECKED BY: RLM
SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0		CS 01	20%	Bituminous coal pieces (fill). 0.5 Coarse GRAVEL (fill). 4.5	NK
5	B001	CS 02	100%	Black Clayey SILT, organic, topsoil (ol). 7.0 Gray to brown Silty SAND, massive, "moist", "stiff", "low to medium plasticity", lacustrine (sm).	1-2 0
10	B002	CS 03	100%	▽ 12.0 Gray-brown Silty CLAY, no mottling, massive, "wet", "soft to very soft", "med. to high plast.", lacustrine (cl).	0.5
15		CS 04	100%	(cont.)	0.0-0.5
20					

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 08-425

OWNER: SELFRIDGE ANGB

LOCATION: BASE COAL STORAGE PILE (BCSP)

ADDRESS: MT. CLEMENS, MICHIGAN

CASING ELEVATION: NA

TOTAL DEPTH: 30 FT

SURFACE ELEVATION: 579.78

WATER LEVEL: 12 FT

DRILLING COMPANY: ETI

DRILLING METHOD: 4.25 HSA

BORING COMPLETED: 1-9-88

DRILLER: KEVIN MCCUMBER

HELPER: GREG SCALLON

WELL COMPLETED: NA

LOG BY: CKW/WLN

CHECKED BY: RLM

SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20	B003	CS 05	100%	As above	0.0-0.5
25		CS 06	100%		0.0-0.5
30				E.O.B. AT 30 FT	

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 08-426
OWNER: SELFRIDGE ANGB
LOCATION: BASE COAL STORAGE PILE (BCSP)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: NA
TOTAL DEPTH: 30 FT
SURFACE ELEVATION: 579.78
WATER LEVEL: 16 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-9-88
DRILLER: KEVIN MCCUMBER
HELPER: GREG SCALLON
WELL COMPLETED: NA
LOG BY: JDO/WLN
CHECKED BY: RLM
SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0		CS 01	0%	Bituminous coal pieces (fill). 1.0	NK
				Coarse GRAVEL with red-brown iron-staining (fill). 5.0	
5	B001	CS 02	86%	Green-black Clayey SILT, organic, with black and orange mottling, plant roots, massive, "moist", "medium stiff", "low plasticity", topsoil (ol). 6.7	0-1
				Pale green SILT with orange mottling, massive, "moist", "stiff", "low plasticity", lacustrine (ml). 8.0	
10	B002	CS 03	100%	Gray to orange-brown Silty CLAY with orange mottling, laminated, "moist", "stiff", "low plasticity", lacustrine (cl). ▽ 16.0	0
15		CS 04	98%	Brown and gray Silty CLAY with gray mottling, massive, "wet", "soft to very soft", "med. to high plasticity", lacustrine (cl). 16.0 (cont.)	0-1
20					

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 08-426
OWNER: SELFRIDGE ANGB
LOCATION: BASE COAL STORAGE PILE (BCSP)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: NA
TOTAL DEPTH: 30 FT
SURFACE ELEVATION: 579.78
WATER LEVEL: 16 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-9-88
DRILLER: KEVIN MCCUMBER
HELPER: GREG SCALLON
WELL COMPLETED: NA
LOG BY: JDO/WLN
CHECKED BY: RLM
SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20	CS 05		80%	As above	1-2
25	B003	CS 06	100%		0.5-2.0
30				E.O.B. AT 30 FT	

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 08-427 OWNER: SELFRIDGE ANGB

LOCATION: BASE COAL STORAGE PILE (BCSP) ADDRESS: MT. CLEMENS, MICHIGAN

CASING ELEVATION: NA TOTAL DEPTH: 30 FT

SURFACE ELEVATION: 579.64 WATER LEVEL: 10 FT

DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-10-88

DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA

LOG BY: WLN & CWK/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0		CS 01	20%	Bituminous coal pieces (fill). 2.0 Coarse GRAVEL (fill) 4.0	0
5	B001	CS 02	50%	Brown Silty SAND to SAND, massive, "moist", "loose to medium dense", lacustrine or fill (sm, sp). 7.5	0
10	B002	CS 03	100%	Brown Clayey SILT with brown iron-stain mottling, laminated, 'moist", "medium stiff to stiff", "low plasticity, lacustrine (cl). ▽ 10.0 11.5 Gray Silty CLAY, no mottling, massive, "wet", "soft to very soft", "med to high plasticity", lacustrine (cl).	NK 0-10
15	B003	CS 04	100%	(cont.)	1-10
20					

DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 08-427

OWNER: SELFRIDGE ANGB

LOCATION: BASE COAL STORAGE PILE (BCSP)

ADDRESS: MT. CLEMENS, MICHIGAN

CASING ELEVATION: NA

TOTAL DEPTH: 30 FT

SURFACE ELEVATION: 579.64

WATER LEVEL: 10 FT

DRILLING COMPANY: ETI

DRILLING METHOD: 4.25 HSA

BORING COMPLETED: 1-10-88

DRILLER: DAVE CRUISE

HELPER: JIM BOERST

WELL COMPLETED: NA

LOG BY: WLN & CWK/WLN

CHECKED BY: RLM

SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20	CS 05		100%	As above	1-6
25	CS 06		100%		10-15
30				E.O.B. AT 30 FT	

DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 01-156 OWNER: SELFRIDGE ANGB

LOCATION: SOUTHWEST LANDFILL (SWLF) ADDRESS: MT. CLEMENS, MICHIGAN

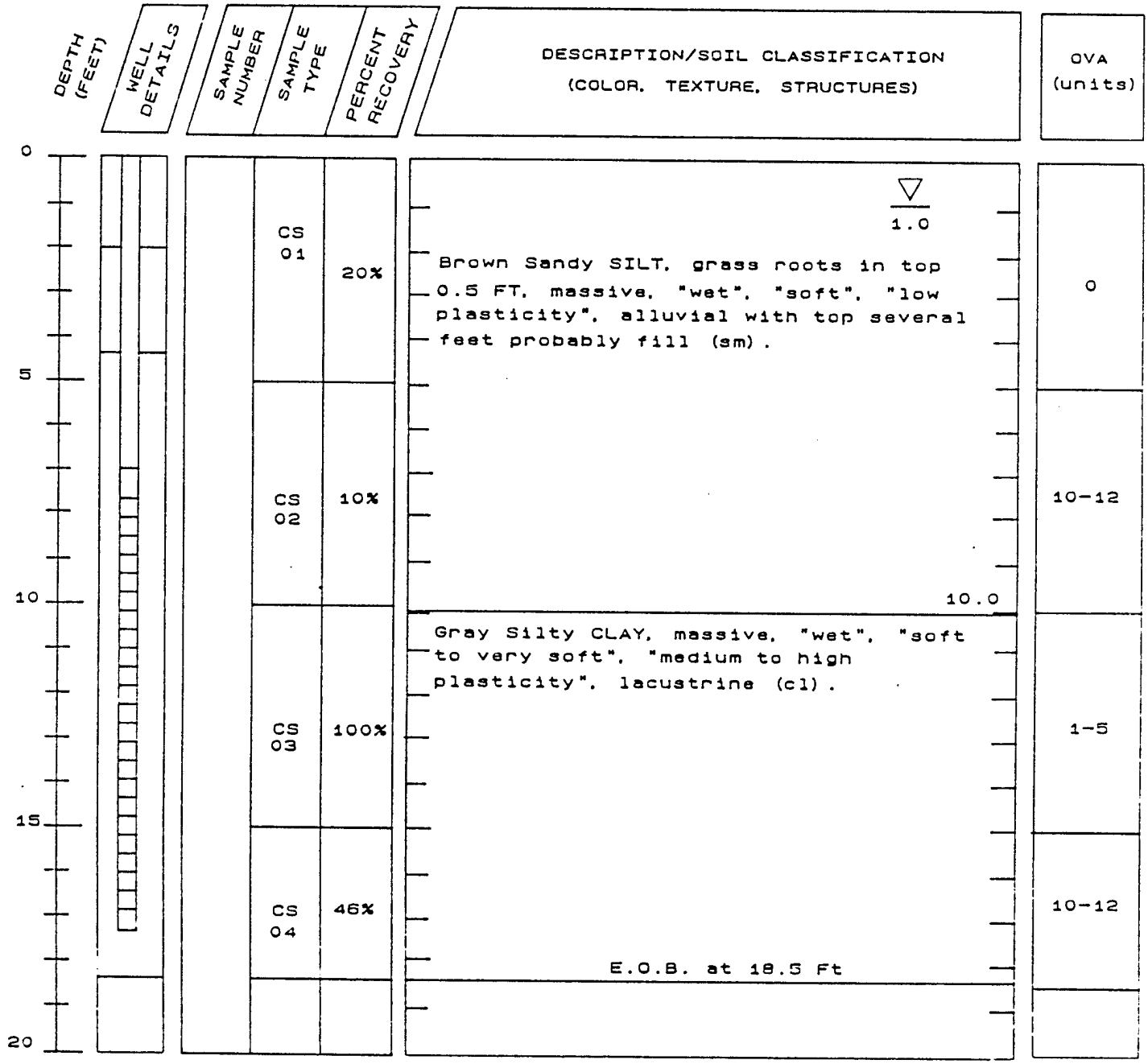
CASING ELEVATION: 584.71 TOTAL DEPTH: 18.5 FT

SURFACE ELEVATION: 582.27 WATER LEVEL: 1.0 FT

DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-26-88

DRILLER: DAVE CRUISE HELPER: TIM EBERT WELL COMPLETED: 1-26-88

LOG BY: WLN/WLN CHECKED BY: HMR SHEET 1 OF 1



DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 01-257
OWNER: SELFRIDGE ANGB
LOCATION: SOUTHWEST LANDFILL (SWLF)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: 583.46
TOTAL DEPTH: 36 FT
SURFACE ELEVATION: 581.03
WATER LEVEL: 6 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 3-22-88
DRILLER: DAVE CRUISE
HELPER: JON
WELL COMPLETED: 3-22-88
LOG BY: JDO/WLN
CHECKED BY: HMR/RLM
SHEET 1 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0			SS 01	3 4 5 7	Black-gray Sandy SILT, plant roots, glass, "moist", very soft, "low plasticity", topsoil in fill (ol). 1.0	NK
			SS 02	2 2 3 4	Reddish brown to gray SAND with brown iron-staining, some silt, pieces of glass at 5 FT, massive, "wet" below 6 FT, loose, fill above 6 FT, alluvial or fill below 6 FT (fill, sp).	NK
5		MOO1	SS 03	2 2 2 4	▽ 6.0	NK
			SS 04	1 2 2 4		NK
			SS 05	6 5 5 5	9.5	0
10			SS 06	4 6 5 4	Gray Silty CLAY with brown and gray mottling, generally massive with some dark clay laminations near top, "wet", stiff near top, becoming soft to very soft towards base, "medium to high plasticity", lacustrine (cl).	0
			SS 07	2 2 2 2		0
15			SS 08	2 2 2 3		90
			SS 09	0 0 0 0		70-80
			SS 10	1/12" 1/12"	(cont.)	50-60
20						

DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 01-257 OWNER: SELFRIDGE ANGB

LOCATION: SOUTHWEST LANDFILL (SWLF) ADDRESS: MT. CLEMENS, MICHIGAN

CASING ELEVATION: 583.46 TOTAL DEPTH: 36 FT

SURFACE ELEVATION: 581.03 WATER LEVEL: 6 FT

DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 3-22-88

DRILLER: DAVE CRUISE HELPER: JON WELL COMPLETED: 3-22-88

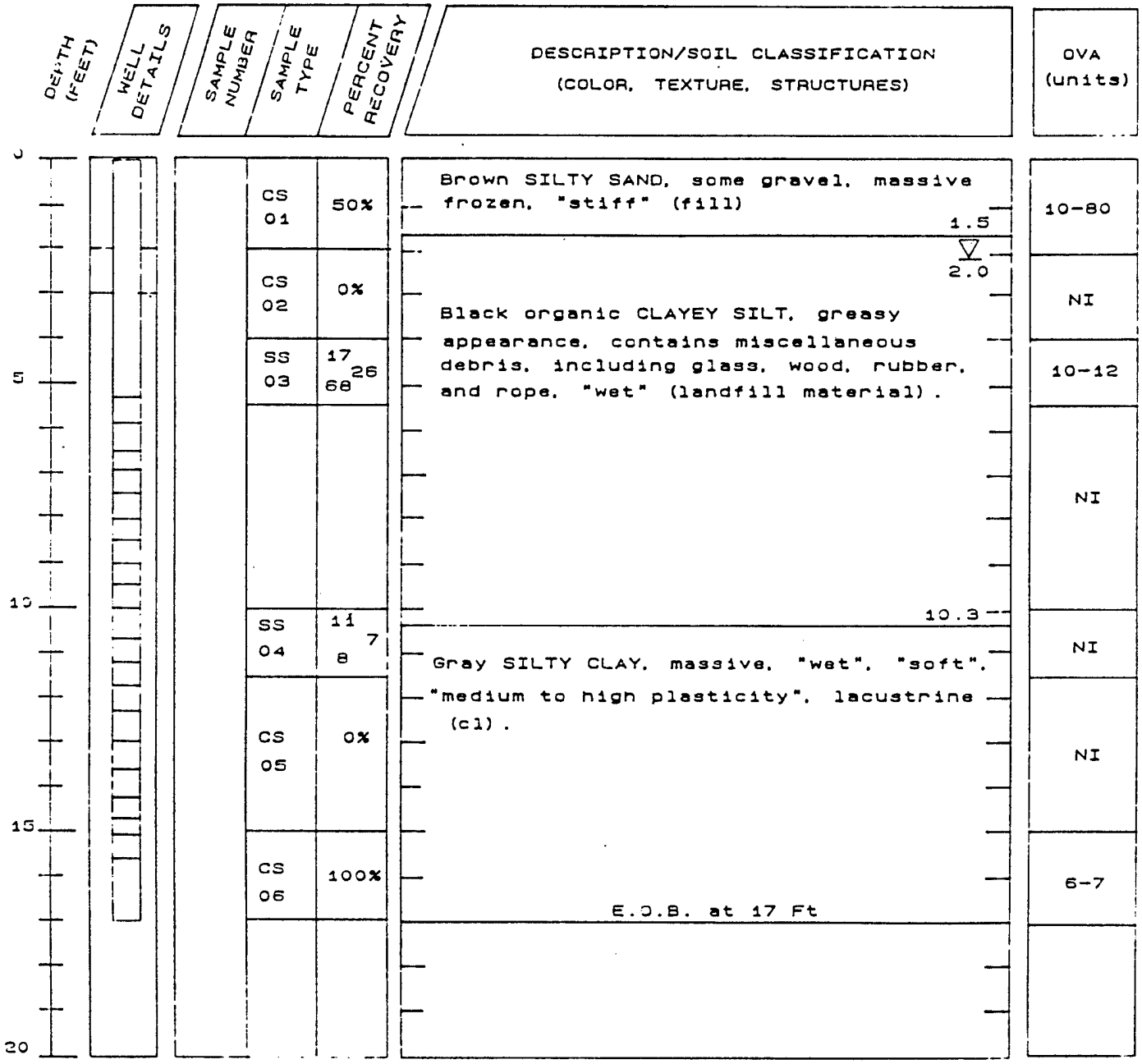
LOG BY: JDO/WLN CHECKED BY: HMA/RLM SHEET 2 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20		SS 11		1/30" 1/6"	As above	90
		SS 12		1 2 2 1		50-80
					24.0	
25		SS 13		0 0 1 1	Gray Silty CLAY, some to trace sand, generally massive with thin sand layers, "wet", very soft, "medium to high plasticity", lacustrine (cl).	50-80
		SS 14		0 0 0 0		60-70
		SS 15		0 0 0 3		60-70
30		SS 16		0 0 0 1		40-60
		SS 17		0 0 0 0		50-70
35		SS 18		0 0 0 1		NK
					E.O.B. at 36 Ft	
40						

DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 01-158
OWNER: SELFRIDGE ANGB
LOCATION: SOUTHWEST LANDFILL (SWLF)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: 586.31
TOTAL DEPTH: 16 FT
SURFACE ELEVATION: 584.44
WATER LEVEL: 10 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-26-88
DRILLER: DAVE CRUISE
HELPER: TIM EBERT
WELL COMPLETED: 1-26-88
LOG BY: WLN/WLN
CHECKED BY: HMR
SHEET 1 OF 1



DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 01-259
OWNER: SELFRIDGE ANGB
LOCATION: SOUTHWEST LANDFILL (SWLF)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: 586.03
TOTAL DEPTH: 36 ft
SURFACE ELEVATION: 584.44
WATER LEVEL: 2.0 ft
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 2-3-88
DRILLER: DAVE CRUISE
HELPER: GREG SCALLON
WELL COMPLETED: 2-3-88
LOG BY: WLN/WLN
CHECKED BY: HMR/RLM
SHEET 1 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0		CS 01		10%	Brown Silty SAND, some gravel, plant roots in upper 3", massive, frozen "stiff" (fill). 1.5	1-5
					▽ 2.0 Black organic Clayey SILT, greasy appearance, contains miscellaneous debris, including glass, wood, rubber, and rope, "wet", (landfill material).	
5		CS 02		0%		NI
10		MOO1	CS 03	10%	10.3 Gray Silty CLAY, garbage-like odor above 20 FT, massive, "wet," "soft to very soft," "medium to high plasticity," lacustrine (cl).	3-7
15			CS 04	50%		5-15
20					(cont.)	

DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 01-259 OWNER: SELFRIDGE ANGB

LOCATION: SOUTHWEST LANDFILL (SWLF) ADDRESS: MT. CLEMENS, MICHIGAN

CASING ELEVATION: 586.09 TOTAL DEPTH: 36 ft

SURFACE ELEVATION: 584.44 WATER LEVEL: 2.0 ft

DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 2-3-88

DRILLER: DAVE CRUISE HELPER: GREG SCALLON WELL COMPLETED: 2-3-88

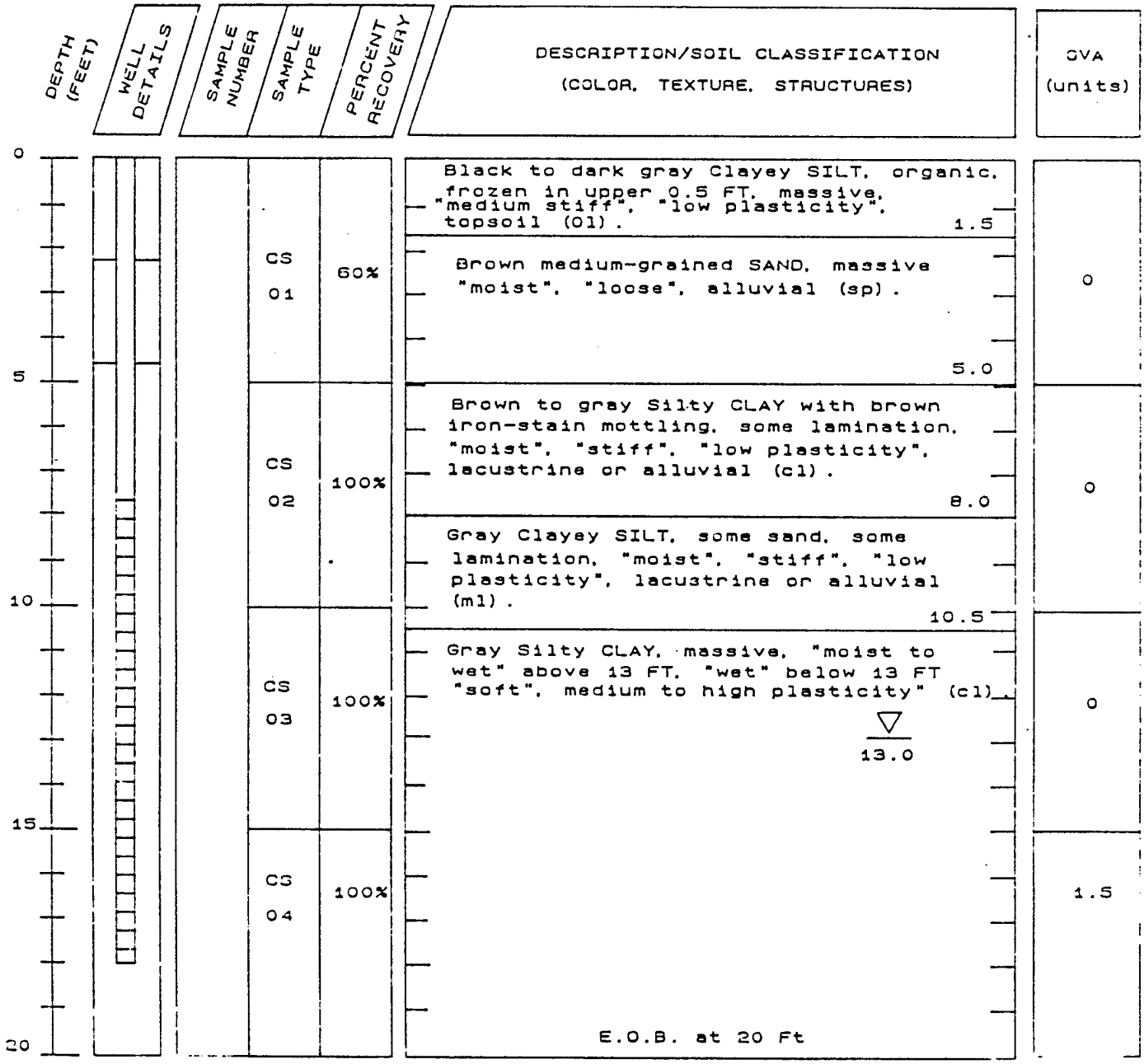
LOG BY: WLN/WLN CHECKED BY: HMR/RLM SHEET 2 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20		CS 05		60%	As above	2-5
25		CS 06		60%	25.0 Gray Silty CLAY, trace sand, massive "wet", "soft to very soft", "medium to high plasticity", lacustrine (cl).	50-200
30		CS 07		100%		10-60
35					E.O.B. at 36 FT	
40						

DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

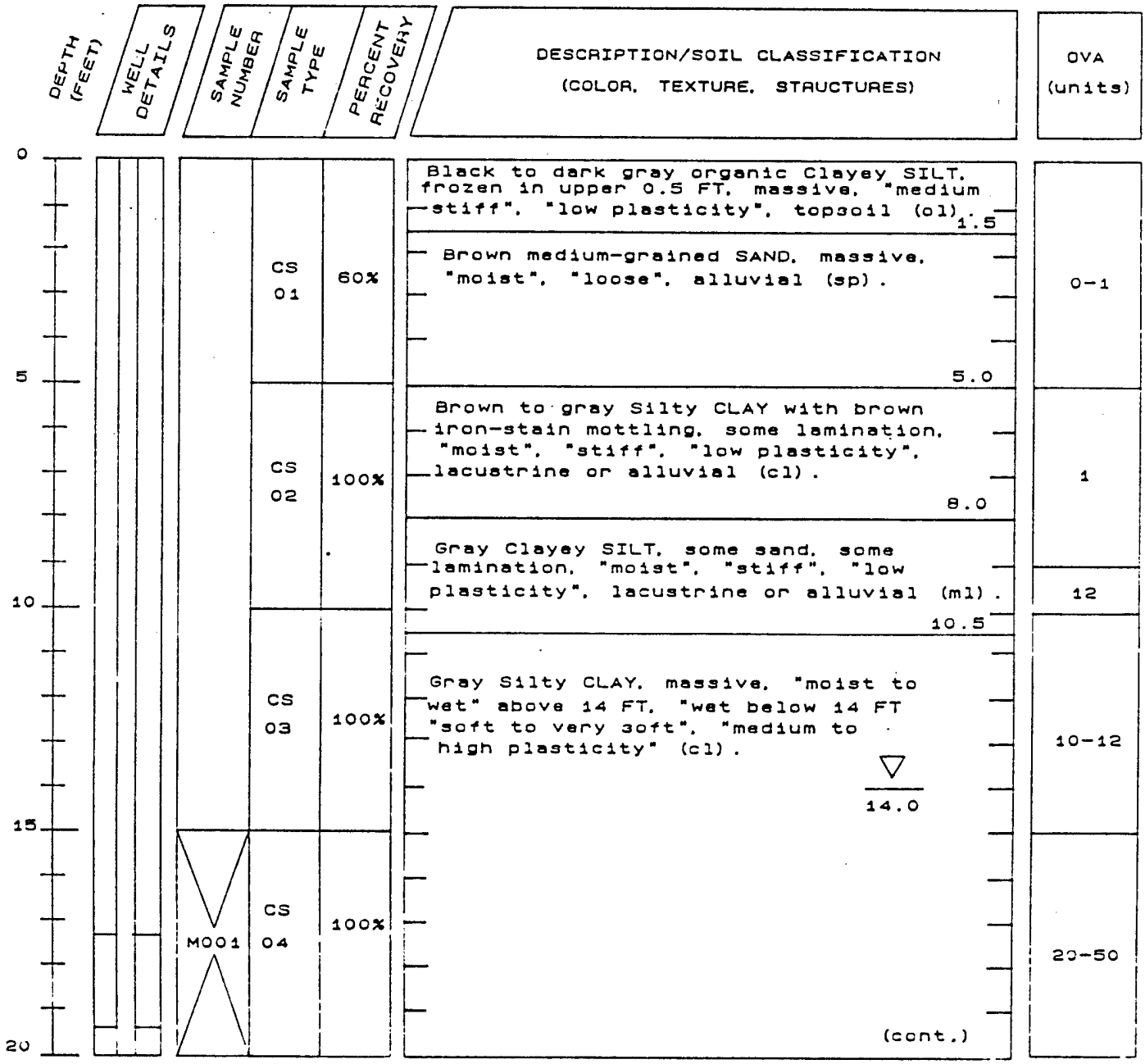
WELL NUMBER: 01-160
OWNER: SELFRIDGE ANGB
LOCATION: SOUTHWEST LANDFILL (SWLF)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: 583.67
TOTAL DEPTH: 20 FT
SURFACE ELEVATION: 581.29
WATER LEVEL: 13 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-25-88
DRILLER: DAVE CRUISE
HELPER: TIM EBERT
WELL COMPLETED: 1-25-88
LOG BY: WLN/WLN
CHECKED BY: HMR/RLM
SHEET 1 OF 1



DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 01-261
OWNER: SELFRIDGE ANGB
LOCATION: SOUTHWEST LANDFILL (SWLF)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: 583.17
TOTAL DEPTH: 35 FT
SURFACE ELEVATION: 581.29
WATER LEVEL: 14 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 2-4-88
DRILLER: DAVE CRUISE
HELPER: TIM EBERT
WELL COMPLETED: 2-4-88
LOG BY: WLN/WLN
CHECKED BY: HMR/RLN
SHEET 1 OF 2



DRILLING & WELL CONSTRUCTION LOG — ROY F. WESTON, INC.

WELL NUMBER: 01-261 — OWNER: SELFRIDGE ANGB

LOCATION: SOUTHWEST LANDFILL (SWLF) — ADDRESS: MT. CLEMENS, MICHIGAN

CASING ELEVATION: 583.17 — TOTAL DEPTH: 35 FT

SURFACE ELEVATION: 581.29 — WATER LEVEL: 14 FT

DRILLING COMPANY: ETI — DRILLING METHOD: 4.25 HSA — BORING COMPLETED: 2-4-88

DRILLER: DAVE CRUISE — HELPER: TIM EBERT — WELL COMPLETED: 2-4-88

LOG BY: WLN/WLN — CHECKED BY: HMR/RLN — SHEET 2 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20		CS 05		80%	As above	80-100
25		CS 06		80%		30-50
30		CS 07		100%	31.0 Gray Silty CLAY to Sandy CLAY, generally massive with sand layer at 31 FT, "wet", "soft to very soft", "medium to high plasticity" (cl, sc).	80-200
35					E.O.B. at 35 Ft	

DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

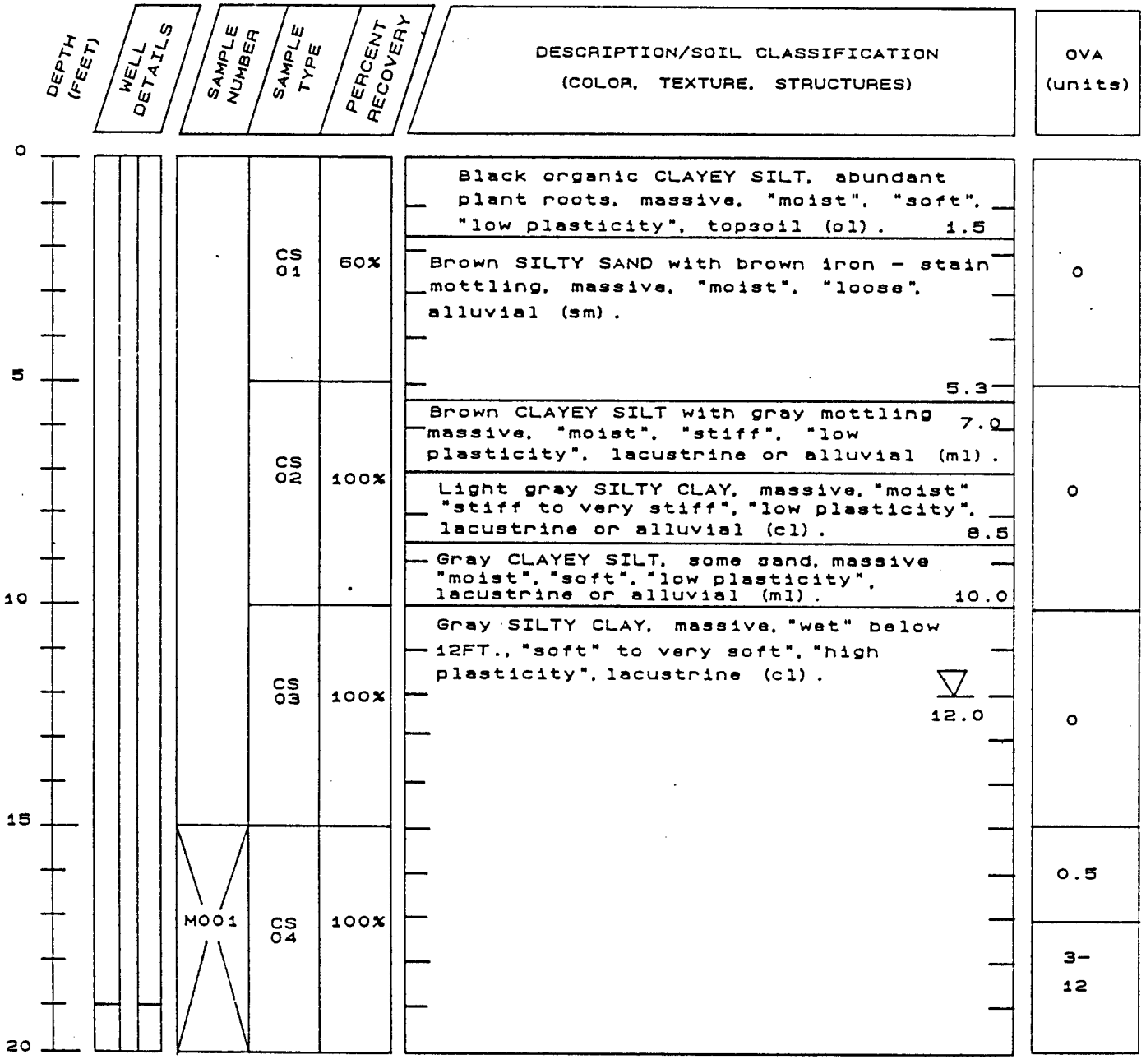
WELL NUMBER: 01-162
OWNER: SELFRIDGE ANGB
LOCATION: SOUTHWEST LANDFILL (SWLF)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: 585.26
TOTAL DEPTH: 16.1 FT
SURFACE ELEVATION: 583.04
WATER LEVEL: 11 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-24-88
DRILLER: DAVE CRUISE
HELPER: Tim Ebert
WELL COMPLETED: 1-24-88
LOG BY: JDO/WLN
CHECKED BY: HMR/RLM
SHEET 1 OF 1

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0					Black Clayey SILT, organic, abundant plant roots, massive, "moist", "soft", "low plasticity", topsoil (OL). 1.5	
		CS 01		46%	Brown Silty SAND with brown iron-stain mottling, massive, "moist", "loose", alluvial (sm). 5.3	0
5		CS 02		100%	Brown Clayey SILT with gray mottling, massive, "moist", "stiff", "low plasticity", lacustrine or alluvial (ml). 7.0	0
					Light gray Silty CLAY, massive, "moist", "stiff to very stiff", "low plasticity", lacustrine or alluvial (cl). 8.5	
10					Gray Clayey SILT, some sand, massive, "moist", "soft", "low plasticity", lacustrine or alluvial (ml). 10.0	
		CS 03		100%	▽ 11.0 Gray Silty CLAY with minor gray mottling, massive, "wet" below 11 FT, "soft to very soft", "medium to high plasticity" (cl).	0
15						NK
					E.O.B. at 16.1 FT	
20						

DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

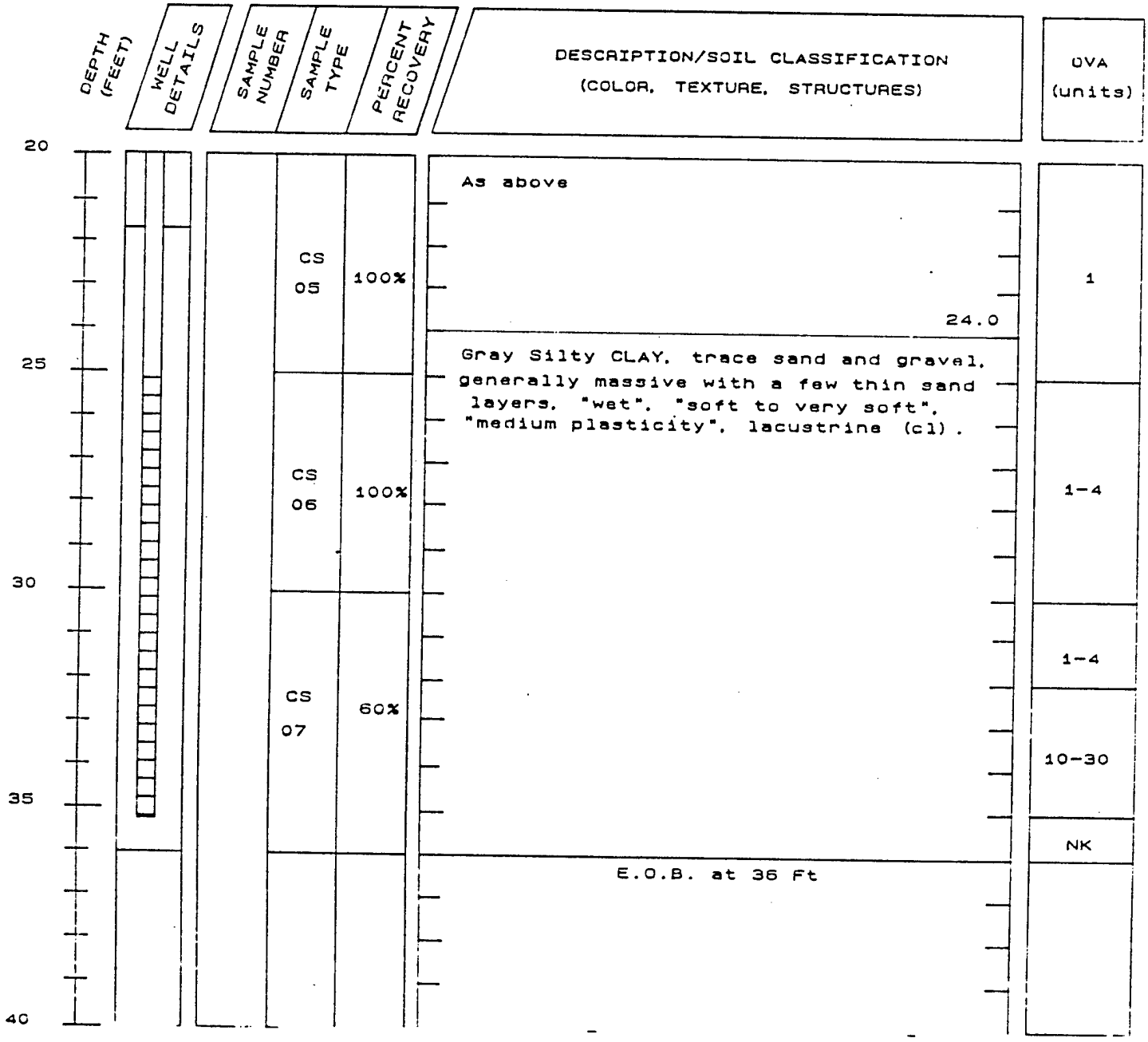
WELL NUMBER: 01-263
OWNER: SELFRIDGE ANGB
LOCATION: SOUTHWEST LANDFILL (SWLF)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: 585.07
TOTAL DEPTH: 36 FT.
SURFACE ELEVATION: 583.04
WATER LEVEL: 12 FT.
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-24-88
DRILLER: DAVE CRUISE
HELPER: TIM EBERT
WELL COMPLETED: 1-24-88
LOG BY: WLN/WLN
CHECKED BY: RLM
SHEET 1 OF 2



DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

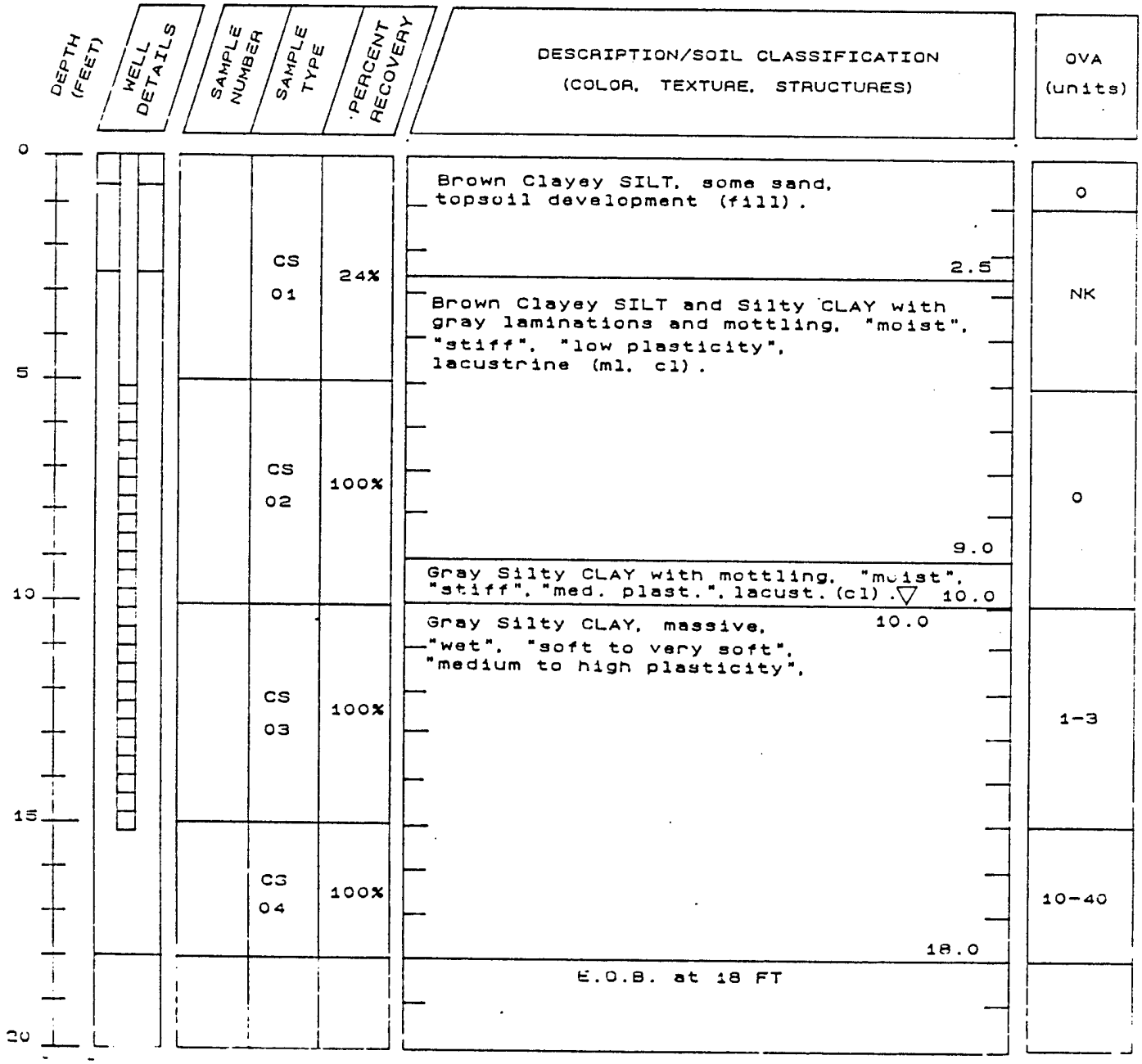
WELL NUMBER: 01-263
OWNER: SELFRIDGE ANGB
LOCATION: SOUTHWEST LANDFILL (SWLF)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: 585.07
TOTAL DEPTH: 36 FT
SURFACE ELEVATION: 583.04
WATER LEVEL: 12 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-24-88
DRILLER: DAVE CRUISE
HELPER: TIM EBERT
WELL COMPLETED: 1-24-88
LOG BY: WLN/WLN
CHECKED BY: HMA/RLM
SHEET 2 OF 2



DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 02-164
OWNER: SELFRIDGE ANGB
LOCATION: FIRE TRAINING AREA # 2 (FTA-2)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: 580.42
TOTAL DEPTH: 18.0 FT
SURFACE ELEVATION: 578.32
WATER LEVEL: 10.0 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-23-88
DRILLER: DAVE CRUISE
HELPER: GREG SCALLON
WELL COMPLETED: 1-23-88
LOG BY: WLN/WLN
CHECKED BY: RLM
SHEET 1 OF 1



DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 02-165 OWNER: SELFRIDGE ANGB

LOCATION: FIRE TRAINING AREA # 2 (FTA-2) ADDRESS: MT. CLEMENS, MICHIGAN

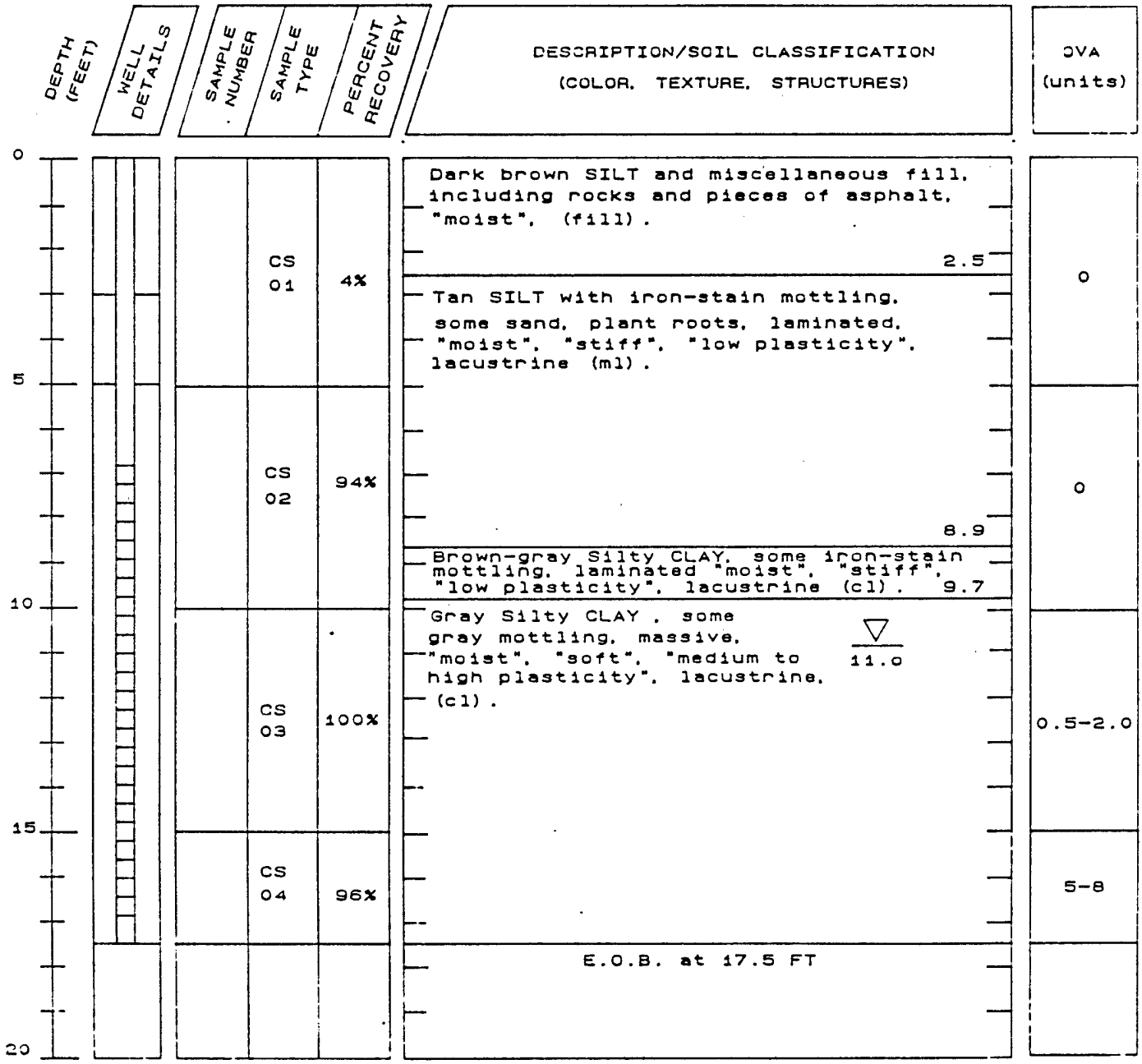
CASING ELEVATION: 581.55 TOTAL DEPTH: 17.5 FT

SURFACE ELEVATION: 579.94 WATER LEVEL: 11.0 FT

DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-23-88

DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: 1-23-88

LOG BY: JDO/WLN CHECKED BY: RLM SHEET 1 OF 1



DRILLING & WELL CONSTRUCTION LOG — ROY F. WESTON, INC.

WELL NUMBER: 02-166 — OWNER: SELFRIDGE ANGB

LOCATION: FIRE TRAINING AREA # 2 (FTA-2) — ADDRESS: MT. CLEMENS, MICHIGAN

CASING ELEVATION: 581.89 — TOTAL DEPTH: 17.5 FT

SURFACE ELEVATION: 580.25 — WATER LEVEL: 11.0 FT

DRILLING COMPANY: ETI — DRILLING METHOD: 4.25 HSA — BORING COMPLETED: 1-22-88

DRILLER: DAVE CRUISE — HELPER: TIM EBERT — WELL COMPLETED: 1-23-88

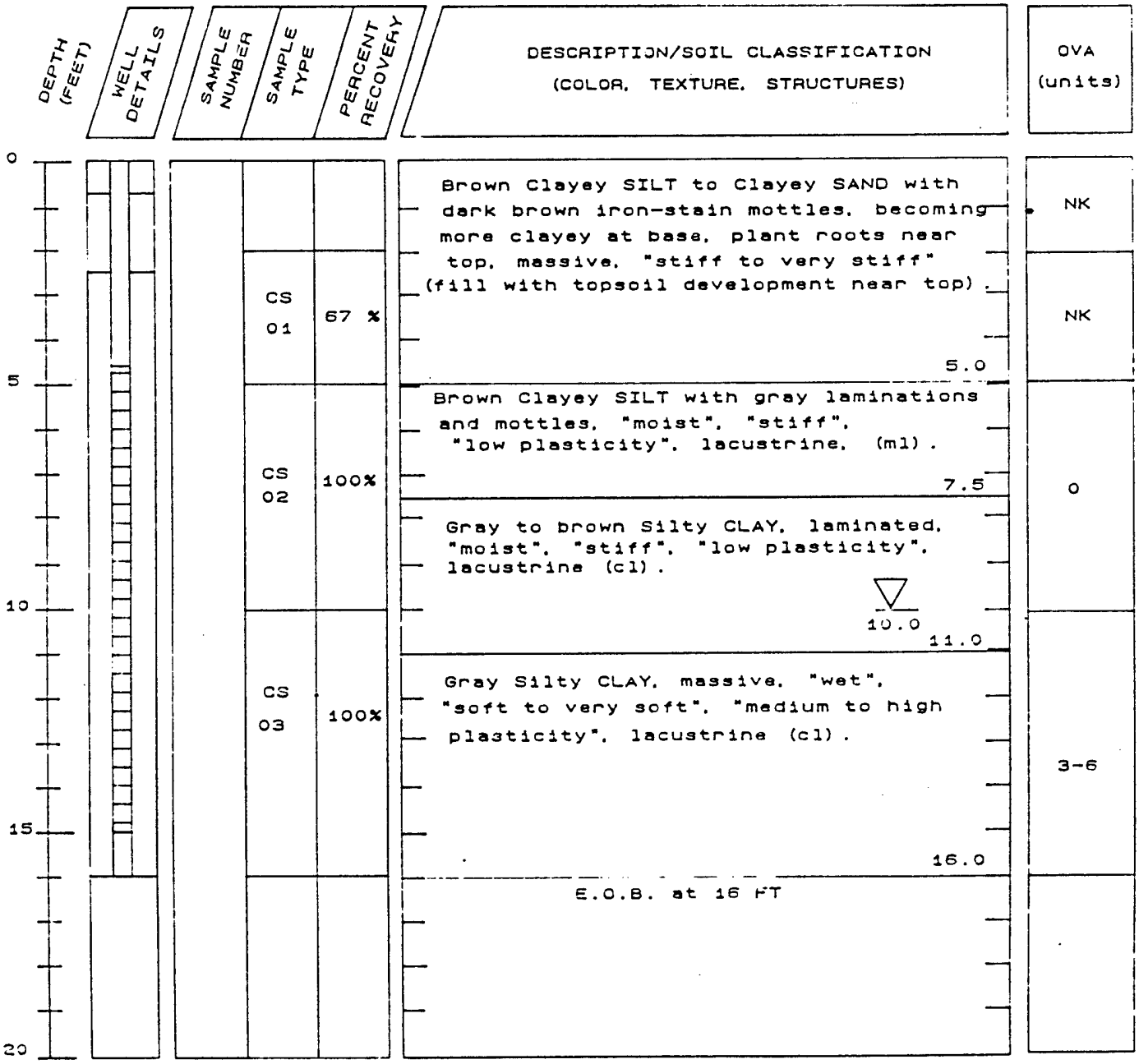
LOG BY: JDO/WLN — CHECKED BY: RLM — SHEET 1 OF 1

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0		CS 01		50%	Black and brown SILT, plant roots "moist", topsoil (01). 0.2	NI
					Brown SILTY SAND with iron stain mottling, "moist, lacustrine (sm). 2.4	
					Brown SILTY CLAY and CLAYEY SILT with iron-stain mottling, laminated, "moist", "low plasticity", lacustrine (cl, ml).	
5		CS 02		100%	8.0	1.0
					Light gray SILTY CLAY with thin sand lenses, "moist", "medium to high plasticity", lacustrine (cl). 10.0	
10		CS 03		100%	Gray SILTY CLAY, massive "moist to wet", "high plasticity", lacustrine (cl). ▽ 11.0	3-12
15		CS 04		100%		10-15
					E.O.B. at 17.5 FT	
20						

DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 04-14B
OWNER: SELFRIDGE ANGB
LOCATION: WEST RAMP (WRMP)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: 582.08
TOTAL DEPTH: 16 FT
SURFACE ELEVATION: 579.80
WATER LEVEL: 10 FT (DURING DRILLING)
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-22-88
DRILLER: KEVIN McCUMBER
HELPER: JIM BOERST
WELL COMPLETED: 1-22-88
LOG BY: WLN/WLN
CHECKED BY: RLM
SHEET 1 OF 1



DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 04-249 OWNER: SELFRIDGE ANGB

LOCATION: WEST RAMP (WRMP) ADDRESS: MT. CLEMENS, MICHIGAN

CASING ELEVATION: 581.54 TOTAL DEPTH: 27.1 FT

SURFACE ELEVATION: 579.70 WATER LEVEL: 11 FT

DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 2-3-88

DRILLER: KEVIN McCUMBER HELPER: JIM BOERST WELL COMPLETED: 2-3-88

LOG BY: JDO/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0		CS 01		70%	Brown Clayey SAND with dark brown iron-stain mottles, roots near top, massive, "moist", "dense to very dense" (fill with topsoil development near top).	0
5					5.0	
		CS 02		100%	Brown to gray Silty CLAY with brown iron-stain mottles becoming more gray towards base, laminated, "moist", "medium stiff", "medium plastic", lacustrine (cl).	0
10					10.0	
		CS 03		100%	▽ 11.0 Gray Silty CLAY with gray mottling massive, "wet", "soft to very soft", "medium to high plasticity", lacustrine (cl).	1
15		CS 04		100%		i-2
20					(cont.)	

DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 04-249

LOCATION: WEST RAMP (WRMP)

SELFRIDGE ANGB
MT. CLEMENS,
MICHIGAN

CASING ELEVATION: 581.54

SURFACE ELEVATION: 579.70

TOTAL DEPTH: 27.1 FT

WATER LEVEL: 11 FT

DRILLING COMPANY: ETI

DRILLING METHOD: 4.25 HSA

BORING COMPLETED: 2-3-88

DRILLER: KEVIN McCUMBER

HELPER: JIM BOERST

WELL COMPLETED: 2-3-88

LOG BY: JDO/WLN

CHECKED BY: RLM

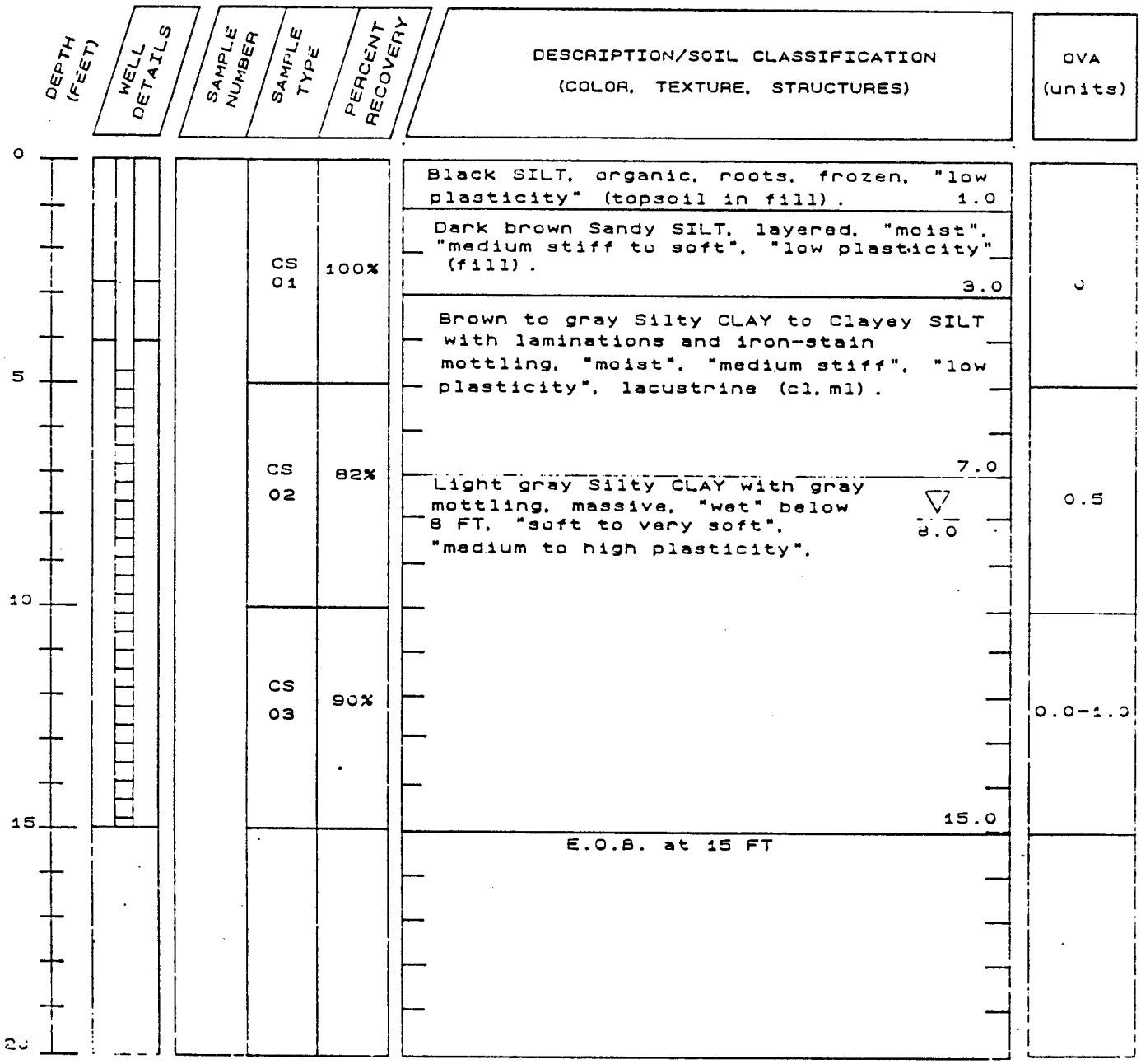
SHEET 2 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20		CS 05		96%	As above	1-8
					23.0	
25					Gray Sandy CLAY, massive, "wet", "soft", "medium to high plasticity", lacustrine-reworked till (sc).	
		CS 06		95%	25.0	
					Gray Silty SAND to Clayey SAND, some gravel, massive, "moist to dry", "dense to very dense", "low plasticity, till (sm, sc).	10-1000
					27.1	
30					E.O.B. at 27.1 FT	

DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

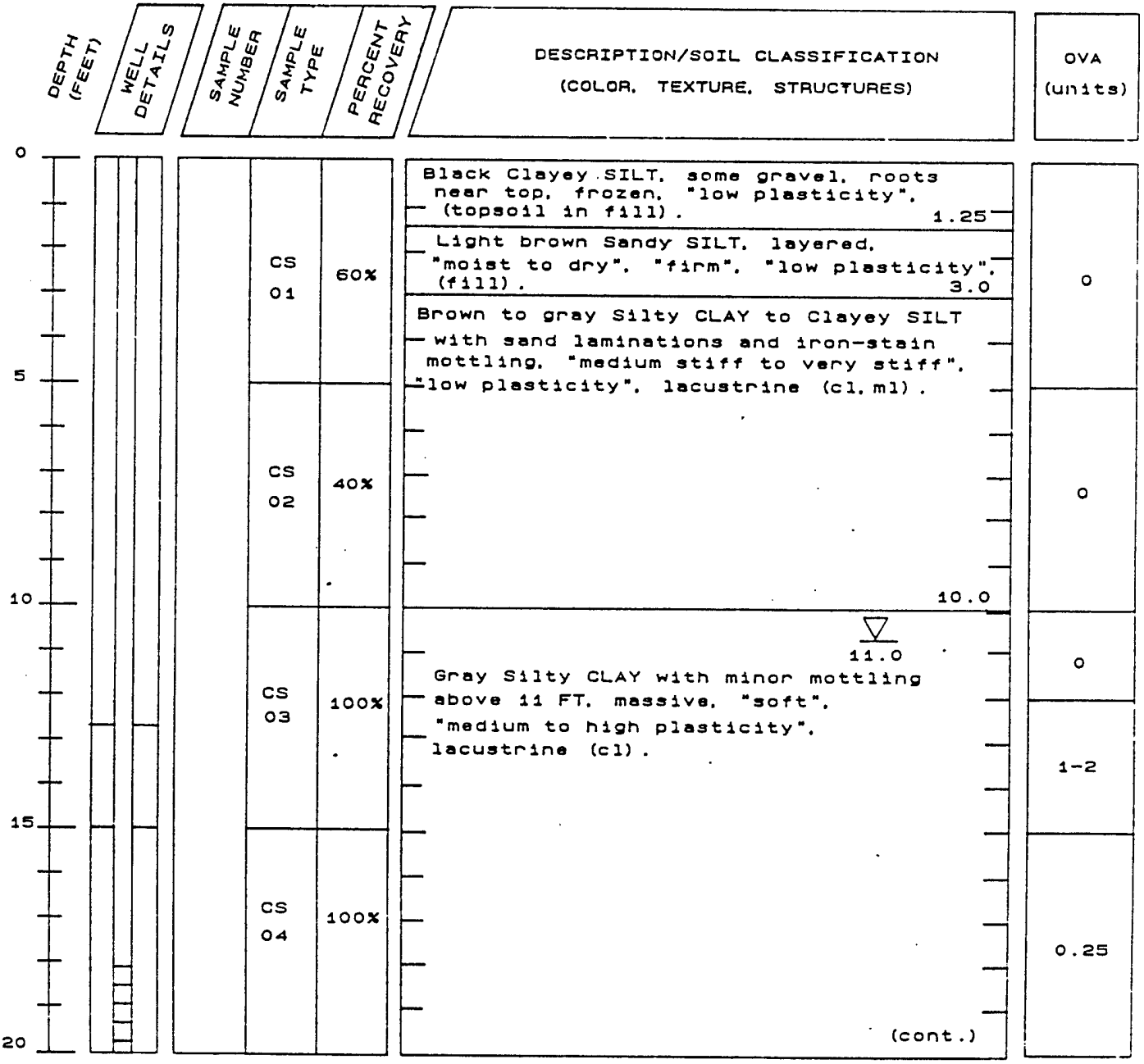
WELL NUMBER: 04-150
OWNER: SELFRIDGE ANGB
LOCATION: WEST RAMP (WRMP)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: 581.71
TOTAL DEPTH: 15 FT
SURFACE ELEVATION: 579.15
WATER LEVEL: 8 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-21-88
DRILLER: DAVE CRUISE
HELPER: TIM EBERT
WELL COMPLETED: 1-21-88
LOG BY: JDO/WLN
CHECKED BY: RLM
SHEET 1 OF 1



DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 04-251
OWNER: SELFRIDGE ANGB
LOCATION: WEST RAMP (WRMP)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: 581.12
TOTAL DEPTH: 35 FT
SURFACE ELEVATION: 579.15
WATER LEVEL: 11 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-27-88
DRILLER: DAVE CRUISE
HELPER: TIM EBERT
WELL COMPLETED: 1-27-88
LOG BY: WLN/WLN
CHECKED BY: RLM
SHEET 1 OF 2



DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 04-251 OWNER: SELFRIDGE ANGB

LOCATION: WEST RAMP (WRMP) ADDRESS: MT. CLEMENS, MICHIGAN

CASING ELEVATION: 581.12 TOTAL DEPTH: 35 FT

SURFACE ELEVATION: 579.15 WATER LEVEL: 11 FT

DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-27-88

DRILLER: DAVE CRUISE HELPER: TIM EBERT WELL COMPLETED: 1-26/27-88

LOG BY: WLN/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20		CS 05		80%	As above	NK
25		CS 06		80%	25.0 Gray Silty CLAY, some gravel, massive, "wet", "soft to medium stiff", "medium plasticity", lacustrine-reworked till (cl). 26.0 Gray GRAVELLY SILT to SAND, trace clay, massive, "dry" below 27 FT, "dense to very dense", "low plasticity", till (gm).	NK
30		CS 07		90%		NK
35					E.O.B. at 35 FT	

DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 04-152

OWNER: SELFRIDGE ANGB

LOCATION: WEST RAMP (WRMP)

ADDRESS: MT. CLEMENS, MICHIGAN

CASING ELEVATION: 582.00

TOTAL DEPTH: 18.25 FT

SURFACE ELEVATION: 577.68

WATER LEVEL: 11 FT

DRILLING COMPANY: ETI

DRILLING METHOD: 4.25 HSA

BORING COMPLETED: 1-20-88

DRILLER: KEVIN McCUMBER

HELPER: GREG SCALLON, JIM BOERST

WELL COMPLETED: 1-20-88

LOG BY: WLN/WLN

CHECKED BY: RLM

SHEET 1 OF 1

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0		CS 01		10%	Brown Clayey SILT, some sand, abundant roots, massive, frozen, "very stiff to hard", "low plasticity", (fill with topsoil development near top).	0
3.5						
5		CS 02		100%	Brown Silty CLAY with prominent laminations and iron-stain mottles "moist", "stiff", becoming stiffer near base, "low to medium plasticity", lacustrine (cl).	0
10		CS 03		100%		0
11.0 ▽						
11.0					Gray Silty CLAY, no mottling, massive, "wet", "soft to very soft", "medium to high plasticity", lacustrine (cl).	
15		CS 04		100%		1-3
					E.O.B. at 18.25 FT	
20						

DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 04-253 OWNER: SELFRIDGE ANGB

LOCATION: WEST RAMP (WRMP) ADDRESS: MT. CLEMENS, MICHIGAN

CASING ELEVATION: 582.15 TOTAL DEPTH: 35 FT

SURFACE ELEVATION: 577.68 WATER LEVEL: 11 FT

DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-21-88

DRILLER: KEVIN McCUMBER HELPER: GREG SCALLON WELL COMPLETED: 1-21-88

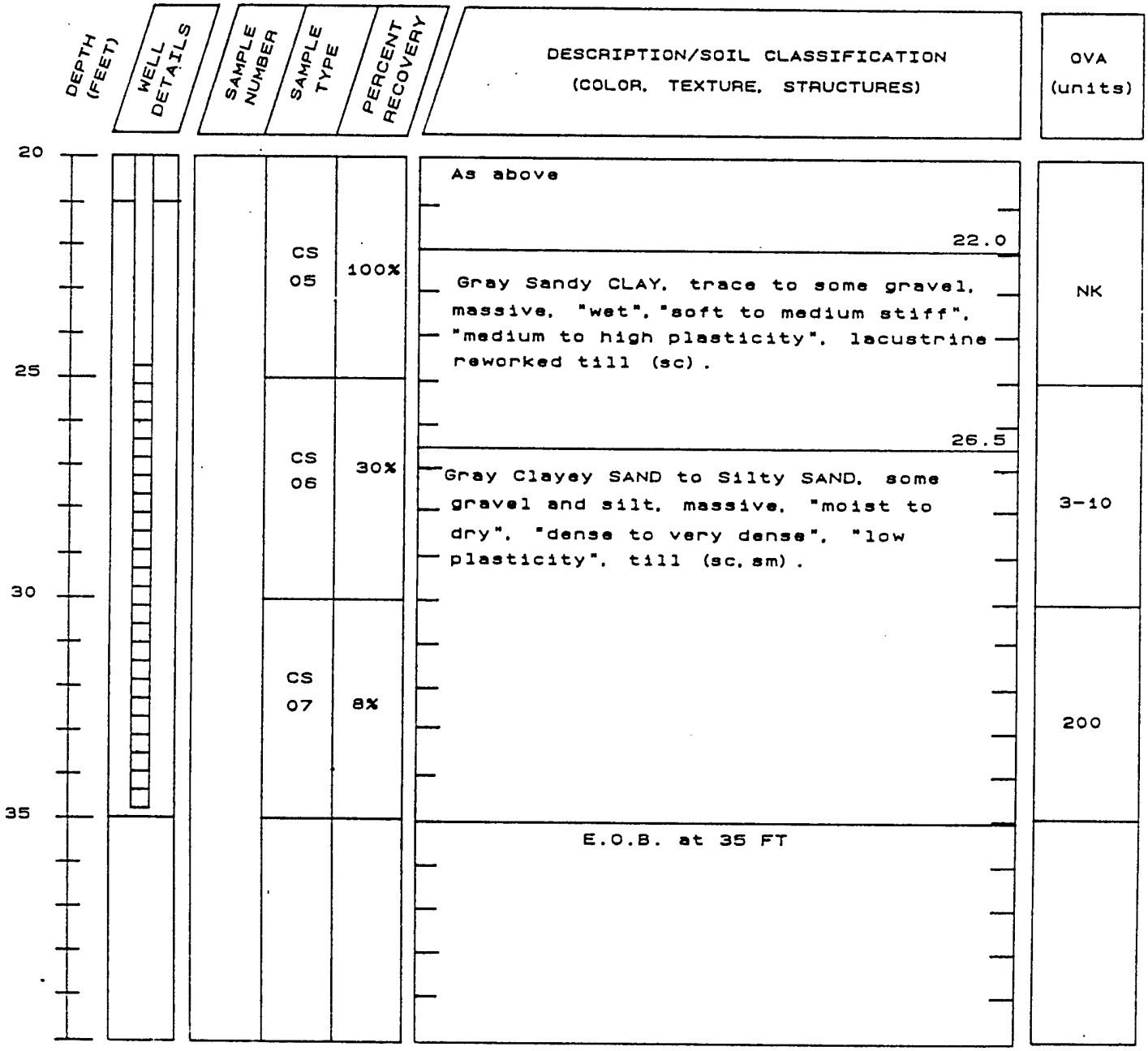
LOG BY: WLN/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0		CS 01		10%	Brown Clayey SILT, some sand, abundant roots in top several feet, massive, frozen in top 1 foot, "very stiff to hard", "low plasticity", (fill with topsoil development). 3.5	0
5		CS 02		100%	Brown Silty CLAY with prominent laminations and iron-stain mottles, "moist", "stiff", becoming stiffer near base, "low to medium plasticity", lacustrine (cl). ▽ 11.0	0
10		CS 03		100%	11.0 Gray Silty CLAY, no mottling, massive, "wet", "soft to very soft", "medium to high plasticity", lacustrine (cl).	0
15		CS 04		100%		1-3
20					(cont.)	

DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 04-253
OWNER: SELFRIDGE ANGB
LOCATION: WEST RAMP (WRMP)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: 582.15
TOTAL DEPTH: 35 FT
SURFACE ELEVATION: 577.68
WATER LEVEL: 11 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-21-88
DRILLER: KEVIN McCUMBER
HELPER: GREG SCALLON
WELL COMPLETED: 1-21-88
LOG BY: WLN/WLN
CHECKED BY: RLM
SHEET 2 OF 2



DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

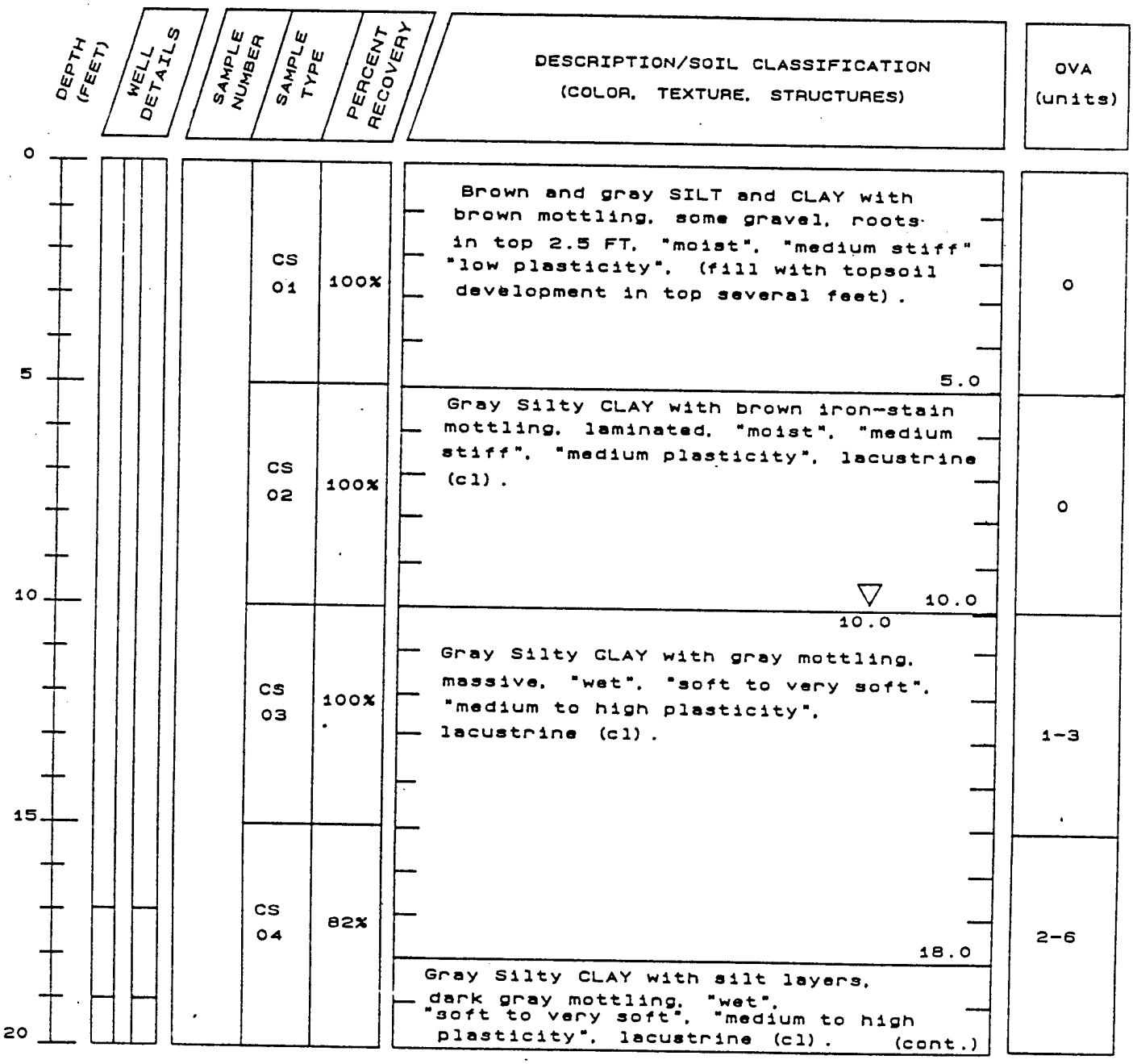
WELL NUMBER: 04-154
OWNER: SELFRIDGE ANGB
LOCATION: WEST RAMP (WRMP)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: 580.87
TOTAL DEPTH: 15 FT
SURFACE ELEVATION: 579.01
WATER LEVEL: 10 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED:
DRILLER: DAVE CRUISE
HELPER: TIM EBERT
WELL COMPLETED: 1-21-88
LOG BY: JDO/WLN
CHECKED BY: RLM
SHEET 1 OF 1

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0		CS 01		100%	Brown and gray SILT and CLAY with brown mottling, some gravel, roots in upper 2.5 FT, "moist", "medium stiff", "low plasticity" (fill with topsoil development in top several feet).	0
5		CS 02		100%	Gray SILTY CLAY with brown iron-stain mottling, laminated, "moist", "medium stiff", "medium plasticity", lacustrine (cl).	0
10		CS 03		100%	Gray SILTY CLAY with gray mottling, massive, "wet", "soft to very soft", "high plasticity", lacustrine (cl).	1-3
15					E.O.B. at 15 FT	
20						

DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

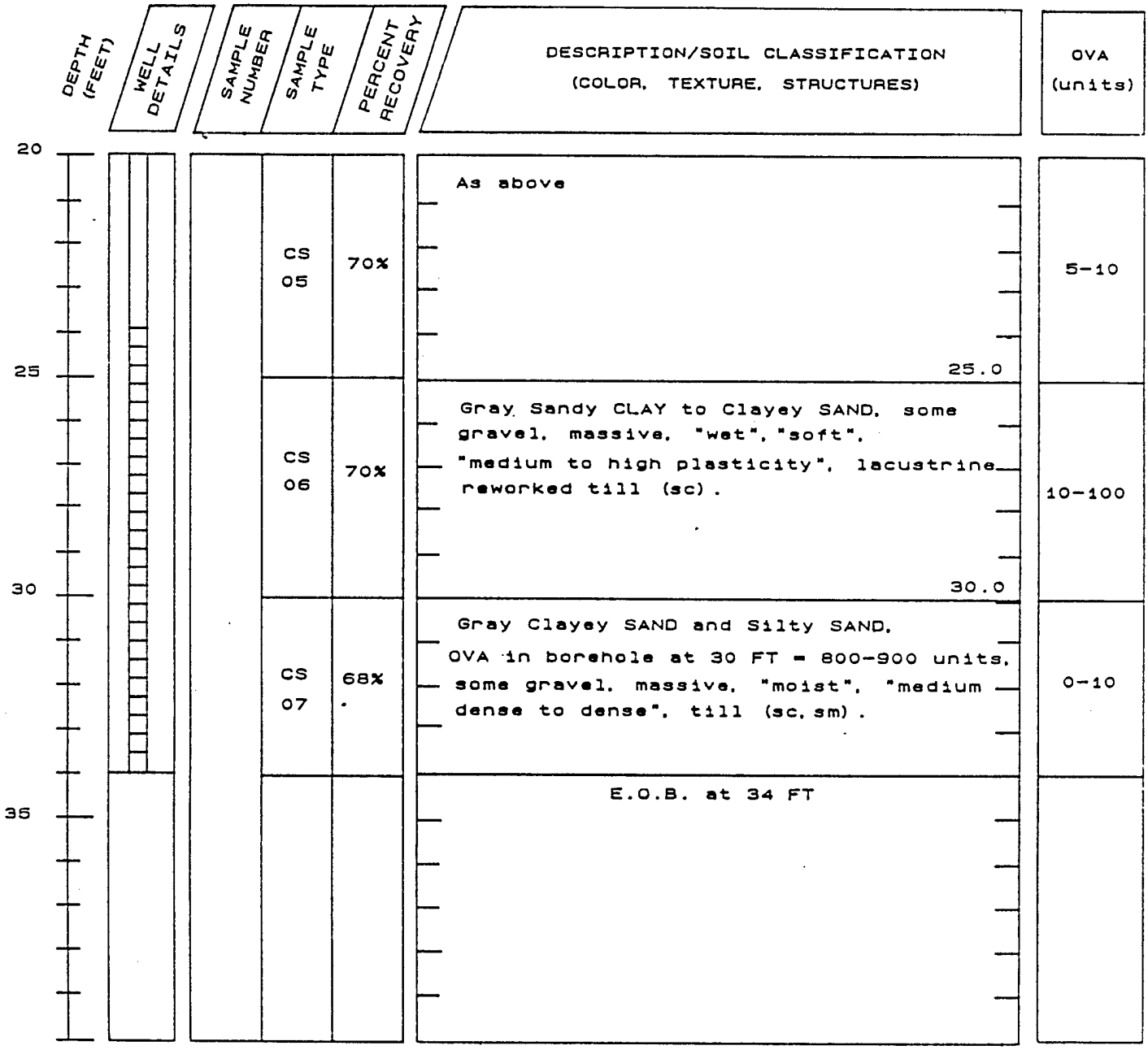
WELL NUMBER: 04-255
OWNER: SELFRIDGE ANGB
LOCATION: WEST RAMP (WRMP)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: 580.34
TOTAL DEPTH: 34 FT
SURFACE ELEVATION: 579.01
WATER LEVEL: 10 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-20-88
DRILLER: DAVE CRUISE
HELPER: TIM EBERT
WELL COMPLETED: 1-20-88
LOG BY: JDO/WLN
CHECKED BY: RLM
SHEET 1 OF 2



DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

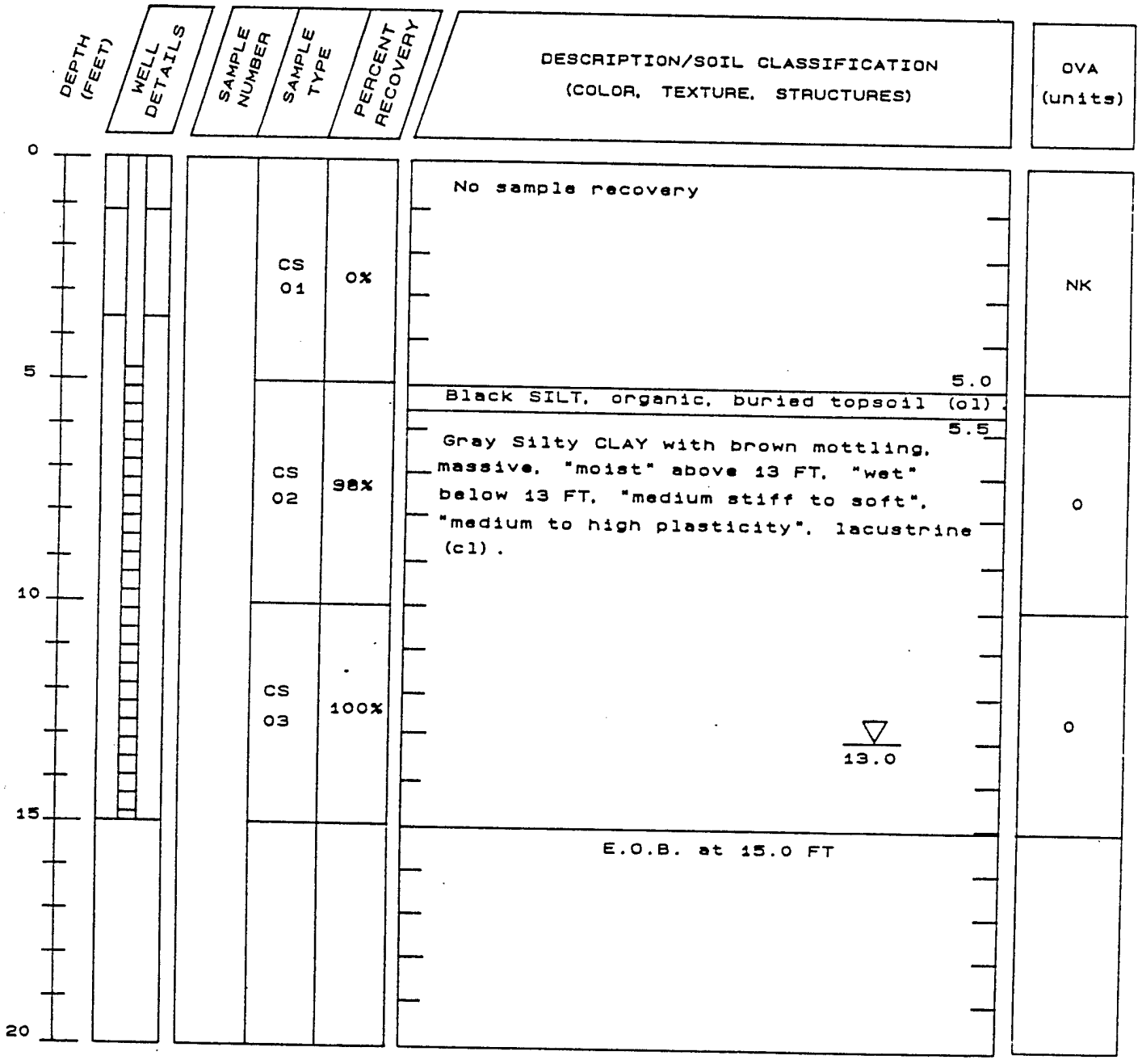
WELL NUMBER: 04-255
OWNER: SELFRIDGE ANGB
LOCATION: WEST RAMP (WRMP)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: 580.34
TOTAL DEPTH: 34 FT
SURFACE ELEVATION: 579.01
WATER LEVEL: 10 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-20-88
DRILLER: DAVE CRUISE
HELPER: TIM EBERT
WELL COMPLETED: 1-20-88
LOG BY: JDO/WLN
CHECKED BY: RLM
SHEET 2 OF 2



DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

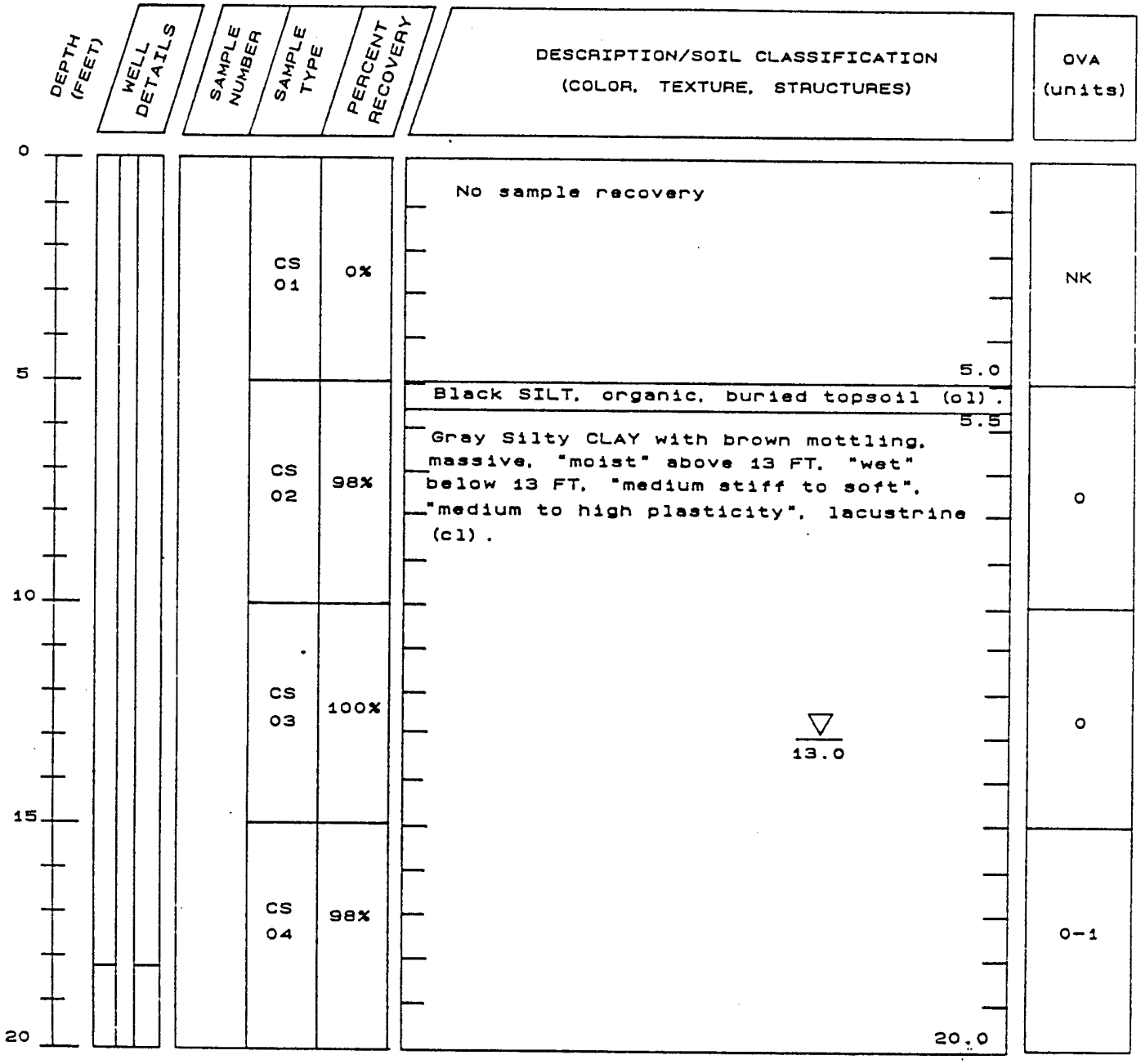
WELL NUMBER: 05-130
OWNER: SELFRIDGE ANGB
LOCATION: TUCKER CREEK LANDFILL (TCLF)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: 577.48
TOTAL DEPTH: 15 FT
SURFACE ELEVATION: 575.14
WATER LEVEL: 13 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-12-88
DRILLER: DAVE CRUISE
HELPER: JIM BOERST
WELL COMPLETED: 1-12-88
LOG BY: WLN/WLN
CHECKED BY: RLM
SHEET 1 OF 1



DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

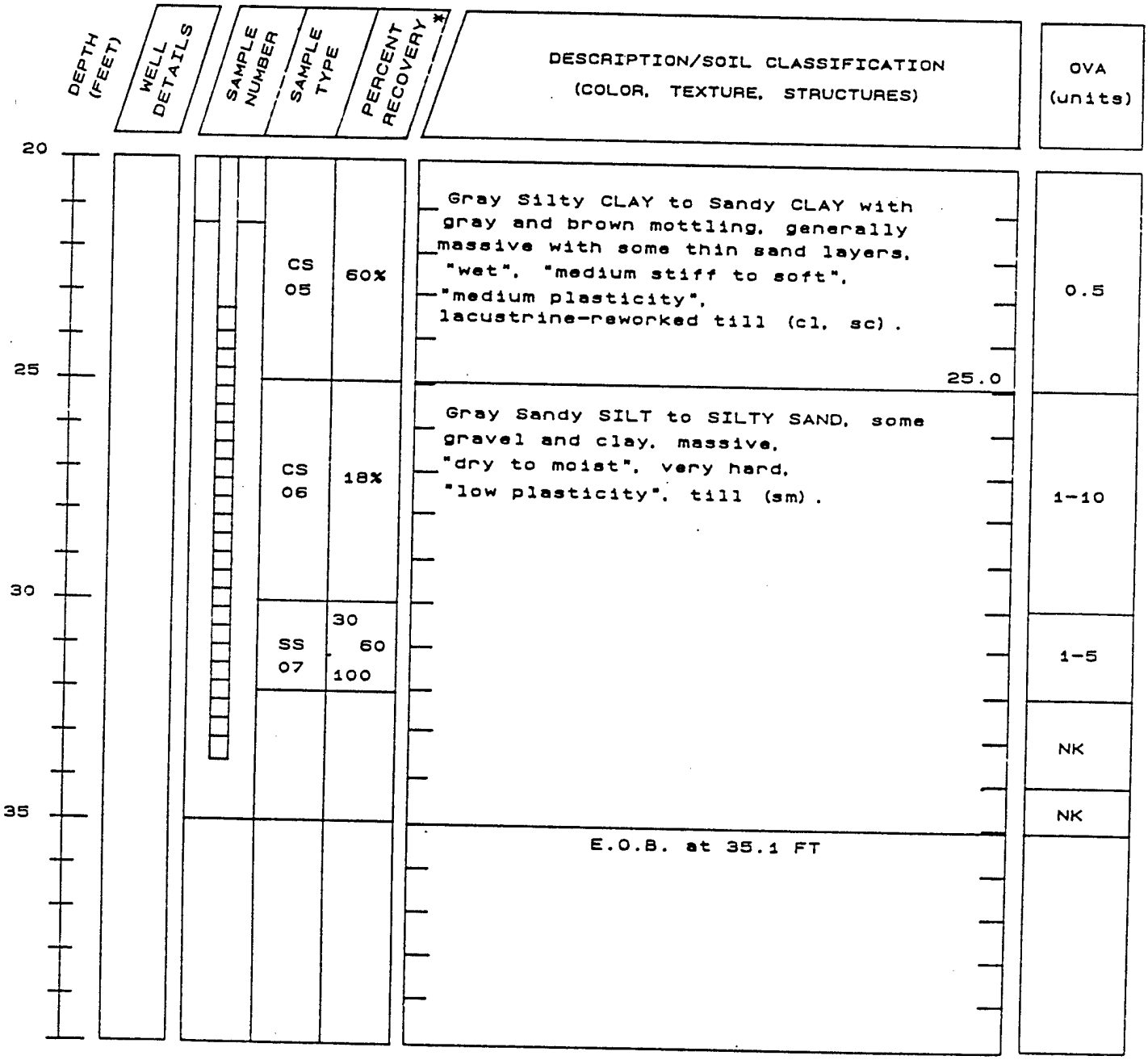
WELL NUMBER: 05-231
OWNER: SELFRIDGE ANGB
LOCATION: TUCKER CREEK LANDFILL (TCLF)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: 577.49
TOTAL DEPTH: 35.1 FT
SURFACE ELEVATION: 575.14
WATER LEVEL: 13 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-12-88
DRILLER: DAVE CRUISE
HELPER: GREG SCALLON
WELL COMPLETED: 1-12-88
LOG BY: JDO/WLN
CHECKED BY: RLM
SHEET 1 OF 2



DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 05-231
OWNER: SELFRIDGE ANGB
LOCATION: TUCKER CREEK LANDFILL (TCLF)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: 577.49
TOTAL DEPTH: 35.1 FT
SURFACE ELEVATION: 575.14
WATER LEVEL: 13 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-12-88
DRILLER: DAVE CRUISE
HELPER: GREG SCALLON
WELL COMPLETED: 1-12-88
LOG BY: JDO/WLN
CHECKED BY: RLM
SHEET 2 OF 2

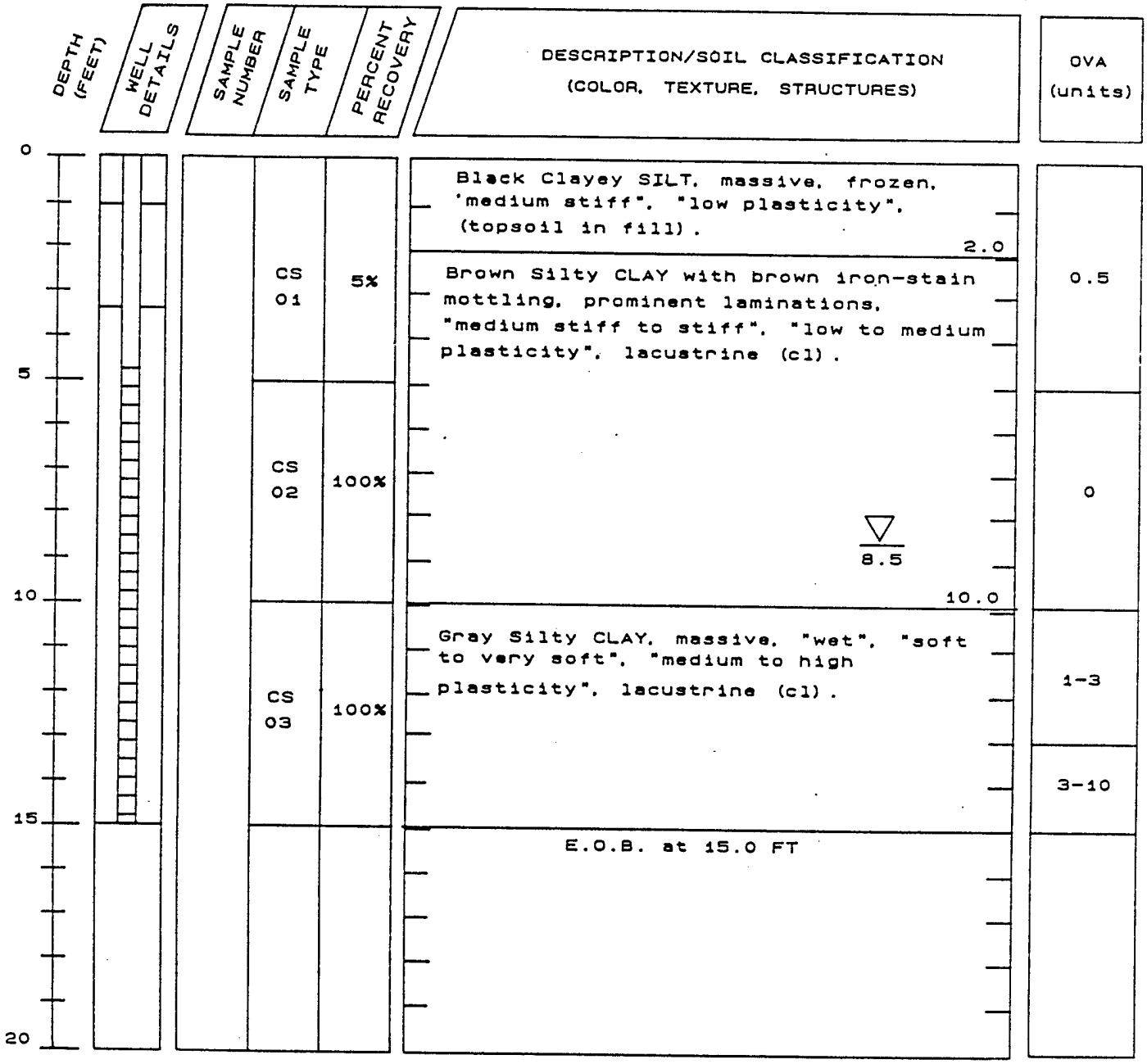


* Sample SS-07 was obtained using the Standard Penetration Test (ASTM D-1586). Values shown are blow counts.

DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

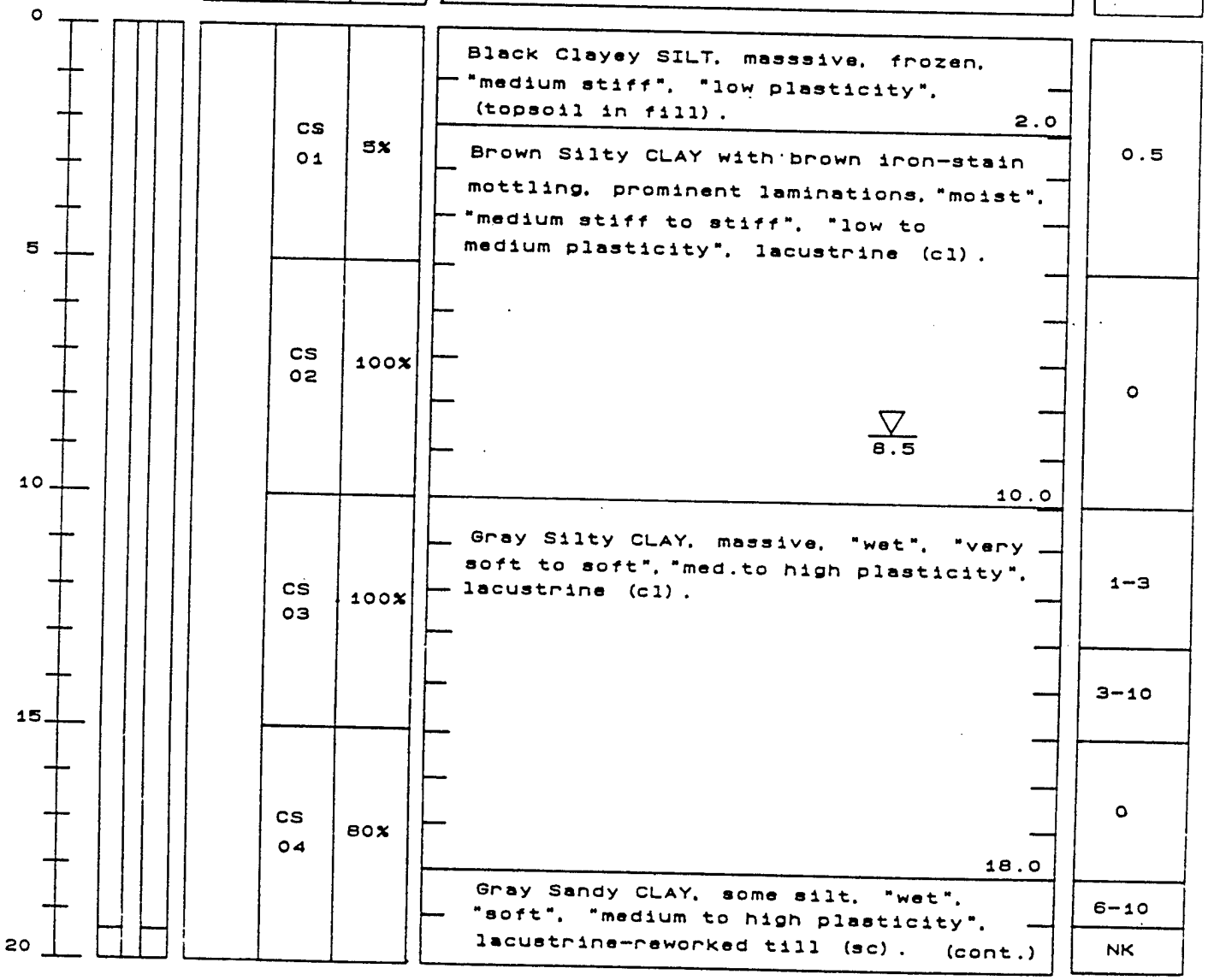
WELL NUMBER: 05-132
OWNER: SELFRIDGE ANGB
LOCATION: TUCKER CREEK LANDFILL (TCLF)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: 575.11
TOTAL DEPTH: 15 FT
SURFACE ELEVATION: 572.37
WATER LEVEL: 8.5 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-12-88
DRILLER: DAVE CRUISE
HELPER: JIM BOERST
WELL COMPLETED: 1-12-88
LOG BY: WLN/WLN
CHECKED BY: RLM
SHEET 1 OF 1



DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

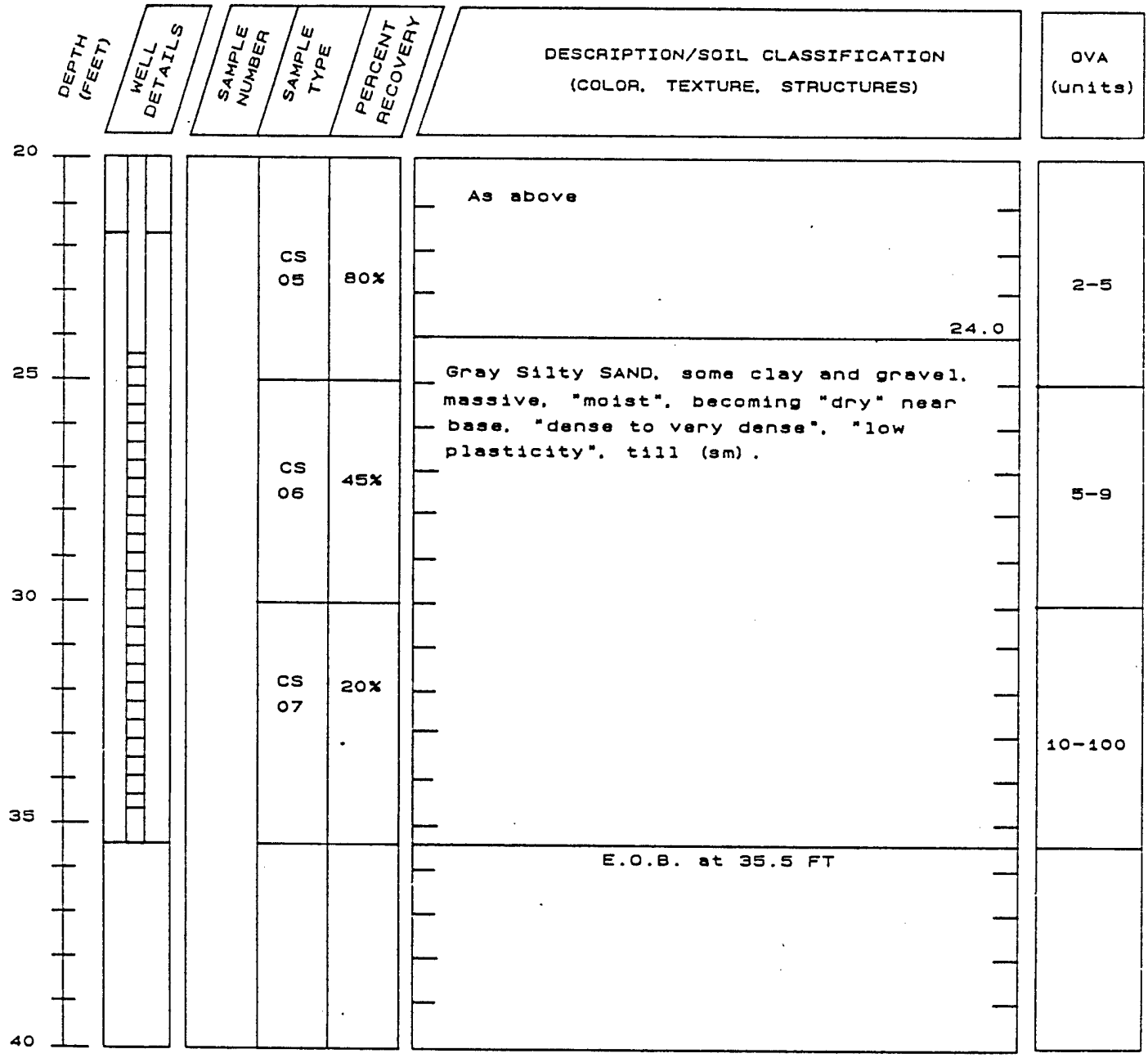
WELL NUMBER: 05-233
OWNER: SELFRIDGE ANGB
LOCATION: TUCKER CREEK LANDFILL (TCLF)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: 576.06
TOTAL DEPTH: 35.5 FT
SURFACE ELEVATION: 572.37
WATER LEVEL: 8.5 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-12-88
DRILLER: DAVE CRUISE
HELPER: JIM BOERST
WELL COMPLETED: 1-12-88
LOG BY: WLN/WLN
CHECKED BY: RLM
SHEET 1 OF 2



DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

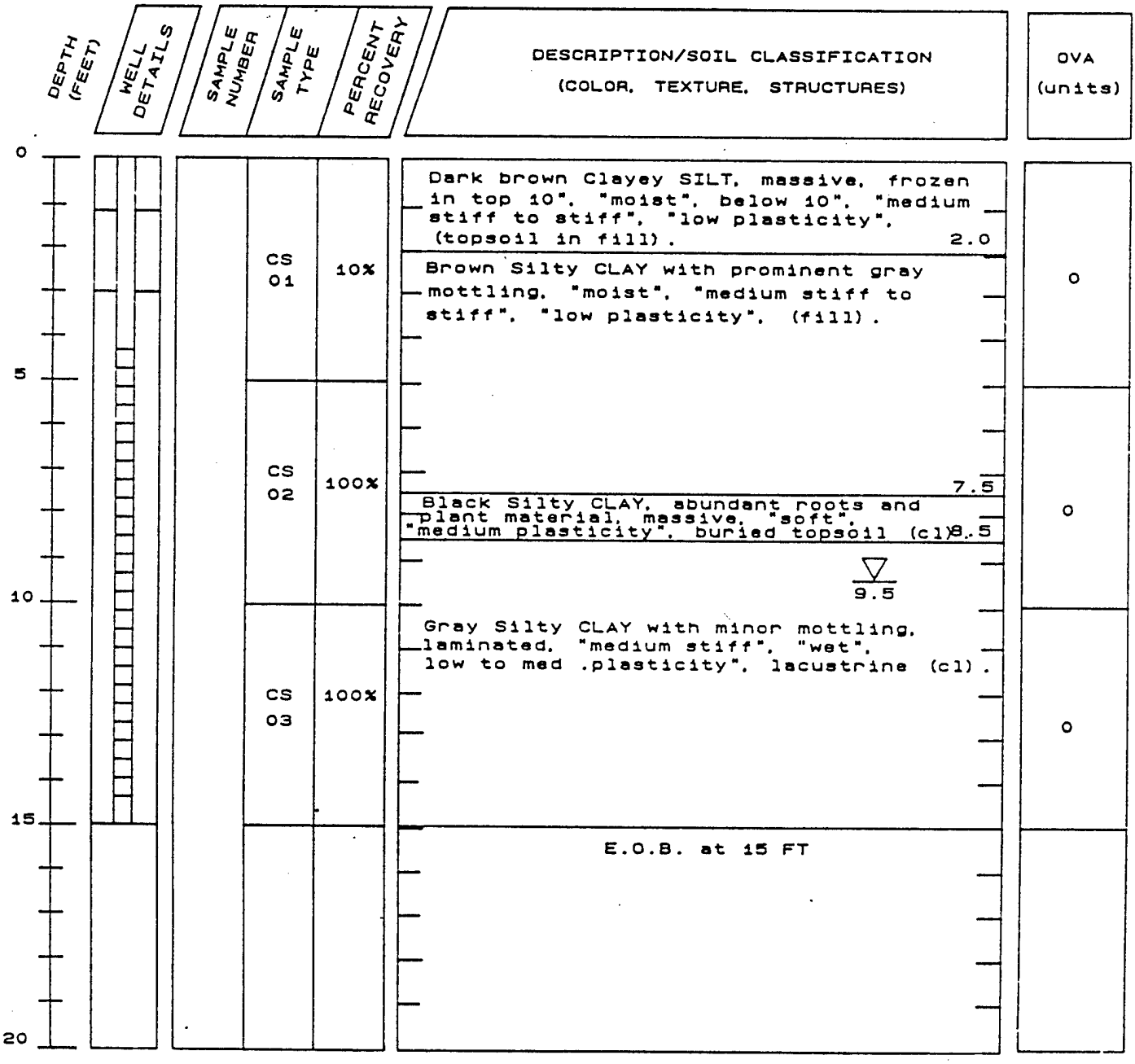
WELL NUMBER: 05-233
OWNER: SELFRIDGE ANGB
LOCATION: TUCKER CREEK LANDFILL (TCLF)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: 576.06
TOTAL DEPTH: 35.5 FT
SURFACE ELEVATION: 572.37
WATER LEVEL: 8.5 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-12-88
DRILLER: DAVE CRUISE
HELPER: JIM BOERST
WELL COMPLETED: 1-12-88
LOG BY: WLN & JDO/WLN
CHECKED BY: RLM
SHEET 2 OF 2



DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 05-134
OWNER: SELFRIDGE ANGB
LOCATION: TUCKER CREEK LANDFILL (TCLF)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: 578.71
TOTAL DEPTH: 15 FT
SURFACE ELEVATION: 576.35
WATER LEVEL: 9.5 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-13-88
DRILLER: DAVE CRUISE
HELPER: JIM BOERST
WELL COMPLETED: 1-13-88
LOG BY: WLN/WLN
CHECKED BY: RLM
SHEET 1 OF 1



DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 05-235
OWNER: SELFRIDGE ANGB
LOCATION: TUCKER CREEK LANDFILL (TCLF)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: 580.06
TOTAL DEPTH: 34 FT.
SURFACE ELEVATION: 578.08
WATER LEVEL: 15 FT.
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-19-88
DRILLER: DAVE CRUISE
HELPER: TIM EBERT
WELL COMPLETED: 1-19-88
LOG BY: JDO/WLN
CHECKED BY: RLM
SHEET 1 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0		CS 01		22%	Gray black to brown SILT, roots near top, road aggregate near base, frozen (topsoil in fill)	0
5		CS 02		28%	Black SILT and SAND, some gravel, friable, "moist to very moist", "medium dense", "low plasticity" (fill).	300-400
10		CS 03		2%		40
15		CS 04		2%	Gray SILTY CLAY with brown and gray mottling, "wet", "soft", "medium to high plasticity", lacustrine (cl). 15.0	4-5
20					20.0	

DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

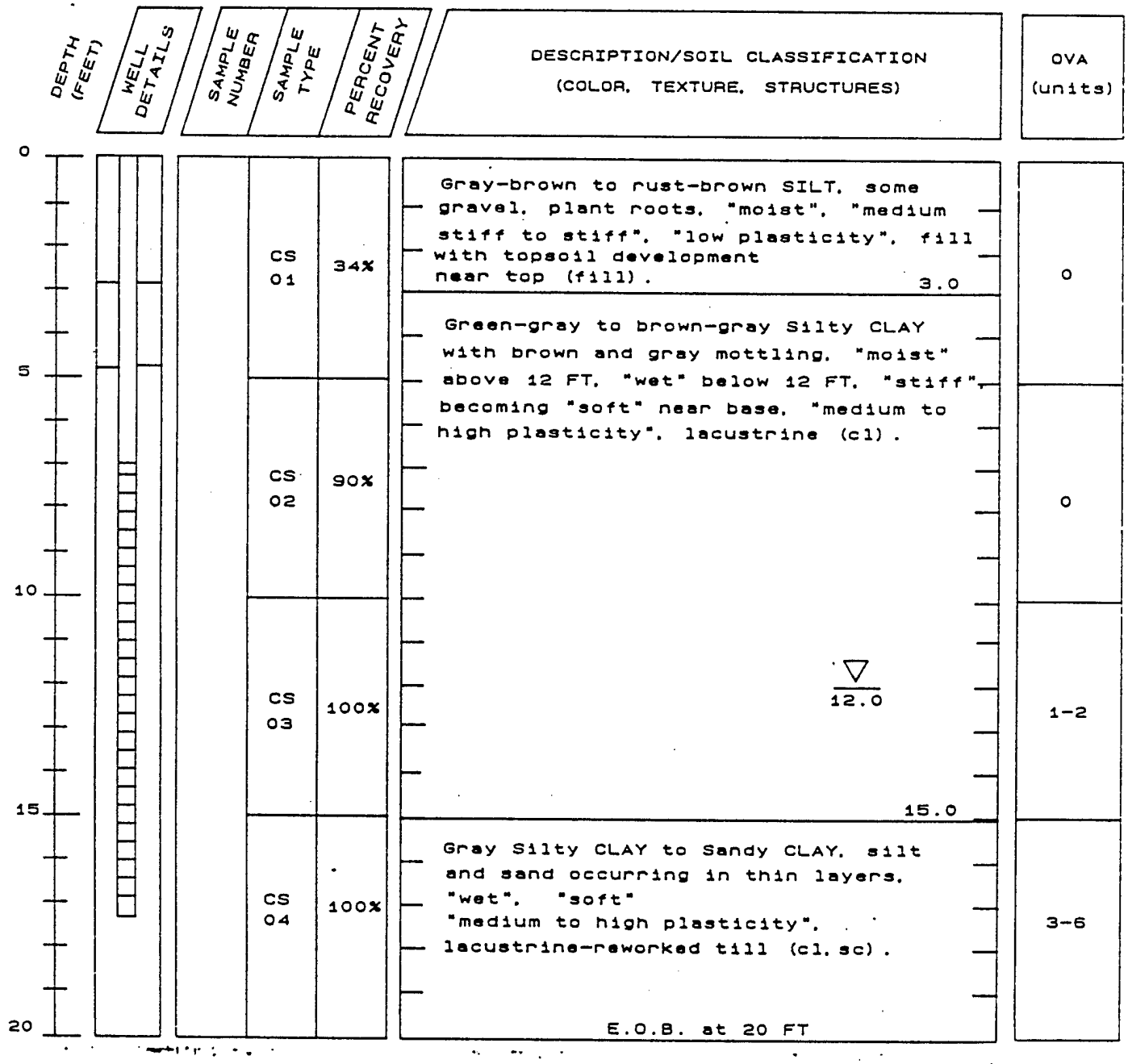
WELL NUMBER: 05-235
OWNER: SELFRIDGE ANGB
LOCATION: TUCKER CREEK LANDFILL (TCLF)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: 580.06
TOTAL DEPTH: 34 FT.
SURFACE ELEVATION: 578.08
WATER LEVEL: 15 FT.
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-19-88
DRILLER: DAVE CRUISE
HELPER: TIM EBERT
WELL COMPLETED: 1-19-88
LOG BY: JDO/WLN
CHECKED BY: RLM
SHEET 2 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20		CS 05		28%	Gray SANDY CLAY with gray - brown mottling, generally massive with thin sand layers, "wet", "soft to very soft", "medium to high plasticity", lacustrine - reworked till (sc)	1-2
25		CS 06		100%		5-10
30		CS 07		100%		7-10
35					EOB AT 34 FT.	
40						

DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 05-167
OWNER: SELFRIDGE ANGB
LOCATION: TUCKER CREEK LANDFILL (TCLF)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: 577.03
TOTAL DEPTH: 20 FT
SURFACE ELEVATION: 574.92
WATER LEVEL: 12 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 2-4-88
DRILLER: DAVE CRUISE
HELPER: JIM BOERST
WELL COMPLETED: 2-4-88
LOG BY: JDO/WLN
CHECKED BY: RLM
SHEET 1 OF 1



DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 06-144 OWNER: SELFRIDGE ANGB

LOCATION: NORTHWEST LANDFILL (NWLF) ADDRESS: MT. CLEMENS, MICHIGAN

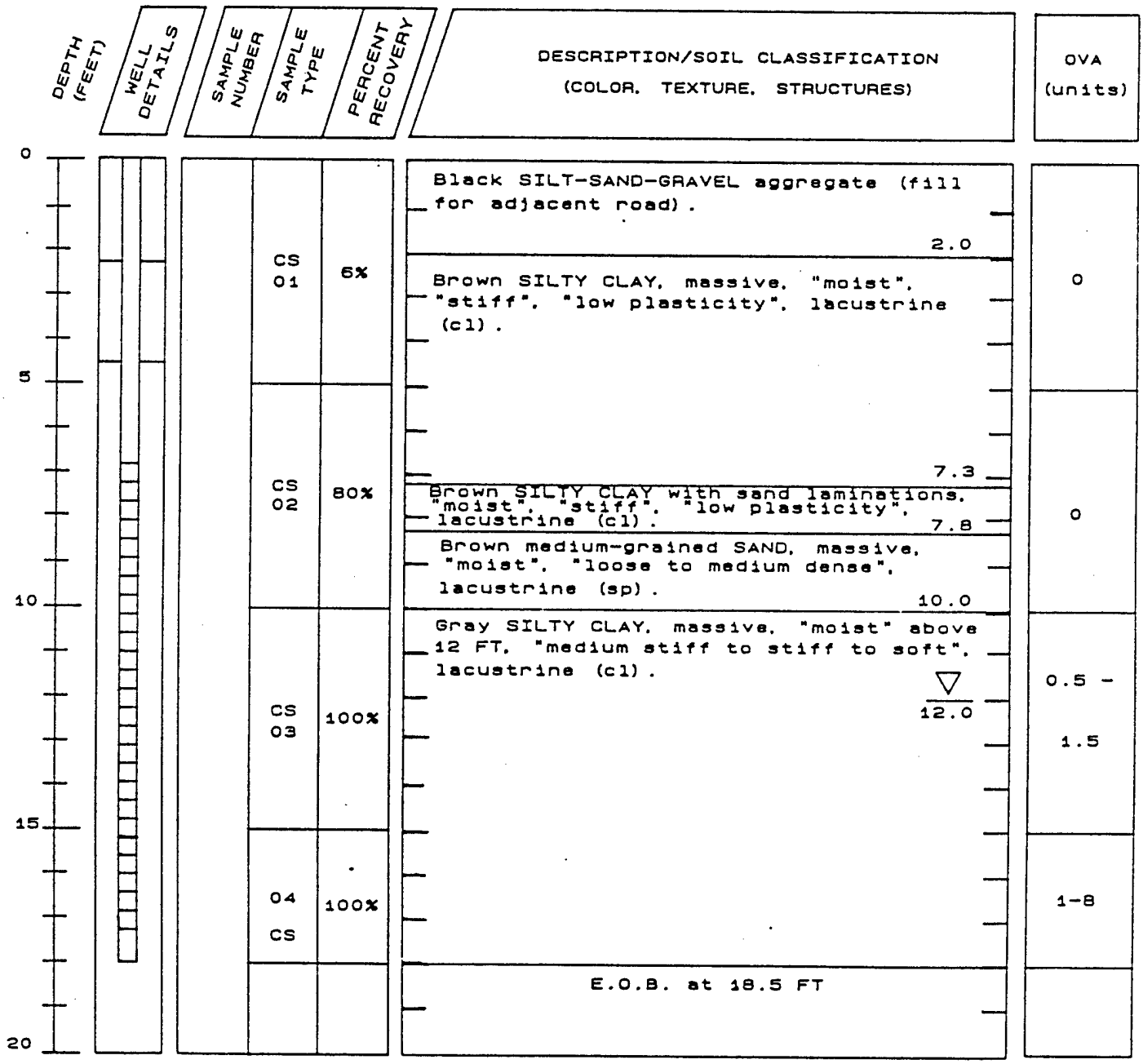
CASING ELEVATION: 587.70 TOTAL DEPTH: 15 FT

SURFACE ELEVATION: 585.23 WATER LEVEL: 12 FT

DRILLING COMPANY : ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-22-88

DRILLER: KEVIN McCUMBER HELPER: JIM BOERST WELL COMPLETED: 1-22-88

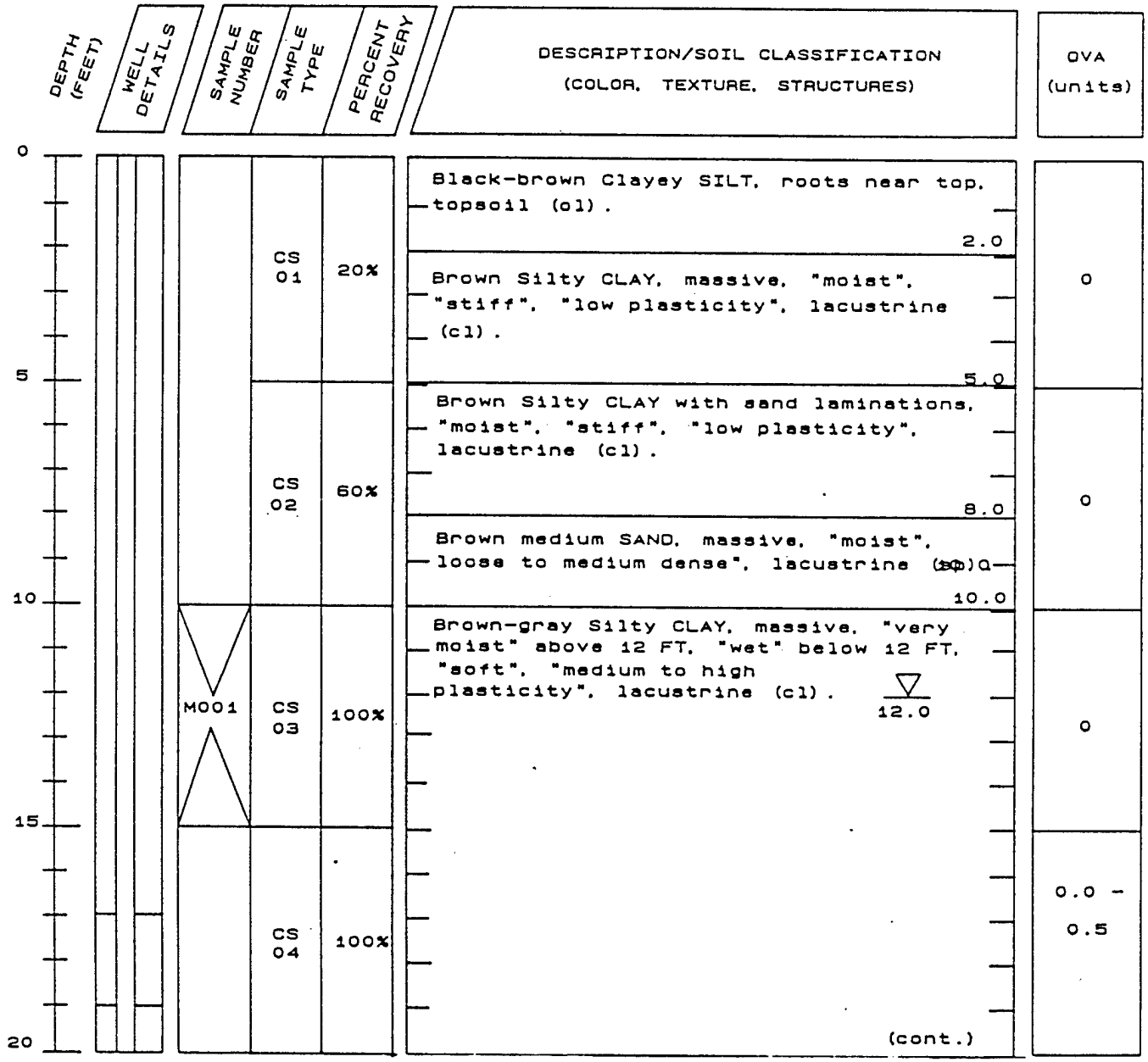
LOG BY: WLN/WLN CHECKED BY: RLM SHEET 1 OF 1



DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

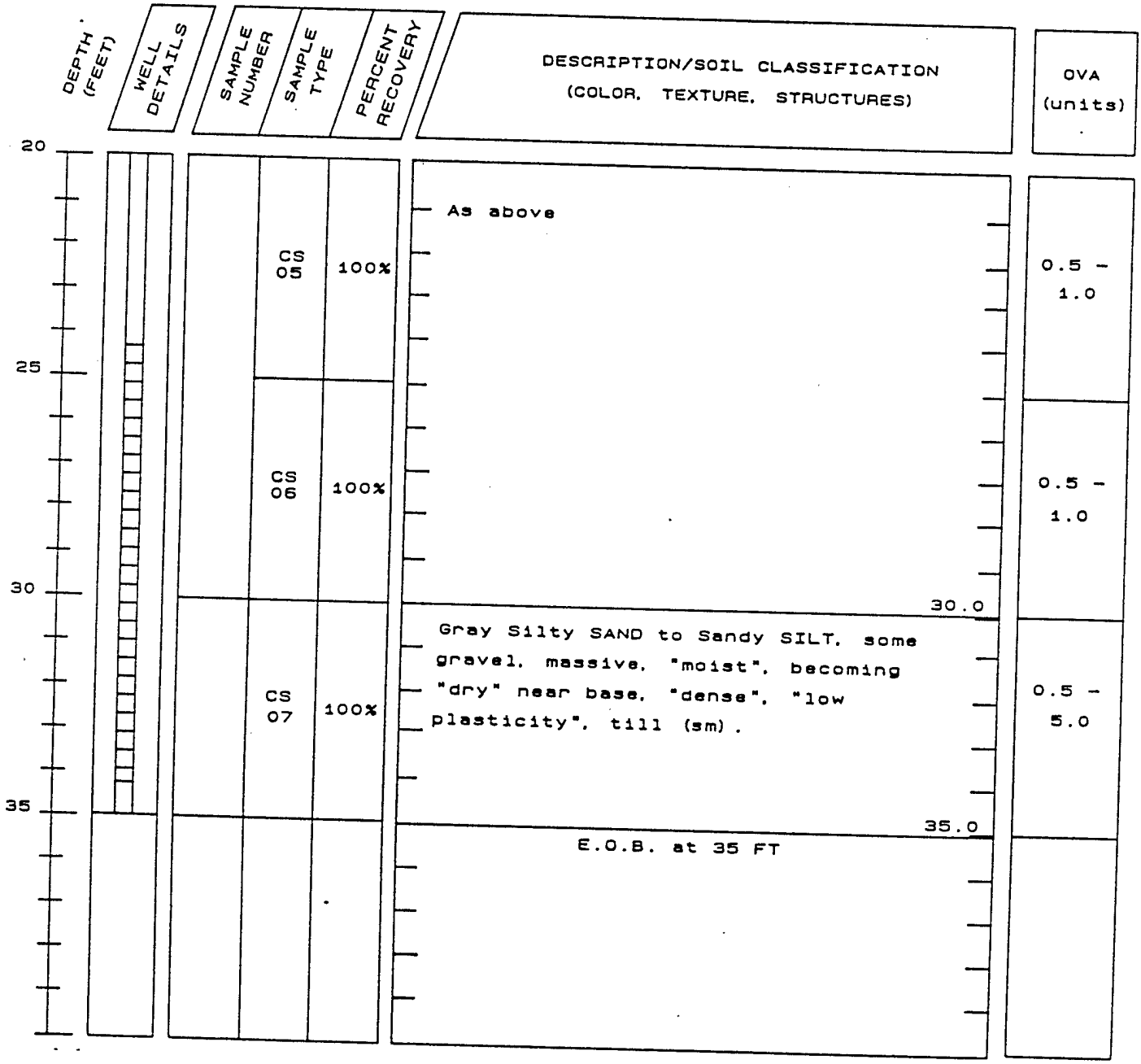
WELL NUMBER: 06-245
OWNER: SELFRIDGE ANGB
LOCATION: NORTHWEST LANDFILL (NWLF)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: 587.55
TOTAL DEPTH: 35 FT
SURFACE ELEVATION: 585.23
WATER LEVEL: 12 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 2-2-88
DRILLER: DAVE CRUISE
HELPER: GREG SCALLON
WELL COMPLETED: 2-2-88
LOG. BY: CKW/WLN
CHECKED BY: RLM
SHEET 1 OF 2



DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

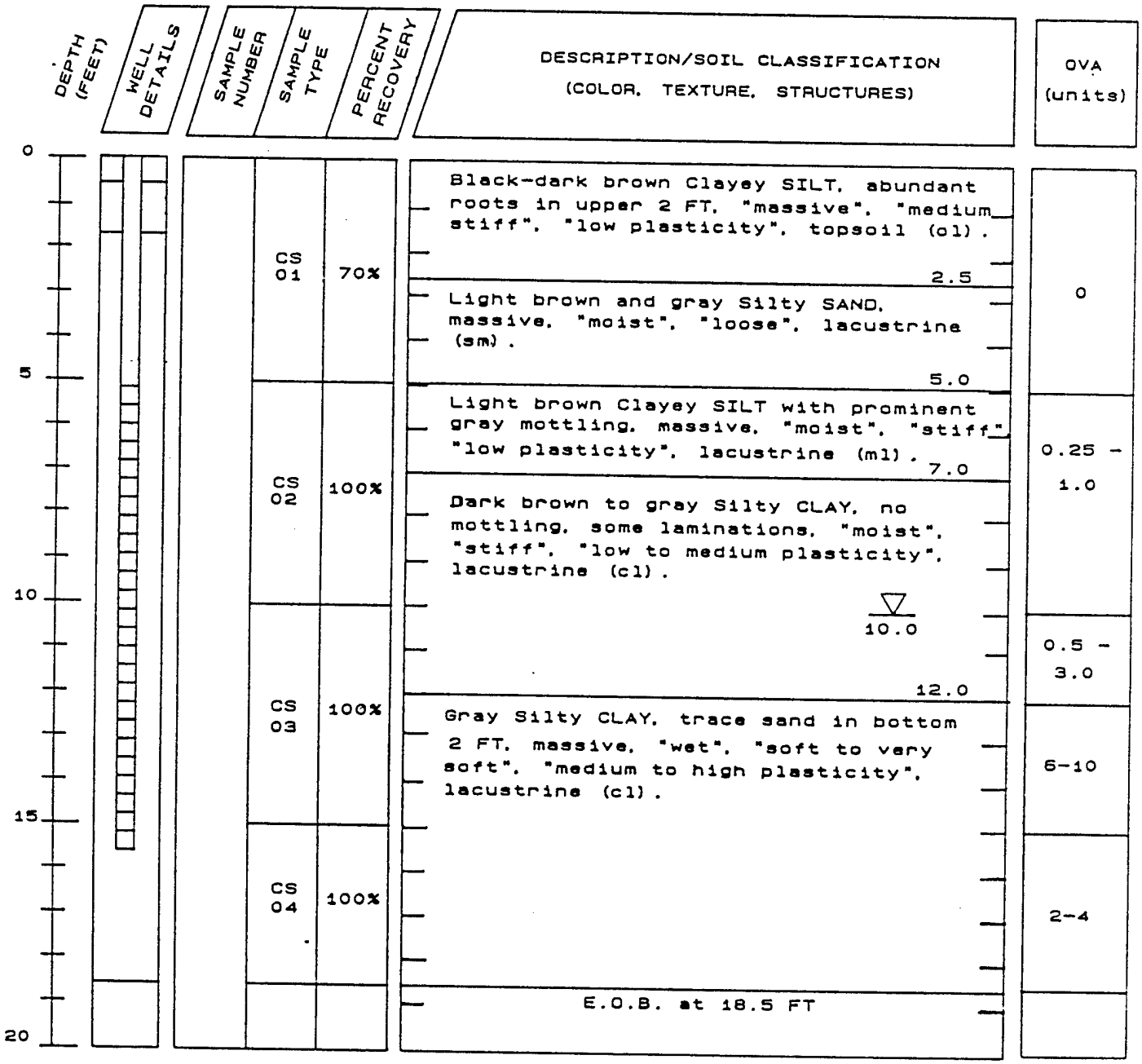
WELL NUMBER: 06-245
OWNER: SELFRIDGE ANGB
LOCATION: NORTHWEST LANDFILL (NWLF)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: 587.55
TOTAL DEPTH: 35 FT
SURFACE ELEVATION: 585.23
WATER LEVEL: 12 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 2-2-88
DRILLER: DAVE CRUISE
HELPER: GREG SCALLON
WELL COMPLETED: 2-2-88
LOG BY: CKW/WLN
CHECKED BY: RLM
SHEET 2 OF 2



DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

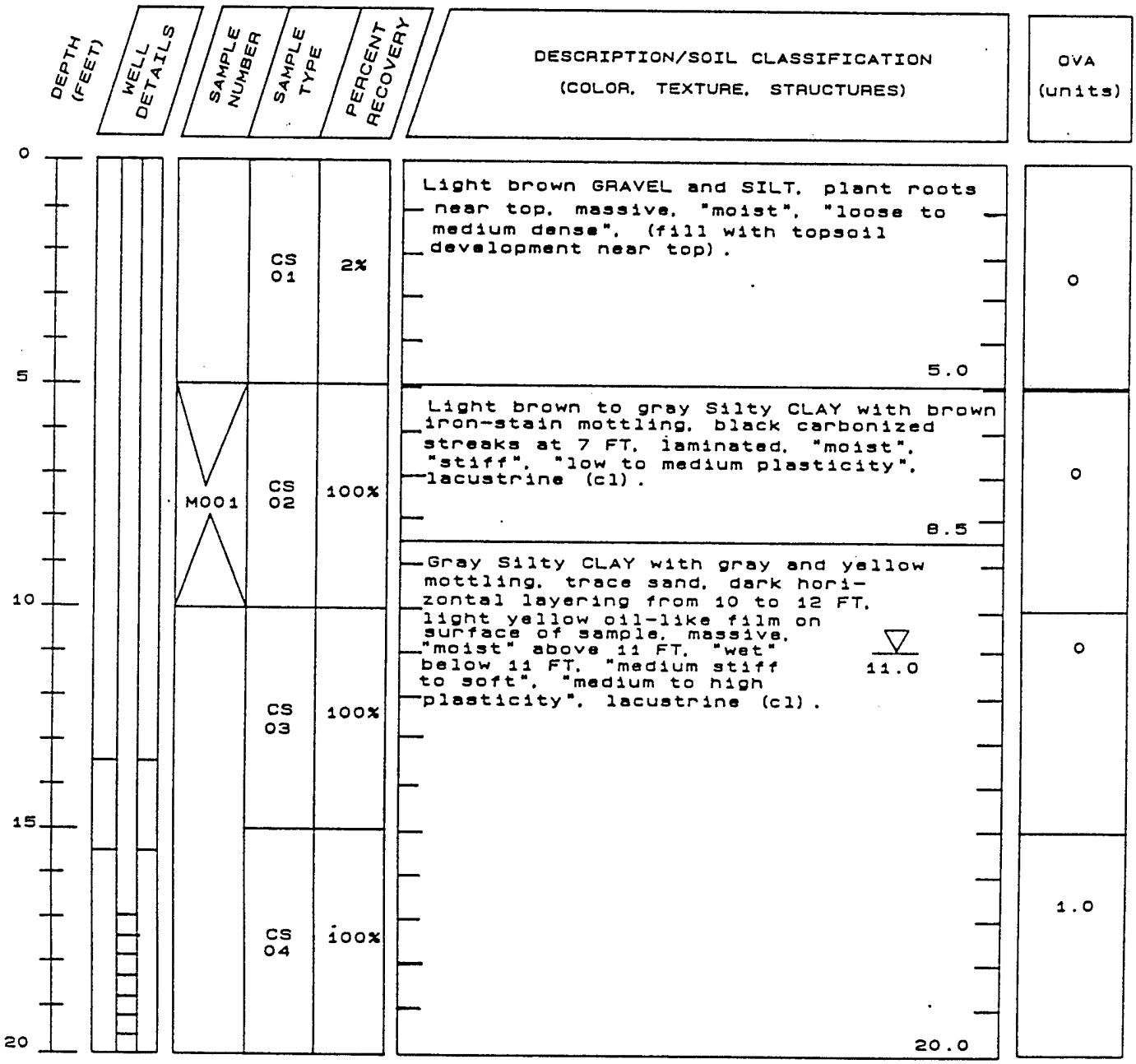
WELL NUMBER: 06-146
OWNER: SELFRIDGE ANGB
LOCATION: NORTHWEST LANDFILL (NWLF)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: 583.98
TOTAL DEPTH: 18.5 FT
SURFACE ELEVATION: 579.99
WATER LEVEL: 10.0 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-22/23-88
DRILLER: DAVE CRUISE
HELPER: JIM BOERST
WELL COMPLETED: 1-12-88
LOG BY: WLN/WLN
CHECKED BY: RLM
SHEET 1 OF 1



DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

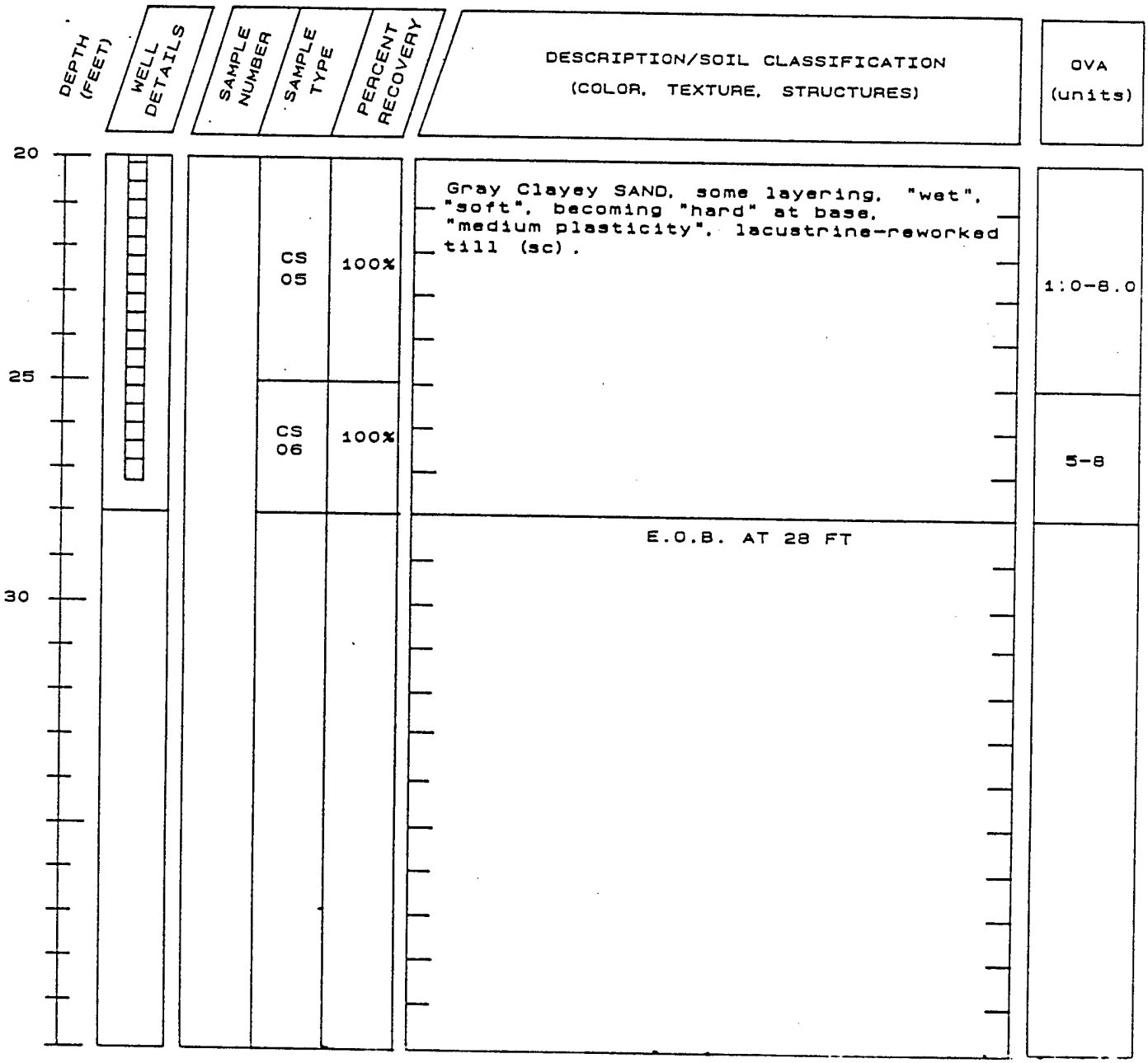
WELL NUMBER: 06-247
OWNER: SELFRIDGE ANGB
LOCATION: NORTHWEST LANDFILL (NWLF)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: 583.54
TOTAL DEPTH: 28 FT
SURFACE ELEVATION: 581.55
WATER LEVEL: 11 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 2-1-88
DRILLER: KEVIN McCUMBER
HELPER: JIM BOERST
WELL COMPLETED: 2-1-88
LOG BY: JDO/WLN
CHECKED BY: RLM
SHEET 1 OF 2



DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

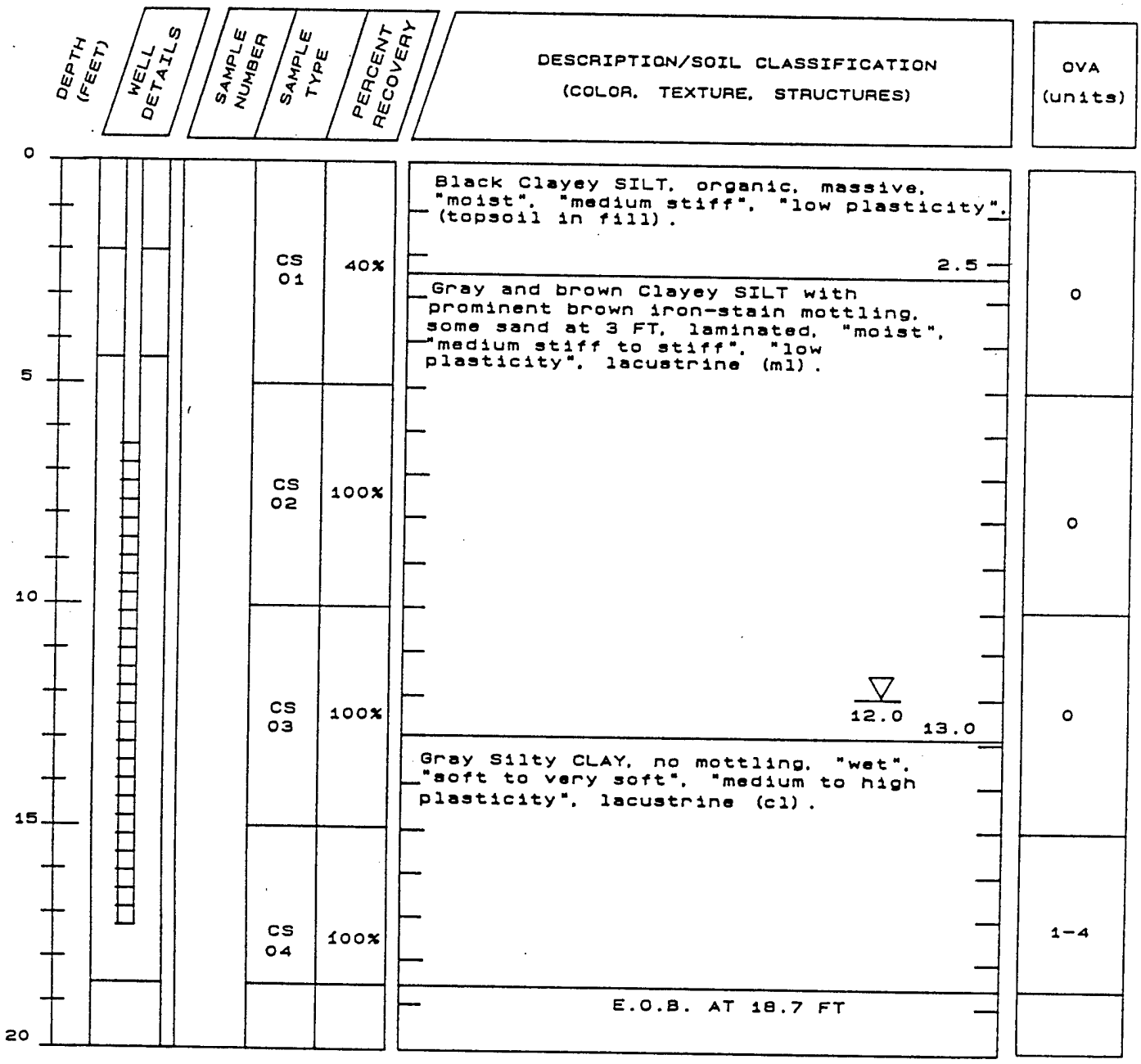
WELL NUMBER: 06-247
OWNER: SELFRIDGE ANGB
LOCATION: NORTHWEST LANDFILL (NWLF)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: 583.54
TOTAL DEPTH: 28 FT
SURFACE ELEVATION: 581.55
WATER LEVEL: 11 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 2-1-88
DRILLER: KEVIN MCCUMBER
HELPER: JIM BOERST
WELL COMPLETED: 2-1-88
LOG BY: JDO/WLN
CHECKED BY: RLM
SHEET 2 OF 2



DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 07-136
OWNER: SELFRIDGE ANGB
LOCATION: EAST RAMP (ERMP)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: 577.61
TOTAL DEPTH: 18.7 FT
SURFACE ELEVATION: 575.53
WATER LEVEL: 12.0 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-20-88
DRILLER: KEVIN MCCUMBER
HELPER: GREG SCALLON
WELL COMPLETED: 1-20-88
LOG BY: WLN/WLN
CHECKED BY: RLM
SHEET 1 OF 1



DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 07-237
OWNER: SELFRIDGE ANGB
LOCATION: EAST RAMP (ERMP)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: 578.31
TOTAL DEPTH: 38.5 FT
SURFACE ELEVATION: 575.53
WATER LEVEL: 12.0 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-19-88
DRILLER: KEVIN MCCUMBER
HELPER: GREG SCALLON
WELL COMPLETED: 1-19-88
LOG BY: WLN/WLN
CHECKED BY: RLM
SHEET 1 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0		CS 01		40%	Black Clayey SILT, organic, massive, "moist", "medium stiff", "low plasticity", (topsoil in fill).	
2.5					Gray and brown Clayey SILT with prominent brown iron-stain mottling, some sand at 3 FT, laminated, "moist", "medium stiff to stiff", "low plasticity", lacustrine (ml).	0
5		CS 02		100%		0
10		CS 03		100%	▽ 12.0	0
13.0					Gray Silty CLAY, no mottling, massive, "wet", "soft to very soft", "medium to high plasticity", lacustrine (cl).	
15		CS 04		100%		1-4
20					(cont.)	

DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 07-237 OWNER: SELFRIDGE ANGB

LOCATION: EAST RAMP (ERMP) ADDRESS: MT. CLEMENS,

MICHIGAN

CASING ELEVATION: 578.31 TOTAL DEPTH: 38.5 FT

SURFACE ELEVATION: 575.53 WATER LEVEL: 12.0 FT

DRILLING COMPANY : ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-19-88

DRILLER: KEVIN MCCUMBER HELPER: GREG SCALLON WELL COMPLETED: 1-19-88

LOG BY: WLN/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20		CS 05		80%	As above	3-12
25		CS 06		80%		3-6
30		CS 07		90%		5-11
35		CS 08		100%	37.0 Gray Sandy CLAY, massive, "wet", "soft", "medium to high plasticity", lacustrine-reworked till (sc).	NK
40					E.O.B. AT 38.5 FT	

DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 07-138
OWNER: SELFRIDGE ANGB
LOCATION: EAST RAMP (ERMP)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: 576.66
TOTAL DEPTH: 17 FT
SURFACE ELEVATION: 574.42
WATER LEVEL: 10 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-24-88
DRILLER: KEVIN MCCUMBER
HELPER: JIM BOERST
WELL COMPLETED: 1-24-88
LOG BY: JDO/WLN
CHECKED BY: RLM
SHEET 1 OF 1

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0		CS 01		30%	Black SILT, organic, (topsoil in fill). 3 Brown to dark gray Silty CLAY with brown iron-stain mottling, some gravel from 5 to 7 FT, massive, "moist", "medium stiff to stiff", "low plasticity", fill.	0
5		CS 02		100%	7.0 Brown and gray Silty CLAY with brown iron-stain mottling, thinly laminated "moist", "medium stiff to stiff", "low to medium plasticity", lacustrine (cl). ▽ 10.0	1
10		CS 03		100%	10.0 Gray Silty CLAY with gray mottling massive, "wet", "soft to very soft", "medium to high plasticity", lacustrine (cl).	0.5
15		CS 04		100%		1-2
20					E.O.B. AT 17 FT	

DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 07-239
OWNER: SELFRIDGE ANGB
LOCATION: EAST RAMP (ERMP)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: 576.37
TOTAL DEPTH: 37 FT.
SURFACE ELEVATION: 574.42
WATER LEVEL: 10 FT.
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-27-88
DRILLER: KEVIN McCUMBER
HELPER: JIM BOERST
WELL COMPLETED: 1-27-88
LOG BY: JDO/WLN
CHECKED BY: RLM
SHEET 1 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0		CS 01		30%	Black organic SILT, massive, "moist, "medium stiff", "low plasticity", topsoil (ol). 0.3	
					Brown to dark gray SILTY CLAY with brown iron - stain mottling, some gravel from 5 to 7 FT., massive, "moist", "medium stiff to stiff", "low plasticity", fill.(cl)	0
5		CS 02		100%	7.0	
					Brown and gray SILTY CLAY with brown iron - stain mottling, thinly laminated, "moist", "medium stiff to stiff", "low to medium plasticity', lacustrine (cl). ▽ 10.0	1
10		CS 03		100%	Gray SILTY CLAY with gray mottling, massive, "wet", "soft to very soft", "high plasticity", lacustrine (cl).	0.5
15		CS 04		100%		2-8
20						

DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 07-239 OWNER: SELFRIDGE ANGB

LOCATION: EAST RAMP (ERMP) ADDRESS: MT. CLEMENS, MICHIGAN

CASING ELEVATION: 576.37 TOTAL DEPTH: 37 FT.

SURFACE ELEVATION: 574.42 WATER LEVEL: 10 FT.

DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-27-88

DRILLER: KEVIN McCUMBER HELPER: JIM BOERST WELL COMPLETED: 1-27-88

LOG BY: JDO/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20		CS 05		100%	As above	5-6
25		CS 06		100%		3-8
30		CS 07		100%	Gray SANDY CLAY with gray mottling, massive, "wet", "soft", "medium to high plasticity", lacustrine - reworked till (sc).	50 >1000
35		CS 08		90%	Gray CLAYEY SAND and SILTY SAND, massive, "moist", "medium dense to dense", till (sc, sm).	NI
40					EOB at 37 FT.	

DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 07-140
OWNER: SELFRIDGE ANGB
LOCATION: EAST RAMP (ERMP)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: 578.23
TOTAL DEPTH: 17 FT
SURFACE ELEVATION: 576.05
WATER LEVEL: 11 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-25-88
DRILLER: KEVIN MCCUMBER
HELPER: JIM BOERST
WELL COMPLETED: 1-25-88
LOG BY: JDO/WLN
CHECKED BY: RLM
SHEET 1 OF 1

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0		CS 01		6%	Brown SILT, organic (topsoil in fill) .0.6 Light brown Silty SAND with some brown iron-stain mottling, massive, "moist", "loose to medium dense", fill	0
5		CS 02		100%	5.0 Brown and gray SILT to Silty CLAY with brown iron-stain mottling, trace sand, laminated, "moist", "medium stiff to stiff", "low plasticity", lacustrine (ml, cl).	0
10		CS 03		100%	▽ 11.0 11.0 Gray Silty CLAY, some gray mottling, massive, "wet", "soft to very soft", "high plasticity", lacustrine (cl).	0
15		CS 04		100%		0.5
20					E.O.B. AT 17 FT	

DRILLING & WELL CONSTRUCTION LOG — ROY F. WESTON, INC.

WELL NUMBER: 07-241 — OWNER: SELFRIDGE ANGB

LOCATION: EAST RAMP (ERMP) — ADDRESS: MT. CLEMENS, MICHIGAN

CASING ELEVATION: 578.34 — TOTAL DEPTH: 37 FT

SURFACE ELEVATION: 576.05 — WATER LEVEL: 10 FT

DRILLING COMPANY: ETI — DRILLING METHOD: 4.25 HSA — BORING COMPLETED: 2-2-88

DRILLER: KEVIN MCCUMBER — HELPER: JIM BOERST — WELL COMPLETED: 2-2-88

LOG BY: JDO/WLN — CHECKED BY: RLM — SHEET 1 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0		CS 01		40%	Blck.SILT, organ.(topsoil in fill). 0.6 Light brown SILTY SAND with some brown iron-stain mottling, massive, "moist", "loose to medium dense" (fill). 5.0	0
5		CS 02		100%	Brown and gray SILT to Silty CLAY with brown iron-stain mottling, trace sand, laminated, "moist", "medium stiff to stiff", "low plasticity", lacustrine (ml, cl). ▽ 11.0	0
10		CS 03		100%	11.0 Gray Silty CLAY, some gray mottling, massive, "wet", "soft to very soft", "med.to high plast.", lacustrine (cl).	0
15		CS 04		100%	(cont.)	2-3
20						

DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 07-241

OWNER: SELFRIDGE ANGB

LOCATION: EAST RAMP (ERMP)

ADDRESS: MT. CLEMENS, MICHIGAN

CASING ELEVATION: 578.34

TOTAL DEPTH: 37 FT

SURFACE ELEVATION: 576.05

WATER LEVEL: 10 FT

DRILLING COMPANY: ETI

DRILLING METHOD: 4.25 HSA

BORING COMPLETED: 2-2-88

DRILLER: KEVIN MCCUMBER

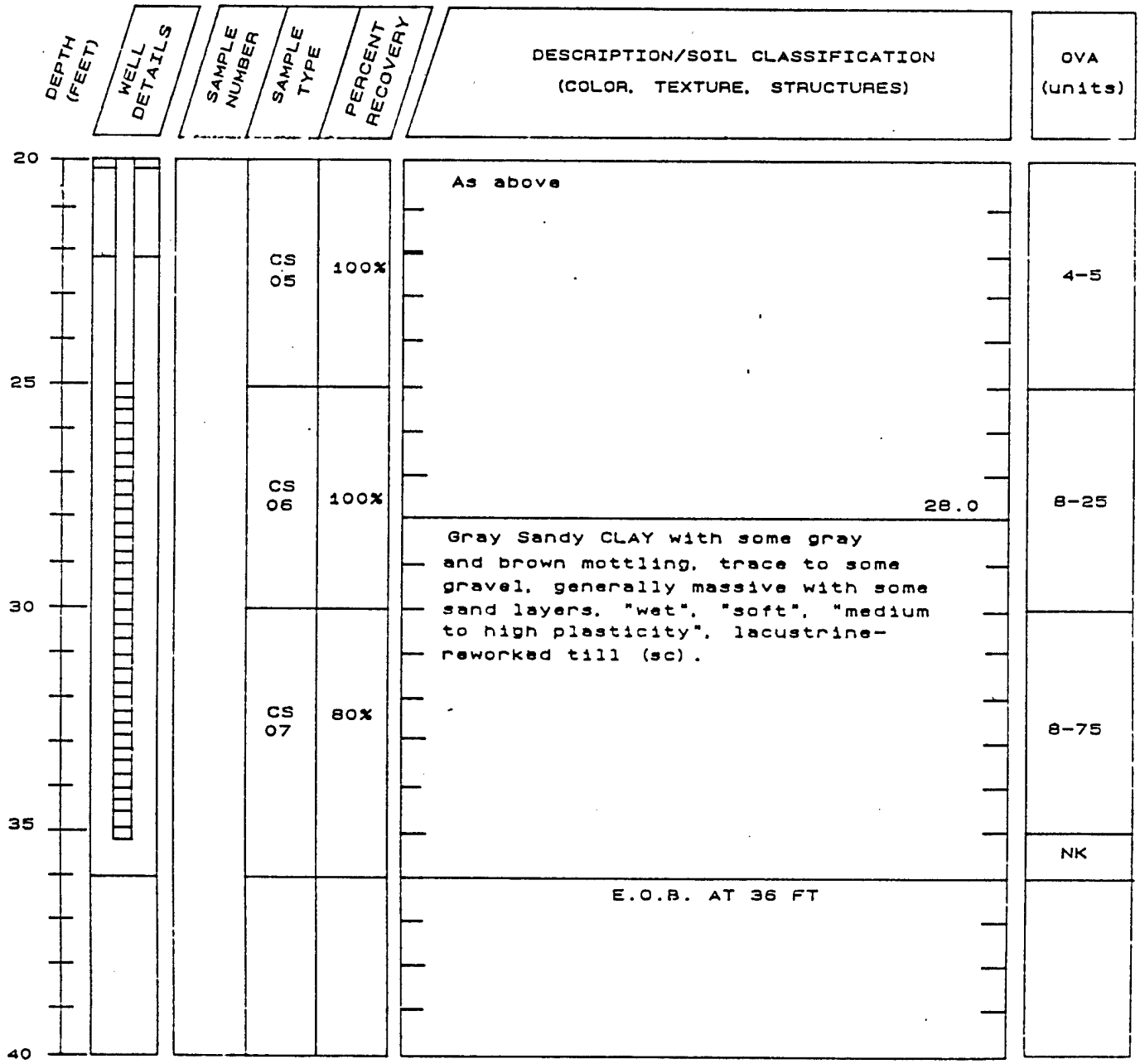
HELPER: JIM BOERST

WELL COMPLETED: 2-2-88

LOG BY: JDO/WLN

CHECKED BY: RLM

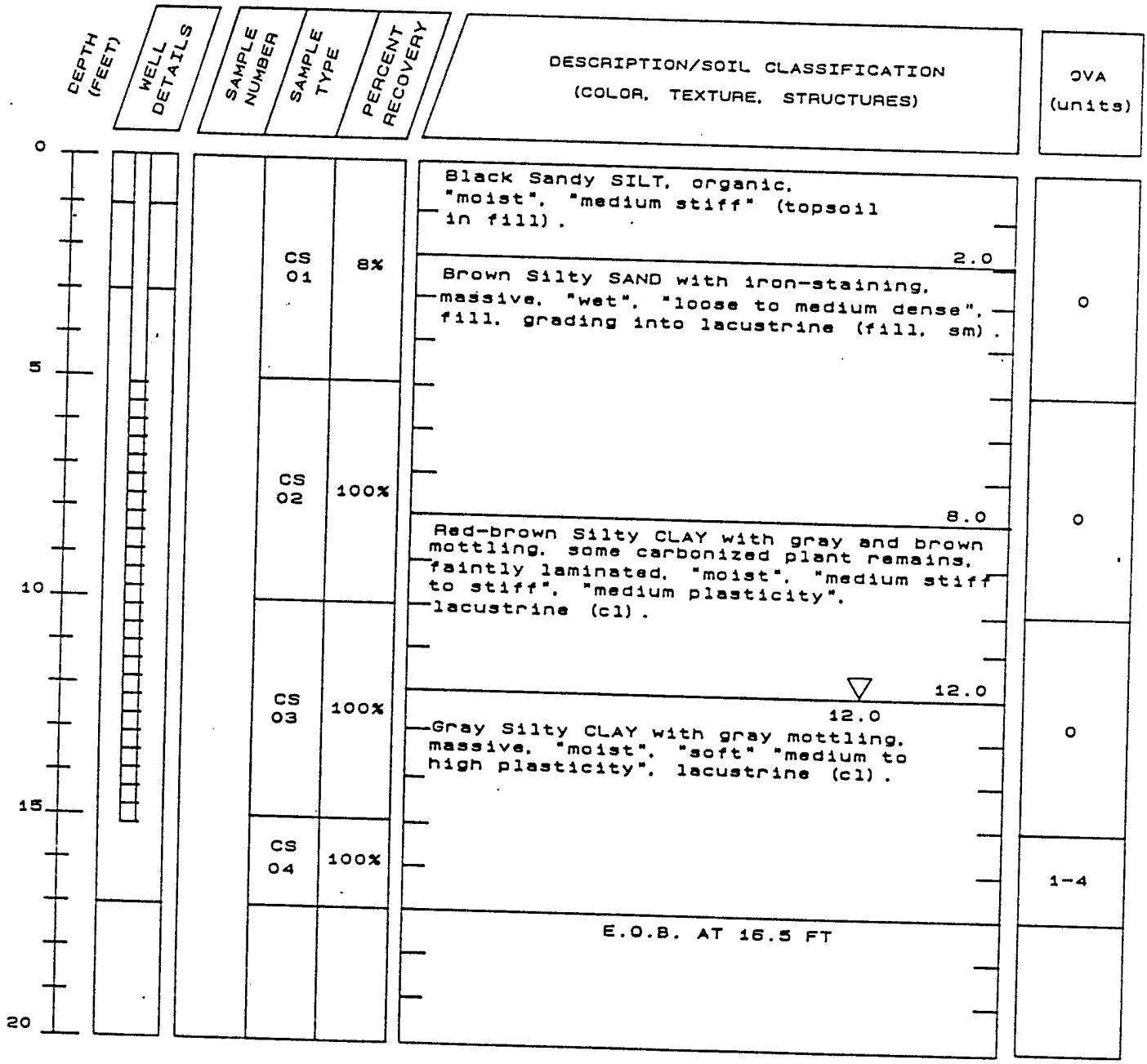
SHEET 2 OF 2



DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 07-142
OWNER: SELFRIDGE ANGB
LOCATION: EAST RAMP (ERMP)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: 579.15
TOTAL DEPTH: 16.5 FT
SURFACE ELEVATION: 576.99
WATER LEVEL: 12 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-26-88
DRILLER: KEVIN MCCUMBER
HELPER: JIM BOERST
WELL COMPLETED: 1-26-88
LOG BY: JDO/WLN
CHECKED BY: RLM
SHEET 1 OF 1



DRILLING & WELL CONSTRUCTION LOG — ROY F. WESTON, INC.

WELL NUMBER: 07-243 — OWNER: SELFRIDGE ANGB

LOCATION: EAST RAMP (ERMP) — ADDRESS: MT. CLEMENS, MICHIGAN

CASING ELEVATION: 579.31 — TOTAL DEPTH: 39 FT

SURFACE ELEVATION: 576.99 — WATER LEVEL: 12 FT

DRILLING COMPANY: ETI — DRILLING METHOD: 4.25 HSA — BORING COMPLETED: 1-26-88

DRILLER: KEVIN MCCUMBER — HELPER: JIM BOERST — WELL COMPLETED: 1-26-88

LOG BY: JDO/WLN — CHECKED BY: RLM — SHEET 1 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0		CS 01		8%	Black Sandy SILT, organic, "moist", "medium stiff" (topsoil in fill).	2-4
					2.0 Brown Silty SAND with brown iron-staining, massive, "wet", "loose to medium dense", fill, grading to lacustrine (fill, sm).	
5		06 02		100%	8.0	2-3
					Red-brown Silty CLAY with gray and brown mottling, some carbonized plant remains, faintly laminated, "moist", "medium stiff to stiff", lacustrine (cl).	
10		CS 03		100%	▽ 12.0 12.0 Gray Silty CLAY with gray mottling, massive, "wet", "soft to very soft", "medium to high plasticity", lacustrine (cl).	2-6
15		CS 04		100%		0
20					(cont.)	

DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 07-243 OWNER: SELFRIDGE ANGB

LOCATION: EAST RAMP (ERMP) ADDRESS: MT. CLEMENS, MICHIGAN

CASING ELEVATION: 579.31 TOTAL DEPTH: 39 FT.

SURFACE ELEVATION: 576.99 WATER LEVEL: 12 FT.

DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-26-88

DRILLER: KEVIN McCUMBER HELPER: JIM BOERST WELL COMPLETED: 1-26-88

LOG BY: JDO/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20		CS 05		100%	As above	2-4
25		CS 06		100%		2-3
30		CS 07		100%		2-6
35		CS 08		100%	37.0 Gray SANDY CLAY, becoming sandier at base, massive, "wet", "soft", "medium to high plasticity", lacustrine - reworked till (SC)	0
40					EOB at 39 FT	

DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 08-126
OWNER: SELFRIDGE ANGB
LOCATION: BASE COAL STORAGE PILE (BCSP)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: 579.23
TOTAL DEPTH: 25 FT
SURFACE ELEVATION: 577.00
WATER LEVEL: 13 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-11-88
DRILLER: KEVIN MCCUMBER
HELPER: GREG SCALLON
WELL COMPLETED: 1-11-88
LOG BY: JDO/WLN
CHECKED BY: RLM
SHEET 1 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0		CS 01		0%	Black Clayey SILT, organic, (topsoil in fill). 1.0 No recovery	0
5		CS 02		96%	5.0 Brown and gray Sandy SILT with brown iron-stein mottling, some clay, laminated with light and dark material, "moist", "medium stiff", "low plasticity, lacustrine (sm).	0
10		CS 03		100%	▽ 13.0 Gray Silty CLAY, massive, 13.0 "wet", "soft to very soft", "medium to high plasticity", lacustrine (cl).	1
15		CS 04		82%		4-10
20					(cont.)	

DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 08-126
OWNER: SELFRIDGE ANGB
LOCATION: BASE COAL STORAGE PILE (BCSP)
ADDRESS: MT, CLEMENS, MICHIGAN
CASING ELEVATION: 579.23
TOTAL DEPTH: 25 FT
SURFACE ELEVATION: 577.00
WATER LEVEL: 13 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-11-88
DRILLER: KEVIN MCCUMBER
HELPER: GREG SCALLON
WELL COMPLETED: 1-11-88
LOG BY: JDO/WLN
CHECKED BY: RLM
SHEET 2 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20		CS 05		100%	As above	1-5
25					E.O.B. AT 25 FT	

DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

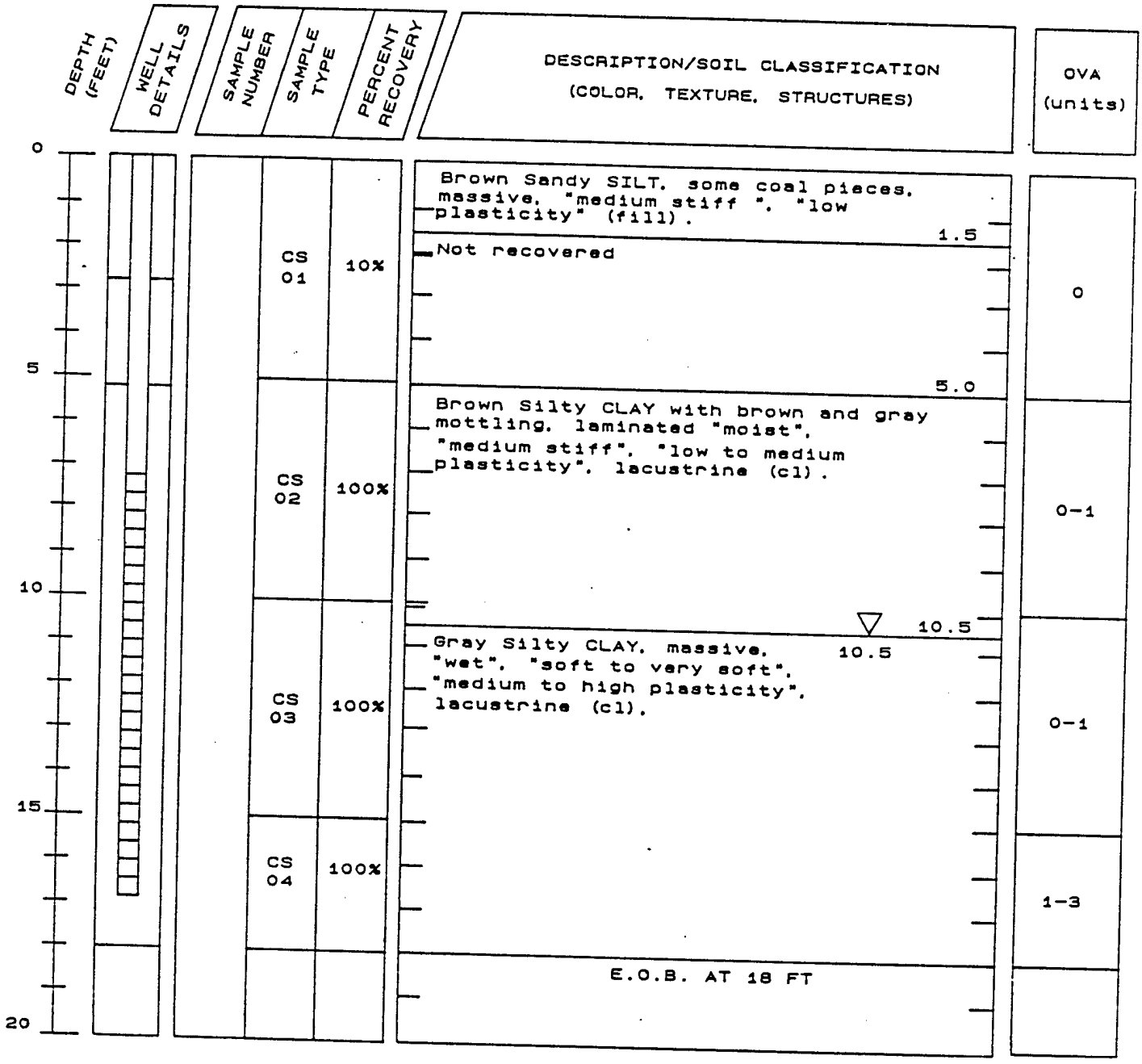
WELL NUMBER: 08-127
OWNER: SELFRIDGE ANGB
LOCATION: BASE COAL STORAGE PILE (BCSP)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: 580.51
TOTAL DEPTH: 20 FT
SURFACE ELEVATION: 578.11
WATER LEVEL: 12 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-11-88
DRILLER: DAVE CRUISE
HELPER: JIM BOERST
WELL COMPLETED: 1-11-88
LOG BY: WLN/WLN
CHECKED BY: RLM
SHEET 1 OF 1

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0					Black Clayey SILT, organic, some gravel (topsoil in fill). 1.0	
		CS 01		40%	Dark brown Sandy SILT, some gravel, massive, "moist", "medium stiff to stiff", "low plasticity", fill (sm). 3.0	0
5					Light brown Sandy SILT with brown iron-stain mottling, massive, "medium stiff to stiff", "low plasticity", fill or lacustrine (sm). 6.0	
		CS 02		100%	Light brown Silty CLAY with gray mottling, laminated, "moist", "medium stiff", "low plasticity", lacustrine (cl). ▽ 12.0	0
10		CS 03		100%	Gray Silty CLAY, massive, "wet", "soft", "medium plasticity", lacustrine (cl). 12.0	0-1
15		CS 04		100%		0-1
20					E.O.B. AT 20 FT	

DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 08-128
OWNER: SELFRIDGE ANGB
LOCATION: BASE COAL STORAGE PILE (BCSP)
ADDRESS: MT. CLEMENS, MICHIGAN
CASING ELEVATION: 580.29
TOTAL DEPTH: 18 FT
SURFACE ELEVATION: 577.95
WATER LEVEL: 10.5 FT
DRILLING COMPANY: ETI
DRILLING METHOD: 4.25 HSA
BORING COMPLETED: 1-11-88
DRILLER: DAVE CRUISE
HELPER: JIM BOEAST
WELL COMPLETED: 1-11-88
LOG BY: WLN/WLN
CHECKED BY: RLM
SHEET 1 OF 1



DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 08-129 OWNER: SELFRIDGE ANGB

LOCATION: BASE COAL STORAGE PILE (BCSP) ADDRESS: MT. CLEMENS, MICHIGAN

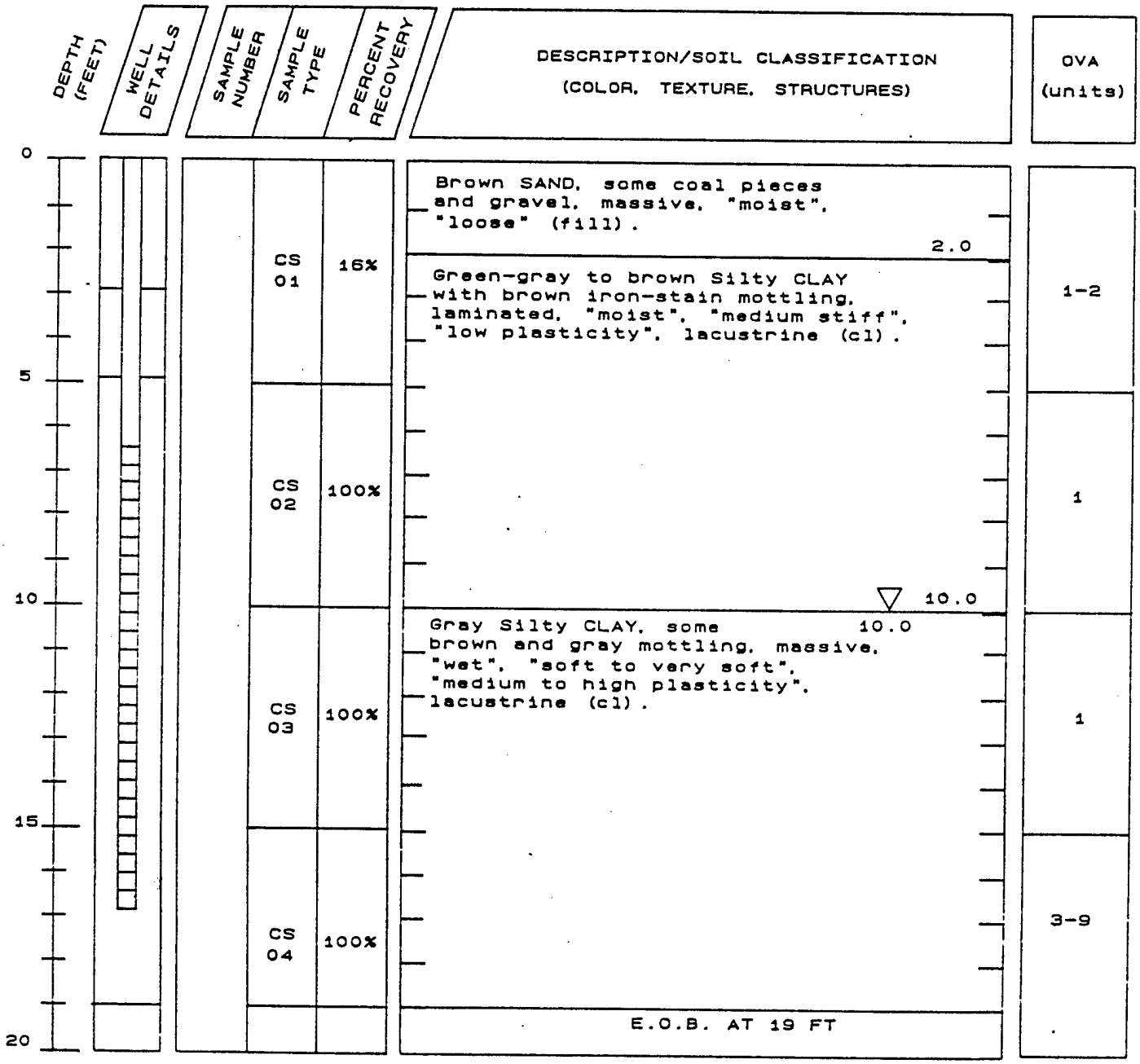
CASING ELEVATION: 580.30 TOTAL DEPTH: 19 FT

SURFACE ELEVATION: 576.96 WATER LEVEL: 10 FT

DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-24-88

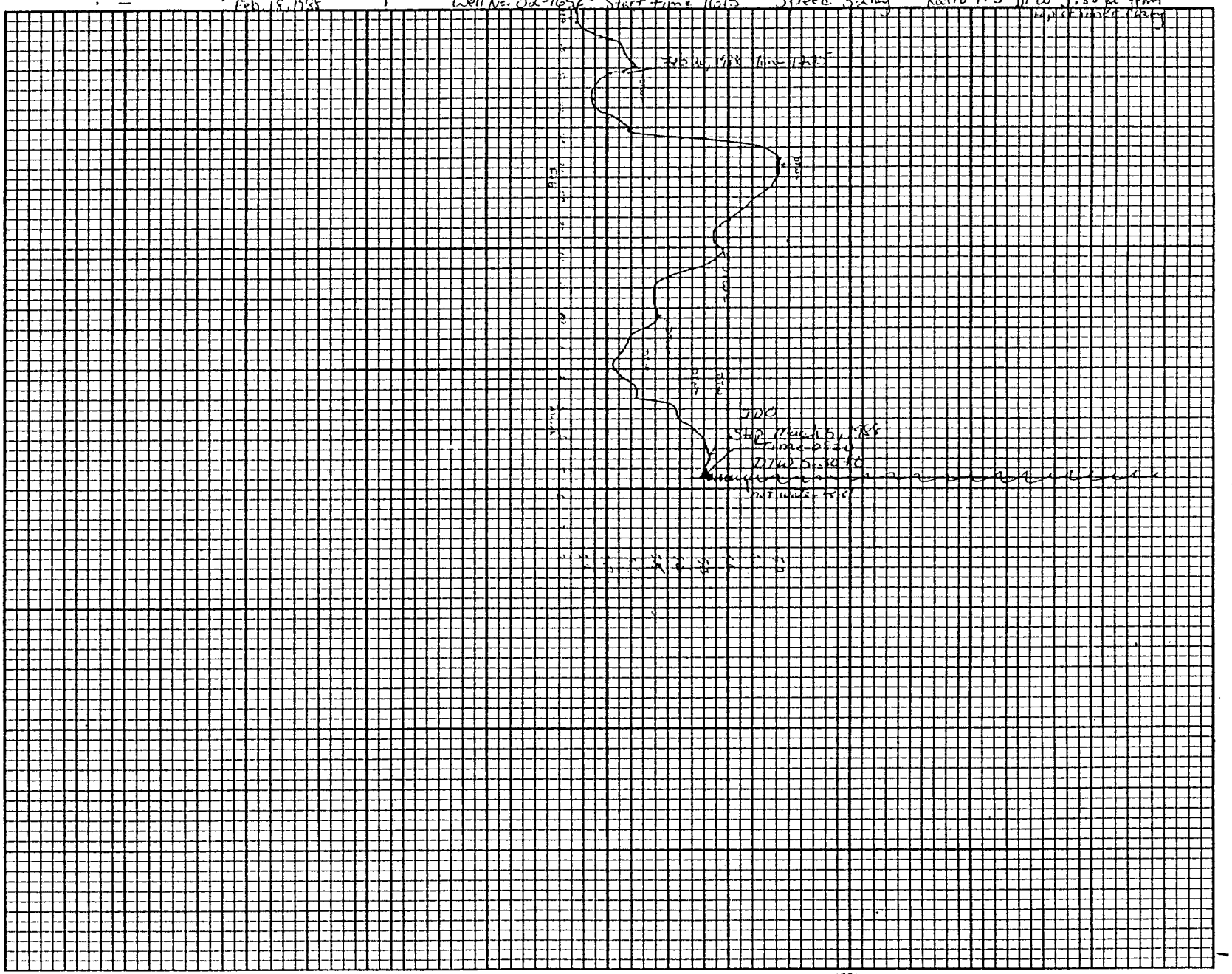
DRILLER: KEVIN MCCUMBER HELPER: JIM BOERST WELL COMPLETED: 1-24-88

LOG BY: JDO/WLN CHECKED BY: RLM SHEET 1 OF 1



APPENDIX H

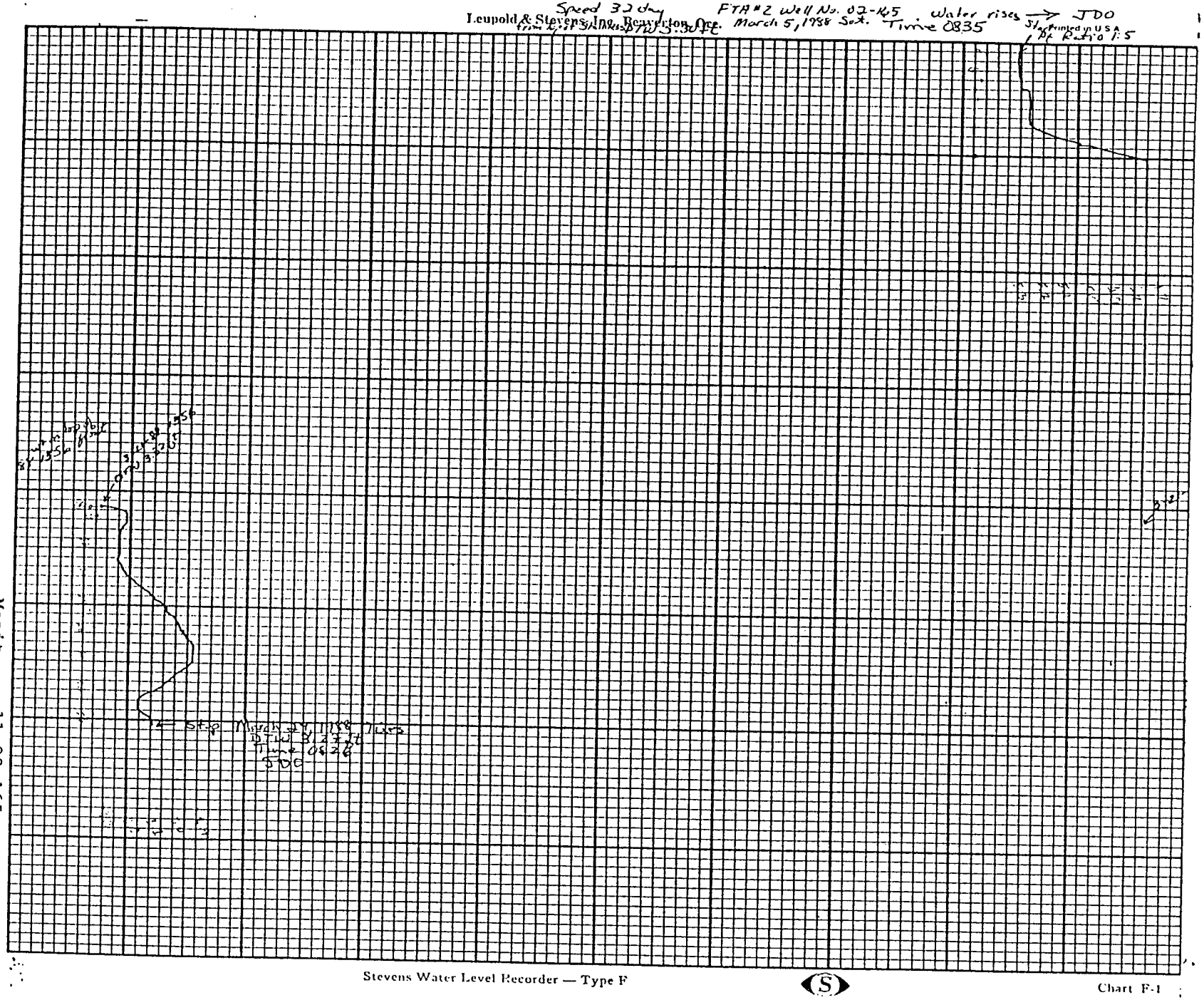
CONTINUOUS WATER LEVEL RECORDER DATA

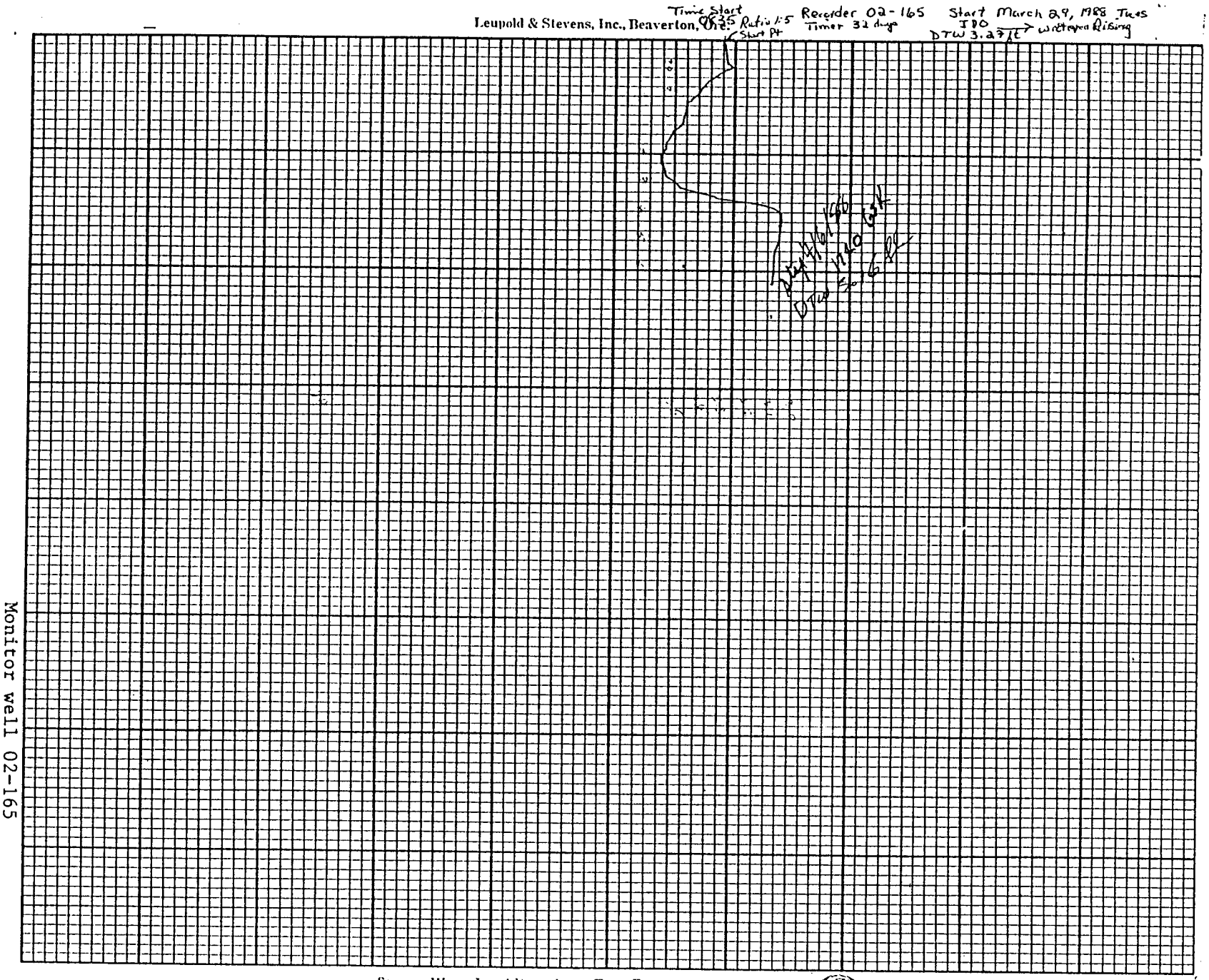


Stevens Water Level Recorder — Type F

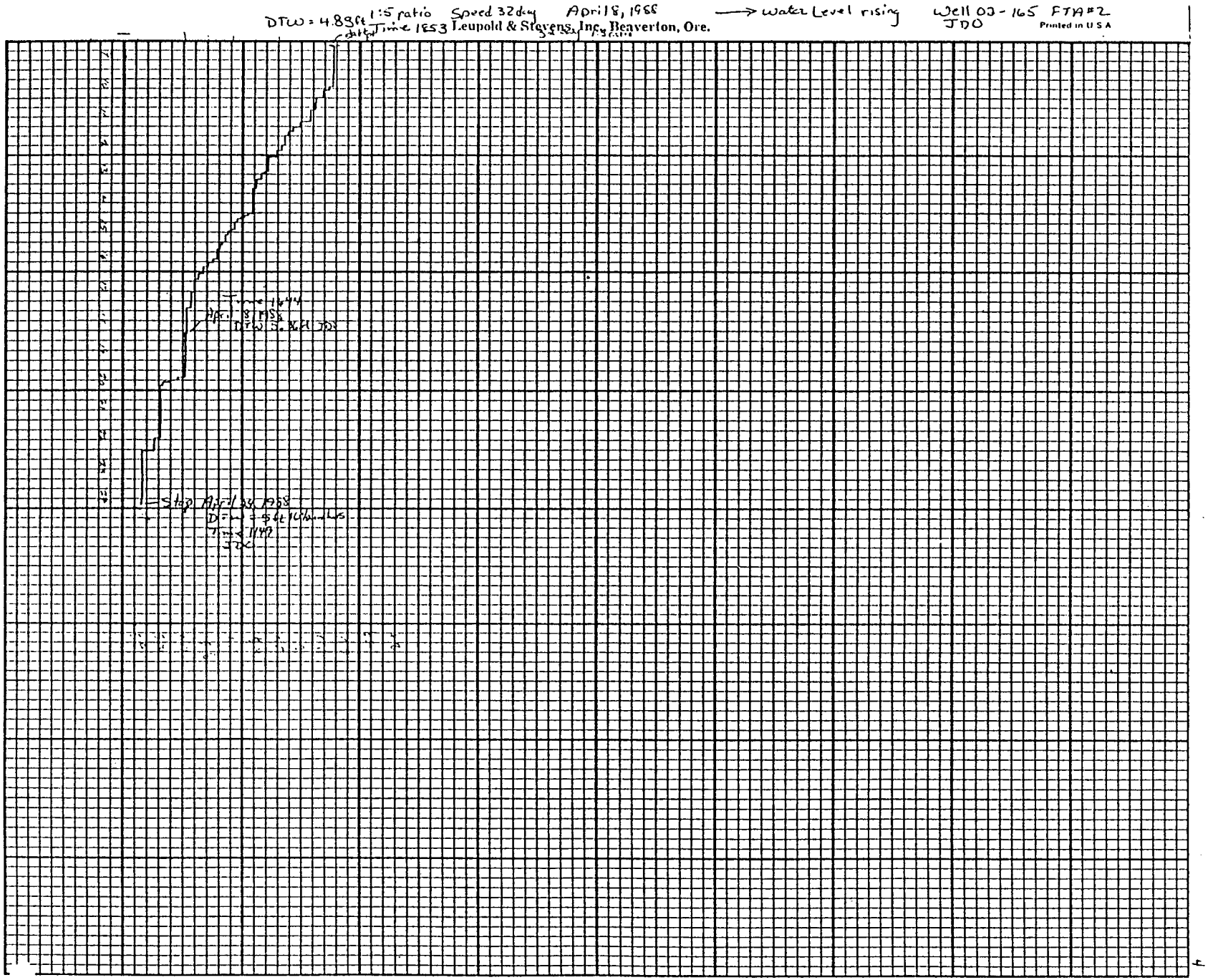
Chart F-1

H-1


Speed 30 day FTA#2 Well No. 02-165 Water rises → JDO
Leupold & Stevens, Inc. Beaverton, Ore. March 5, 1988 Sat. Time 0835
Printed in U.S.A.
Monitor well 02-165
Stevens Water Level Recorder — Type F
Chart F-1



Monitor well 02-165

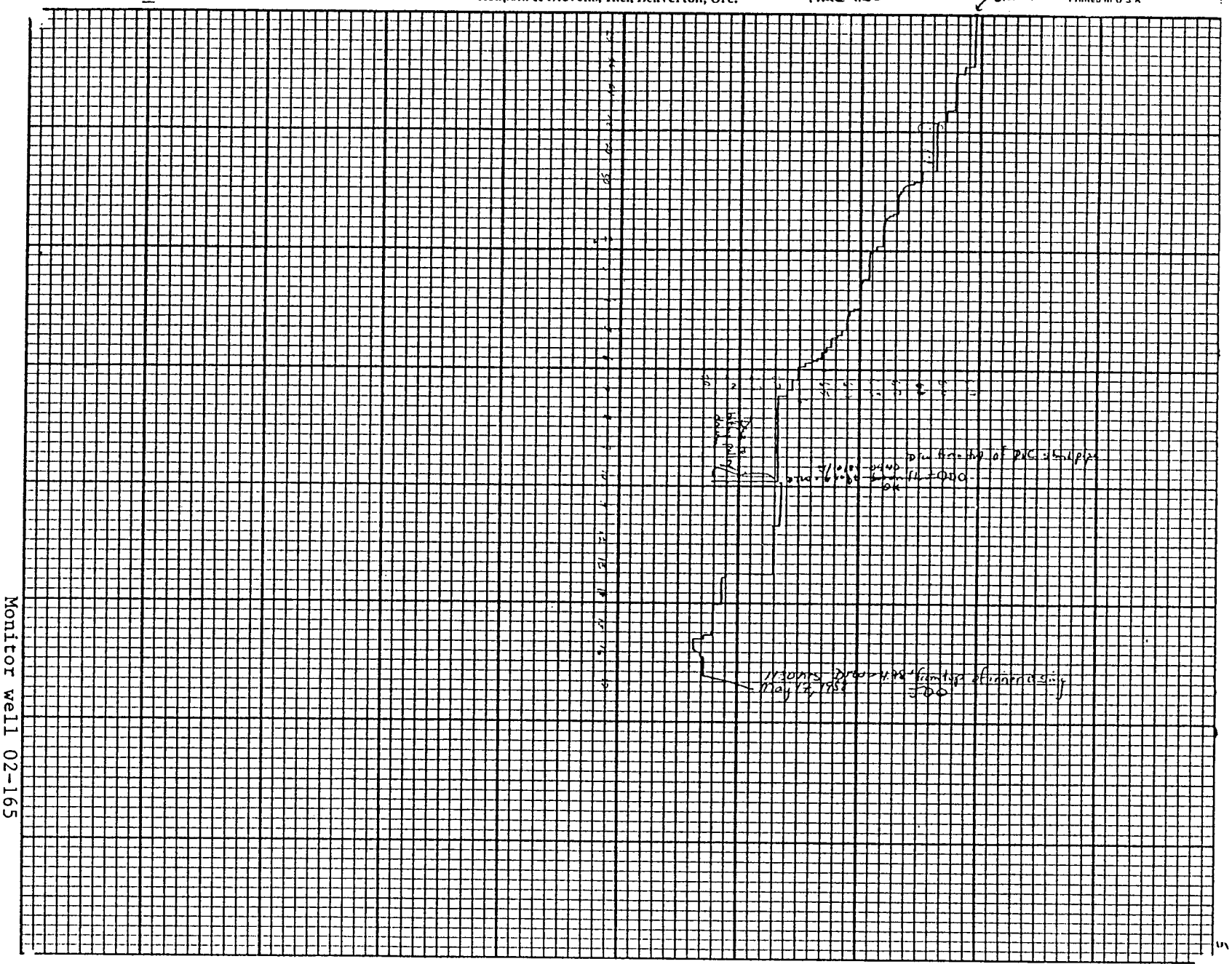

DTW = 4.83ft 1:5 ratio Speed 32day April 18, 1988 → water Level rising Well 02-165 FTA#2
Time 1853 Leupold & Stevens, Inc. Beaverton, Ore. JDO
Printed in U.S.A.
Time 1644
Stop April 28, 1988
Time 1117
Monitor well 02-165
Stevens Water Level Recorder — Type F
Chart F-1

Well No. 02-165 FTH-7 April 24, 1968 Drw 5ft 10 hrs/rev JDS → water rising 32 day speed
Time 1158

Leupold & Stevens, Inc., Beaverton, Ore.

Start Pt

Printed in U.S.A.



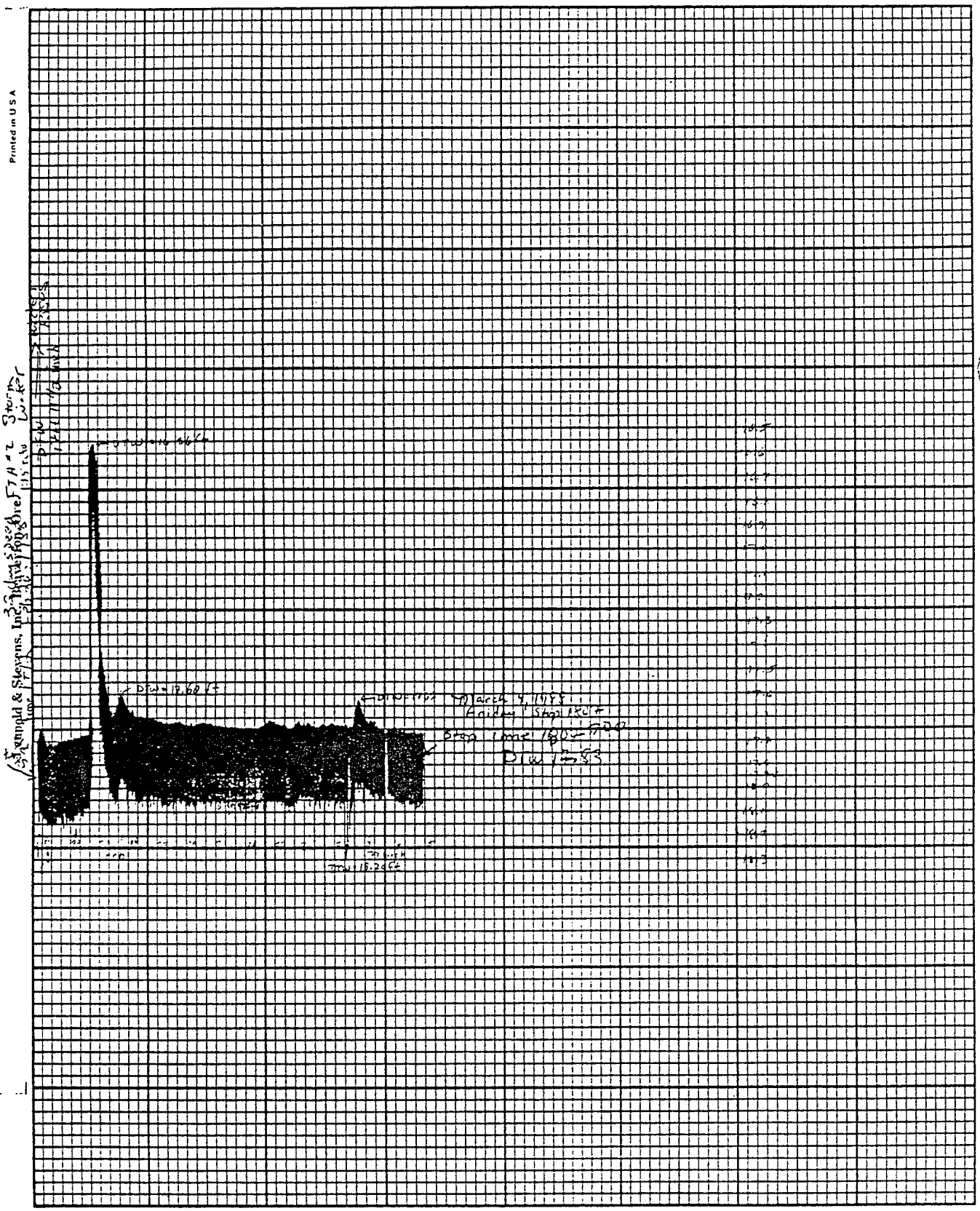
Monitor well 02-165

H-5

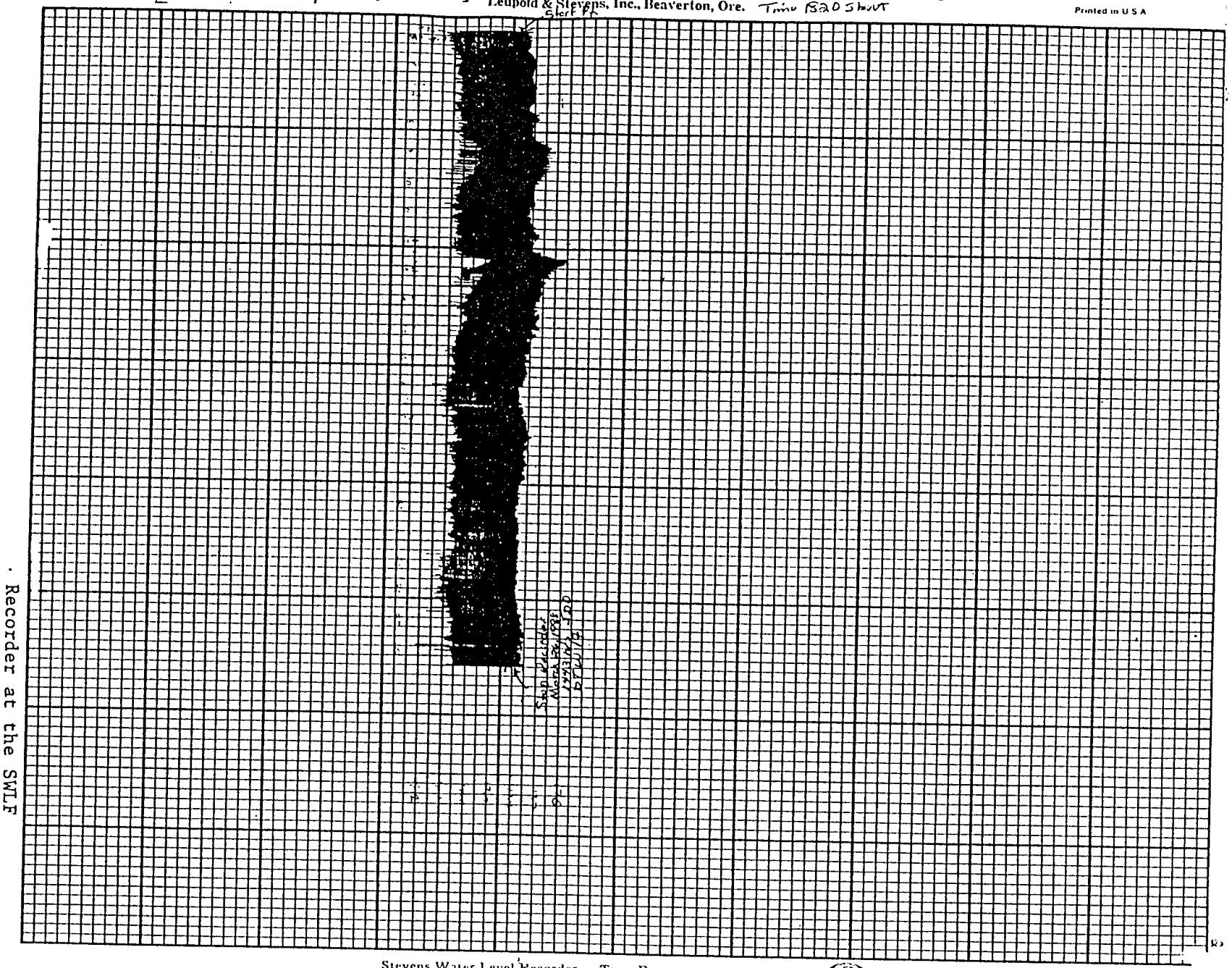
Stevens Water Level Recorder — Type F

(S)

Chart F-1



Recorder at the SWLF



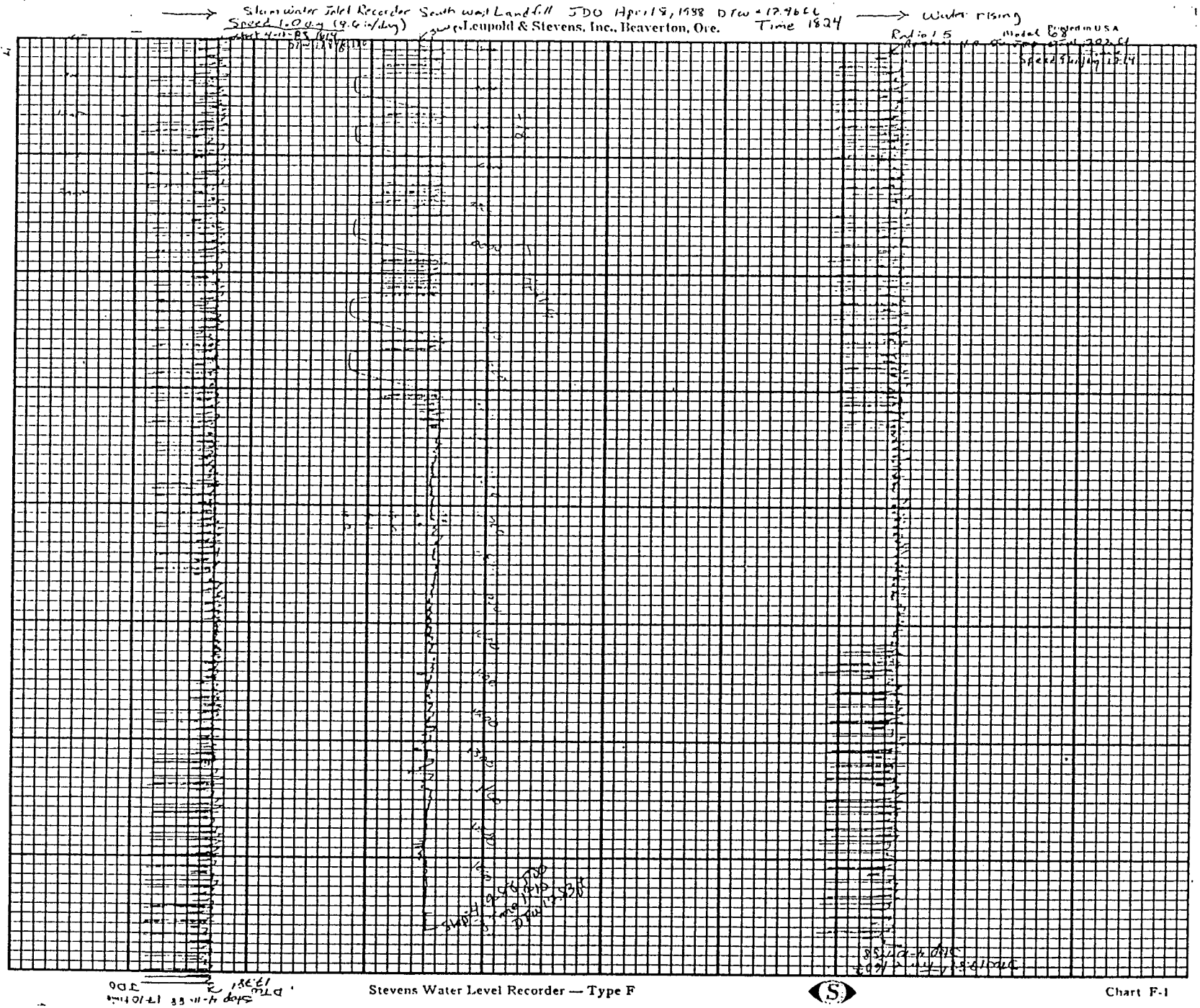
H-7

Recorder at the SWLF

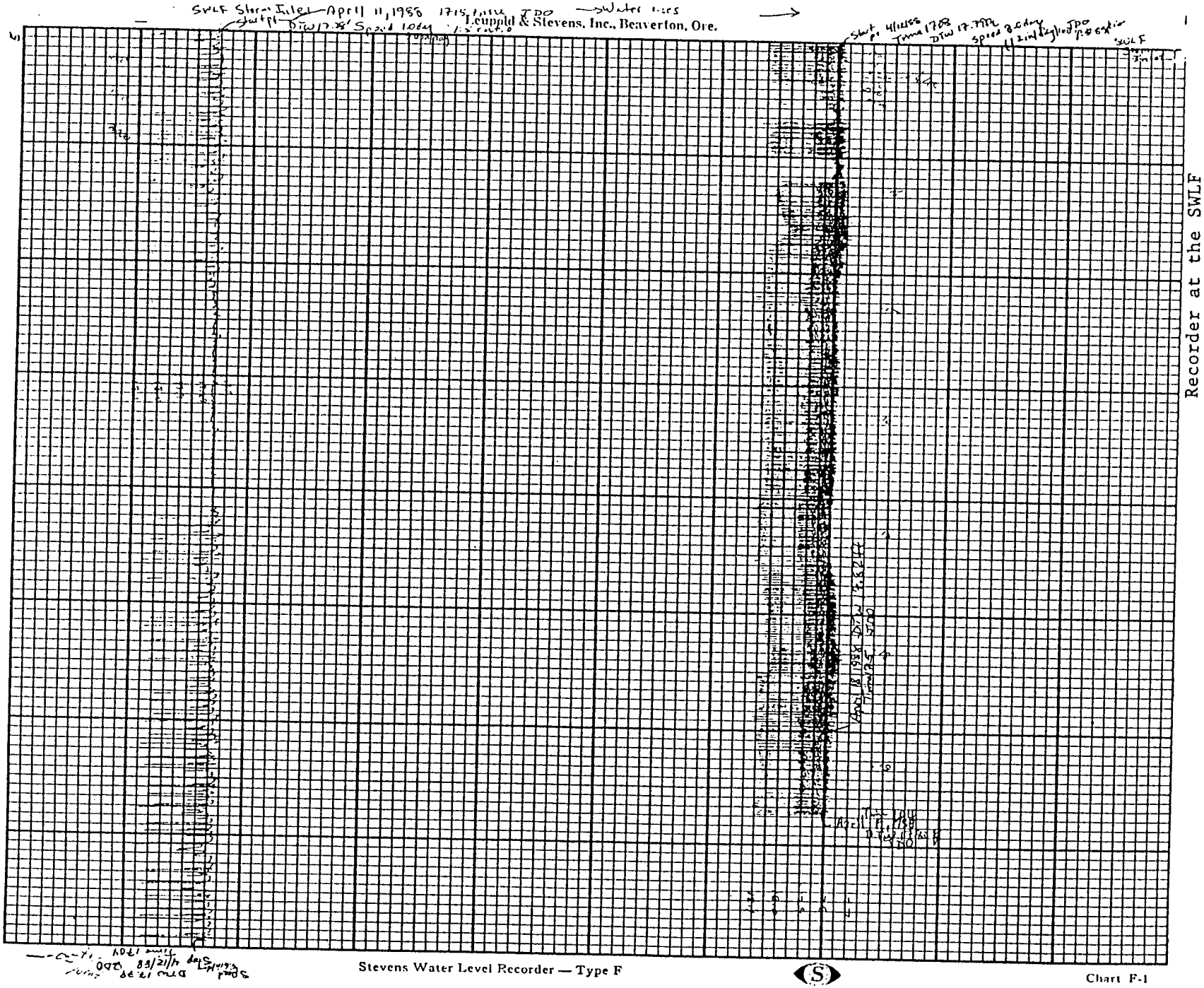
Stevens Water Level Recorder — Type F

Chart F-1

Recorder at the SWLF

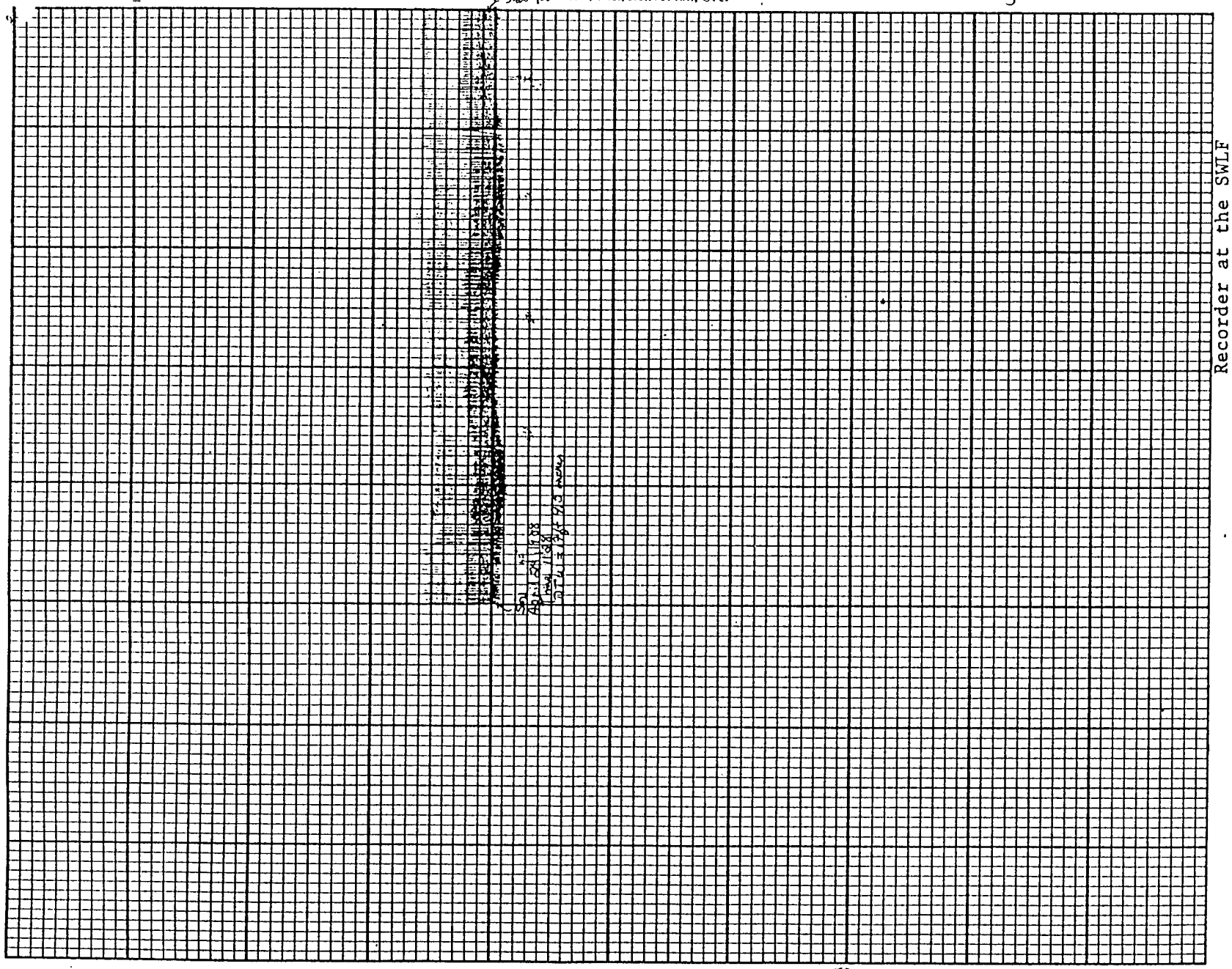


Recorder at the SWLF



Recorder at the SWLF

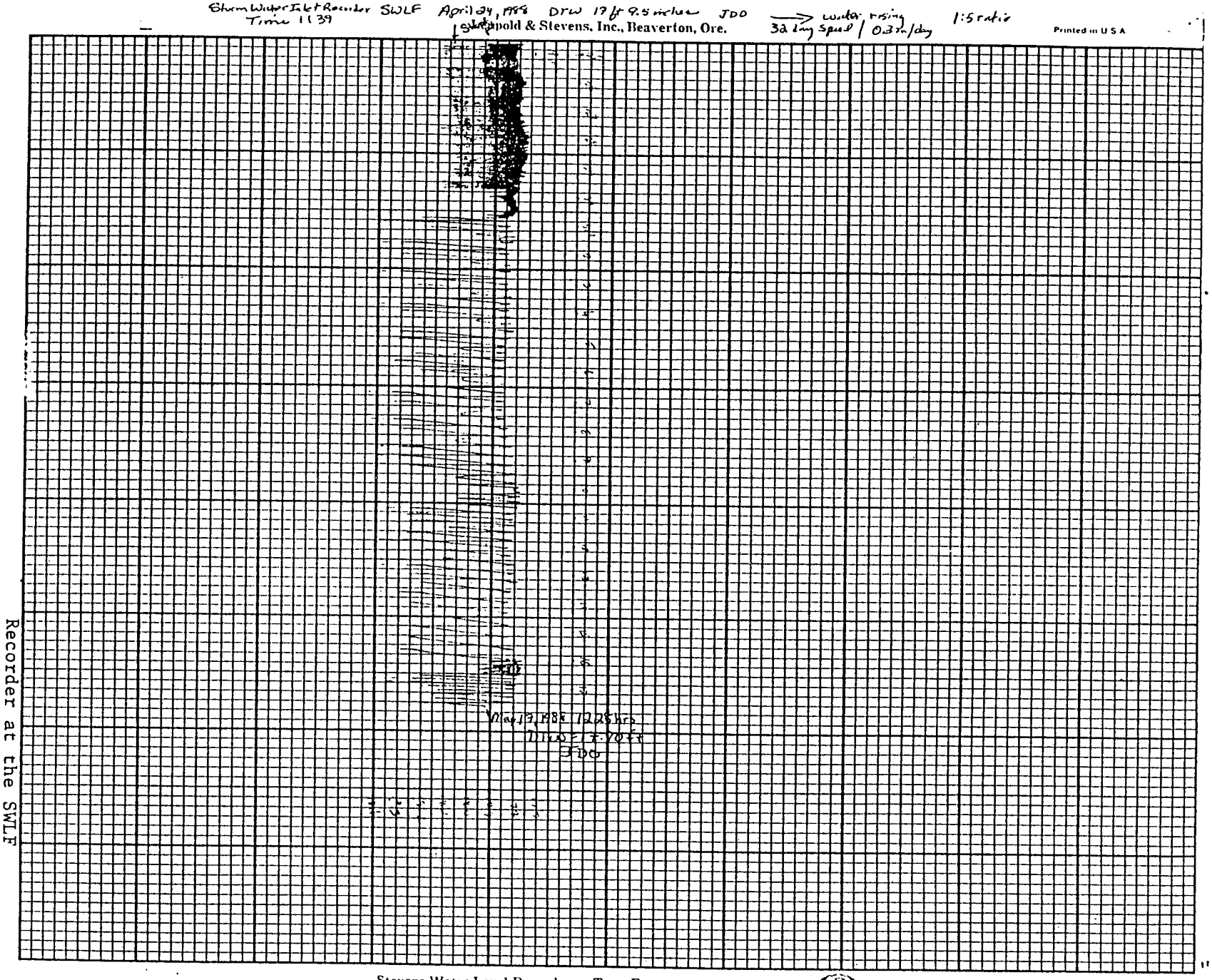
Storm Water Inlet Recorder April 8, 1988 Time Speed 8 day (1.2 in/day) Time 1020 EDO → Water rising
FTH-21SWLF 1518 EDO DTW= 17.8 ft
Printed in U.S.A.



Stevens Water Level Recorder — Type F

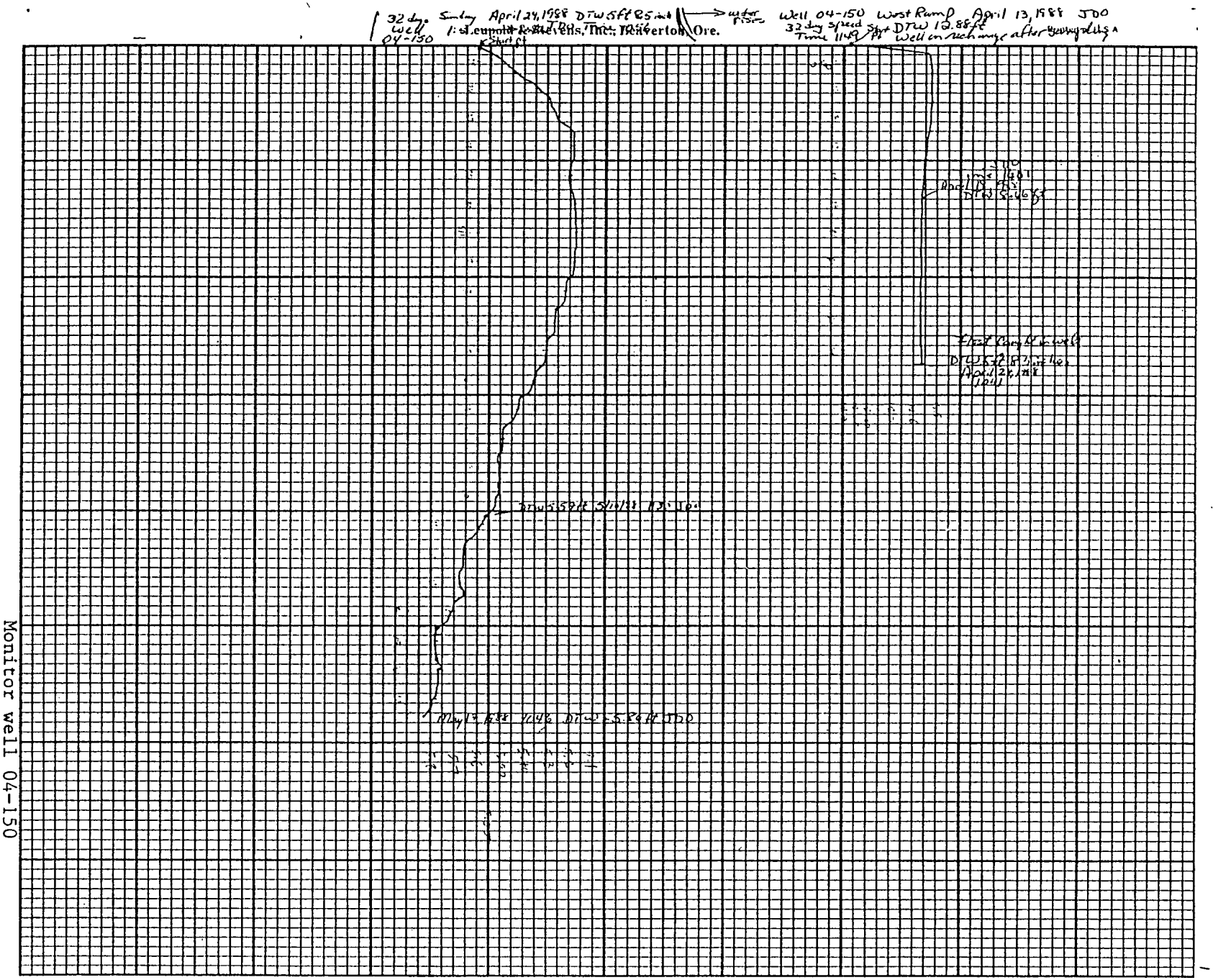
Chart F-1

Storm Water Inlet Recorder SWLF April 24, 1988 DTW 17 ft 9.5 inches JDO
Time 1139



→ water rising
3d day speed / 0.3 in/day
1:5 ratio

May 19, 1988 1225 hrs
Time = 17.70 ft
JDO

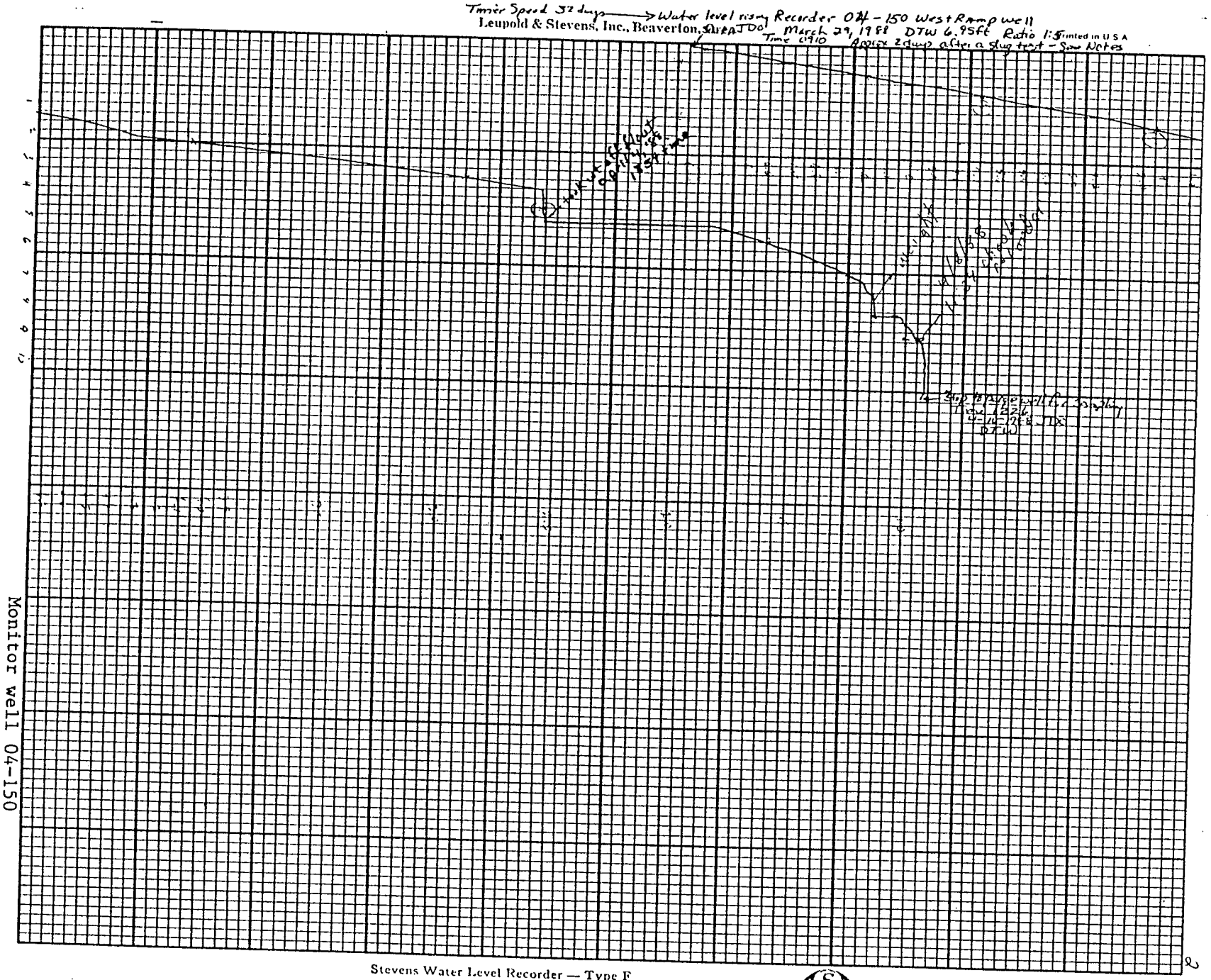


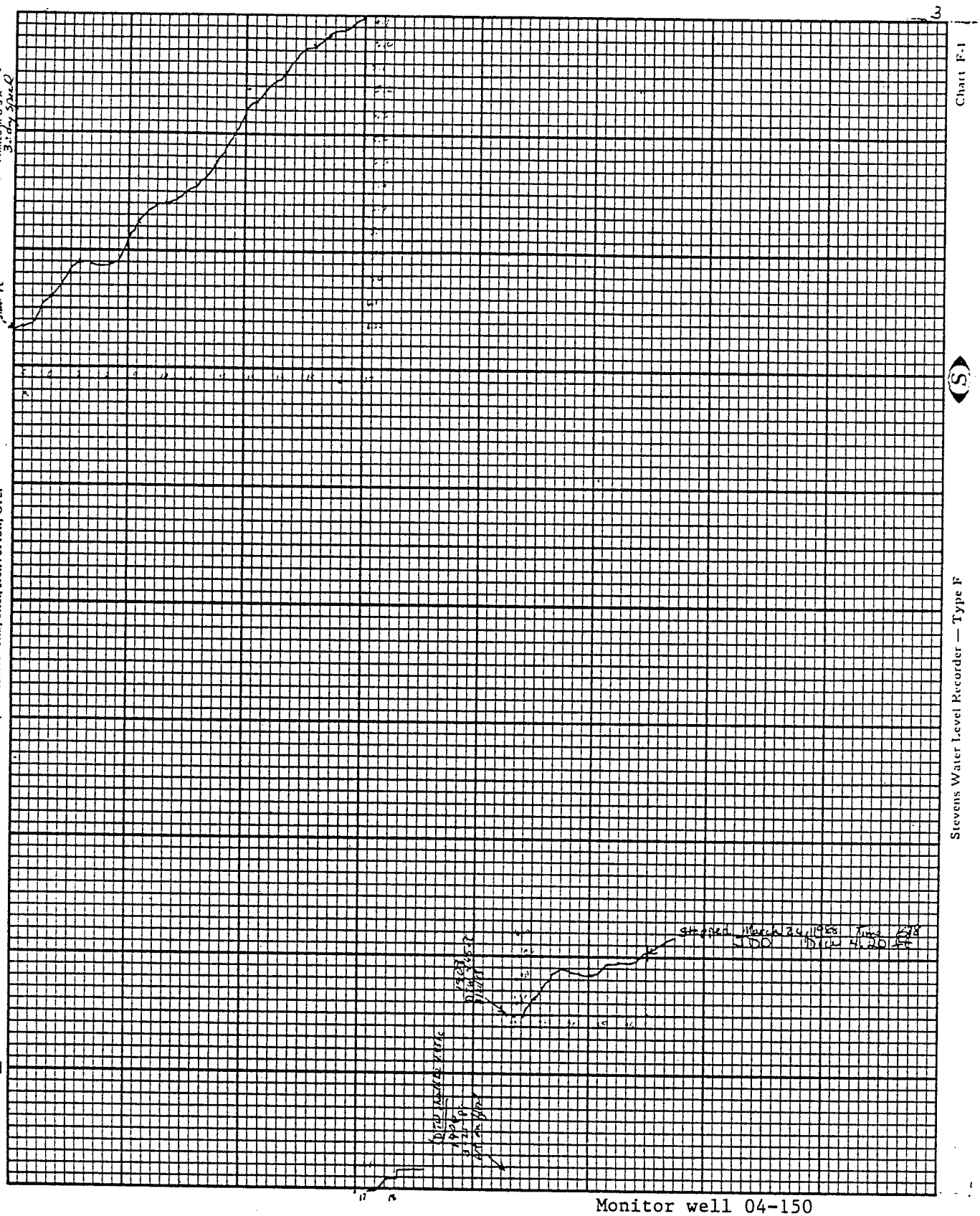
Monitor well 04-150

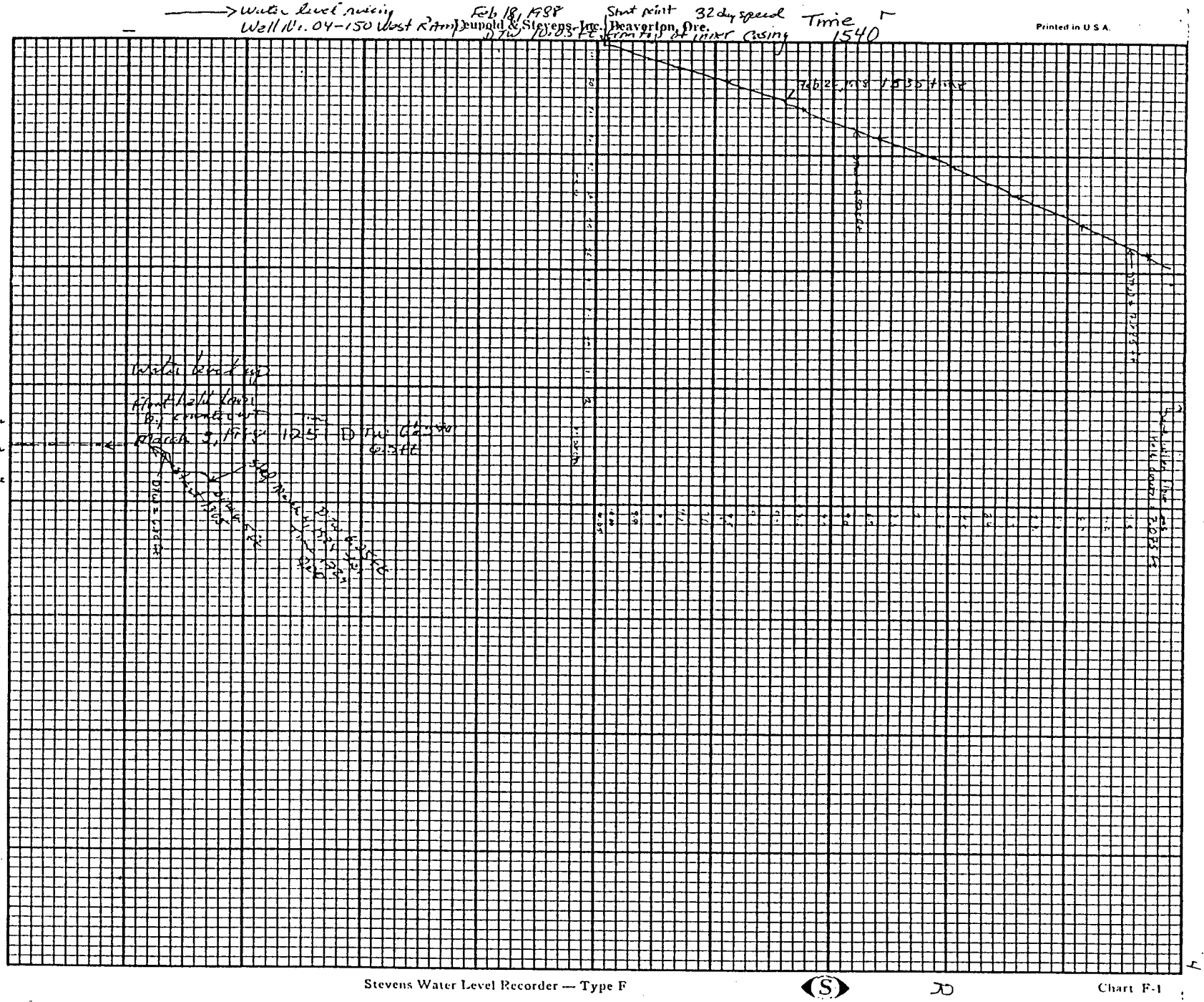
H-13

Stevens Water Level Recorder — Type F

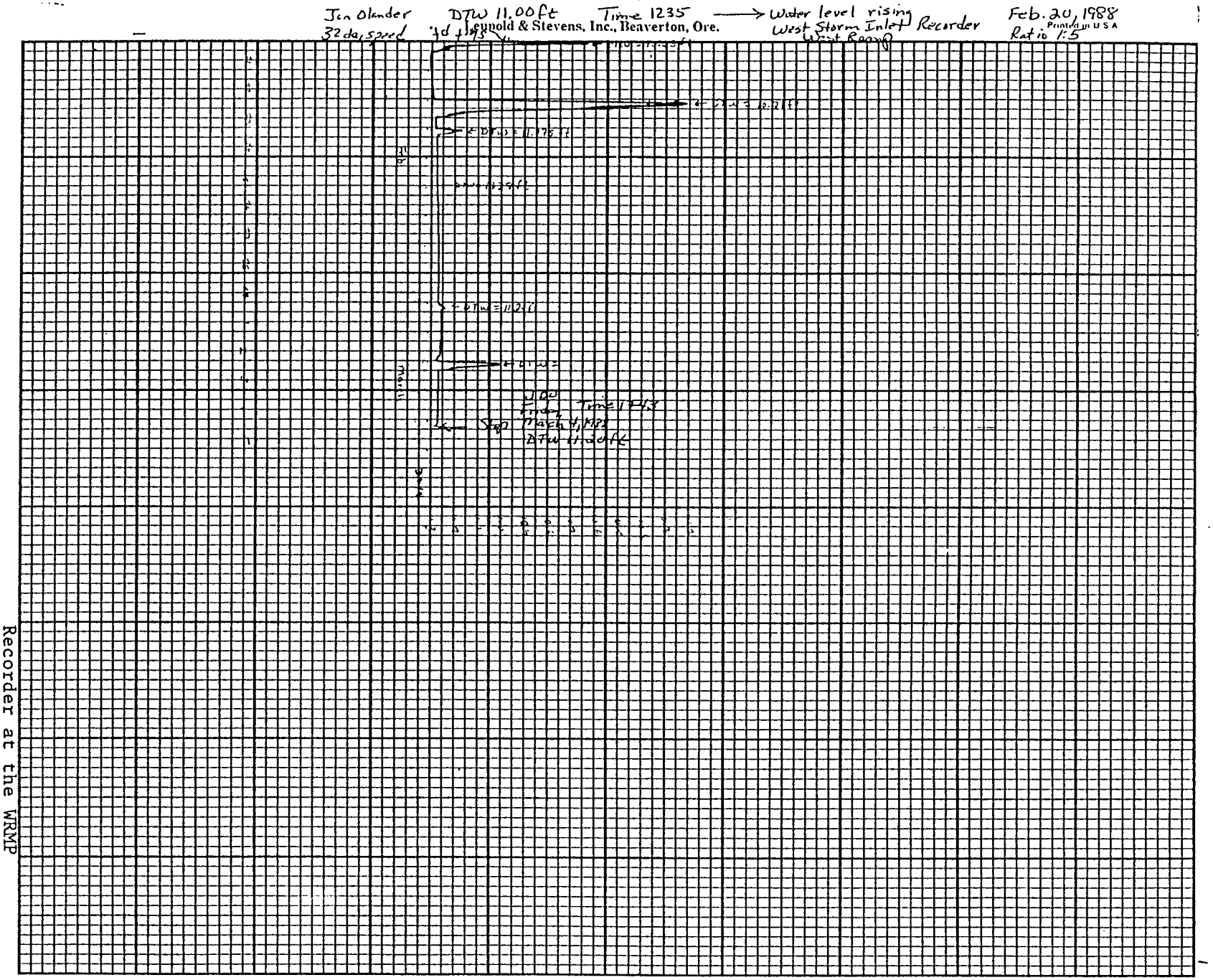
Chart F-1


Timer Speed 32 days → Water level rising Recorder 04-150 West Ramp well
Leupold & Stevens, Inc., Beaverton, OREGON
March 29, 1988 DTW 6.95ft Ratio 1:5
Time 1910 Approx 2 days after a slug test - See Notes
Printed in U.S.A.
Monitor well 04-150
Stevens Water Level Recorder — Type F
Chart F-1

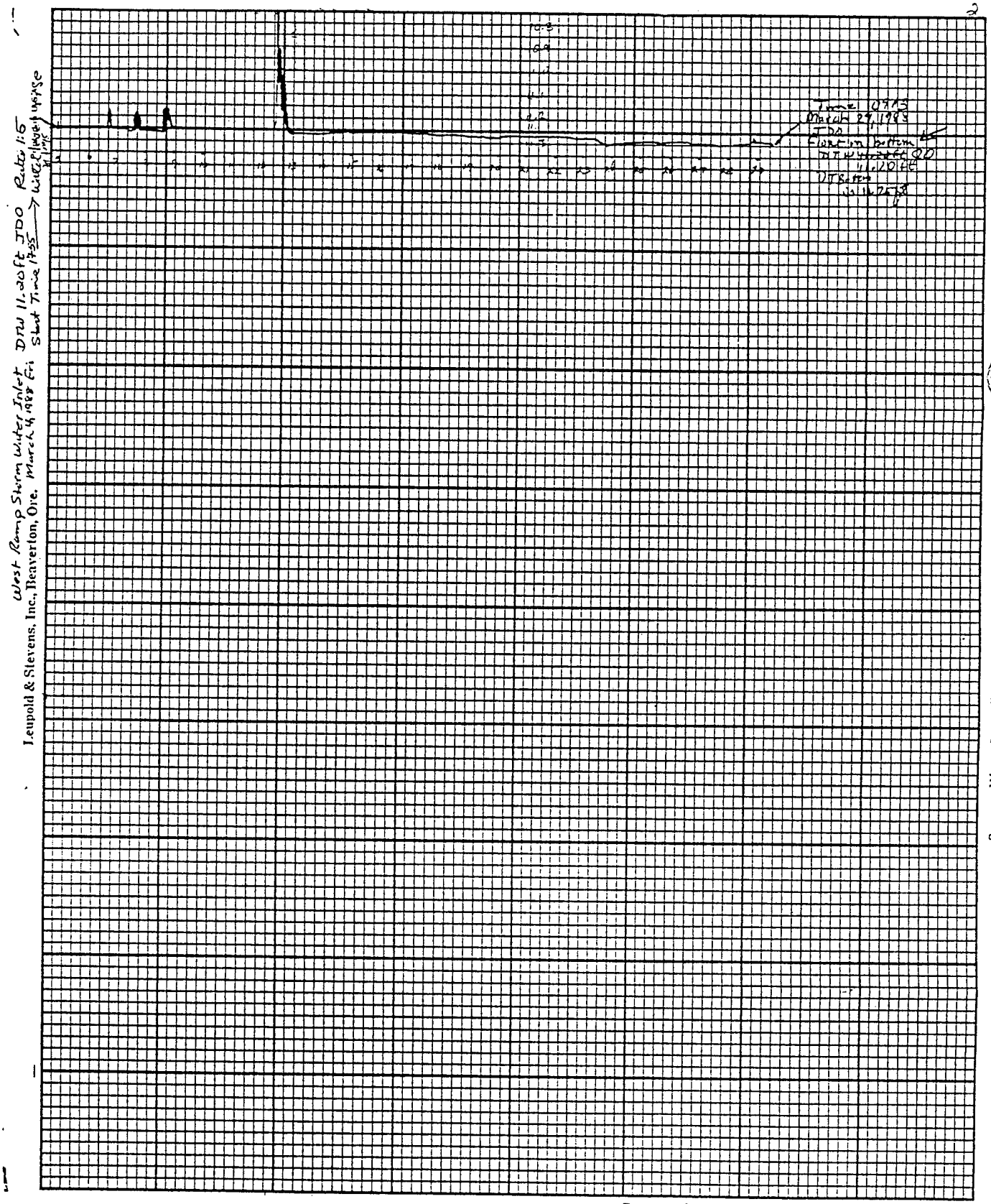

Leupold & Stevens, Inc., Beaverton, Ore.
Well Ramp Well 04-150 March 4, 1969 Friday Drw 4.35ft Rate
Start 4 Stop Time 17.35 Printed in U.S.A. 1:5
3-day Spool
Chart F-1
Stevens Water Level Recorder — Type F
Monitor well 04-150



Monitor well 04-150

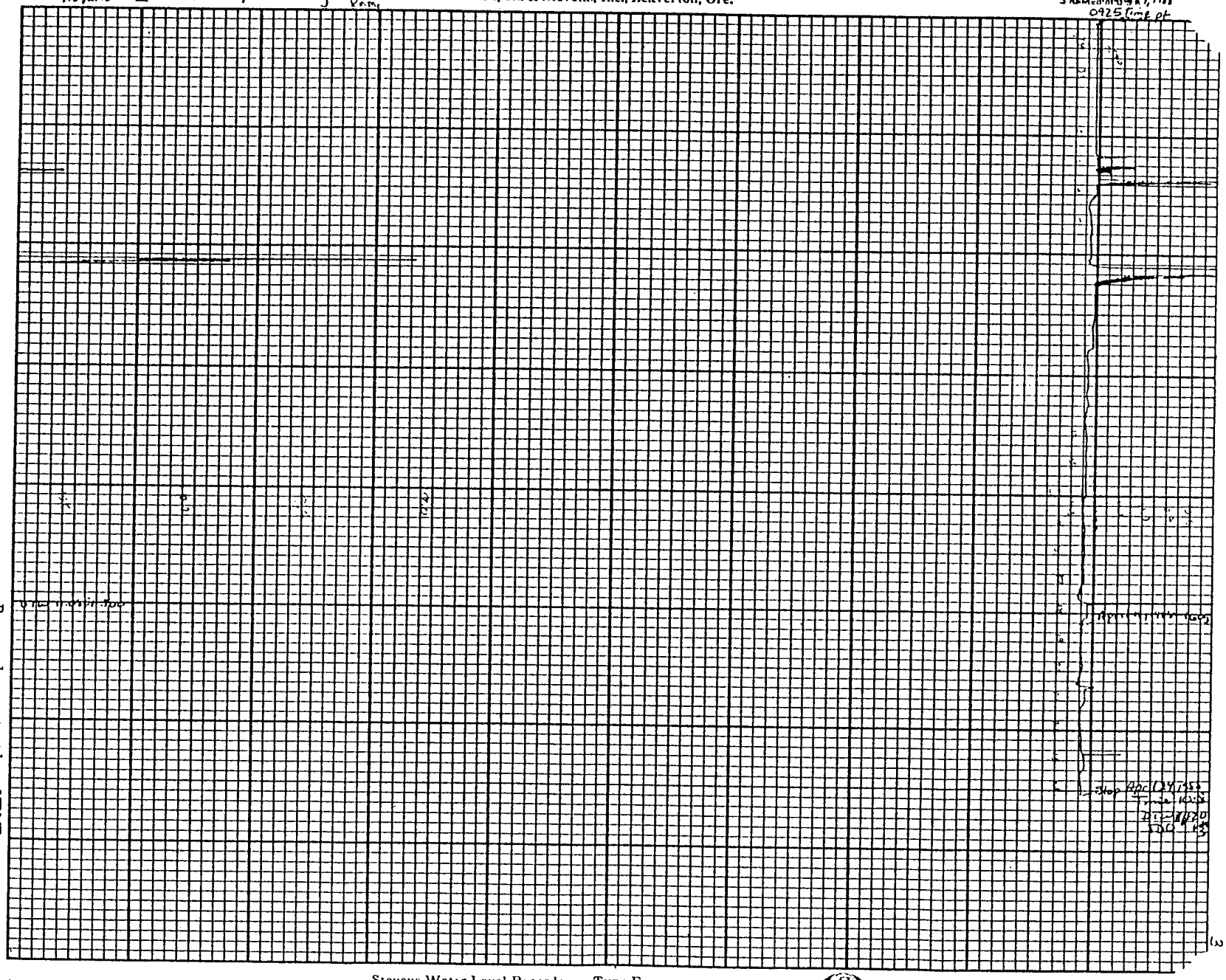


Recorder at the WRMP



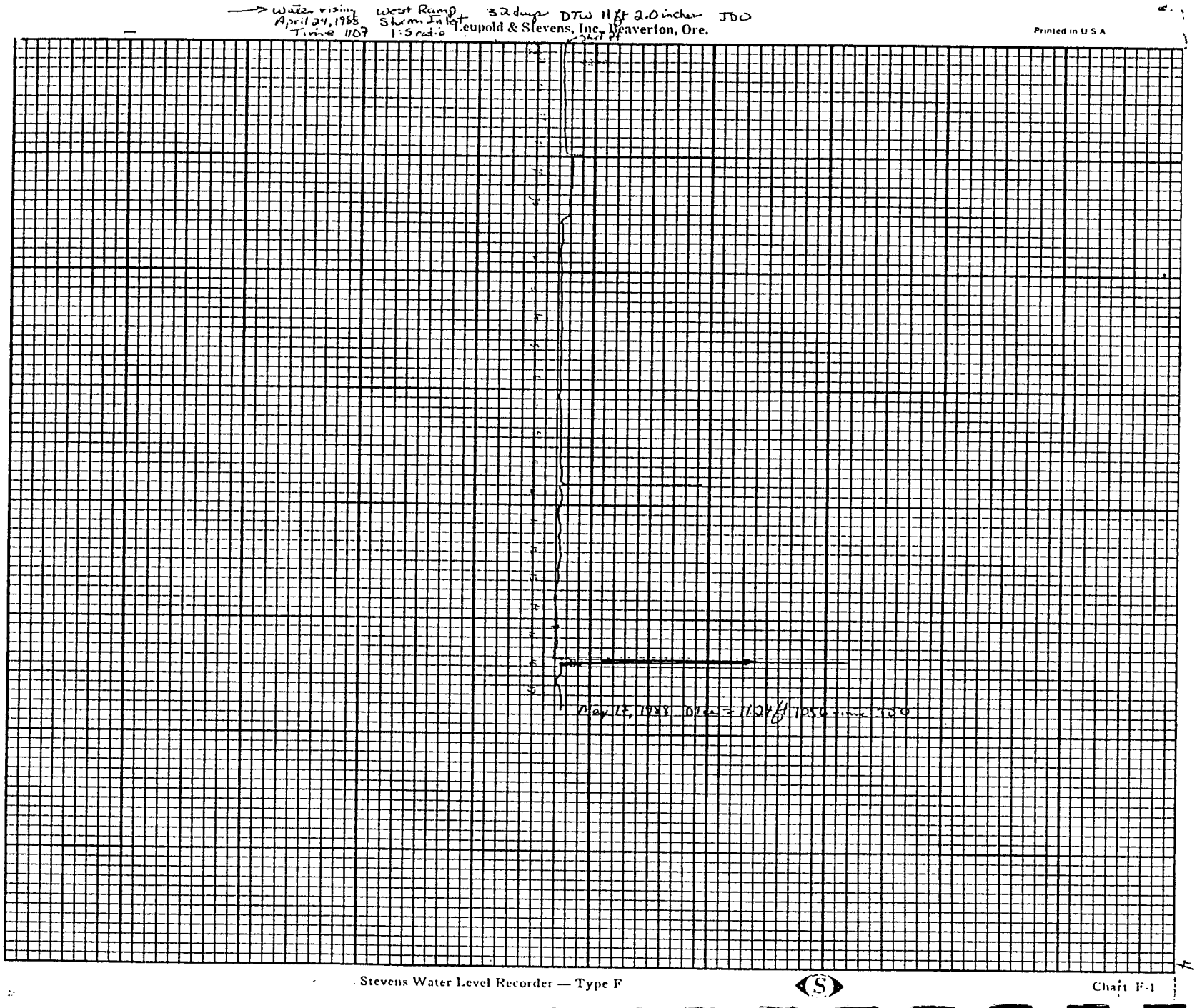
Recorder at the WRMP

Recorder at the WRMP

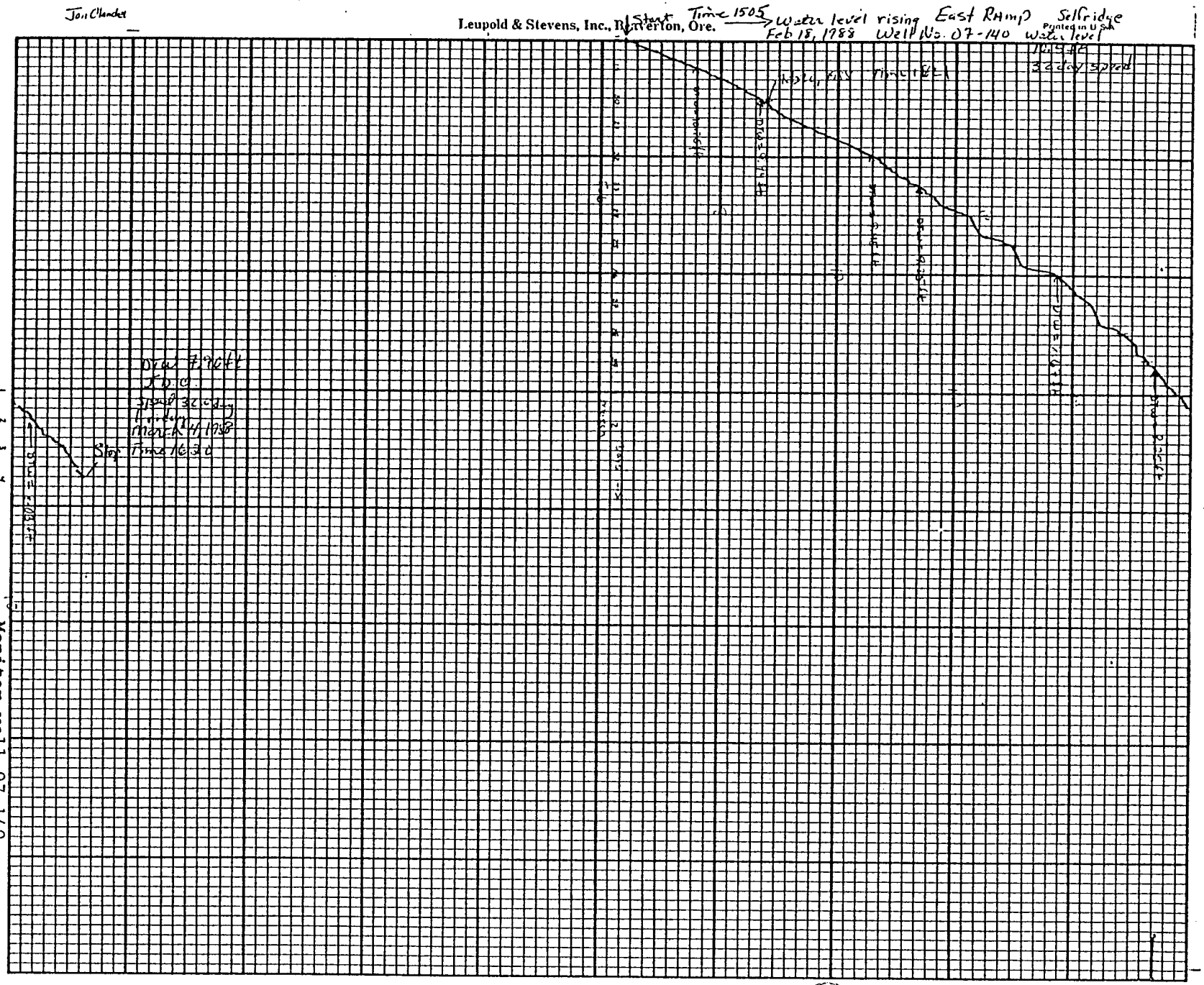


Stevens Water Level Recorder — Type F

Chart

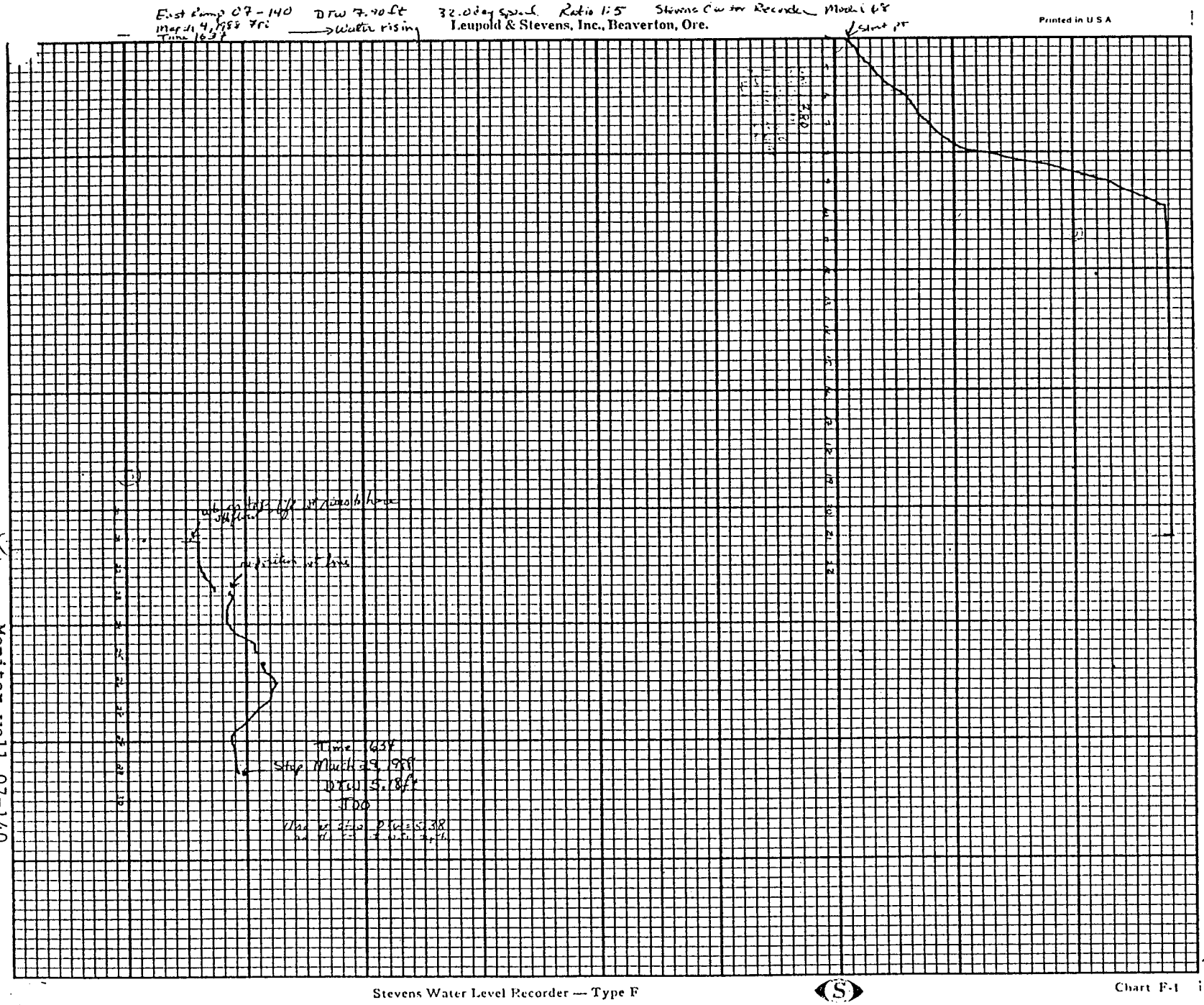


Recorder at the WRMP



Stevens Water Level Recorder — Type F

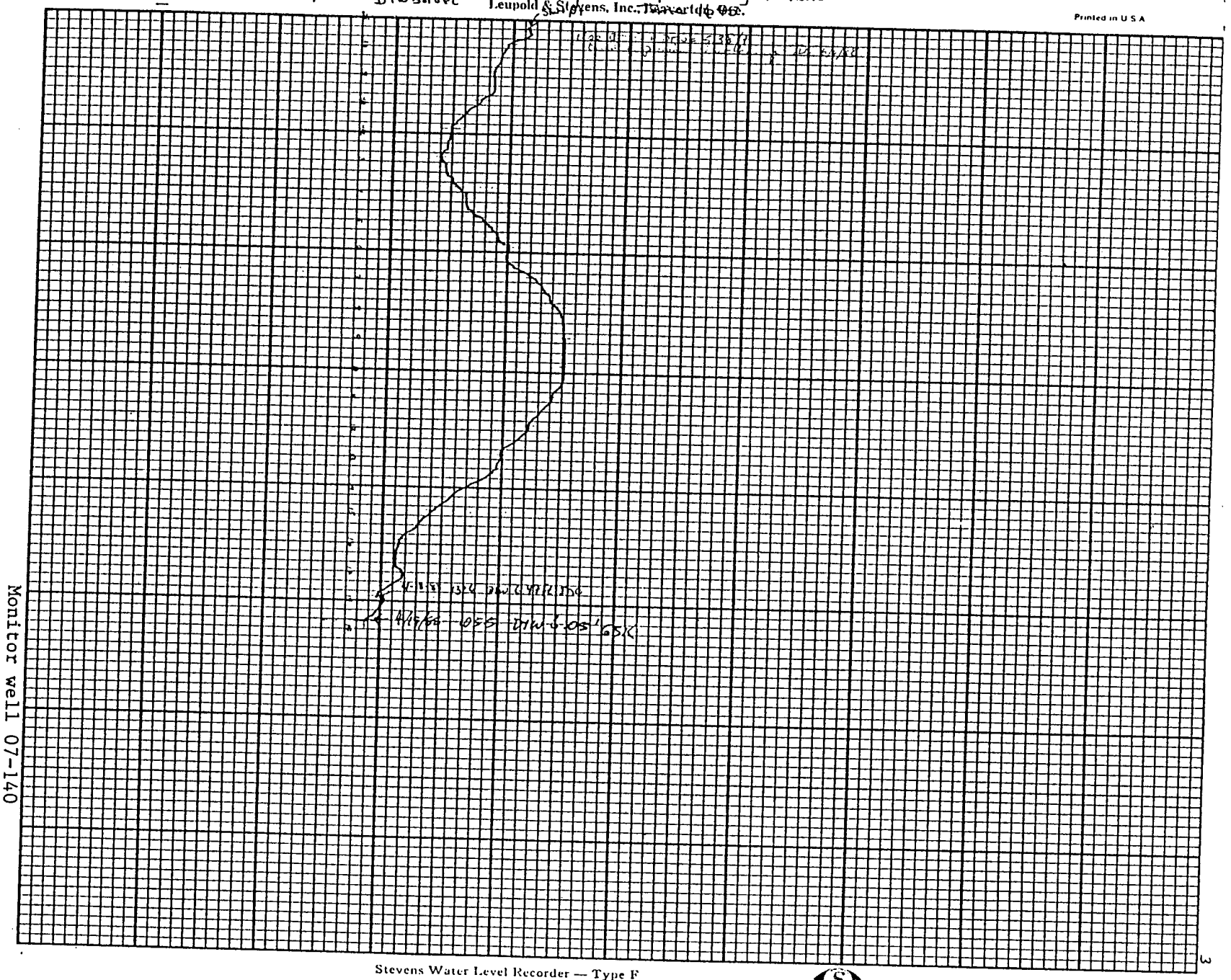
Chart F-1



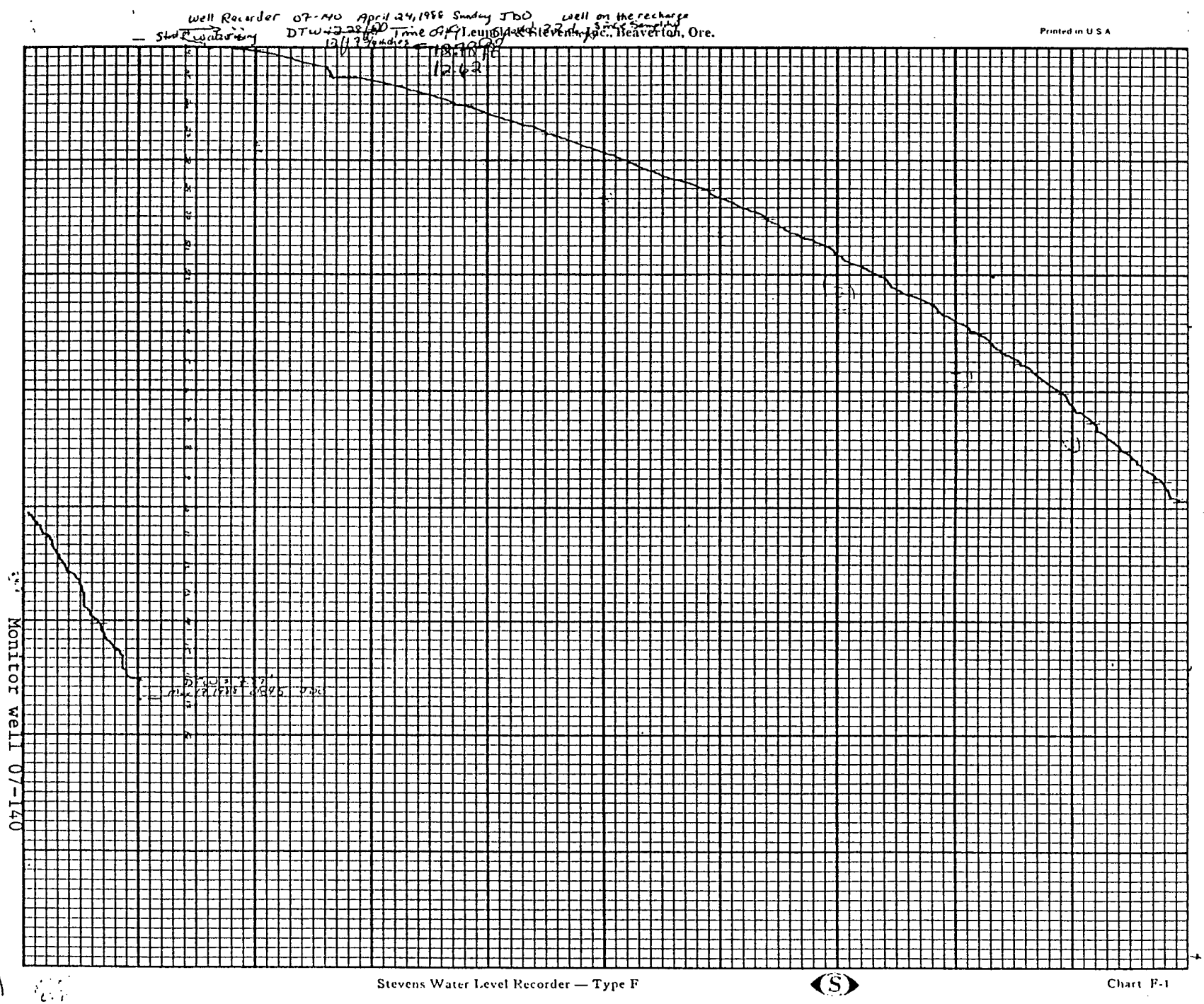
Monitor well 07-140

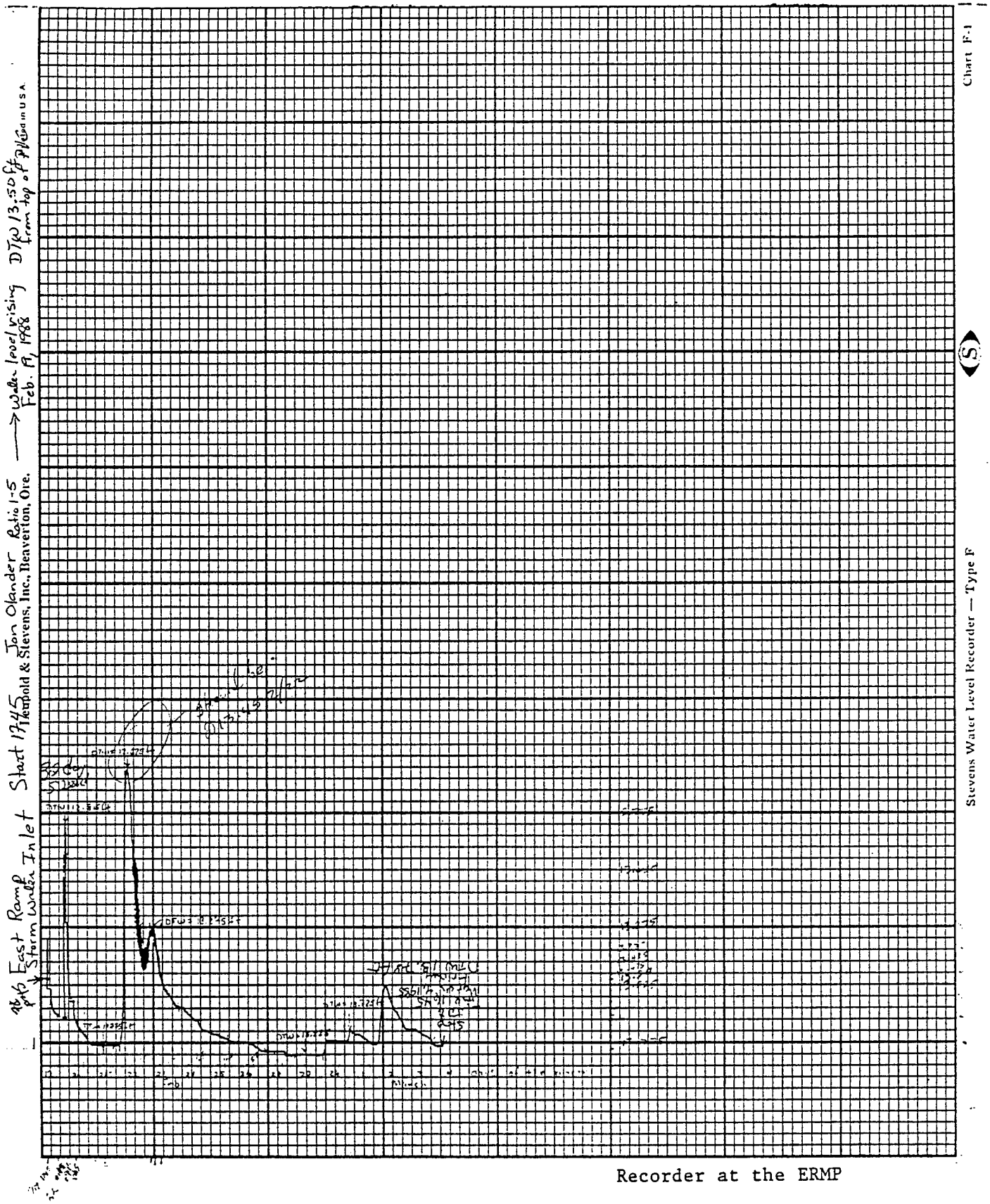
wet on graph in well

H-22


07-140 Recorder Well East Ramp
March 29, 1986 DTW 5.18 ft
Water rising JDO Speed 32 day 1:5 ratio
Leupold & Stevens, Inc.
Printed in U.S.A.
Monitor well 07-140
Stevens Water Level Recorder — Type F
Chart F-1

H-23


Well Recorder 07-N10 April 24, 1986 Sunday JDO well on the recharge
DTW=12.38 Time Off
Printed in U.S.A.
12.62
Monitor well 07-140
Stevens Water Level Recorder — Type F
Chart F-1



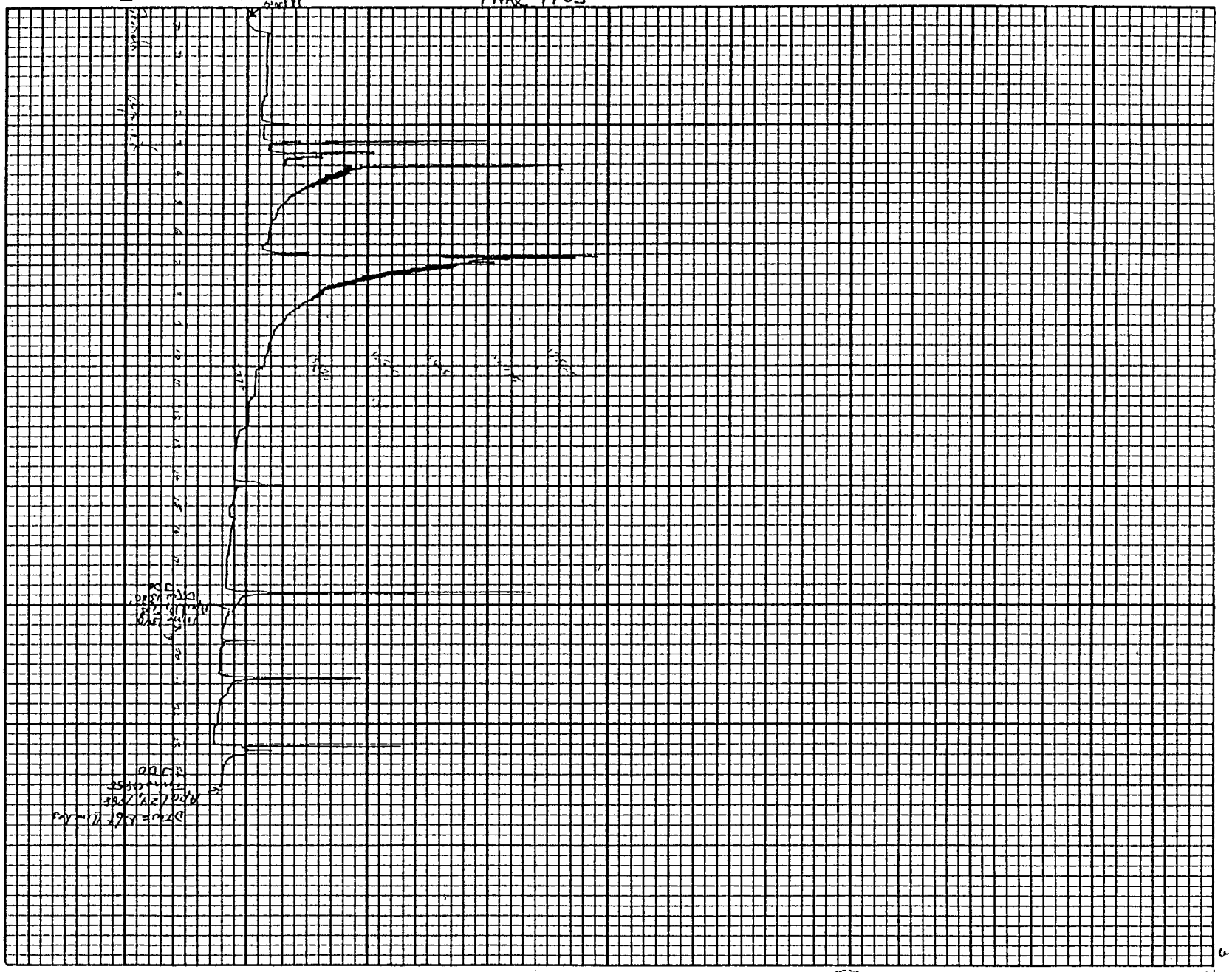
Recorder at the ERMP

Recorder at the ERMP

East Ramp Storm Inlet FDO → Water rising 32 days
March 29, 1988 DTW 13.68 ft

Leupold & Stevens, Inc. Beaverton, Oregon

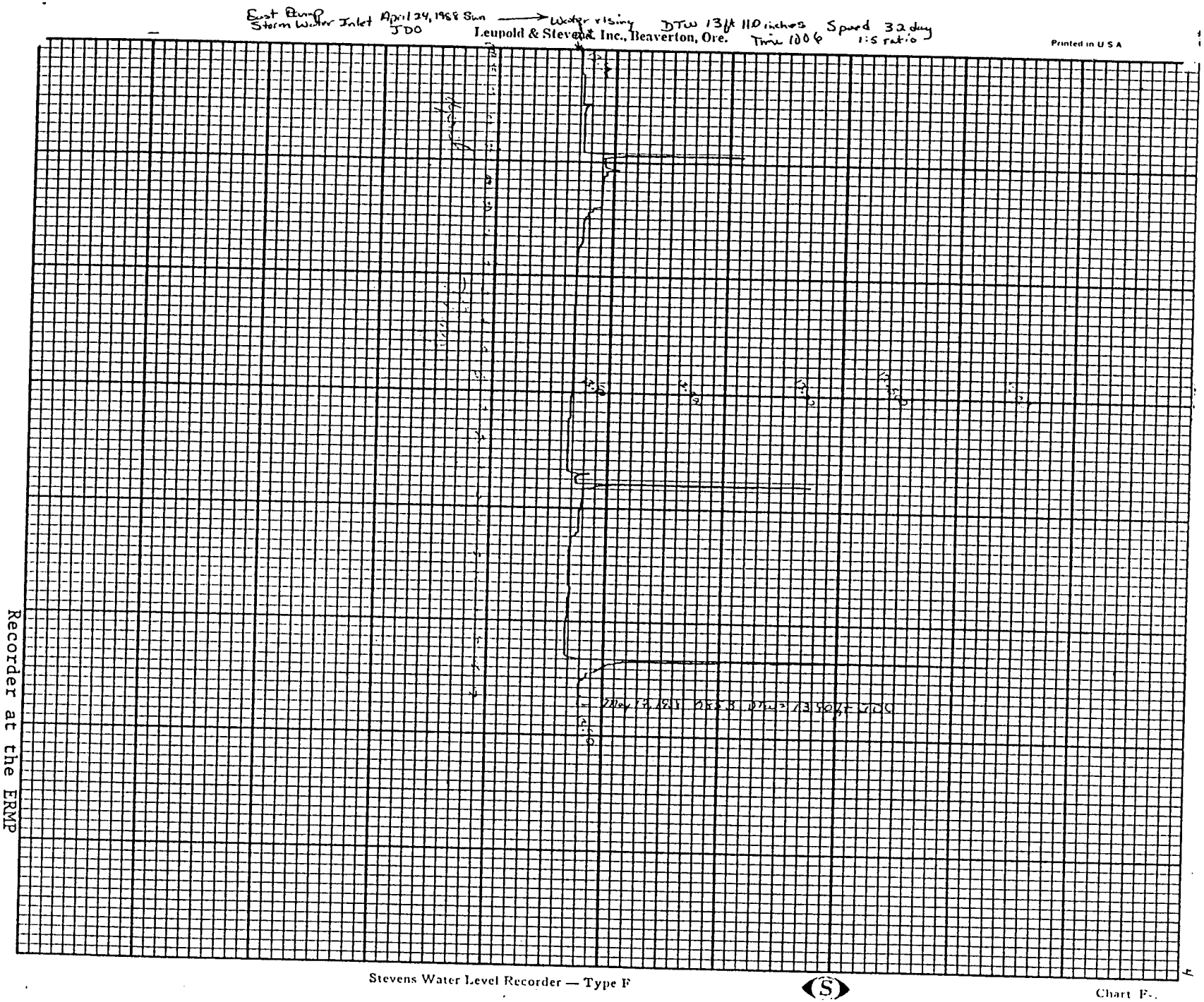
Printed in U.S.A.



Stevens Water Level Recorder — Type F

Chart F-1

Recorder at the ERMP


East Pump
Storm Water Inlet April 24, 1968 Sun → Water rising DTW 13ft 11.0 inches Speed 3.2 day
JDO Leupold & Stevens Inc., Beaverton, Ore. Time 1806 1:5 ratio
Printed in U.S.A.
Recorder at the ERMP
Stevens Water Level Recorder — Type F
Chart F.

APPENDIX I

HYDRAULIC CONDUCTIVITY CALCULATIONS

Bouwer and Rice (1976) derived the equation given below for the determination of hydraulic conductivities. An explanation of this equation and its use are presented here. The equation is written as:

$$K = \frac{r_c^2 \ (\ln R_e/r_w)}{2L} \times \frac{1}{t} \ln \frac{y_o}{y_t}$$

Where,

K = hydraulic conductivity
r_c = radius of well casing
R_e = effective radius over which y is dissipated
r_w = radius of borehole
L = length of screen
t = time
y = vertical distance between water level in well and equilibrium water table in aquifer

Since K, r_c, r_w, R_e and L are constant values for a given well, than the values $(1/t) \ln y_o/y_t$ must also be constant. Thus, field data should yield a straight line when they are plotted as ln y versus t (Bouwer and Rice, 1976). The term $(1/t) \ln y_o/y_t$ is then obtained from the best-fitting straight line in the plot of ln y versus t.

Bouwer and Rice developed from the evaluation of R_e the following empirical equation relating $\ln R_e/r_w$ to the geometry of the system:

$$\ln R_e/r_w = \left[\frac{1.1}{\ln (H/r_w)} + \frac{A + B \ln [(D-H)/r_w]}{L/r_w} \right]^{-1}$$

Where,

A and B = dimensionless coefficients that are functions of L/r_w

D = saturated thickness of aquifer

H = depth from the water table to the bottom of well

Monitoring wells at Selfridge ANGB are assumed to be fully penetrating. This means D = H and thus, the term ln $[(D-H)/r_w]$ cannot be determined. A different empirical equation must be used in this situation:

$$\ln R_e/r_w = \frac{1.1}{\ln H/r_w} + \frac{C}{L/r_w} - 1$$

C = dimensionless coefficient that is a function of L/r_w

One other factor must be taken into consideration for the baildown-recovery tests of Selfridge monitor wells. Since the water is rising in the perforated portion of the well, allowance must be made for the porosity of the sand pack around the screen. This factor is taken into account with the equation:

$$R_e = [r_c^2 + [\text{porosity } (r_w^2 - r_c^2)]]^{1/2}$$

where,

r_c = radius of well casing

r_w = radius of borehole

porosity = percent porosity of sand pack

Values for H, D, L, r_c and r_w were obtained from field observations. Specifications for 4 1/4 inch inner diameter augers yields a borehole diameter of 7 5/8 inches. This results in a borehole radius (r_w) of 0.317 ft. The inner casing radius (r_c) is 0.083 ft (for 2 inch diameter wells). After solving the equation that takes into consideration the porosity of the well screen sand pack, the radius of the casing (r_c) becomes 0.187 ft. An estimated porosity of 30 percent was used for the sand pack around well screens. The time versus recovery data was plotted on semi-log paper. A best fitting line was then drawn and the slope calculated. This slope was then used for the term $(1/t)$ ln y_o/y_t in the hydraulic conductivity equation. A computer program was developed to solve the equations for estimated hydraulic conductivity (K). The semi-log graphs are presented in Appendix E.

According to Bouwer and Rice (1976), their method for determining hydraulic conductivity is accurate to within 10 to 25 percent. The accuracy depends on how much of the well below the water table is perforated. Hydraulic

conductivities at Selfridge range from 2.636×10^{-3} cm/sec to 8.761×10^{-6} cm/sec. The values calculated for all wells tested are given in Table 3-18.

Table I-1
Baildown Test Data Used for
Determining Hydraulic Conductivity
IRP Stage 2
Selfridge ANGB, Michigan

WELL NUMBER	H (ft)	r_c (ft)	D (ft)	L (ft)	C	r_w (ft)	SLOPE (/sec)	H/r_w	ln H/r_w	L/r_w	ln(Re/r_w)	K (ft/s)	K (cm/s)
01-122	19.94	0.187	19.94	20	3	0.317	0.0104	62.902	4.142	63.091	3.193	2.903E-05	8.850E-04
01-123	17.54	0.187	17.54	20	3	0.317	0.000154	55.331	4.013	63.091	3.109	4.186E-07	1.276E-05
01-124	20.21	0.187	20.21	20	3	0.317	0.000455	63.754	4.155	63.091	3.202	1.274E-06	3.882E-05
01-125	21.31	0.187	21.31	20	3	0.317	0.000141	67.224	4.208	63.091	3.237	3.990E-07	1.216E-05
01-156	14.62	0.187	14.62	10	2	0.317	0.000182	46.120	3.831	31.546	2.853	9.079E-07	2.767E-05
01-257	38.27	0.187	38.27	10	2	0.317	0.000043	120.726	4.794	31.546	3.414	2.567E-07	7.824E-06
01-158	-----	-----	-----	--	-	-----	--------	-------	-----	------	-----	---------	---------
01-259	4.52	0.187	4.52	10	2	0.317	0.000122	14.259	2.657	31.546	2.095	4.469E-07	1.362E-05
01-160	15.04	0.187	15.04	10	2	0.317	0.000128	47.445	3.860	31.546	2.870	6.424E-07	1.958E-05
01-261	32.37	0.187	32.37	10	2	0.317	0.000041	102.114	4.626	31.546	3.320	2.380E-07	7.255E-06
01-162	12.08	0.187	12.08	10	2	0.317	0.000266	38.107	3.640	31.546	2.735	1.272E-06	3.878E-05
01-263	14.85	0.187	14.85	10	2	0.317	0.0000113	46.845	3.847	31.546	2.862	5.656E-08	1.724E-06
02-164	13.28	0.187	13.28	10	2	0.317	0.0004	41.893	3.735	31.546	2.794	1.954E-06	5.956E-05
02-165	14.56	0.187	14.56	10	2	0.317	0.00015	45.931	3.827	31.546	2.850	7.476E-07	2.279E-05
02-166	19.92	0.187	19.92	10	2	0.317	0.0000946	62.839	4.141	31.546	3.039	5.026E-07	1.532E-05
03-116	24.21	0.187	24.21	20	3	0.317	0.0298	76.372	4.336	63.091	3.319	8.648E-05	2.636E-03
03-117	23.22	0.187	23.22	20	3	0.317	0.0138	73.249	4.294	63.091	3.292	3.972E-05	1.211E-03
03-118	23.32	0.187	23.32	20	3	0.317	0.00122	73.565	4.298	63.091	3.295	3.514E-06	1.071E-04
04-111	16.25	0.187	16.25	20	3	0.317	0.00032	51.262	3.937	63.091	3.059	8.556E-07	2.608E-05
04-112	21.31	0.187	21.31	20	3	0.317	0.000365	67.224	4.208	63.091	3.237	1.033E-06	3.148E-05
04-113	10.22	0.187	10.22	20	3	0.317	0.000122	32.240	3.473	63.091	2.745	2.928E-07	8.925E-06
04-115	9.43	0.187	9.43	20	3	0.317	0.00104	29.748	3.393	63.091	2.690	2.446E-06	7.454E-05
04-148	17.85	0.187	17.85	10	2	0.317	0.000297	56.309	4.031	31.546	2.974	1.544E-06	4.707E-05
04-249	15.26	0.187	15.26	10	2	0.317	0.0000717	48.139	3.874	31.546	2.879	3.609E-07	1.100E-05

01 - Southwest Landfill
02 - Fire Training Area-2
03 - Fire Training Area-1
04 - West Ramp

1. Rapid recharge to the well prevented collection of valid test data.

Table I-1 (continued)
Baildown Test Data Used for
Determining Hydraulic Conductivity
IRP Stage 2
Selfridge ANGB, Michigan

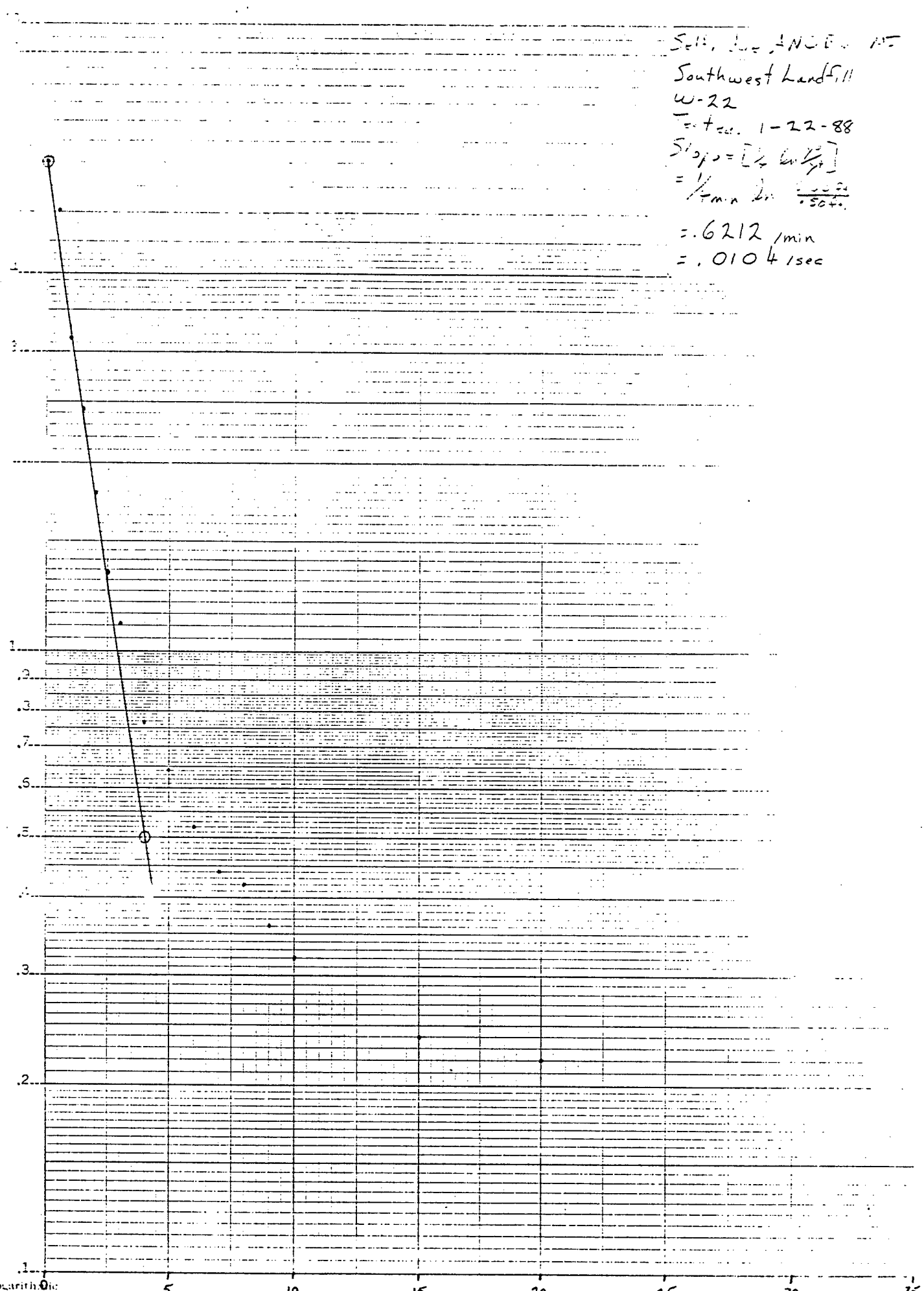
WELL NUMBER	H (ft)	r_c (ft)	D (ft)	L (ft)	C	r_w (ft)	SLOPE (/sec)	H/r_w	ln H/r_w	L/r_w	ln(Re/r_w)	K (ft/s)	K (cm/s)
04-150	17.92	0.187	17.92	10	2	0.317	0.0000959	56.530	4.035	31.546	2.976	4.990E-07	1.521E-05
04-251	30.90	0.187	30.90	10	2	0.317	0.000081	97.476	4.580	31.546	3.294	4.665E-07	1.422E-05
04-152	19.87	0.187	19.87	10	2	0.317	0.000142	62.681	4.138	31.546	3.037	7.541E-07	2.299E-05
04-253	19.29	0.187	19.29	10	2	0.317	0.000111	60.852	4.108	31.546	3.020	5.861E-07	1.786E-05
04-154	11.09	0.187	11.09	10	2	0.317	0.000374	34.984	3.555	31.546	2.682	1.754E-06	5.346E-05
04-255	30.96	0.187	30.96	10	2	0.317	0.0000772	97.666	4.582	31.546	3.295	4.448E-07	1.356E-05
05-105	22.96	0.187	22.96	20	3	0.317	0.000625	72.429	4.283	63.091	3.285	1.795E-06	5.471E-05
05-107	20.36	0.187	20.36	20	3	0.317	0.000192	64.227	4.162	63.091	3.207	5.383E-07	1.641E-05
05-130	12.29	0.187	12.29	10	2	0.317	0.000527	38.770	3.658	31.546	2.746	2.530E-06	7.713E-05
05-231	36.00	0.187	36.00	10	2	0.317	0.0000278	113.565	4.732	31.546	3.380	1.643E-07	5.008E-06
05-132	8.19	0.187	8.19	10	2	0.317	0.000195	25.836	3.252	31.546	2.490	8.488E-07	2.587E-05
05-233	38.35	0.187	38.35	10	2	0.317	0.0000188	120.978	4.796	31.546	3.416	1.123E-07	3.422E-06
05-134	8.60	0.187	8.60	10	2	0.317	0.0000913	27.129	3.301	31.546	2.521	4.024E-07	1.227E-05
05-235	24.15	0.187	24.15	10	2	0.317	0.000141	76.183	4.333	31.546	3.152	7.771E-07	2.369E-05
05-167	7.81	0.187	7.81	10	2	0.317	0.0000906	24.637	3.204	31.546	2.459	3.895E-07	1.187E-05
06-108	19.23	0.187	19.23	20	3	0.317	0.000162	60.662	4.105	63.091	3.170	4.489E-07	1.368E-05
06-109	24.81	0.187	24.81	20	3	0.317	0.00038	78.265	4.360	63.091	3.335	1.108E-06	3.377E-05
06-110	22.87	0.187	22.87	20	3	0.317	0.00319	72.145	4.279	63.091	3.283	9.154E-06	2.790E-04
06-144	14.83	0.187	14.83	10	2	0.317	0.000684	46.782	3.846	31.546	2.862	3.422E-06	1.043E-04
06-245	28.88	0.187	28.88	10	2	0.317	0.0000505	91.104	4.512	31.546	3.255	2.874E-07	8.761E-06
06-146	11.86	0.187	11.86	10	2	0.317	0.000607	37.413	3.622	31.546	2.724	2.891E-06	8.812E-05
06-247	22.92	0.187	22.92	10	2	0.317	0.00111	72.303	4.281	31.546	3.122	6.058E-06	1.847E-04

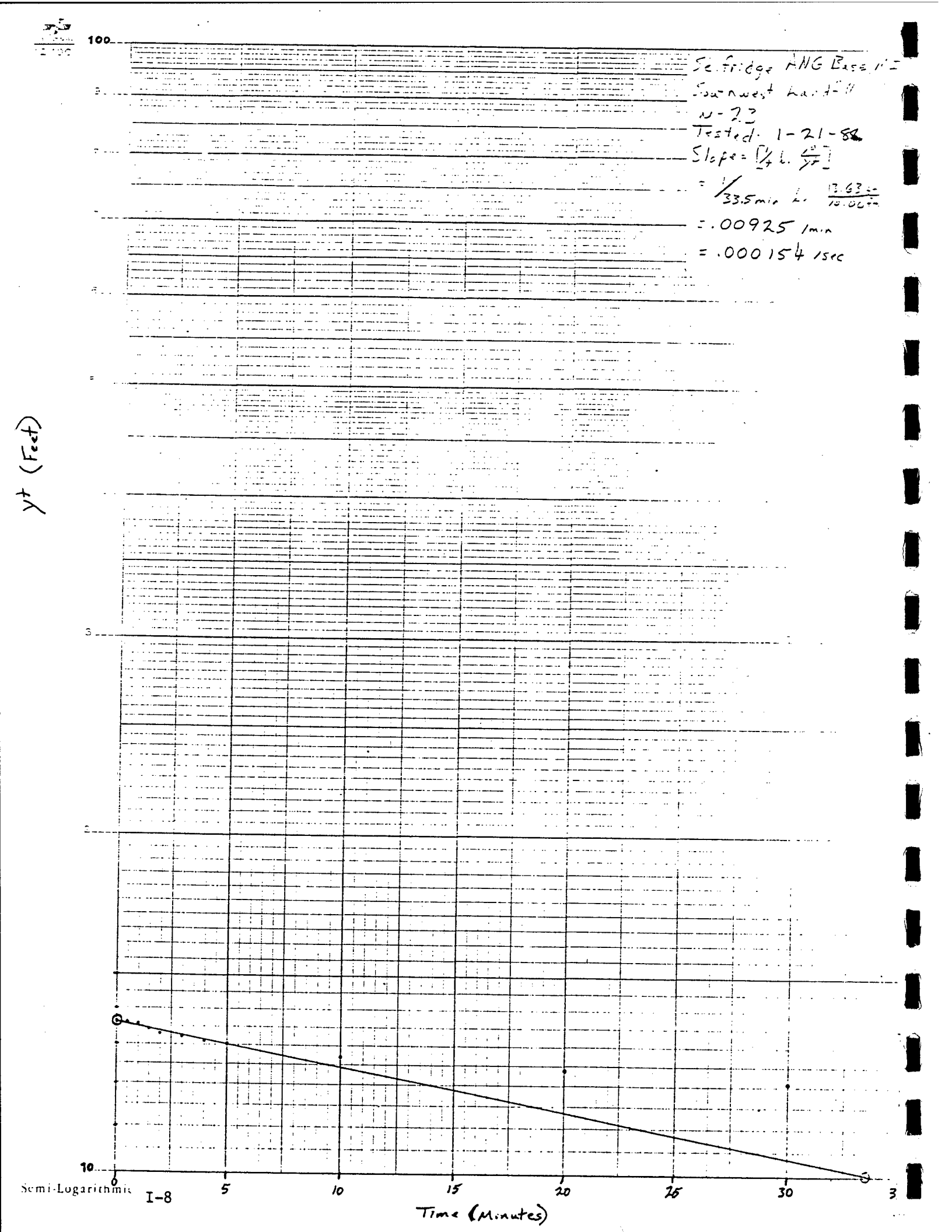
04 - West Ramp
05 - Tucker Creek Landfill
06 - Northwest Landfill

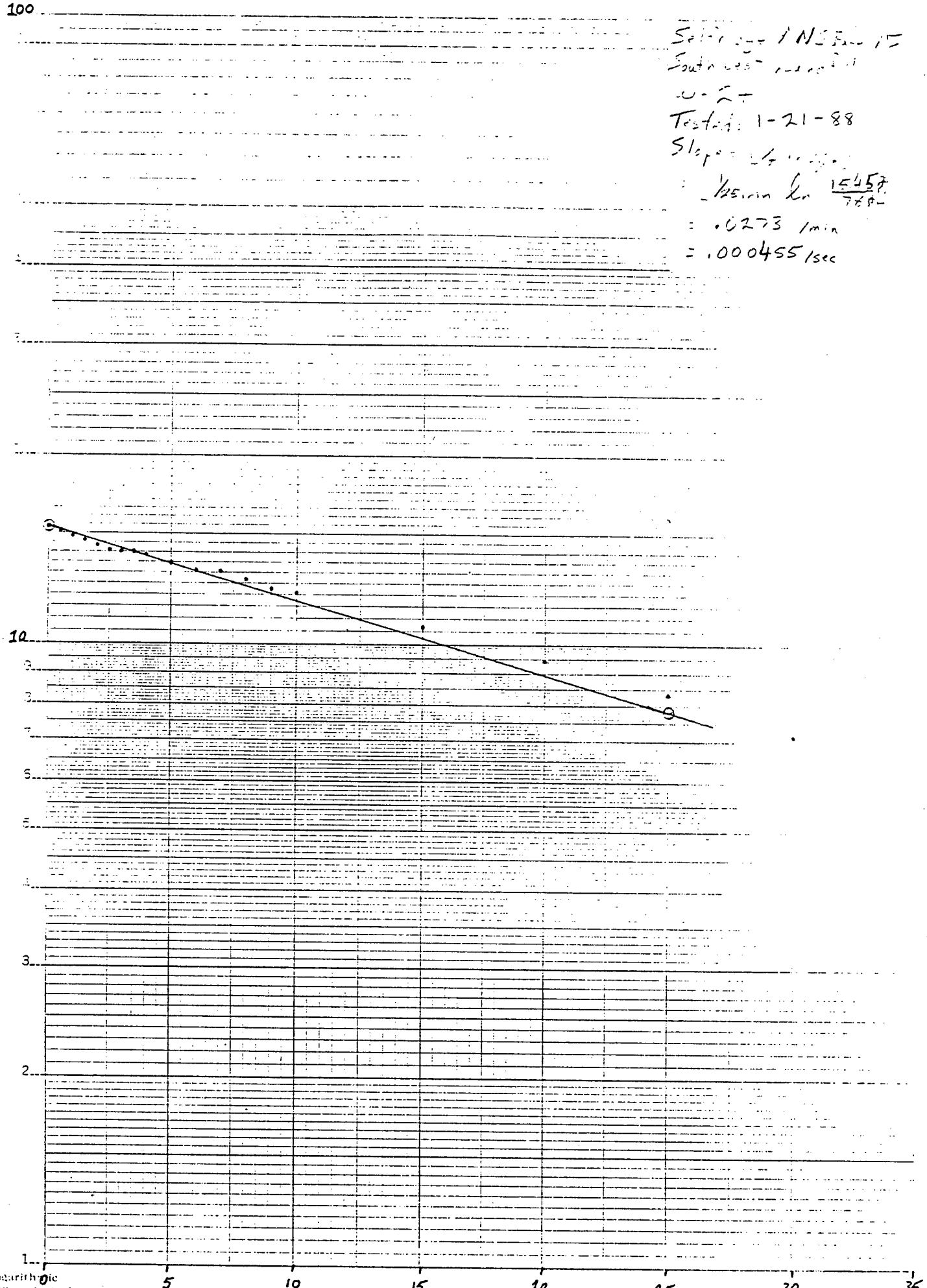
Table I-1 (continued)
Baildown Test Data Used for
Determining Hydraulic Conductivity
IRP Stage 2
Selfridge ANGB, Michigan

WELL NUMBER	H (ft)	r_c (ft)	D (ft)	L (ft)	C	r_w (ft)	SLOPE (/sec)	H/r_w	ln H/r_w	L/r_w	ln(Re/r_w)	K (ft/s)	K (cm/s)
07-102	21.51	0.187	21.51	20	3	0.317	0.000349	67.855	4.217	63.091	3.243	9.894E-07	3.016E-05
07-103	19.31	0.187	19.31	20	3	0.317	0.000349	60.915	4.109	63.091	3.172	9.679E-07	2.950E-05
07-104	10.91	0.187	10.91	20	3	0.317	0.000617	34.416	3.539	63.091	2.790	1.505E-06	4.587E-05
07-136	12.70	0.187	12.70	10	2	0.317	0.00753	40.063	3.690	31.546	2.767	3.642E-05	1.110E-03
07-237	28.27	0.187	28.27	10	2	0.317	0.000165	89.180	4.491	31.546	3.243	9.356E-07	2.852E-05
07-138	11.23	0.187	11.23	10	2	0.317	0.000222	35.426	3.567	31.546	2.690	1.044E-06	3.183E-05
07-239	37.89	0.187	37.89	10	2	0.317	0.000103	119.527	4.784	31.546	3.409	6.139E-07	1.871E-05
07-140	10.19	0.187	10.19	10	2	0.317	0.000197	32.145	3.470	31.546	2.629	9.055E-07	2.760E-05
07-241	19.35	0.187	19.35	10	2	0.317	0.000164	61.041	4.112	31.546	3.022	8.665E-07	2.641E-05
07-142	12.71	0.187	12.71	10	2	0.317	0.00094	40.095	3.691	31.546	2.767	4.548E-06	1.386E-04
07-243	29.58	0.187	29.58	10	2	0.317	0.00031	93.312	4.536	31.546	3.269	1.772E-06	5.401E-05
08-126	6.80	0.187	6.80	10	2	0.317	0.00032	21.451	3.066	31.546	2.369	1.325E-06	4.039E-05
08-127	17.00	0.187	17.00	10	2	0.317	0.00042	53.628	3.982	31.546	2.944	2.162E-06	6.590E-05
08-128	4.71	0.187	4.71	10	2	0.317	0.000198	14.858	2.699	31.546	2.123	7.350E-07	2.240E-05
08-129	14.37	0.187	14.37	10	2	0.317	0.000181	45.331	3.814	31.546	2.842	8.995E-07	2.742E-05

07 - East Ramp
08 - Base Coal Storage Pile


Soil, Inc., NC
Southwest Landfill
W-22
T = t_ave. 1-22-88
Slope = [½ ln x/y]
= 1/t_min ln
= .6212 /min
= .0104 /sec
4
3
2
1
.9
.8
.7
.6
.5
.4
.3
.2
.1
0
5
10
15
20
25
30
35
Time (Minutes)
semi-logarithmic
cycles x 10 to the inch


Sc. fridge ANG Base
Southwest Area
N-23
Tested: 1-21-88
Slope = [1/4 L. cycle]
= 1/33.5 min
= .00925 /min
= .000154 /sec
y+ (Feet)
100
10
0
5
10
15
20
25
30
Time (Minutes)



Test #1: 1-21-88

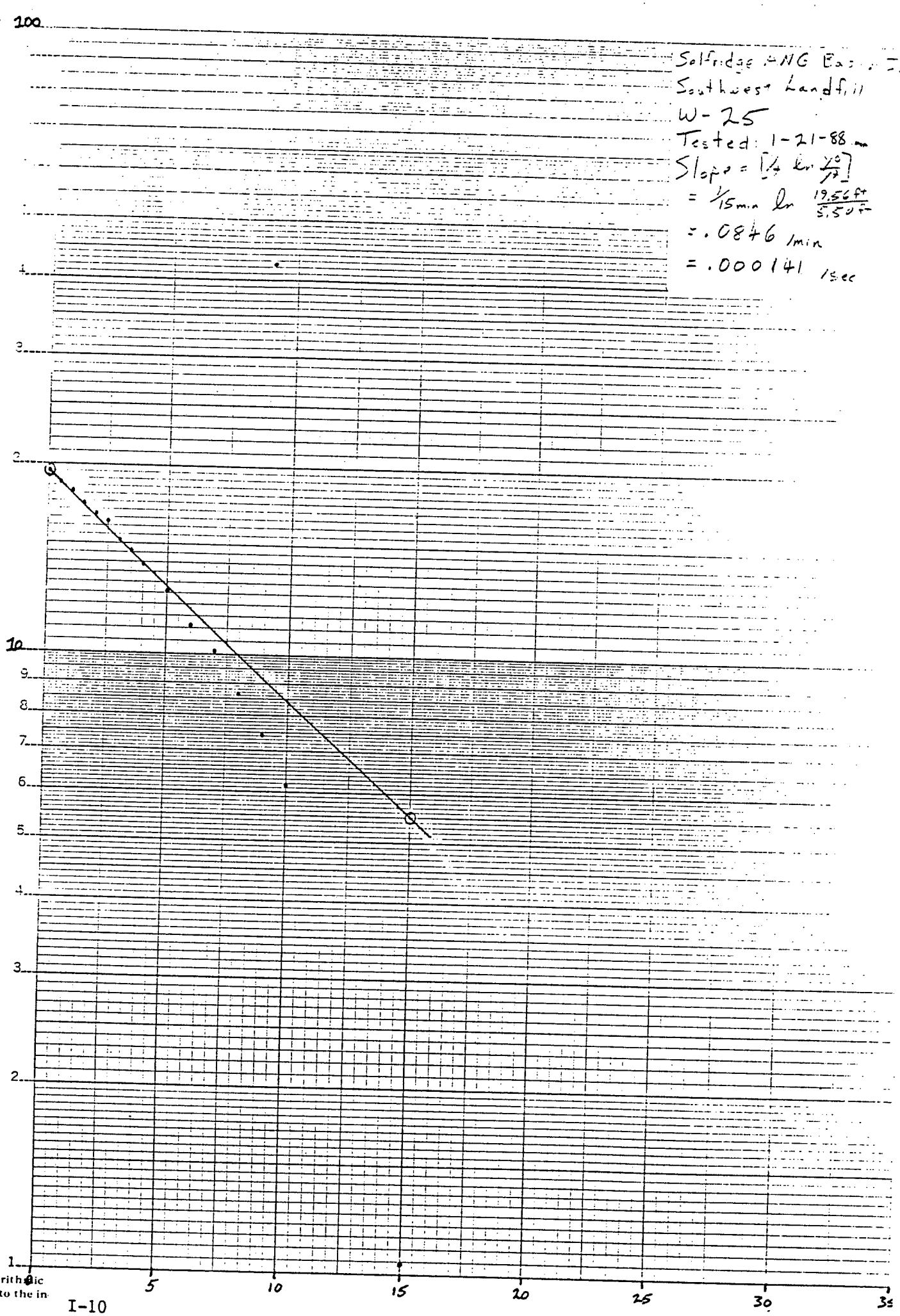
Slope = 1/t log

= 1/25 min log 15457/7484

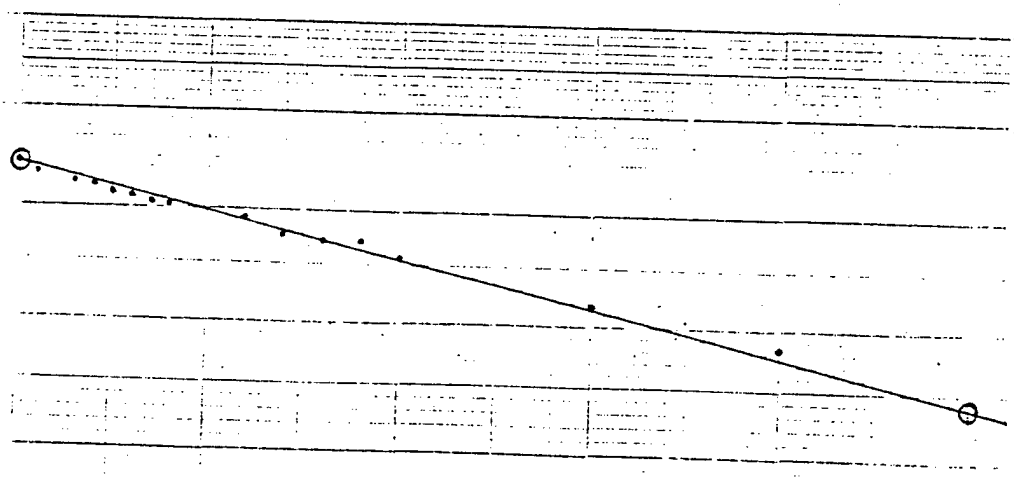
= .0273 /min

= .000455 /sec

semi-Logarithmic
Scales x 10 to the inch

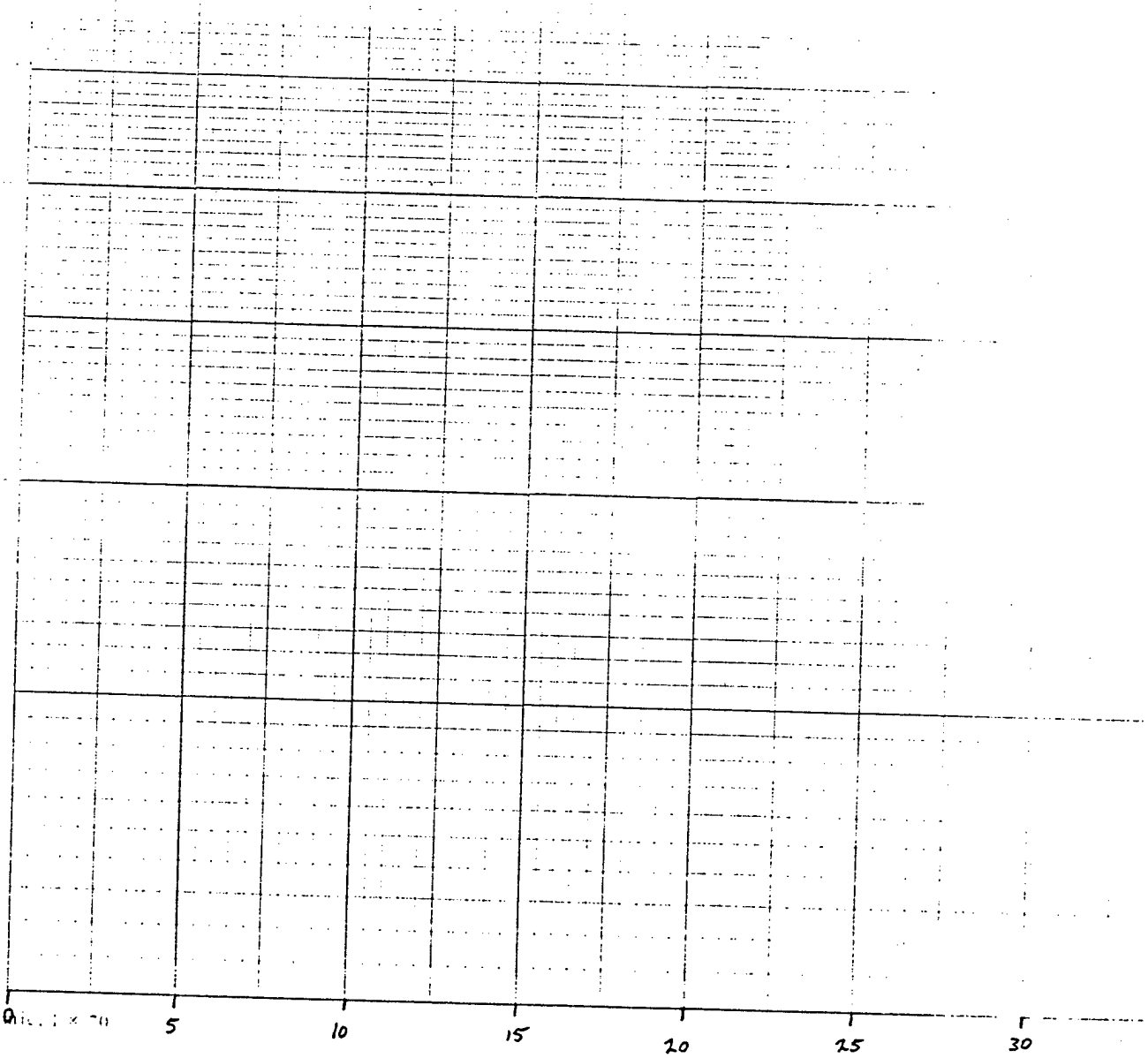


Semi-Logarithmic
2 Cycles x 10 to the in

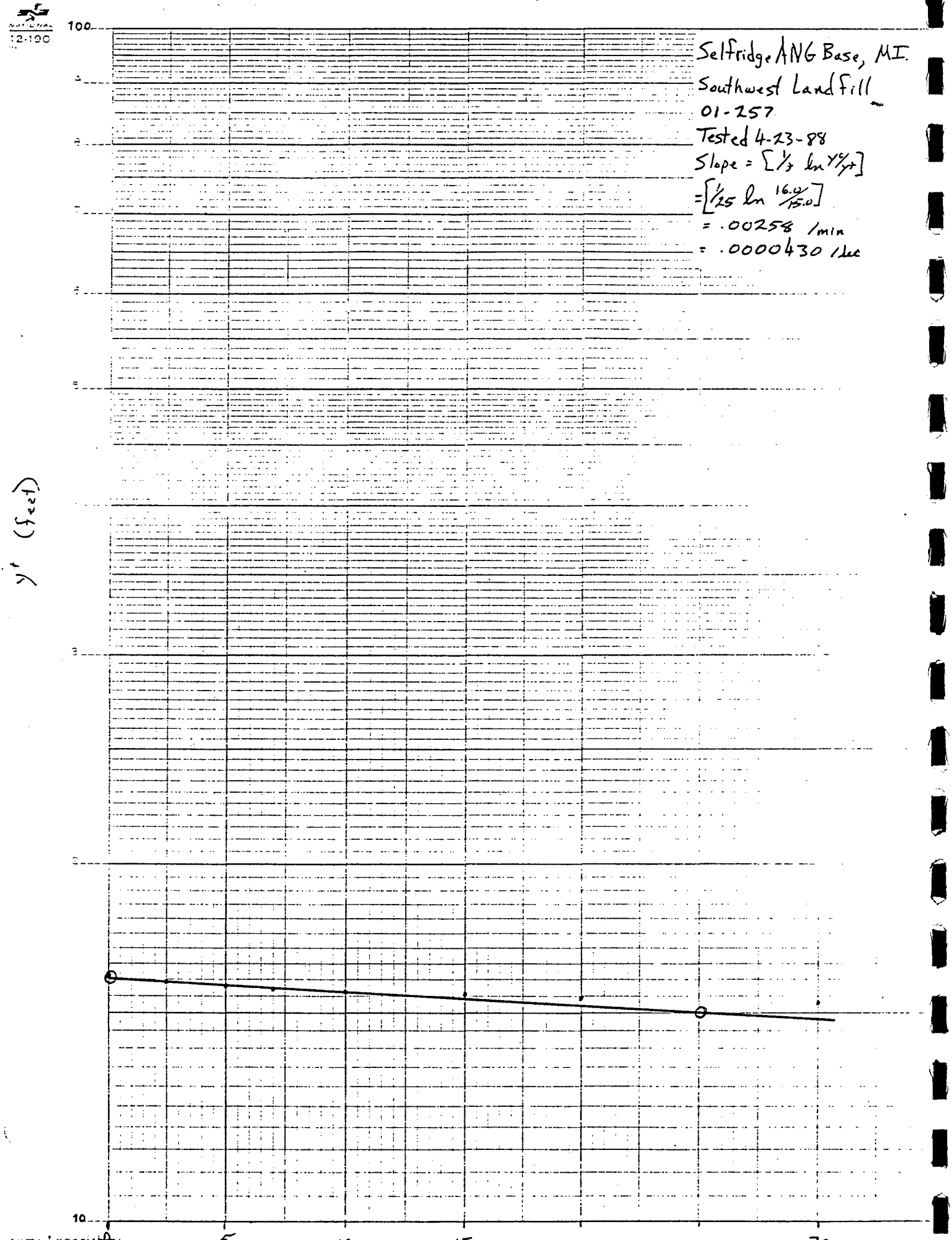


Selfridge ANG Base, MI
Runway 27
W-27
Tested 2-6-88
Slope = $\frac{1}{\text{Time}} \ln \frac{P_0}{P_t}$
= $\frac{1}{\text{Time}} \ln \frac{8.31}{\text{Time}}$
= .0109/min
= .000182/sec

Pressure (Pounds/Square Inch)



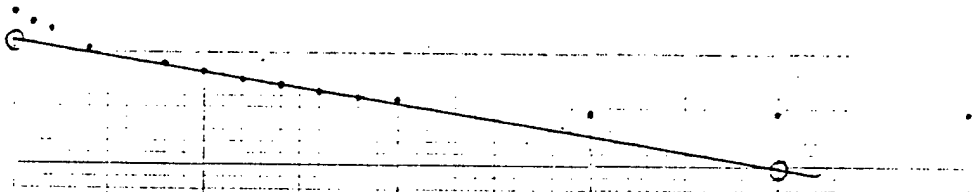
Time (Minutes)

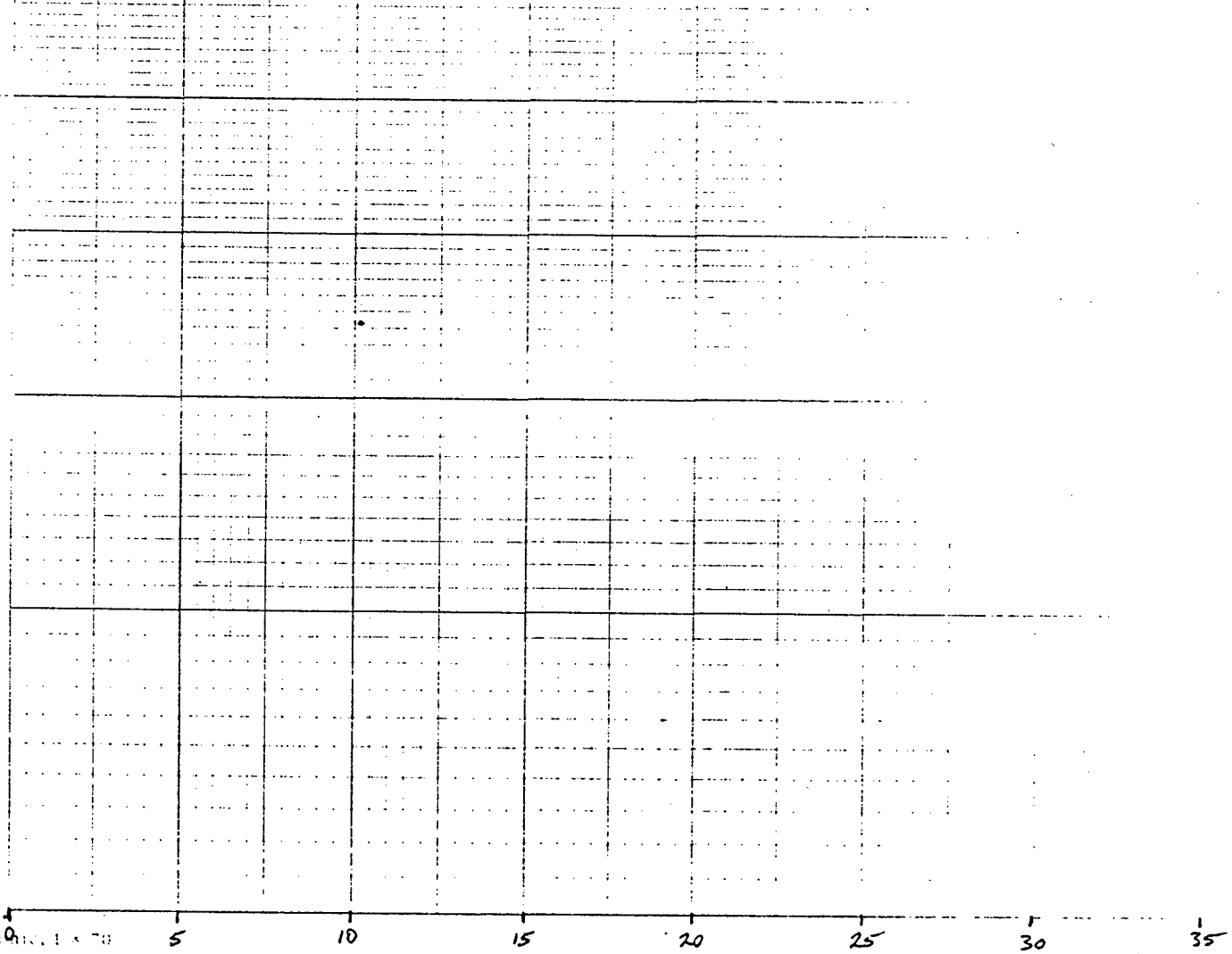


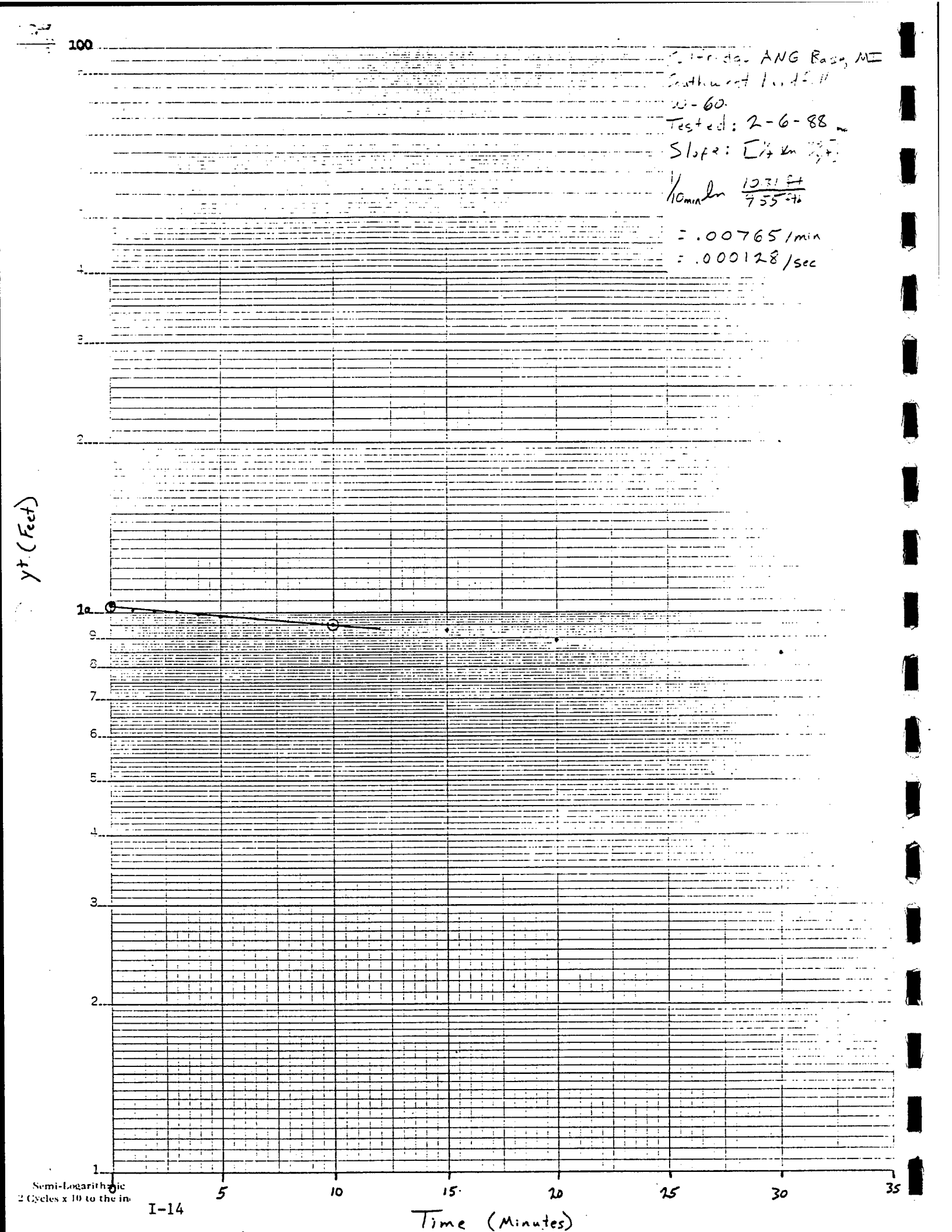
Semi-Logarithmic

Semi-dec Mfg Plant
Southwest quadrant
W-59
Tested 2-9-88

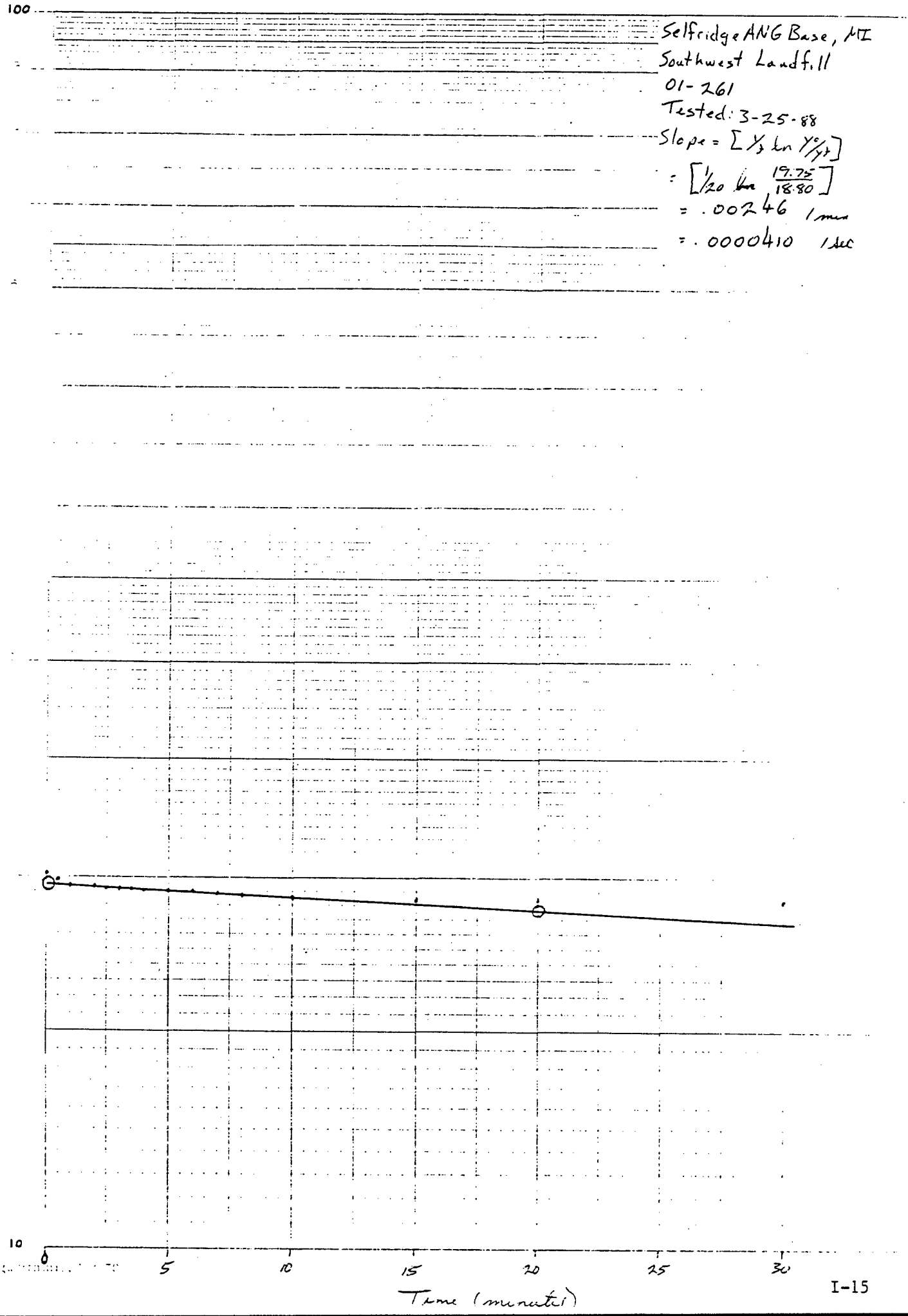
= .00730/min
= .000122/sec



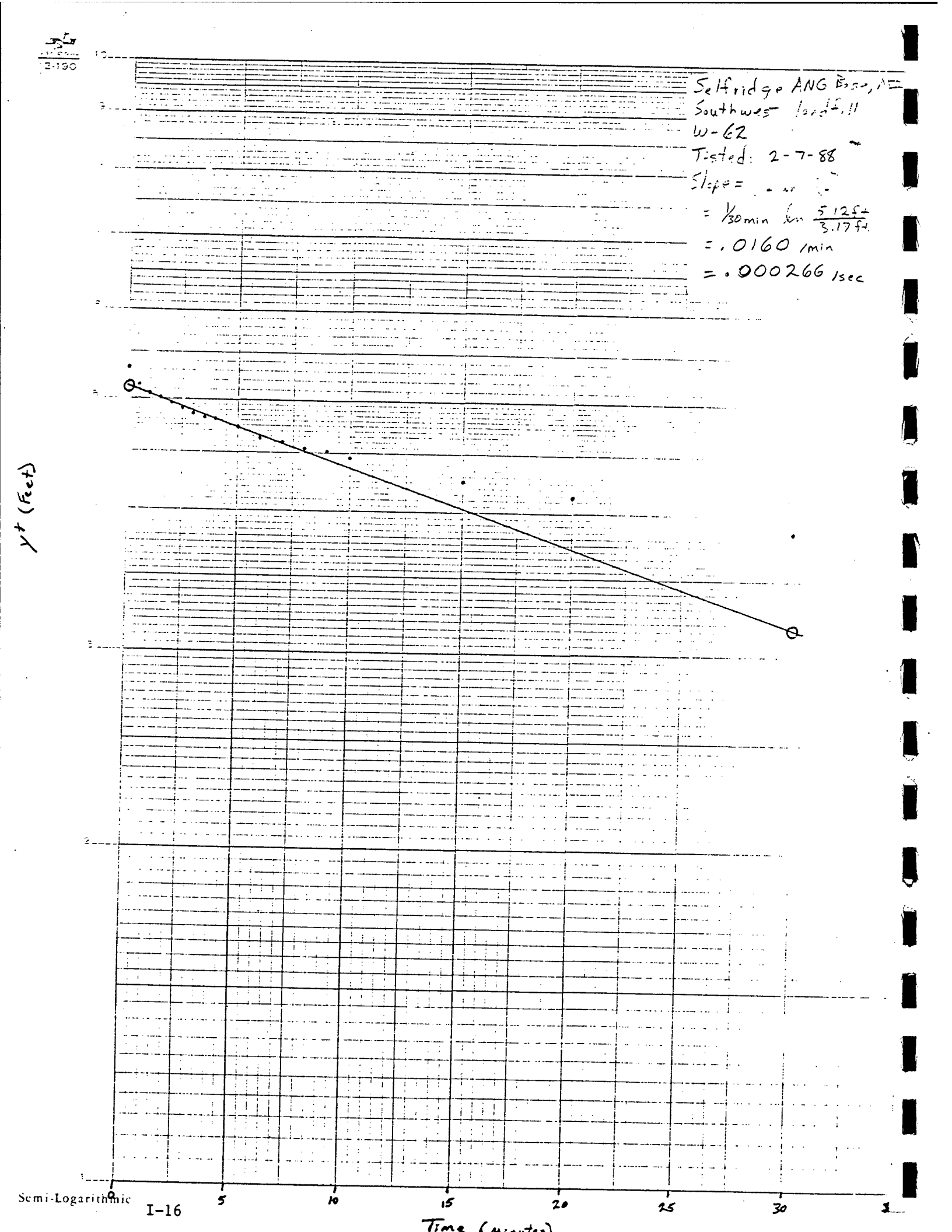




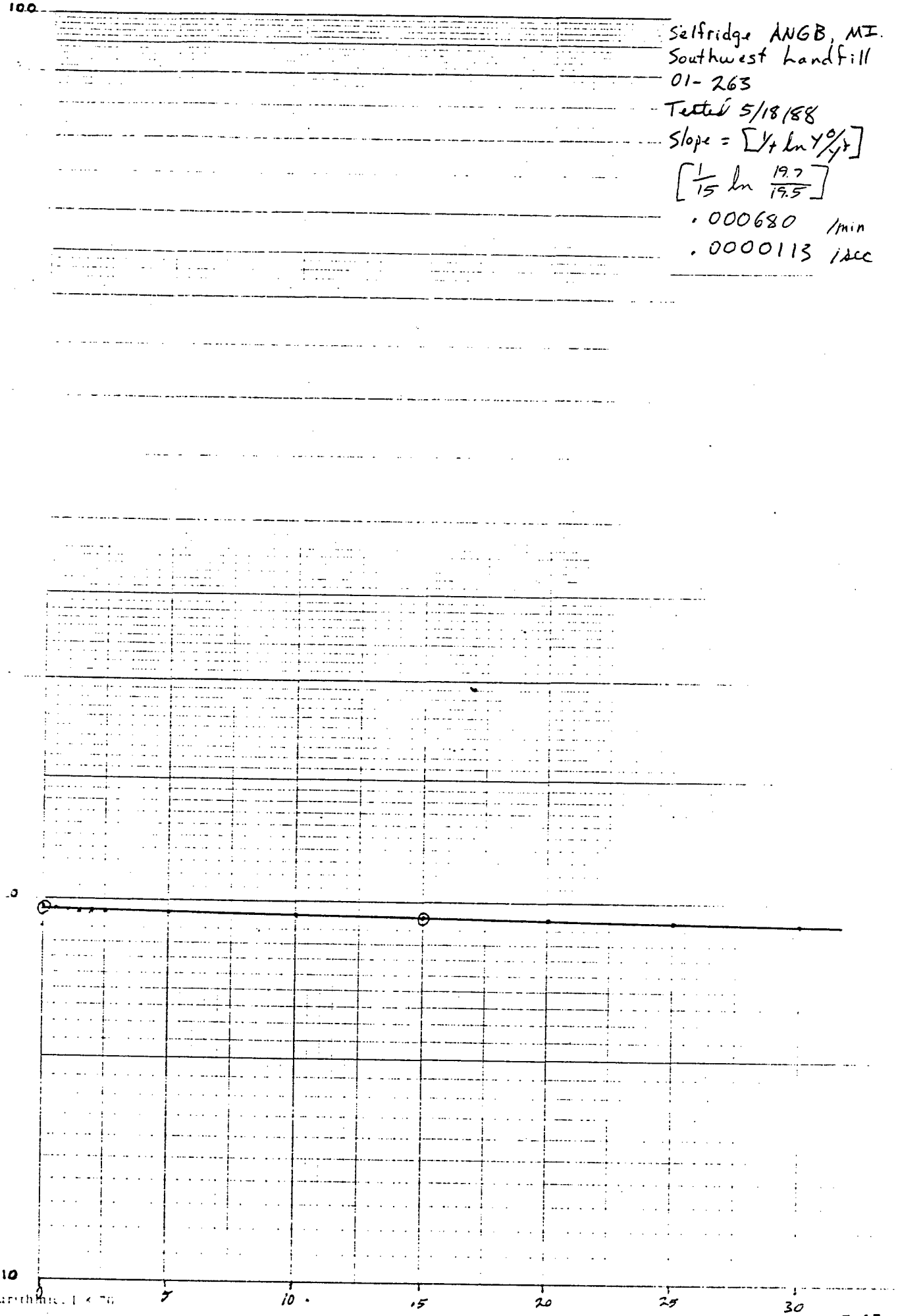
Semi-Logarithmic
2 Cycles x 10 to the in



Selfridge ANG Base, MI
Southwest Landfill
01-261
Tested: 3-25-88
Slope = $[1/3 \ln Y_0/Y_t]$
$= [1/20 \ln \frac{19.75}{18.80}]$
$= .00246$ 1/min
$= .0000410$ 1/sec

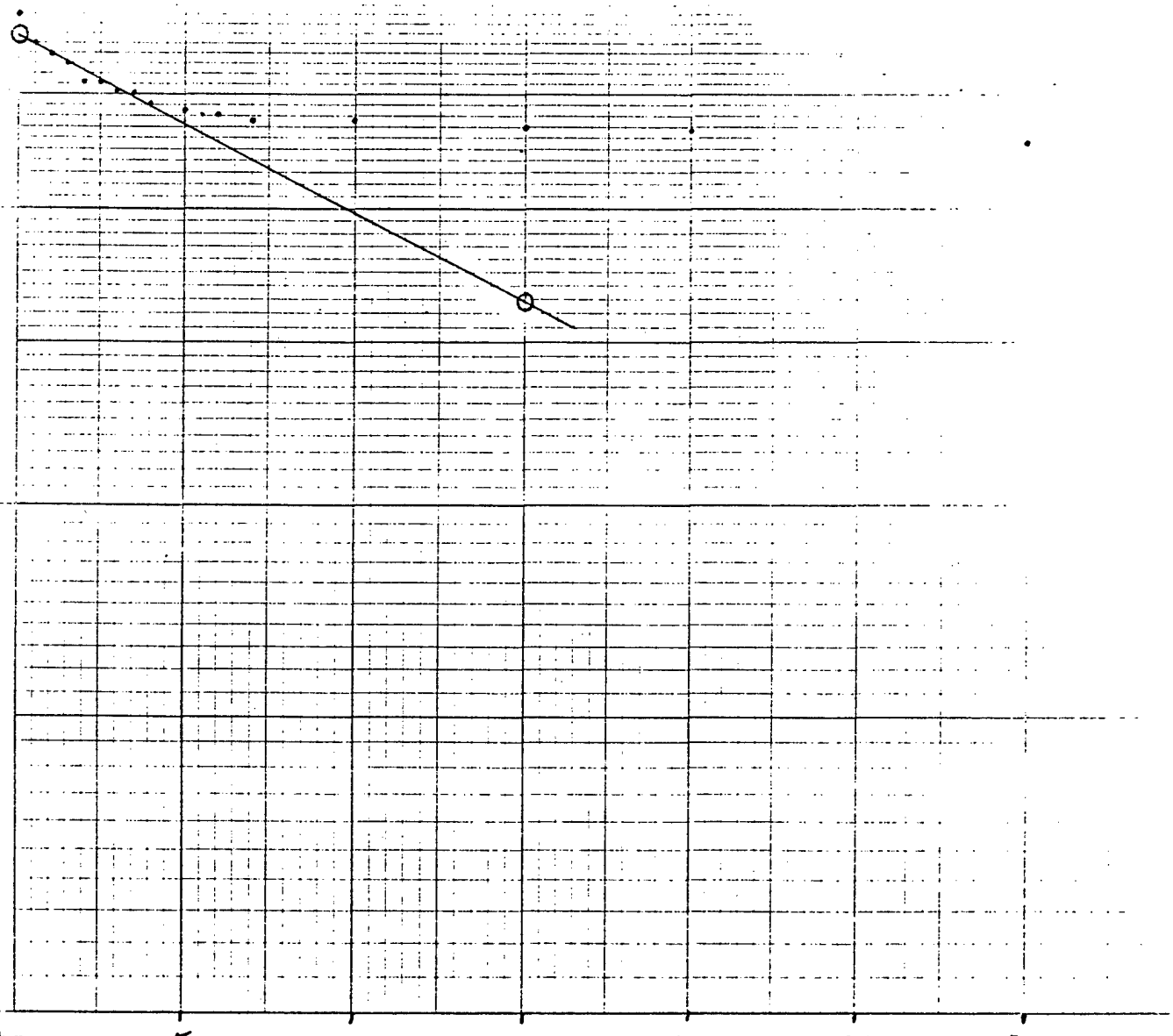


Semi-Logarithmic

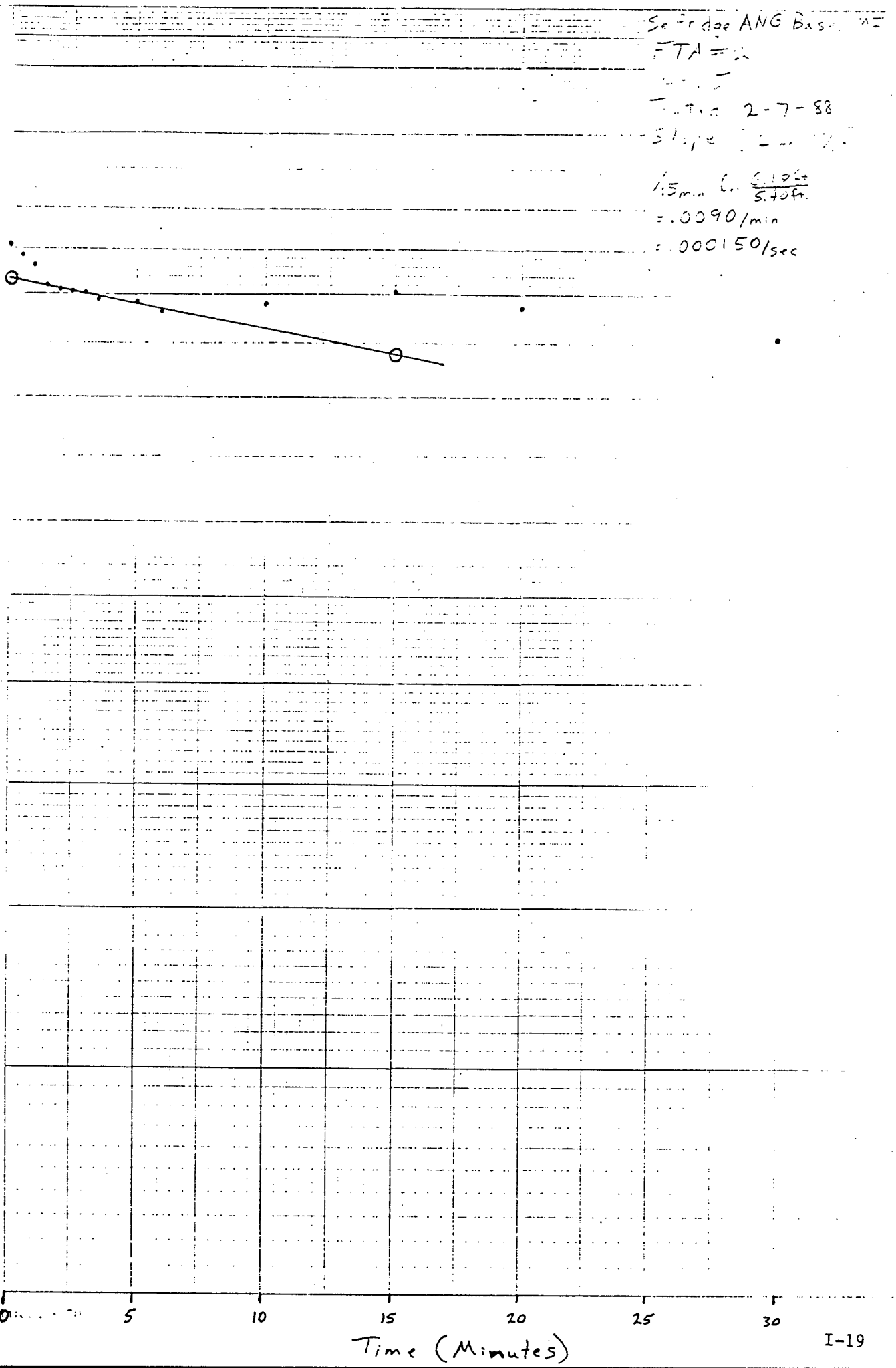


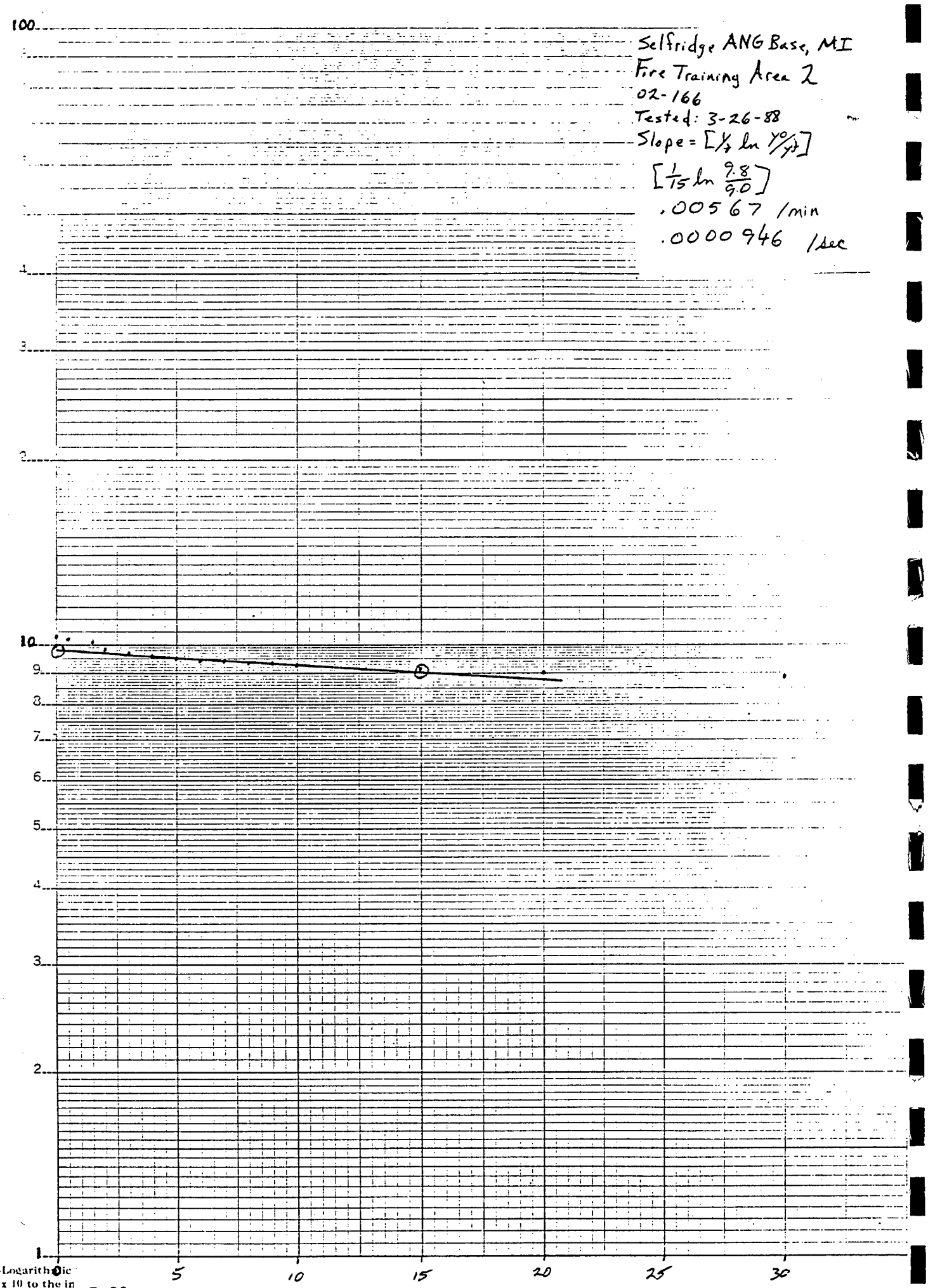
Selfridge ANGB, MI.
Southwest Landfill
01-263
Tested 5/18/88
Slope = $[Y_t \ln Y^0/Y_t]$
$\left[\frac{1}{15} \ln \frac{19.7}{19.5}\right]$
.000680 /min
.0000113 /sec

Selfridge ANG Base
FTA #2
W-64
Tested. 2-6-88
Slope 1/4 ln x.x
1/15 min ln 3.80 ft / 2.65 ft
= .0240 / min
= .000400/sec

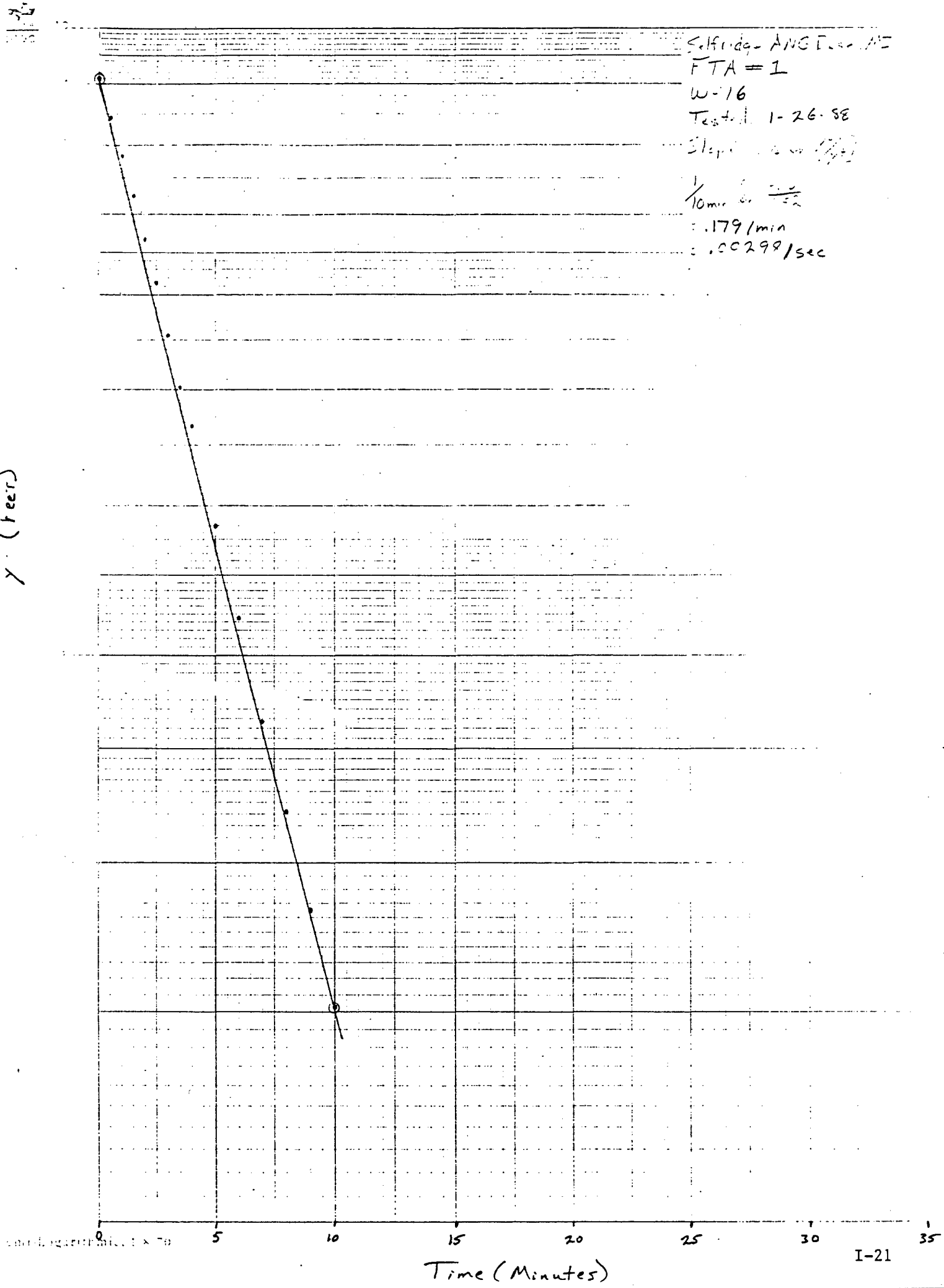


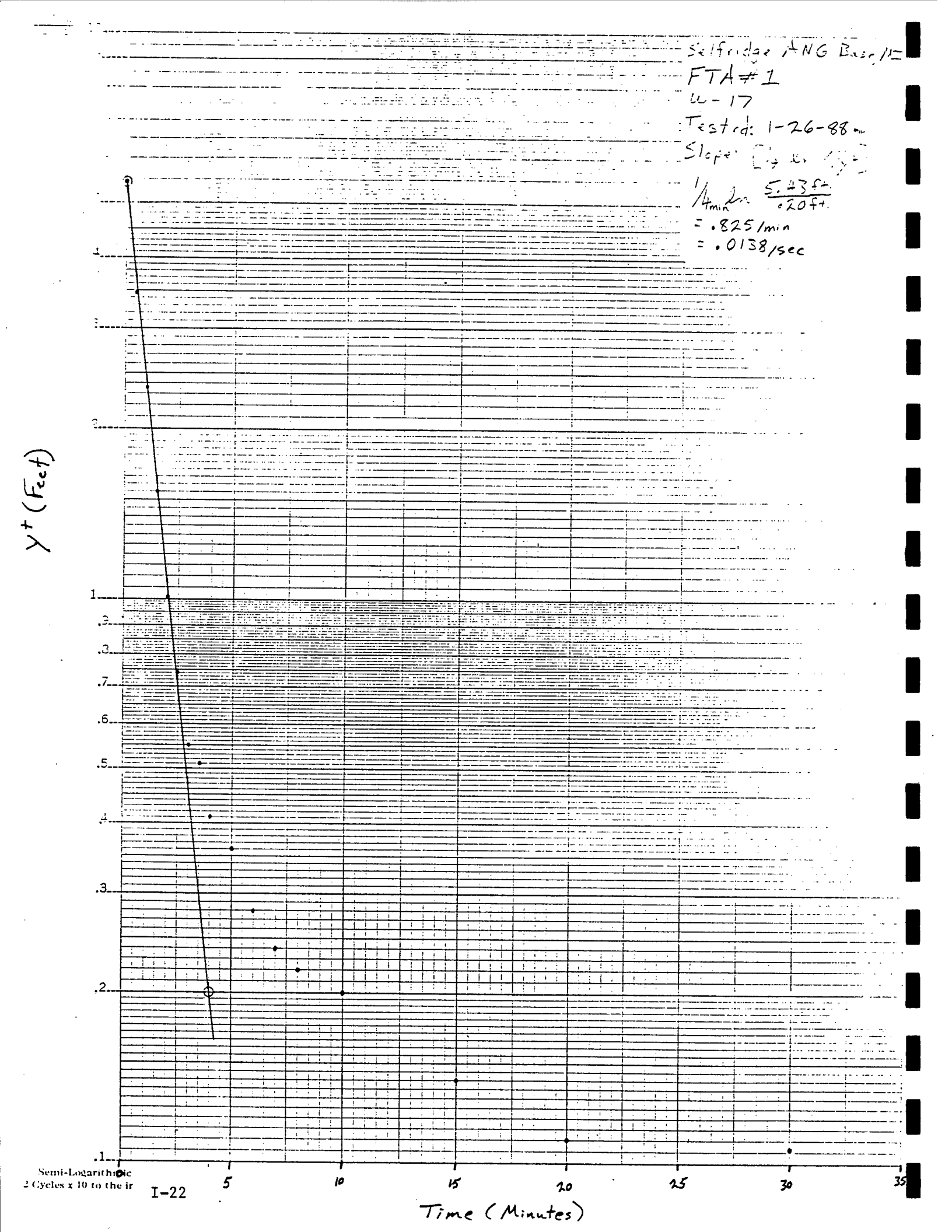
Semi-Logarithm

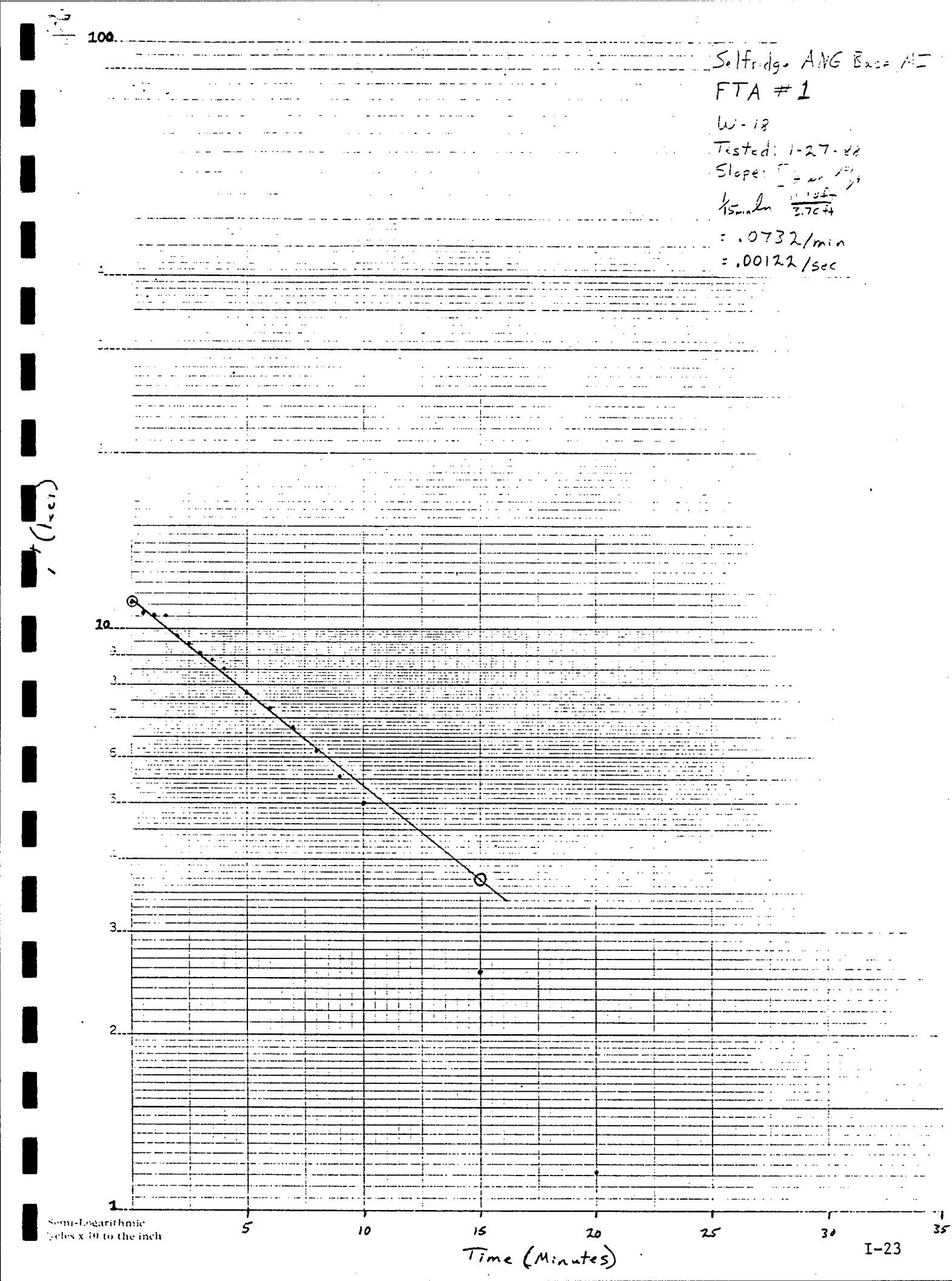

Seafrdae ANG Base
FTA
Date 2-7-88
1.5min L. 6.10ft
5.40ft
=.0090/min
=.000150/sec
1 (feet)
0
5
10
15
20
25
30
Time (Minutes)

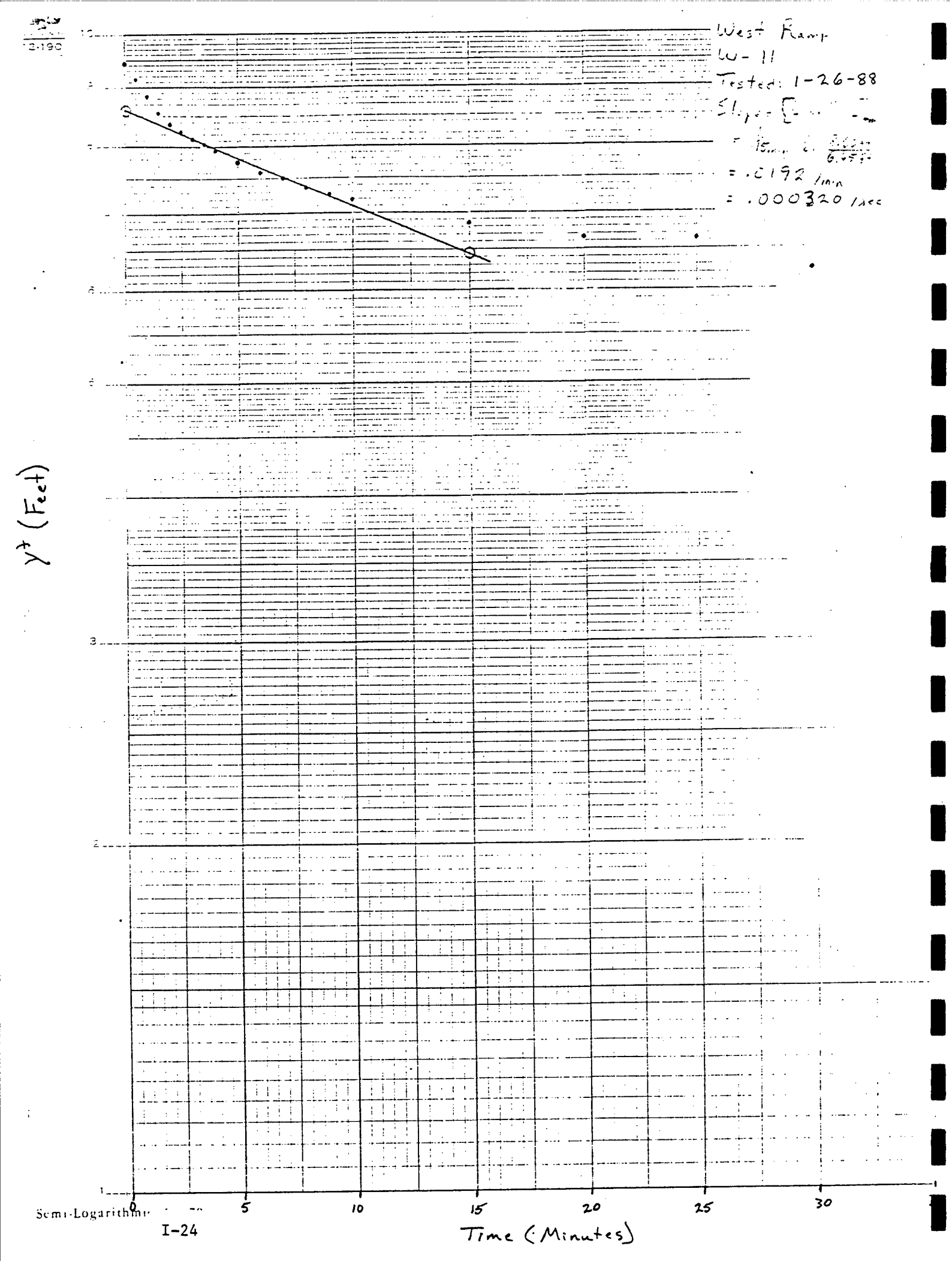


Semi-Logarithmic
2 Cycles x 10 to the in


Selfridge ANCT
FTA = 1
W-16
Test 1-26-82
1/10 min
= .179/min
= .00298/sec
γ (Deer)
0
5
10
15
20
25
30
35
Time (Minutes)

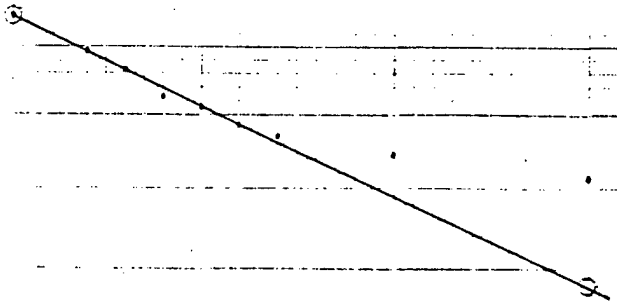

Selfridge ANG Base
FTA #1
W-17
Test'd: 1-26-88
Slope: [illegible]
1/4 min ln 5.43 ft / .20 ft.
= .825/min
= .0138/sec
y+ (Feet)
1
.9
.8
.7
.6
.5
.4
.3
.2
.1
5
10
15
20
25
30
35
Time (Minutes)
Semi-Logarithmic
2 Cycles x 10 to the ir

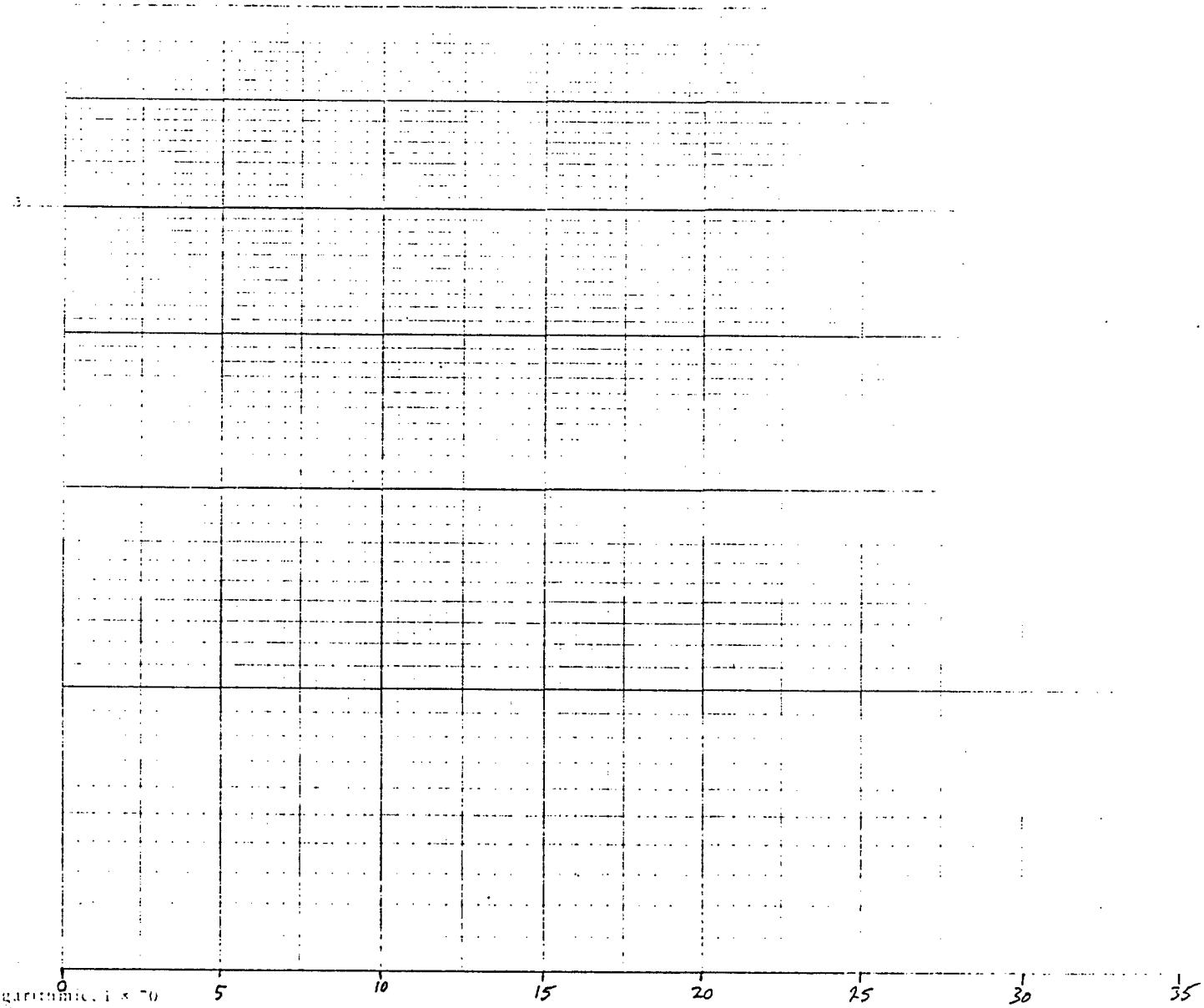

Selfridge ANG Base NE
FTA #1
W-18
Tested: 1-27-88
Slope:
1/15 min ln
= .0732/min
= .00122/sec
100
10
3
2
1
5
10
15
20
25
30
35
Time (Minutes)
Semi-Logarithmic
Cycles x 10 to the inch

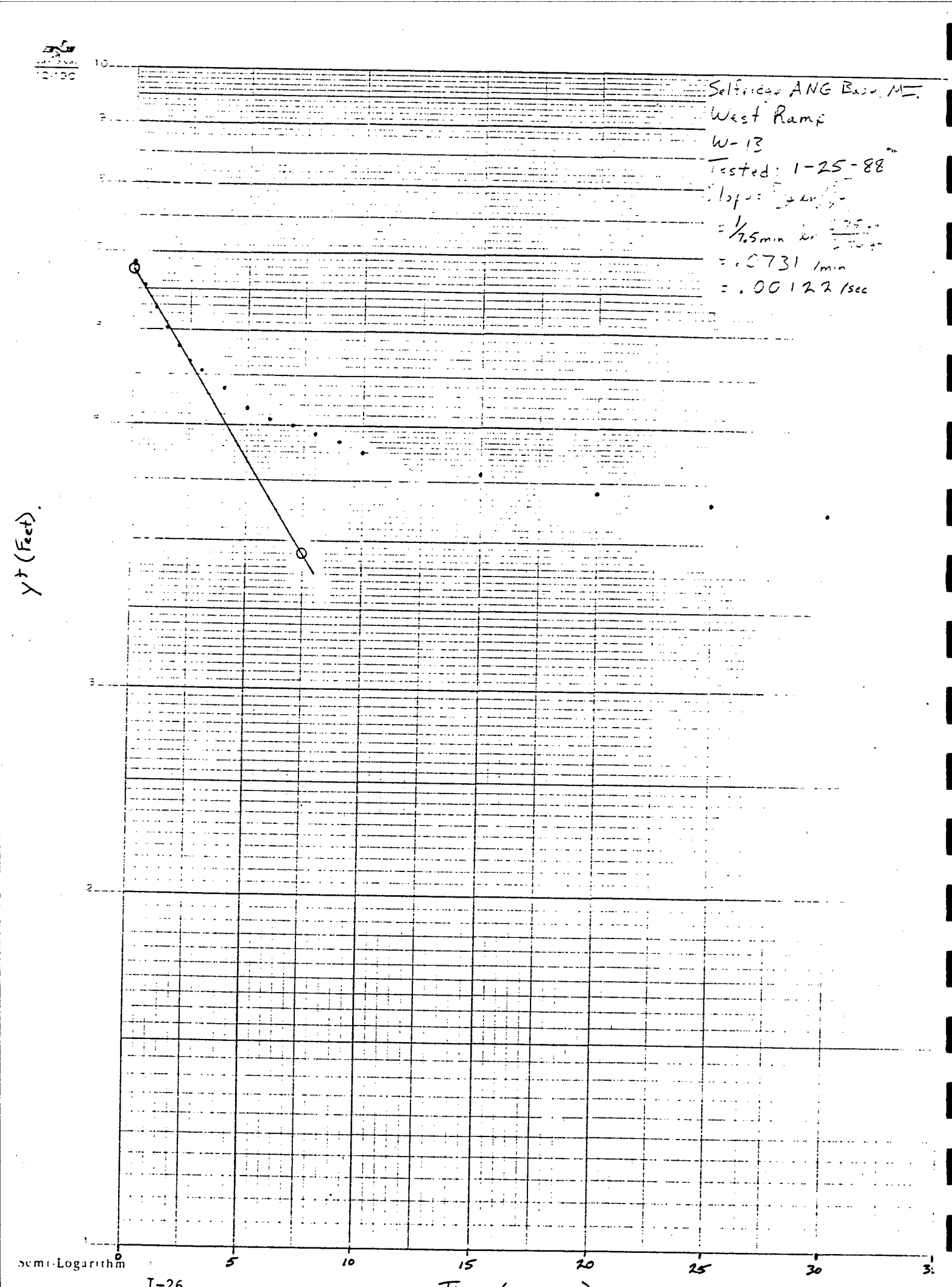


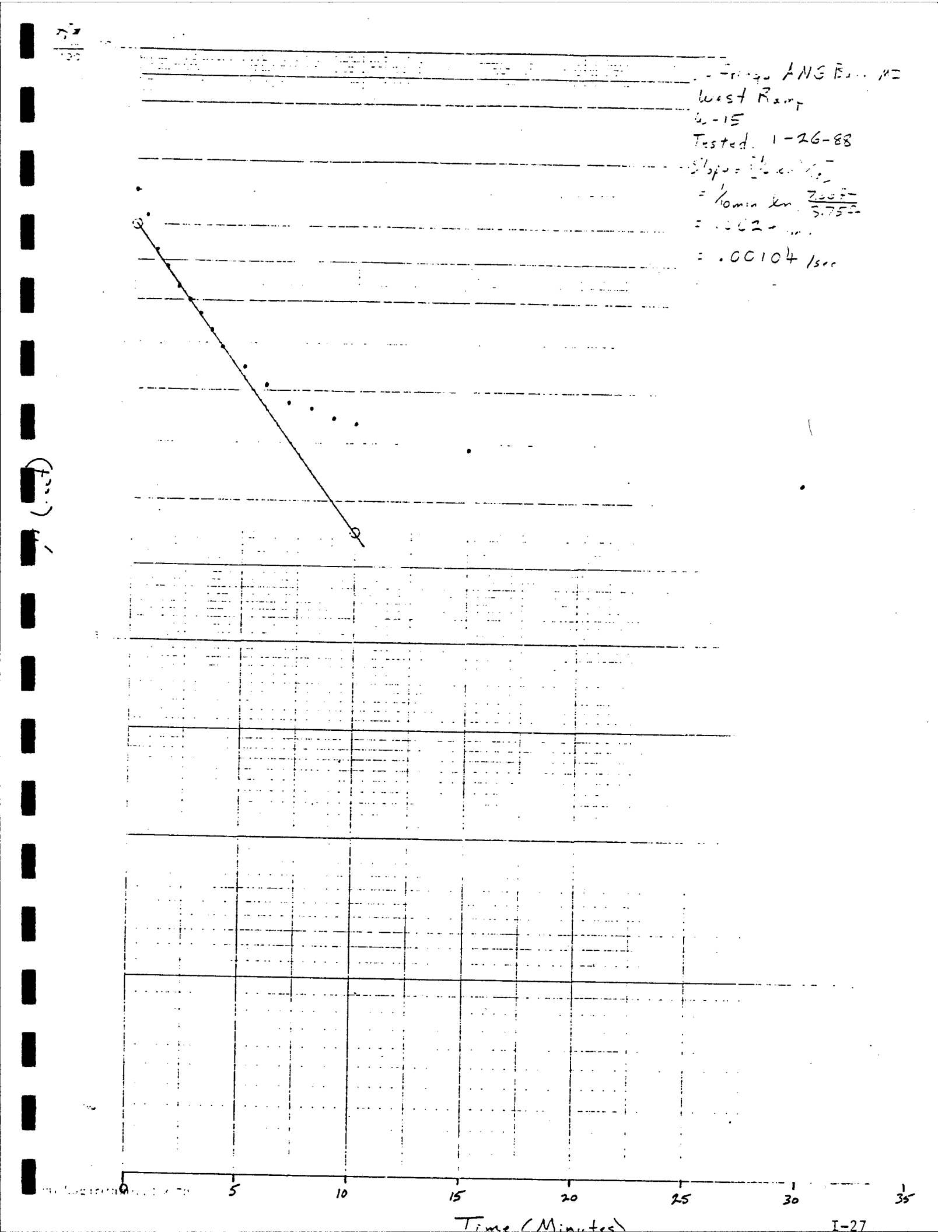
Semi-Logarithmic

Selfridge ANG Base MI
West Ramp
W-12
Tested: 1-26-88
Slope = [¼ in / 4.90 ft]
= 1/15 min / 4.90 ft
= .0214 /min
= .000356 /sec



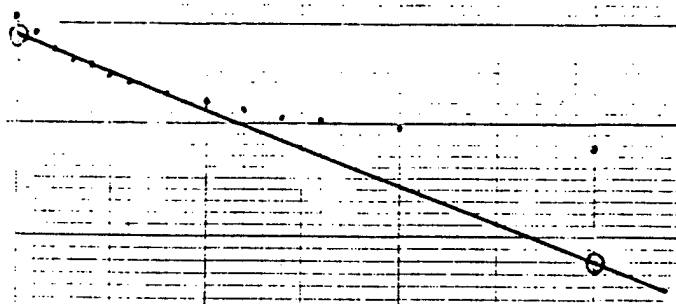



Selfridge ANG Base, MI.
West Ramp
W-13
Tested: 1-25-88
Slope = 1/13.5min
= .0731 /min
= .00122 /sec
y (Feet)
10
9
8
7
6
5
4
3
2
1
0
5
10
15
20
25
30
3
Semi-Logarithm



I-27

Selfridge ANG Base, MI
West Ramp
04-148
Tested: 3-23-88
Slope = $[\frac{1}{t} \ln \frac{y_0}{y_t}]$
$= [\frac{1}{15} \ln \frac{4.44}{3.40}]$
$= .0178$ 1/min
$= .000297$ 1/sec



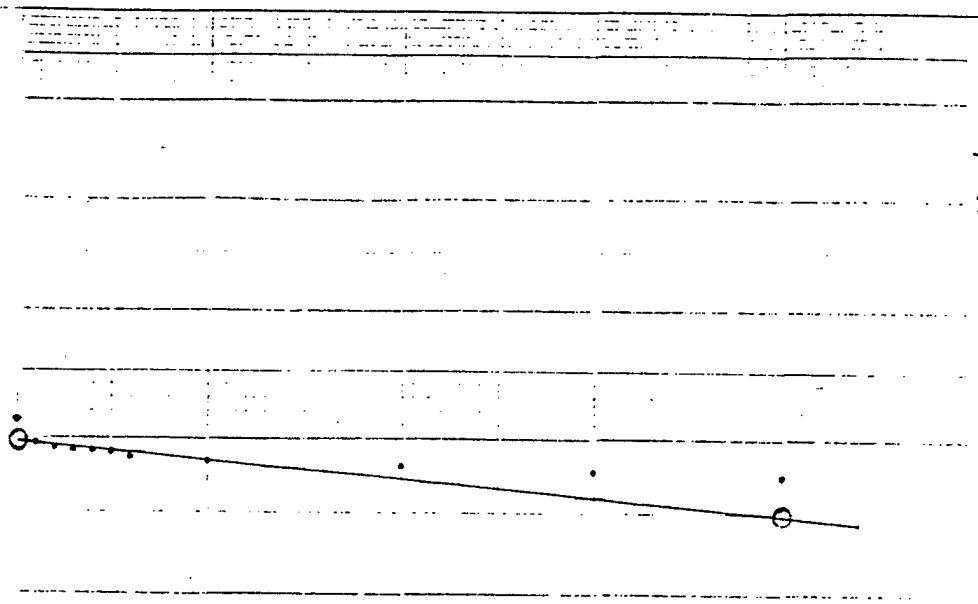
y^* (feet)

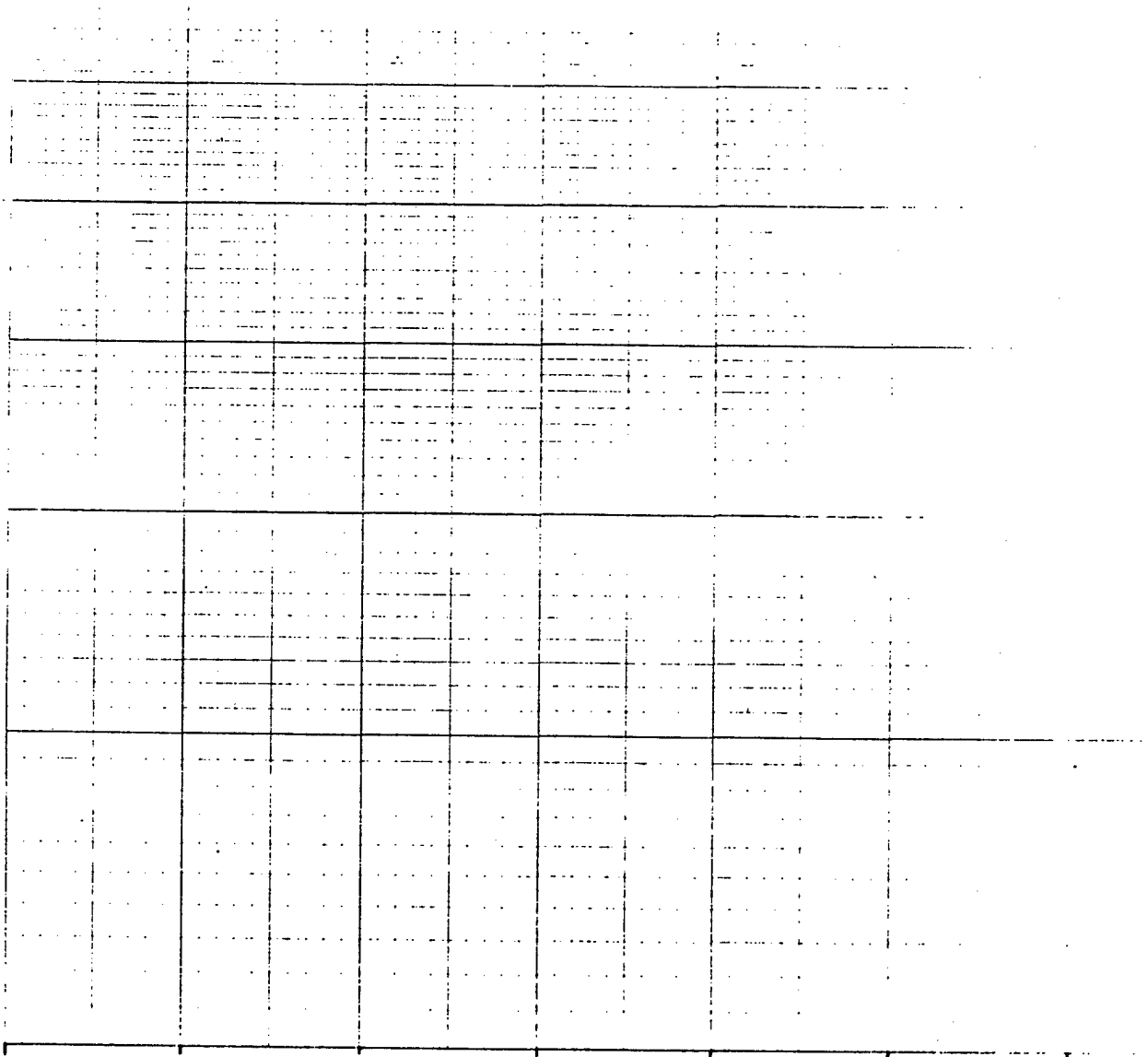
10
9
8
7
6
5
4
3
2
1
0

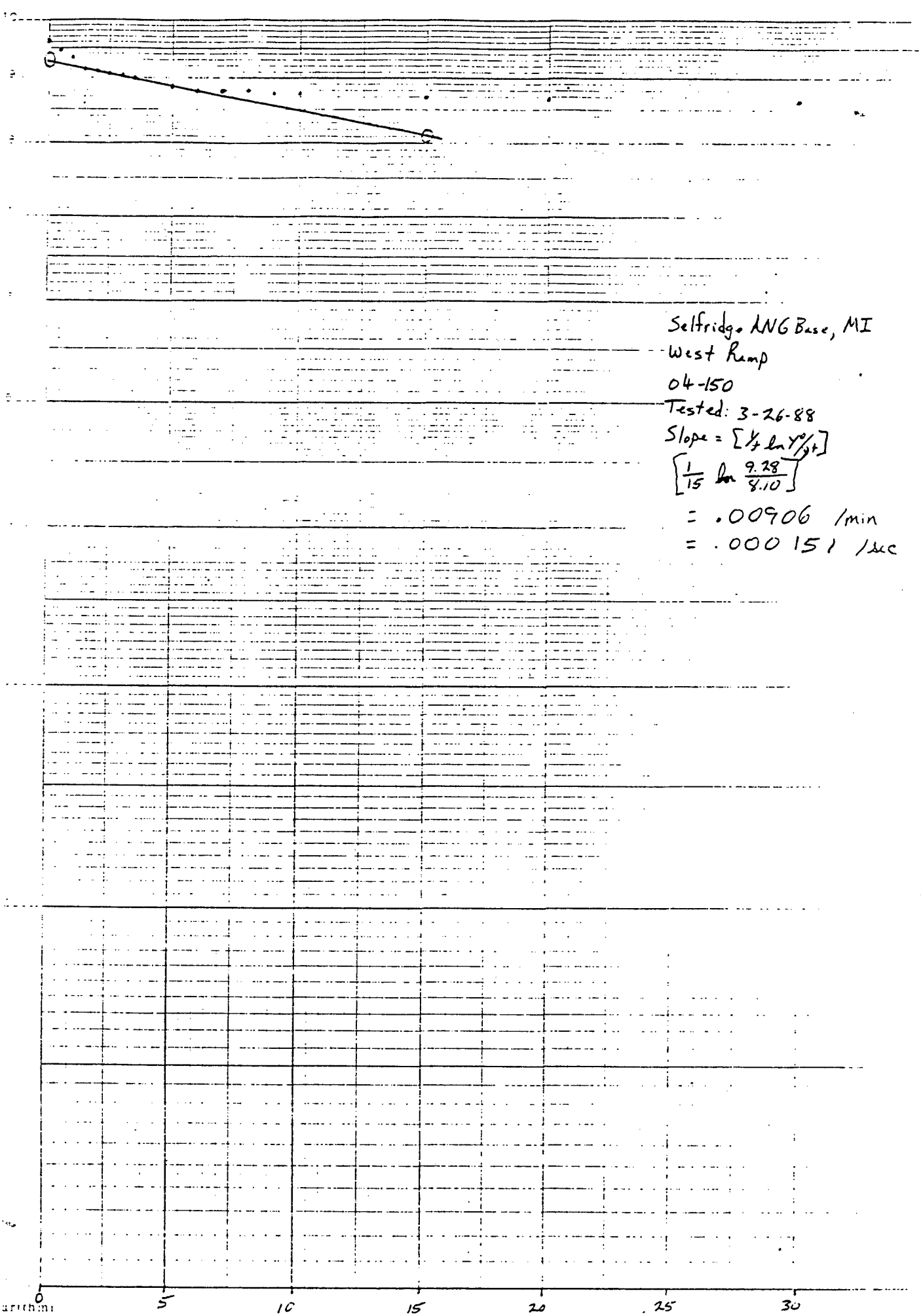
0 5 10 15 20 25 30

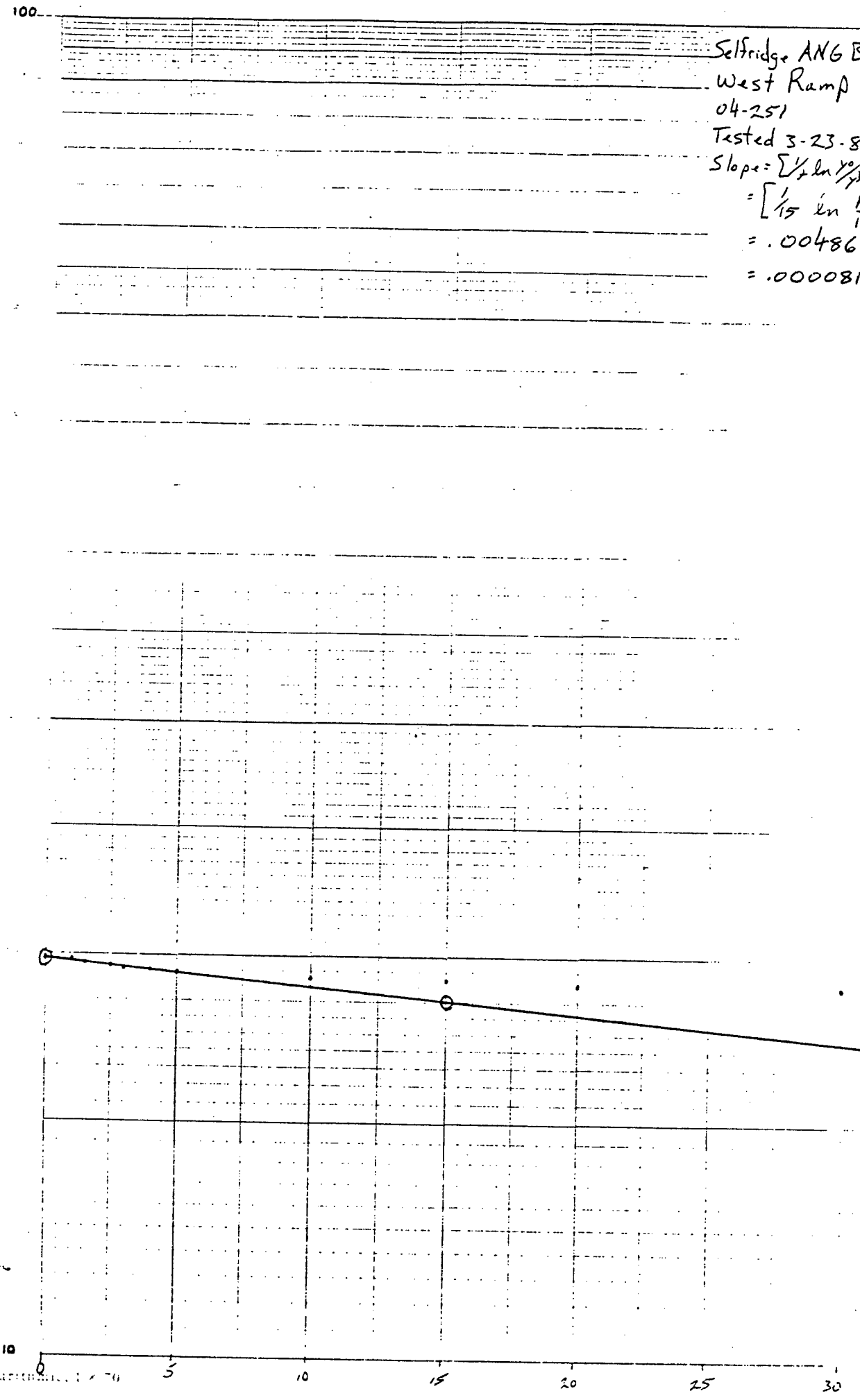
Time (min)

Semi-Logarithmic

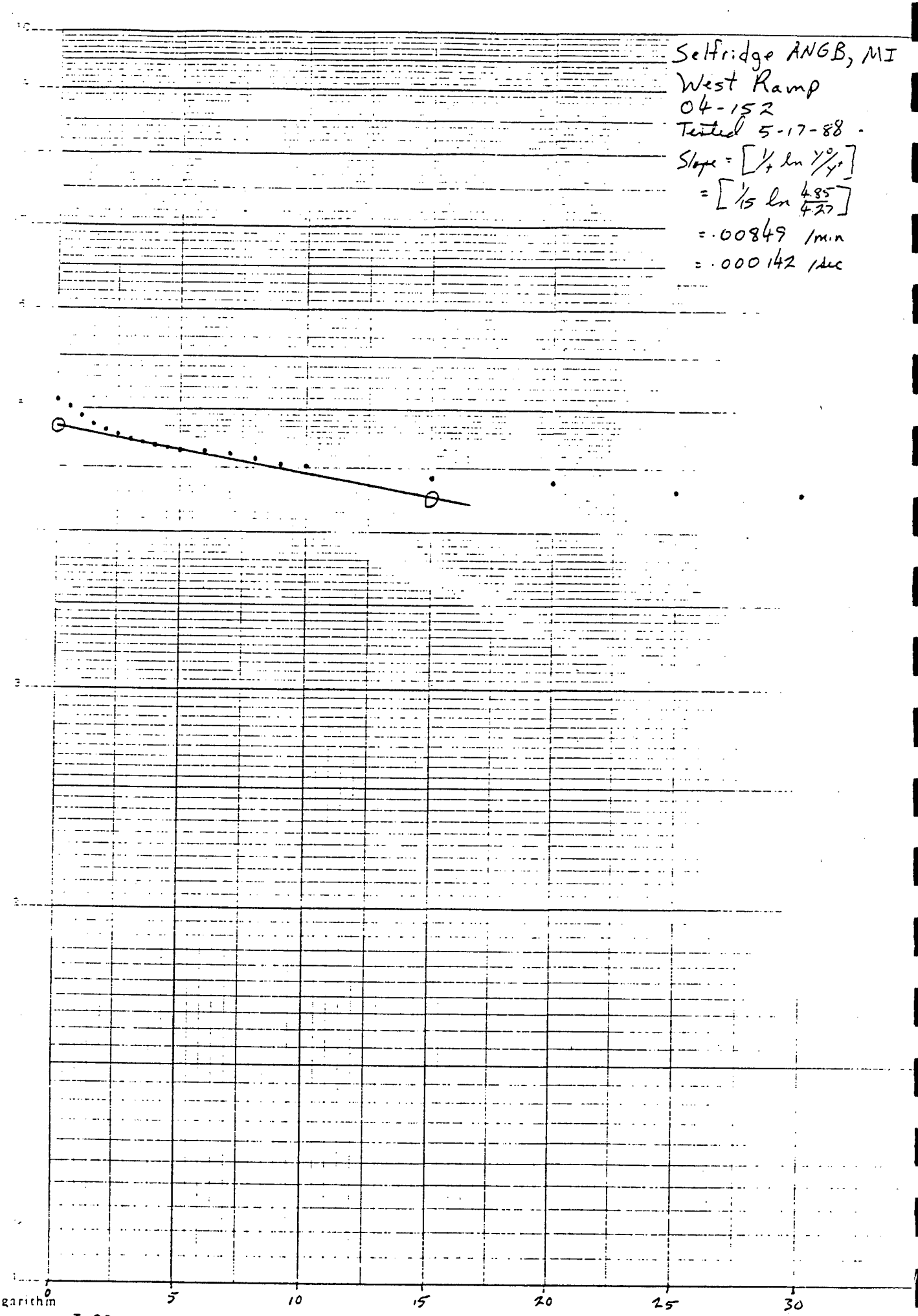

West Ramp
Test #1 2-8-99
Slope: 1/20 in 5.98 ft
1/20 min in 5.98 ft
= .10 ft/min
= .0000717/sec


yr (Feet)
0
5
10
15
20
25
30
35

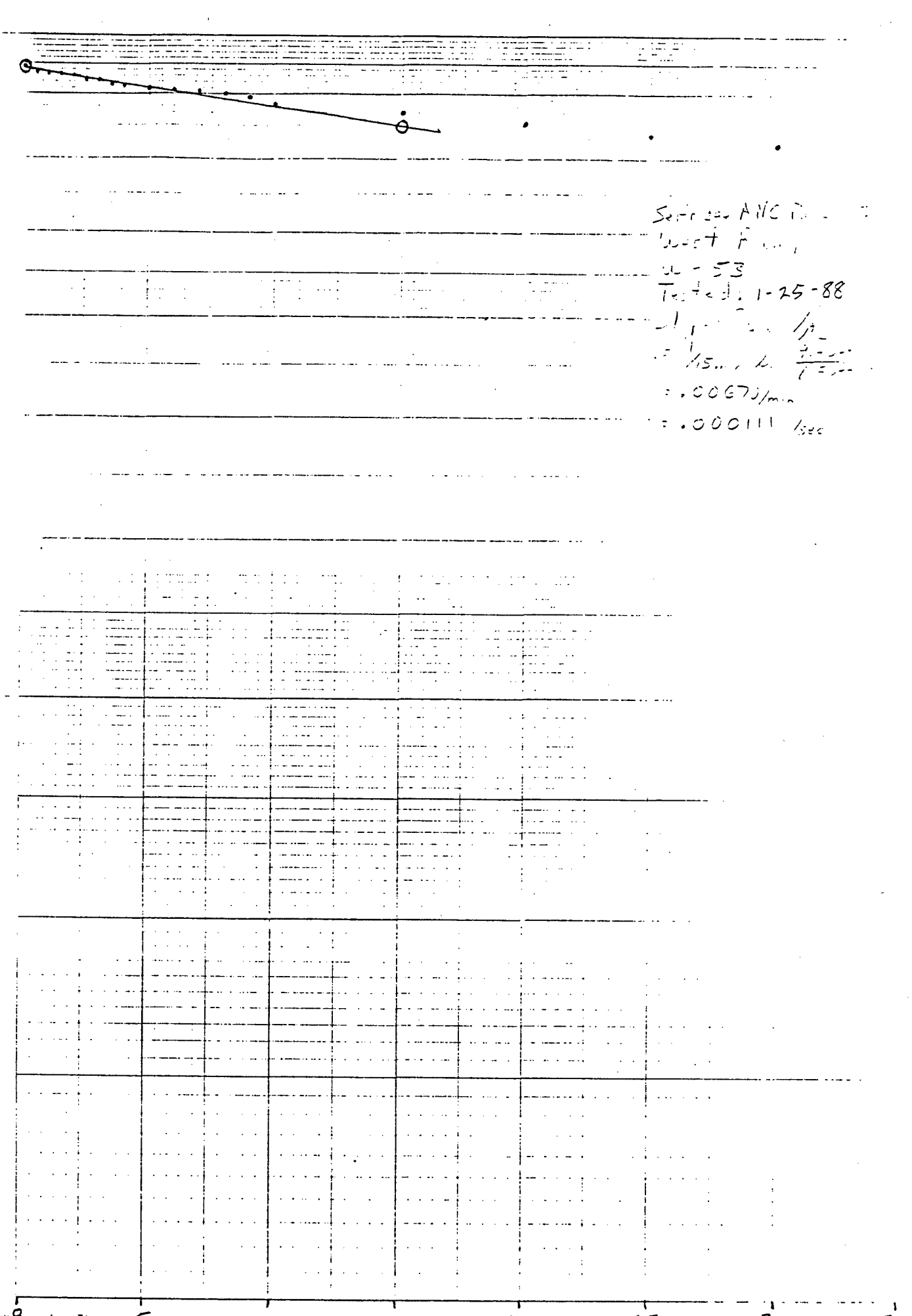

Selfridge ANG Base, MI
West Ramp
04-150
Tested: 3-26-88
Slope = [1/t ln Y°/Y]
[1/15 ln 9.28/8.10]
= .00906 /min
= .000151 /sec
Y (feet)
0
5
10
15
20
25
30
Time (Minutes)
Semi-Logarithmic



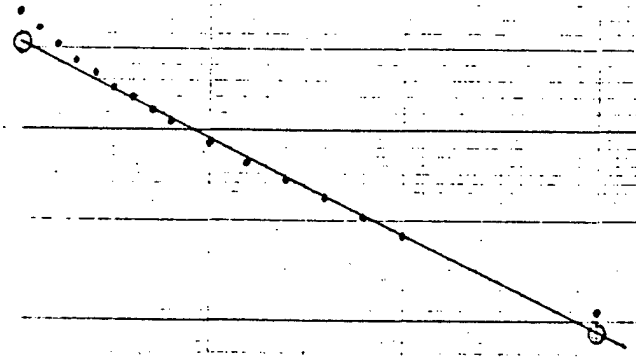
Selfridge ANG Base, MI
West Ramp
04-251
Tested 3-23-88
Slope = $[1/t \ln y_0/y_t]$
$= [\frac{1}{15} \ln \frac{199}{185}]$
$= .00486$ /min
$= .0000810$ /sec



Semi-Logarithm


Test Hole No. 53
Tested: 1-25-88
Q = .0067 l/min
= .000111 l/sec
, (Feet)
5
10
15
20
25
30
35

Solid Waste ANG Landfill
Test Ramp
W-5+
Tested: 1-25-88
Slope = [illegible] in
- 1/15 min hr [illegible]
= .022+ /min
= .00037+ /sec

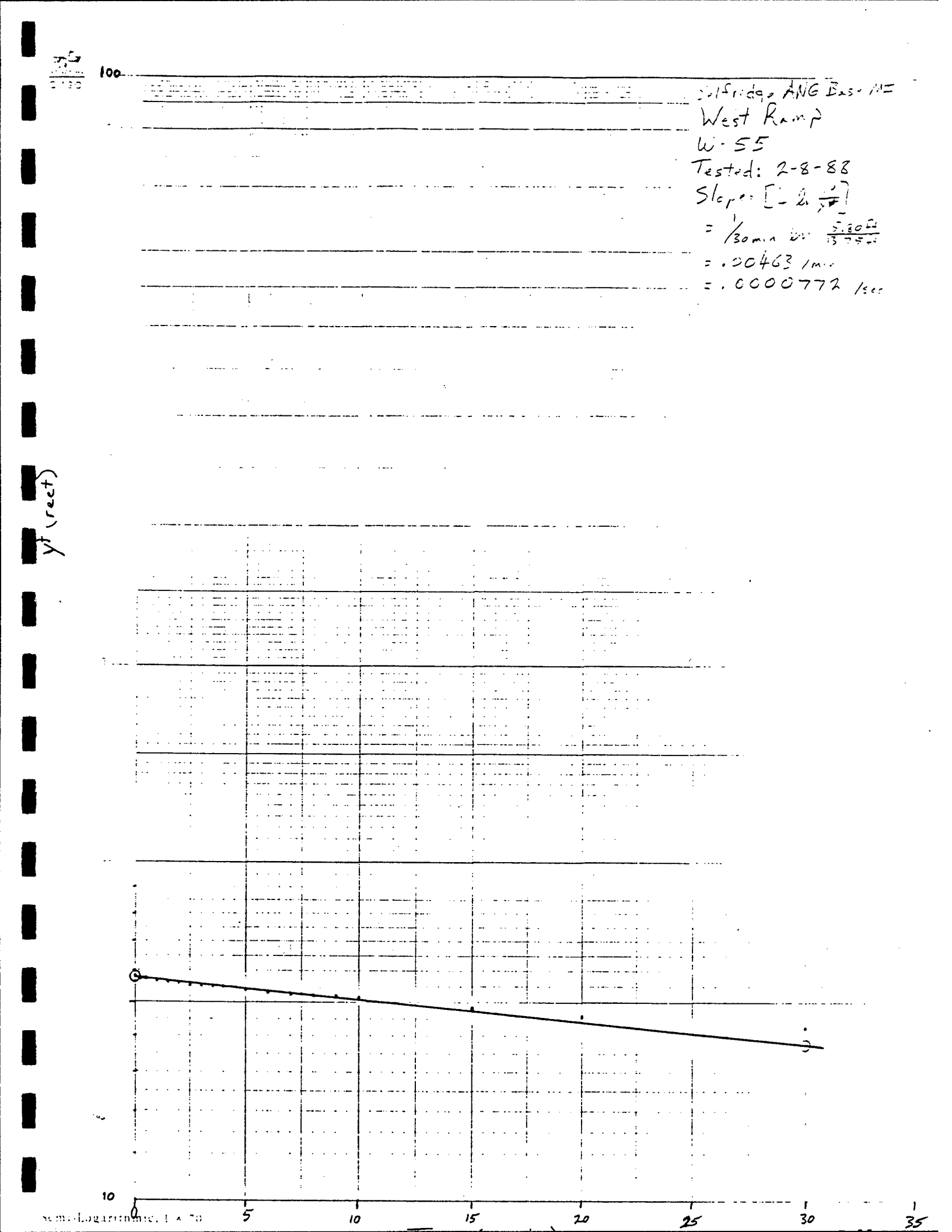


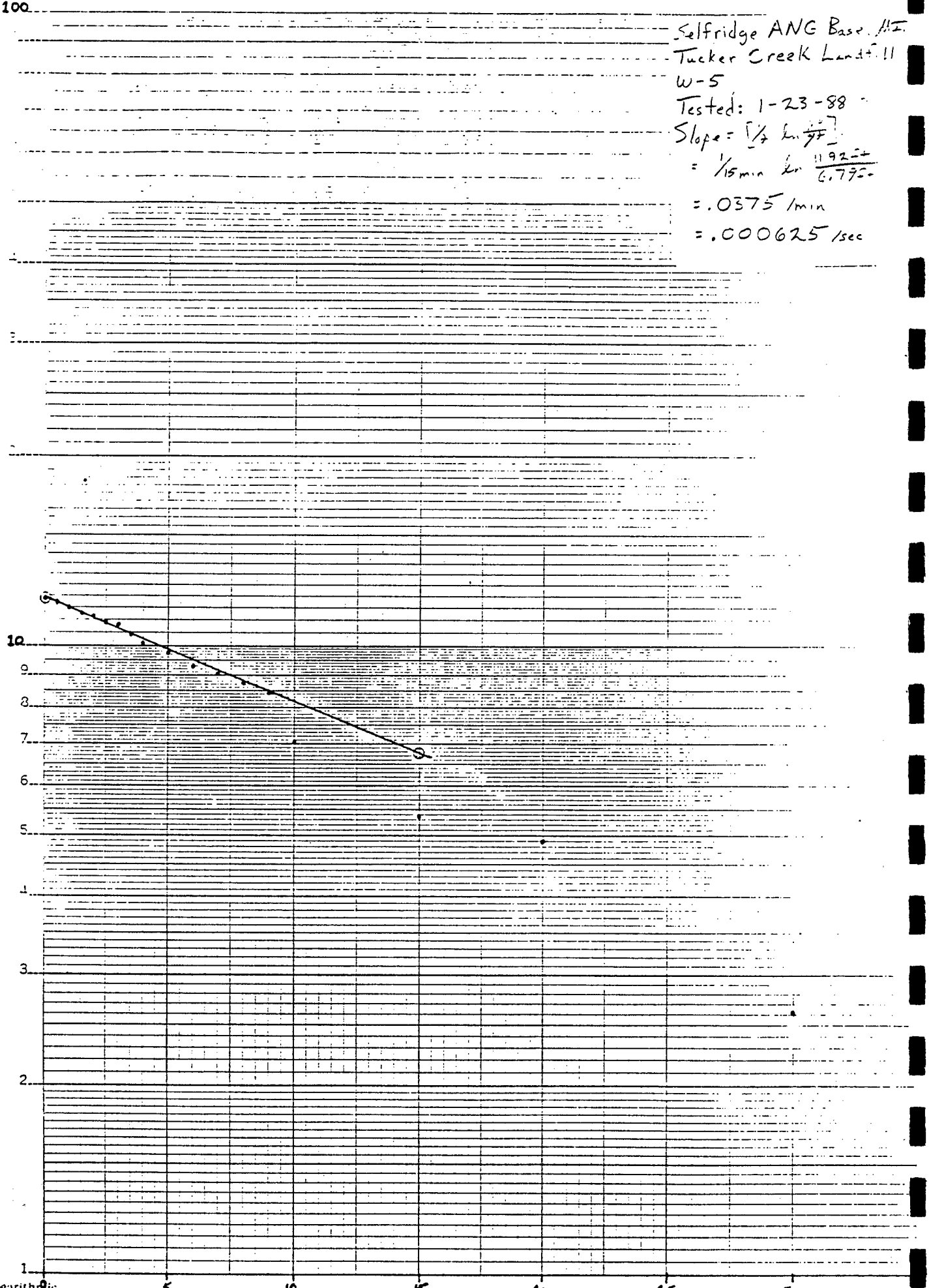
y' (Feet)

Semi-Logarithmic

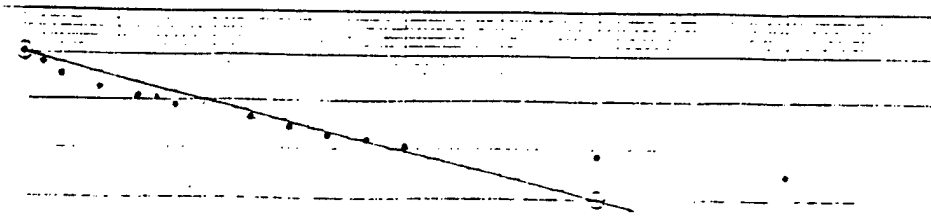
5 10 15 20 25 30 3

Time (Minutes)


100
10
y* (rect)
0
5
10
15
20
25
30
35
Selfridge ANG Base ME
West Ramp
W-55
Tested: 2-8-88
Slope: [-2 1/in]
= 1/30 min
= .00463 /min
= .0000772 /sec



Semi-Logarithmic
2 Cycles x 10 to the ir

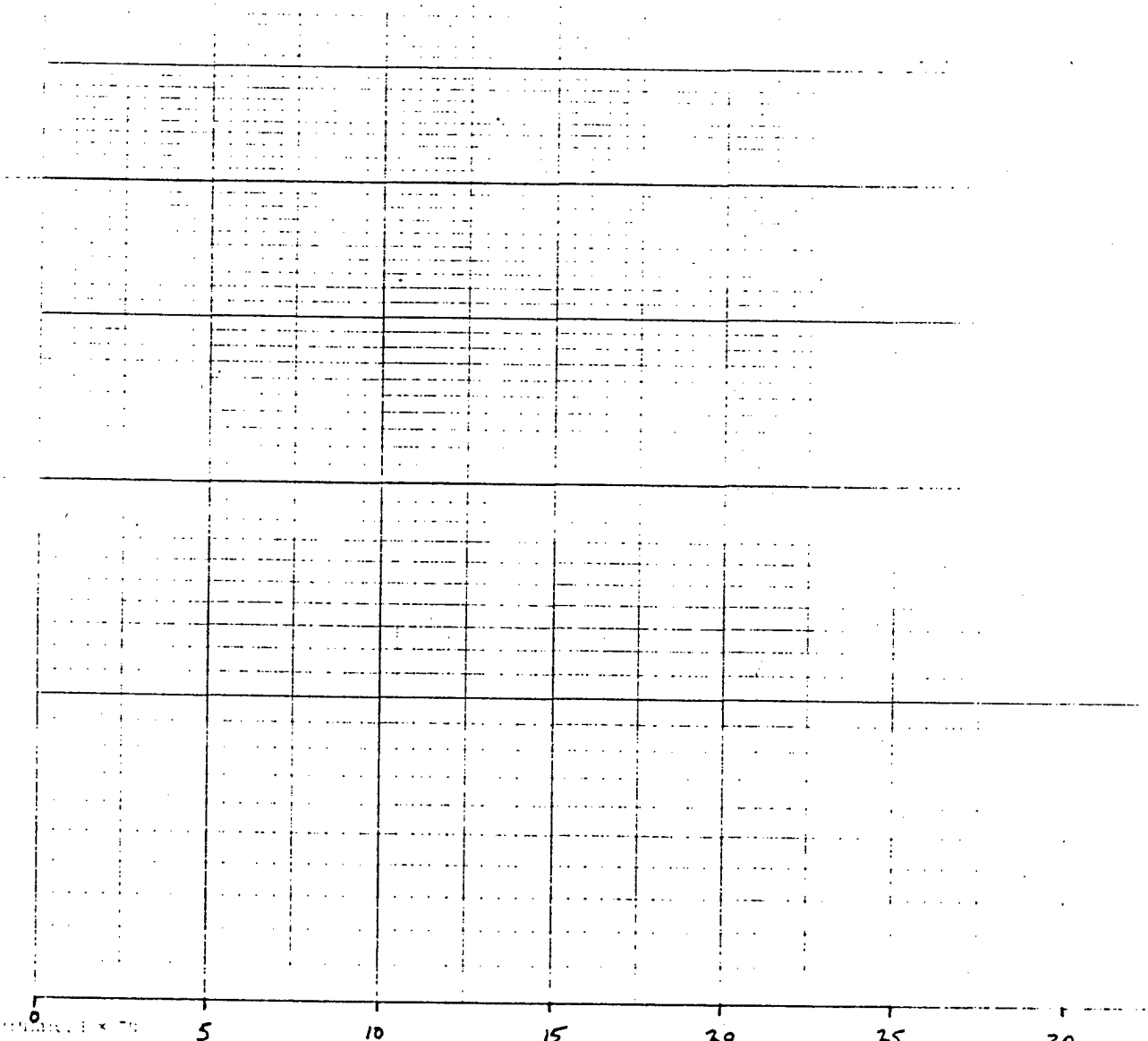


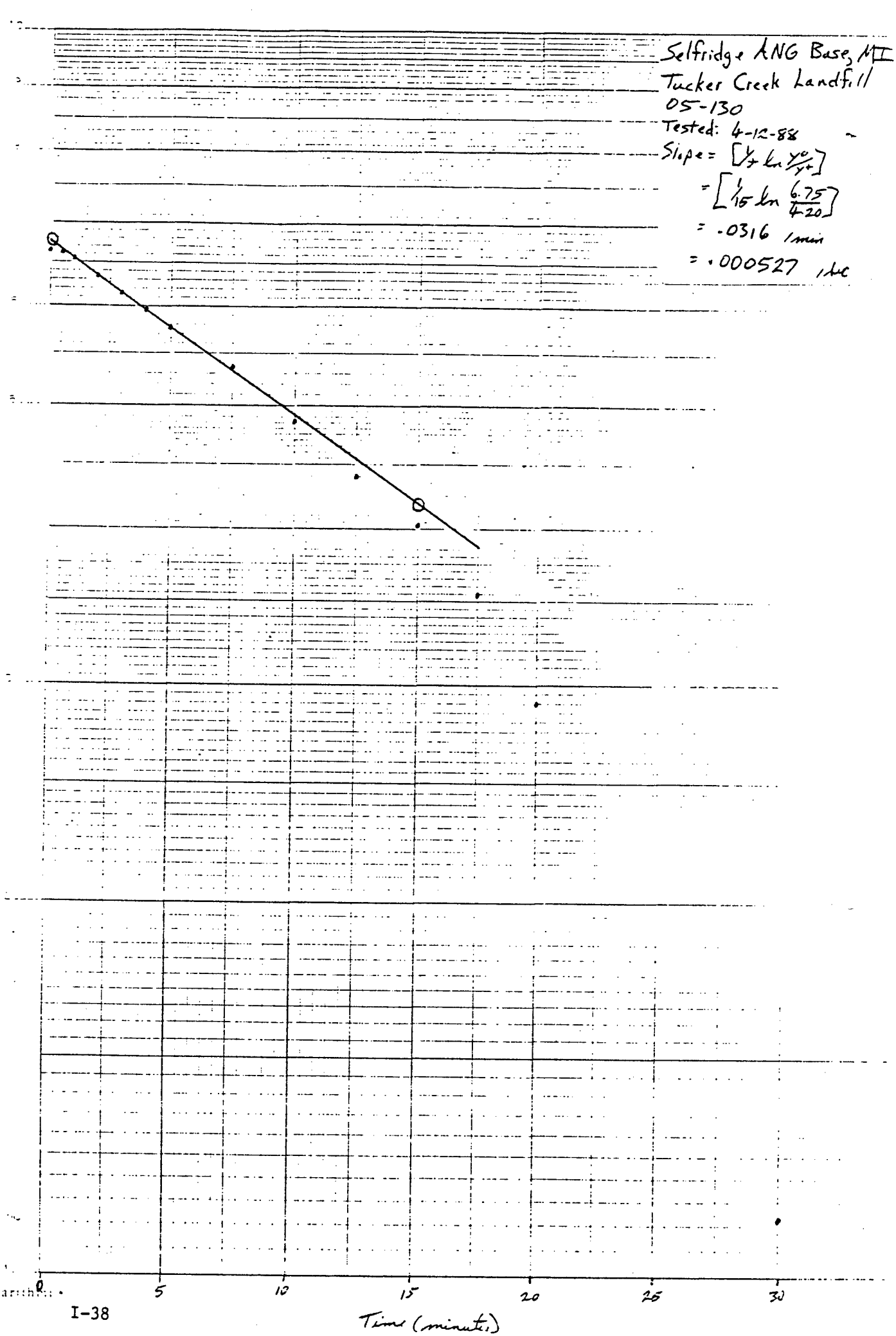
Kelfridge ENG Base Line
Tucker Creek
Tested 2-2-88
Slope Drain Inlet

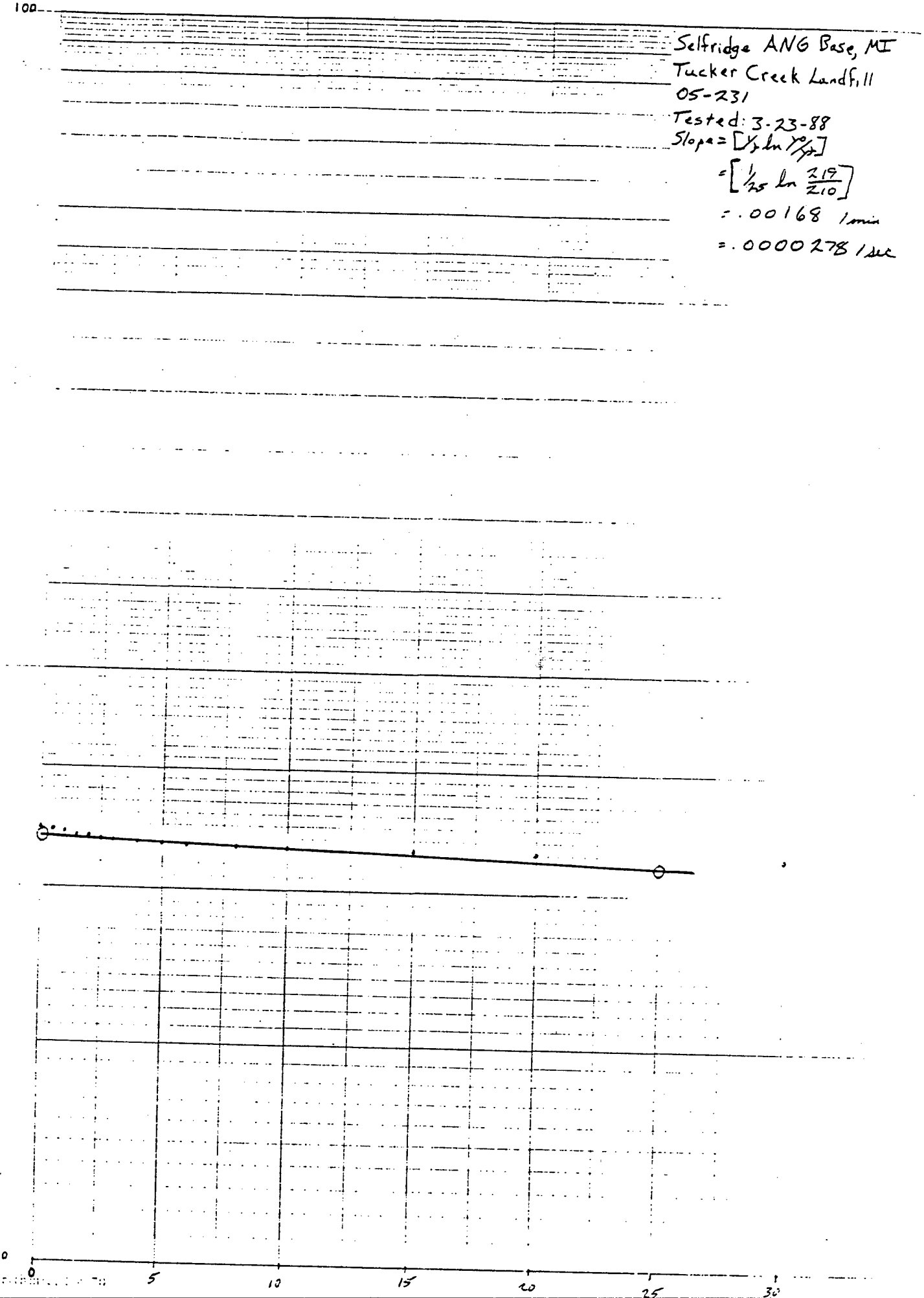
$\frac{1}{15\,min} \ln \frac{9.52}{8.30}$

$= .0115\,min$

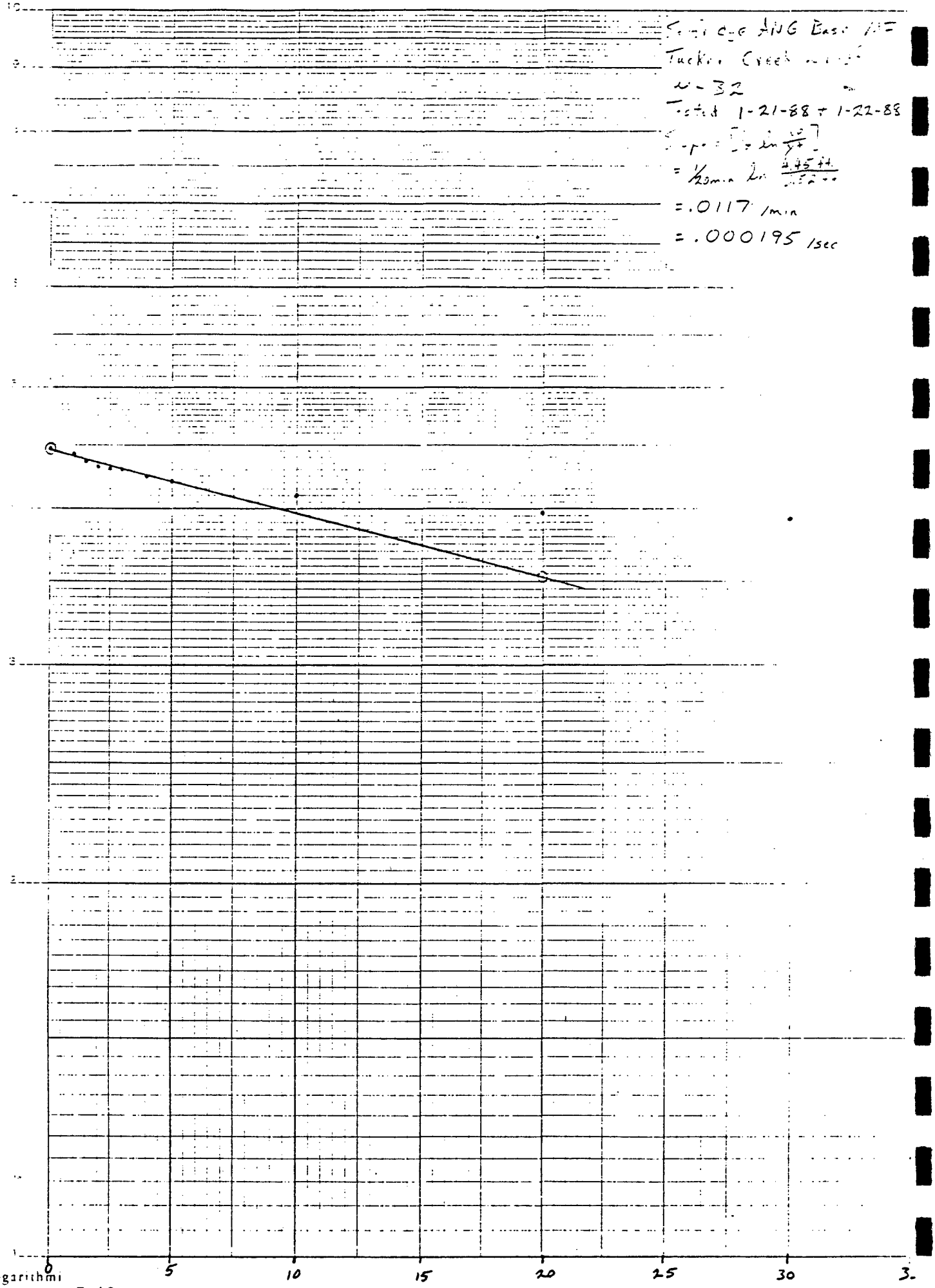
$= .000192\,sec$



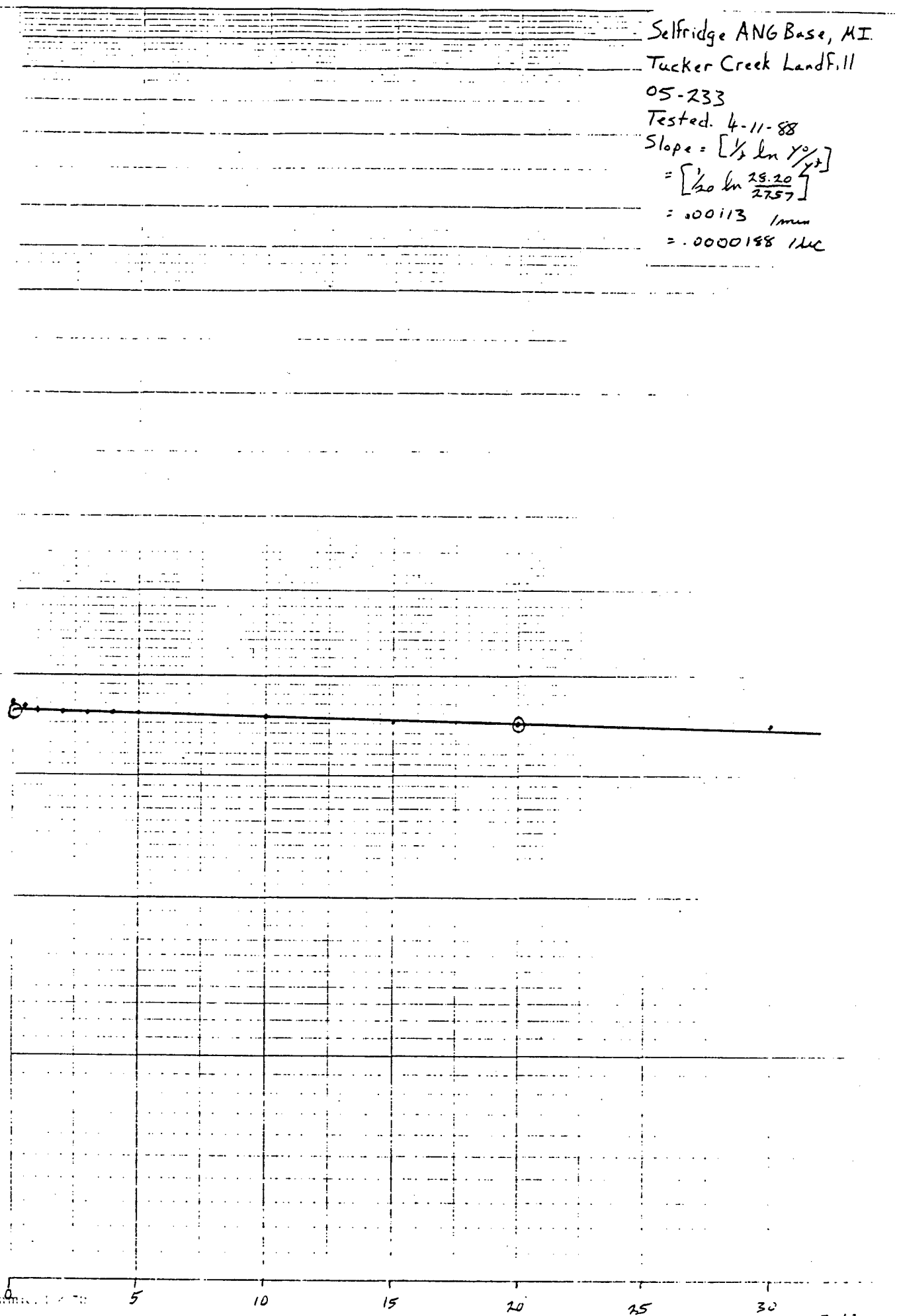

Selfridge ANG Base, MI
Tucker Creek Landfill
05-130
Tested: 4-12-88
Slope = $[\frac{1}{t} \ln \frac{y_0}{y_t}]$
$= [\frac{1}{15} \ln \frac{6.75}{4.20}]$
= .0316 /min
= .000527 /sec
y_t (feet)
0
5
10
15
20
25
30
Time (minutes)



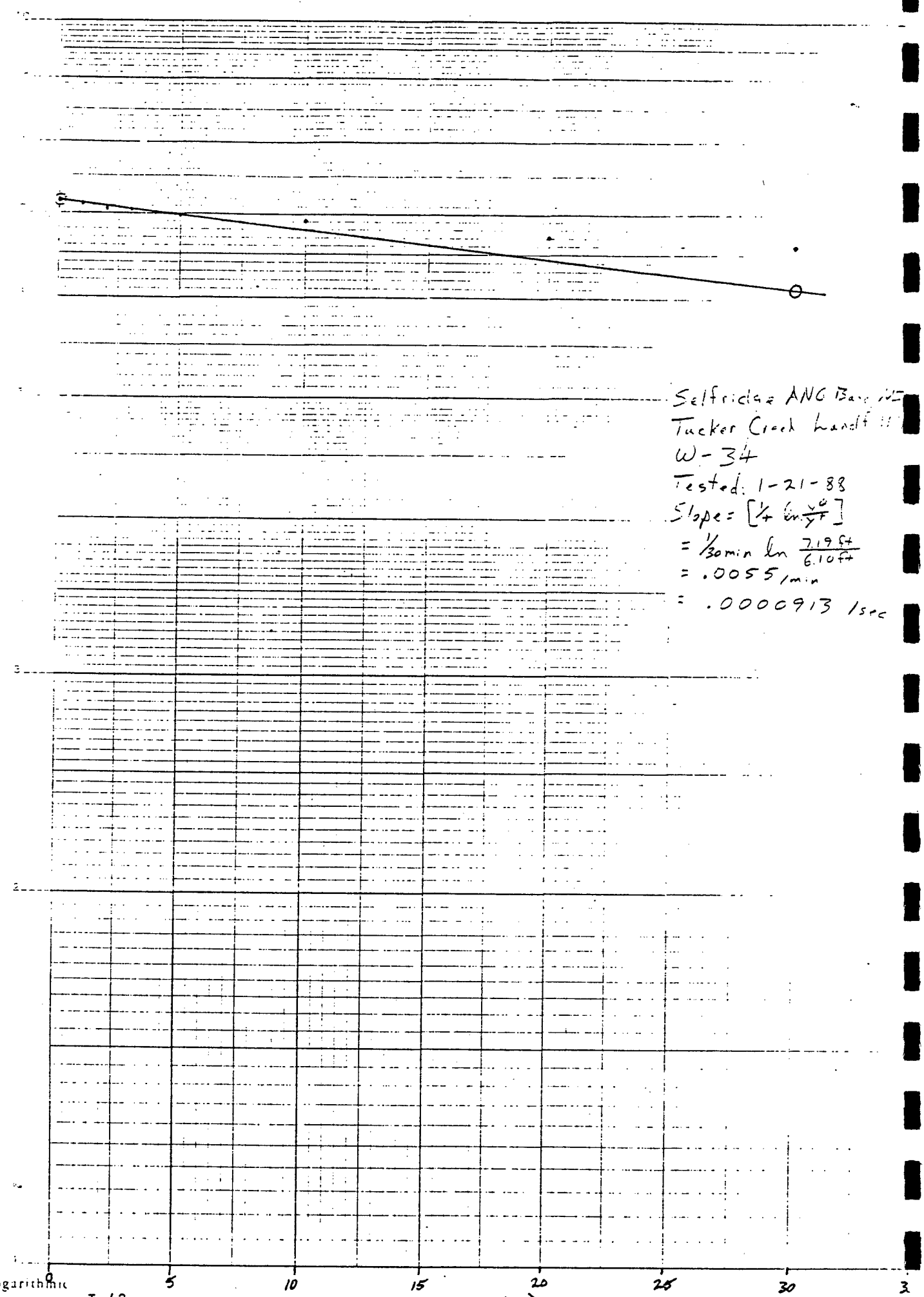
Selfridge ANG Base, MI
Tucker Creek Landfill
05-231
Tested: 3-23-88
Slope = $[\frac{1}{t_2} \ln \frac{Y_0}{Y_{t_2}}]$
$= [\frac{1}{25} \ln \frac{219}{210}]$
$= .00168$ 1/min
$= .0000278$ 1/sec

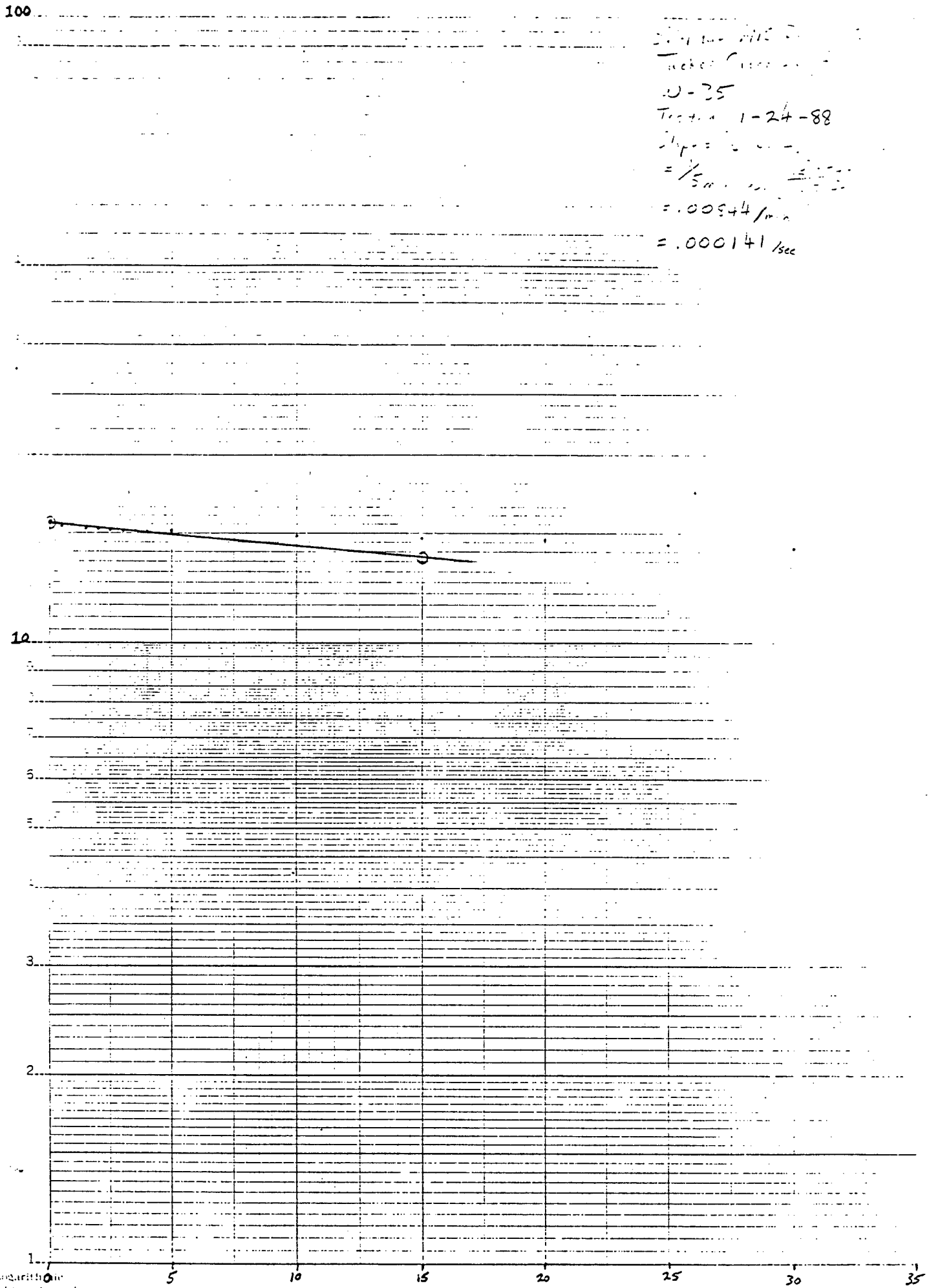


SLUG TEST BASE WELL
Tucker Creek
W-32
Tested 1-21-88 & 1-22-88
$= \frac{1}{t_2 - t_1} \ln \frac{y_1}{y_2}$
$= \frac{1}{20 \text{ min}} \ln \frac{4.45 \text{ ft}}{2.00 \text{ ft}}$
$= .0117 \text{ /min}$
$= .000195 \text{ /sec}$



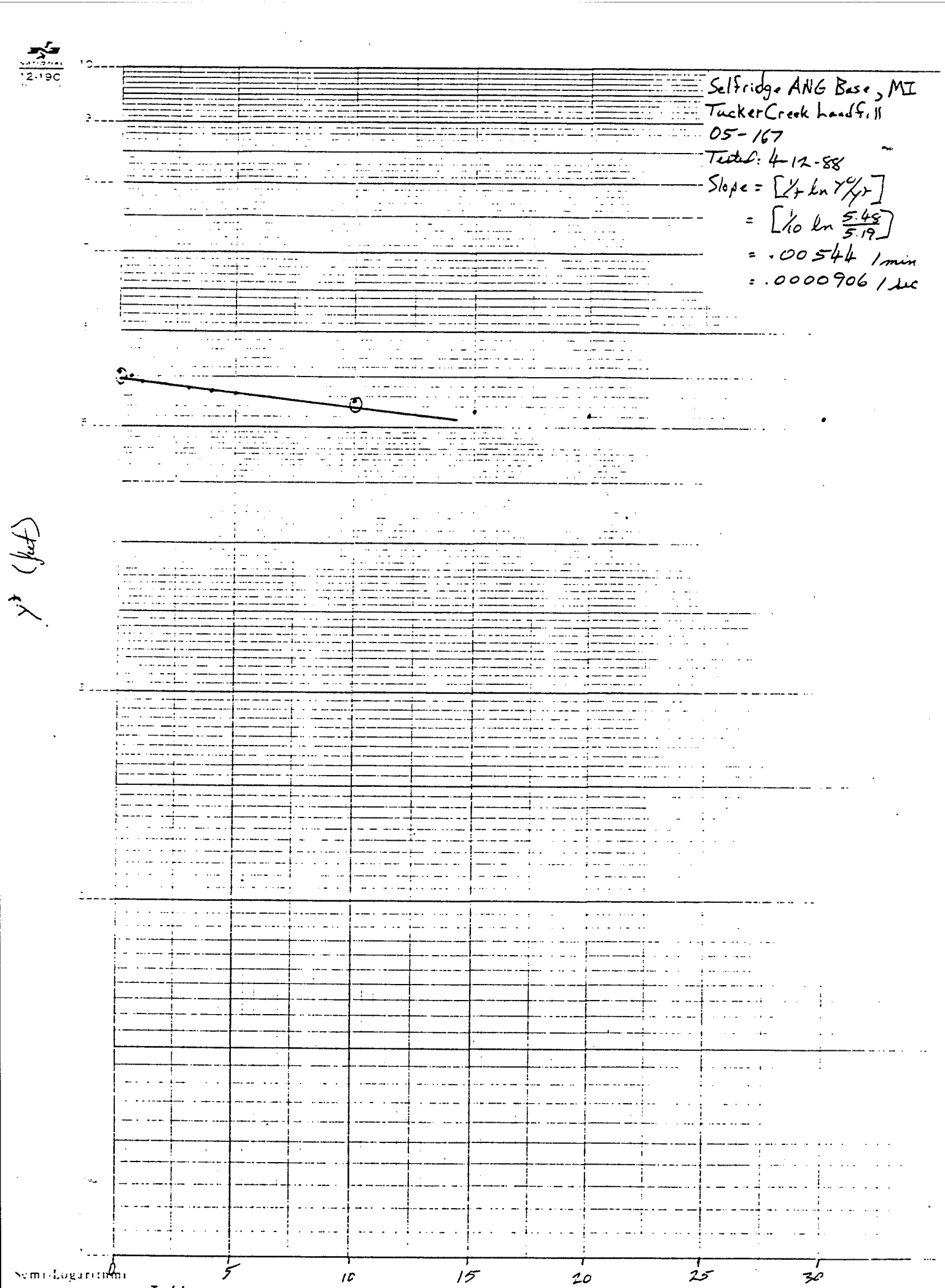
Selfridge ANG Base, MI.
Tucker Creek Landfill
05-233
Tested. 4-11-88
Slope = $[\frac{1}{t} \ln \frac{Y_0}{Y_t}]$
= $[\frac{1}{20} \ln \frac{28.20}{27.57}]$
= .00113 1/min
= .0000188 1/sec

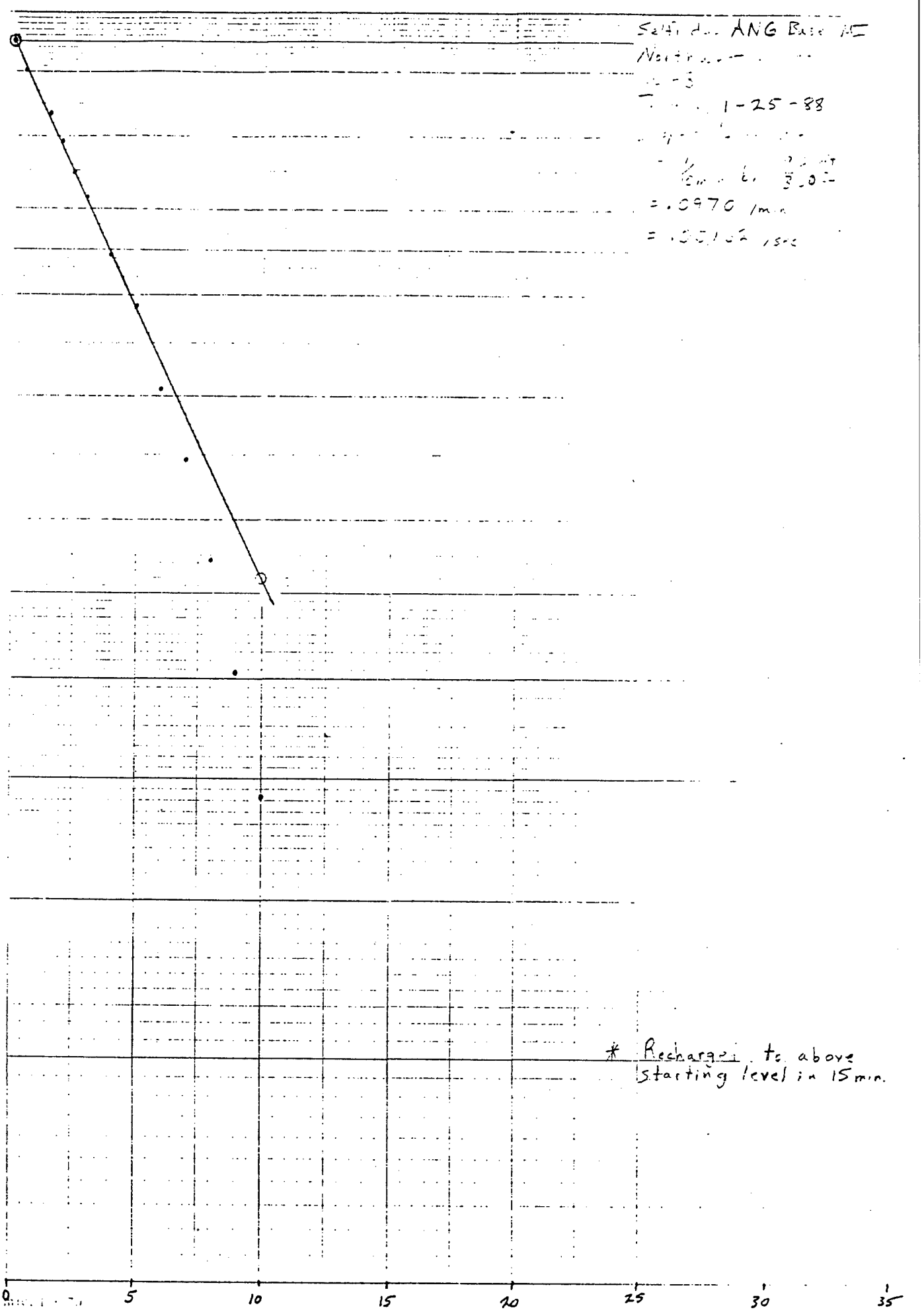

Selfridge ANG Base, MI
Tucker Creek Landfill
W-34
Tested: 1-21-88
Slope = [1/4 in. drop / ft]
= 1/30 min ln 7.19 ft / 6.10 ft
= .0055/min
= .0000913 /sec
y (Feet)
10
3
2
1
0
5
10
15
20
25
30
Time (minutes)

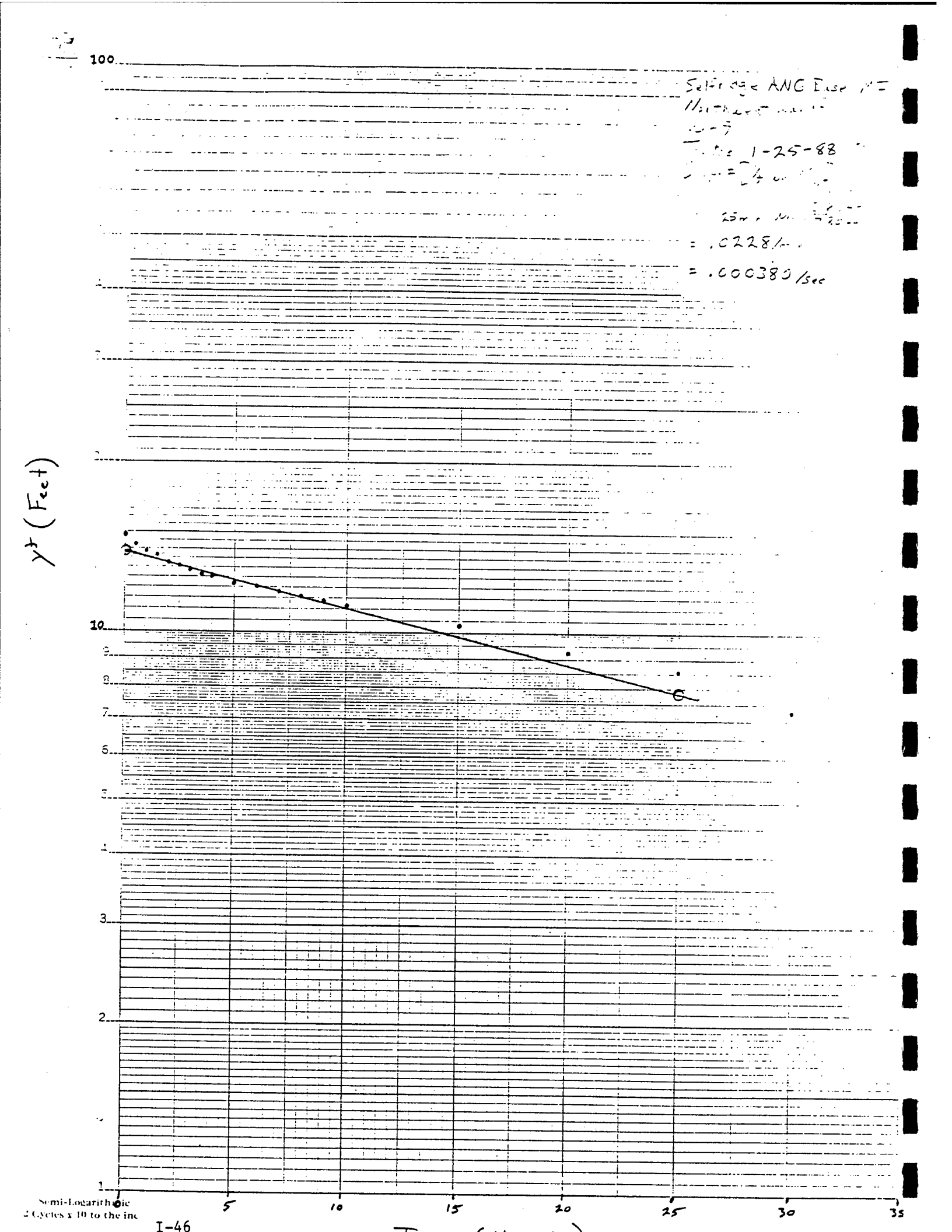


D-35
1-24-88
= .00544/min
= .000141/sec

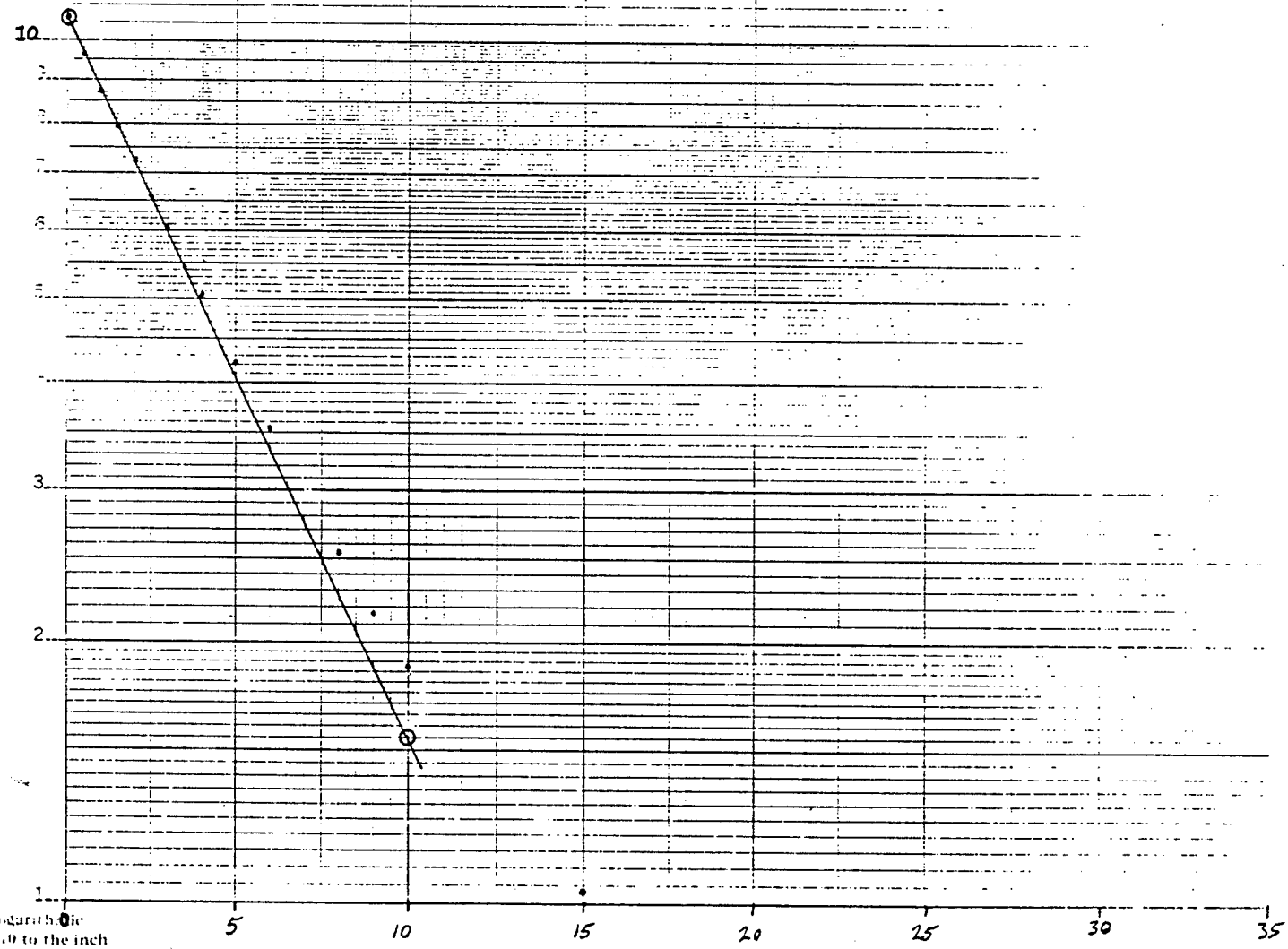
semi-logarithmic
cycles x 70 to the inch


Selfridge ANG Base, MI
Tucker Creek Landfill
05-167
Tested: 4-12-88
Slope = [1/t ln Y°/Y]
= [1/10 ln 5.48/5.19]
= .00544 /min
= .0000906 /sec
y (feet)
10
9
8
7
6
5
4
3
2
1
0
5
10
15
20
25
30
Semi-Logarithmic

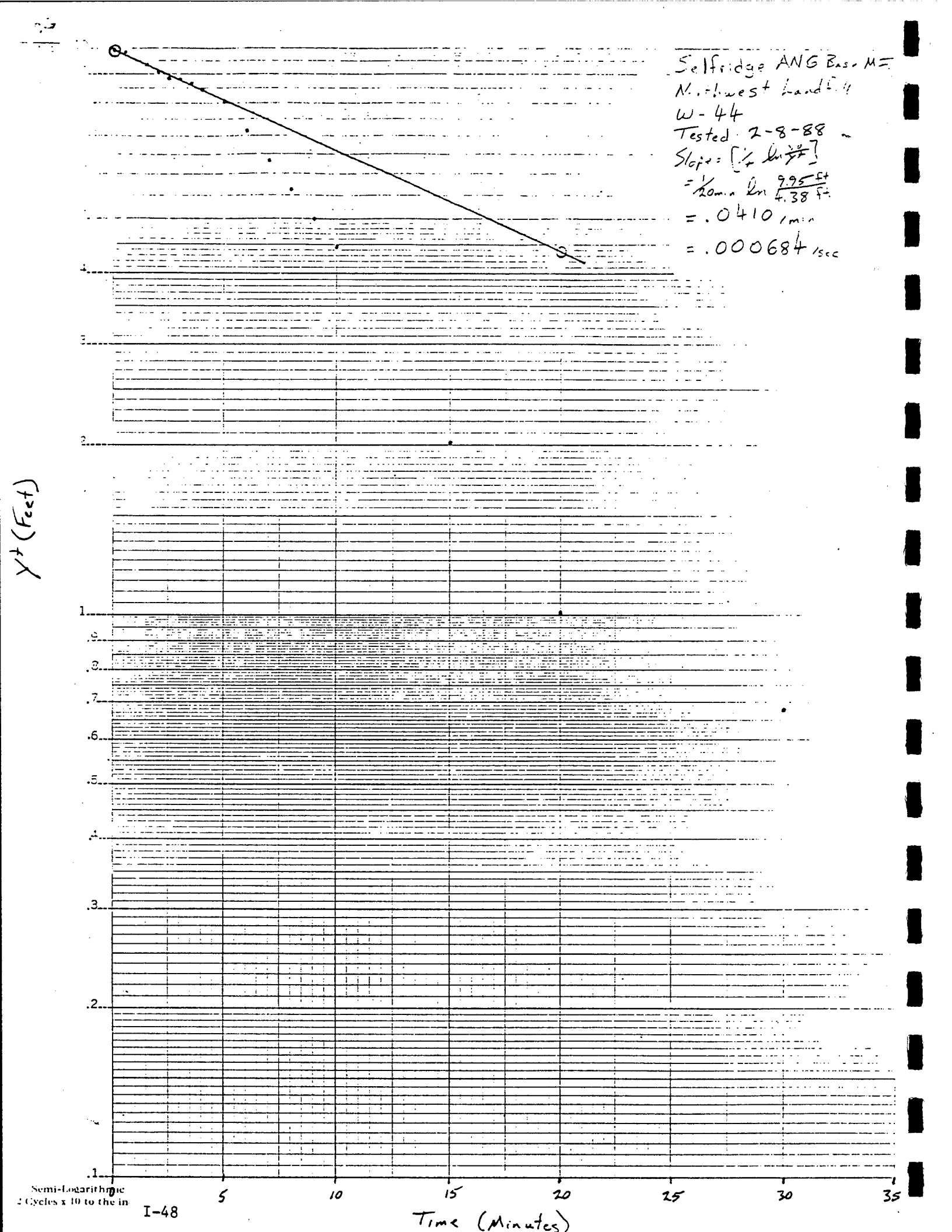

Solid ANG Base
1-25-88
=.0970 /min
=.00162 /sec
* Recharged to above starting level in 15 min.
0
5
10
15
20
25
30
35

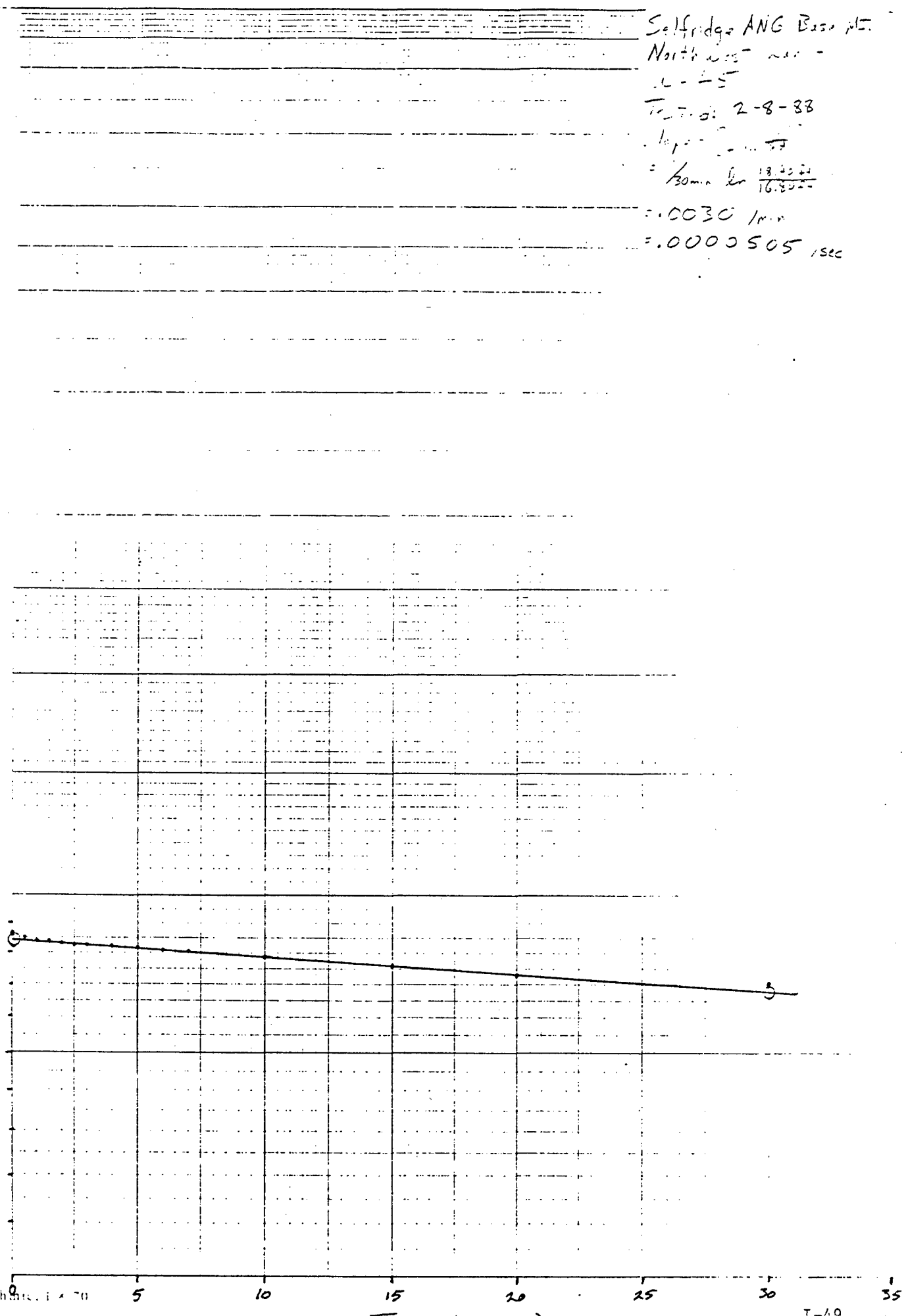

100
10
1
2
3
5
6
7
8
9
y+ (Feet)
5
10
15
20
25
30
35
Semi-Logarithmic
2 Cycles x 10 to the inc

Selfridge ANG Base MI
Northwest Landfill
MW-15
Tested: 1-25-88
Slope = [illegible]
= .1917 min
= .00319/sec



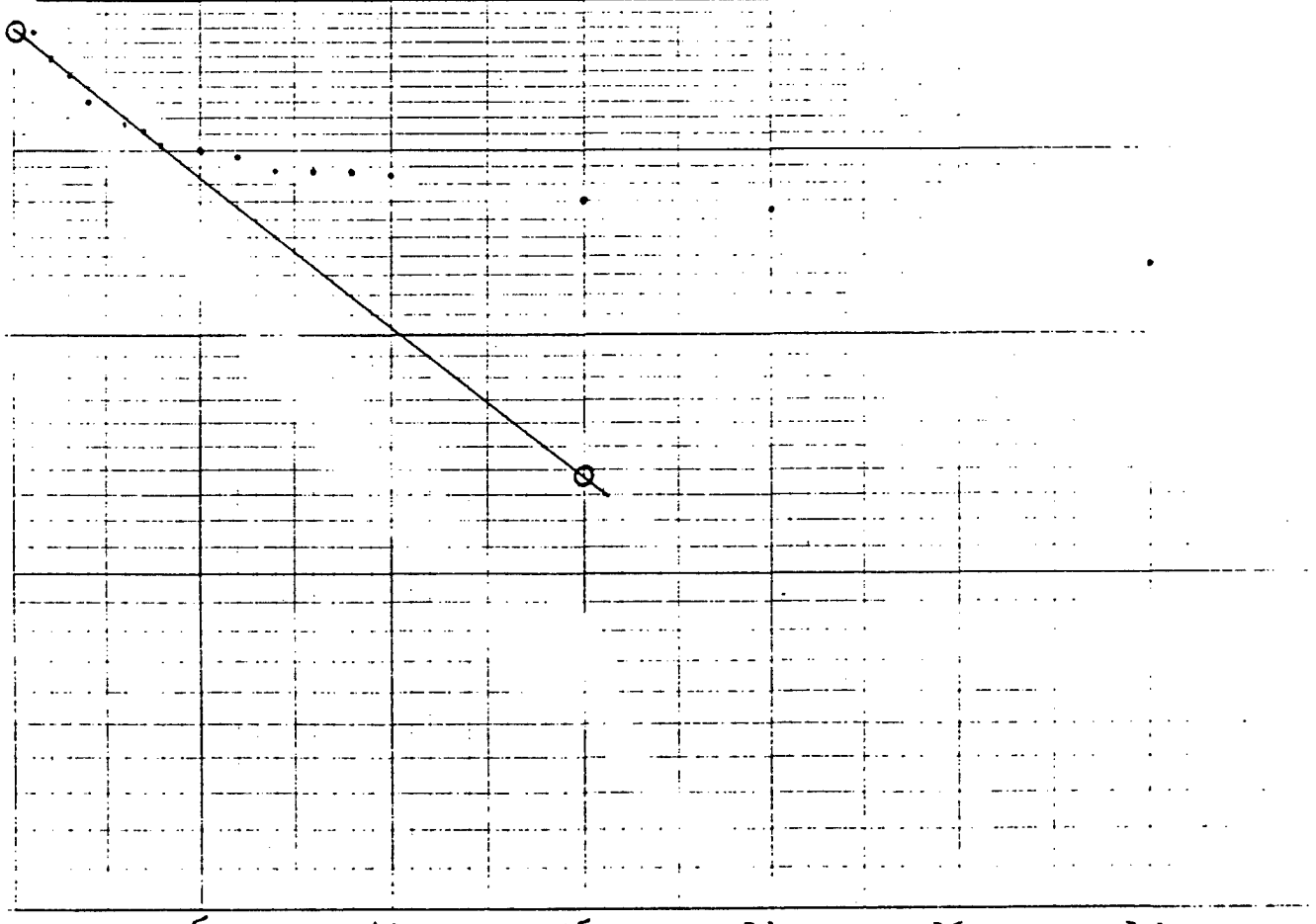
semi-Logarithmic
cycles x 10 to the inch


Selfridge ANG Base MI
Northwest Landfill
W-44
Tested 2-8-88
Slope: [1/t ln y/y']
= 1/20 min ln 9.95 ft / 4.38 ft
= .0410 /min
= .000684 /sec
y' (Feet)
4
3
2
1
.9
.8
.7
.6
.5
.4
.3
.2
.1
0
5
10
15
20
25
30
35
Time (Minutes)
Semi-Logarithmic
2 Cycles x 10 to the in

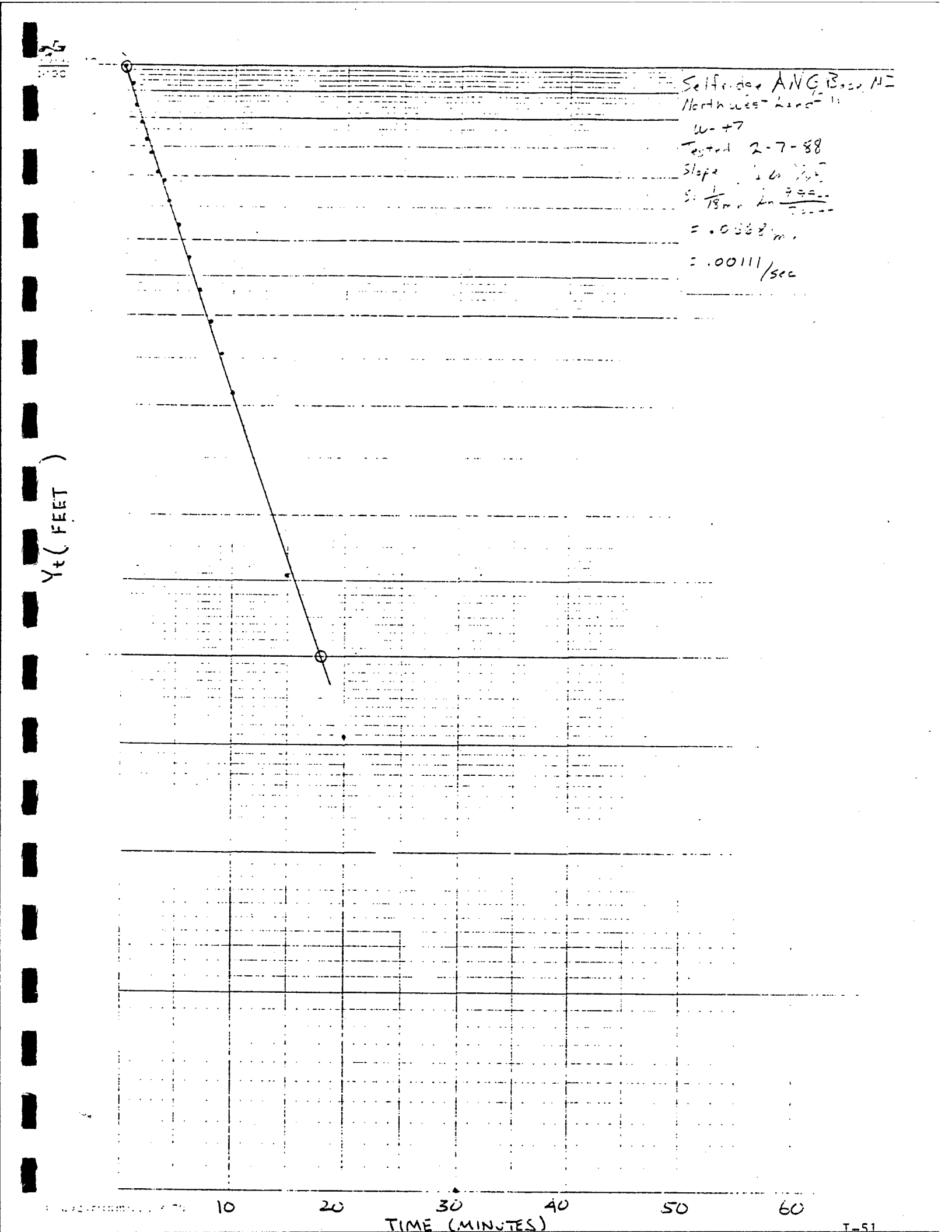


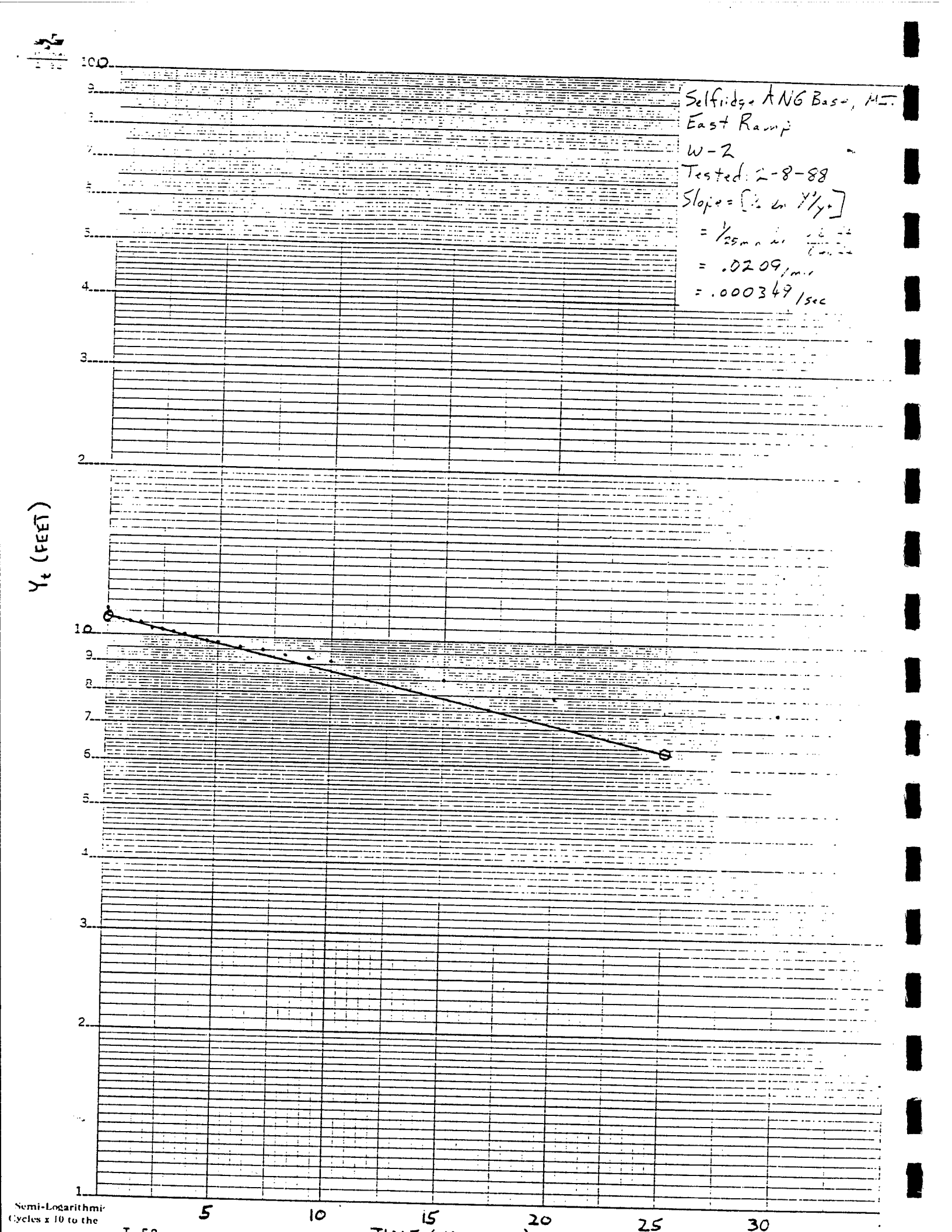
Selfridge ANG Base NE
North west [illegible] -
L - 25
Test: 2-8-88
[illegible]
= 1/30 min ln 18.82 in / 16.80 in
= .0030 /min
= .0000505 /sec

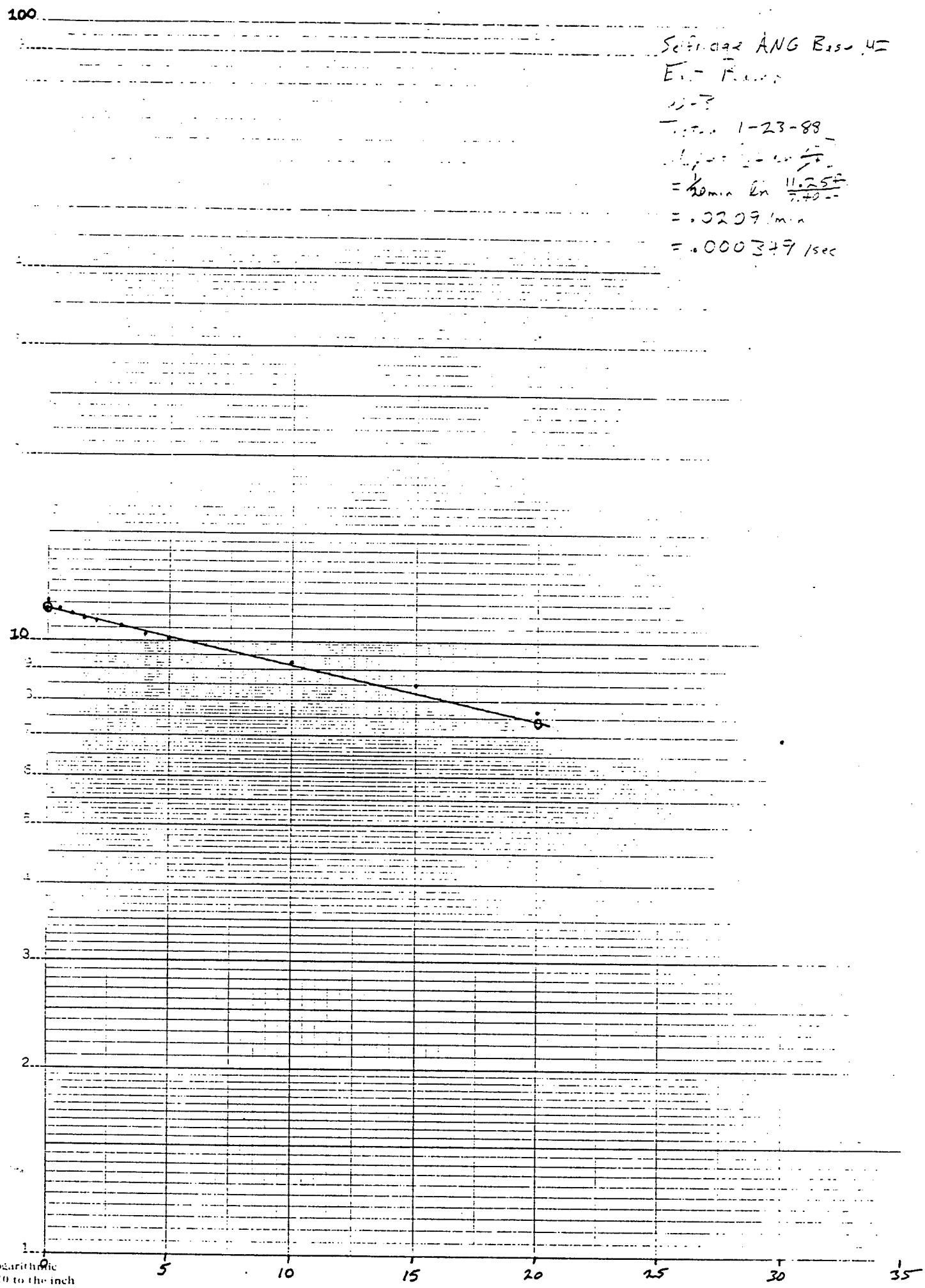
Selfridge ANG Base
Northwest landfill
W-46
Tested: 2-8-88
Slope = $\frac{1}{4}\ln(Y_0/Y_1)$
= 1/15 min = $\frac{2.3026}{15}$
= .0364/min
= .000607 /sec



Semi-Logarithm


Selfridge ANG Base, NE
Northwest Area
W-7
Tested 2-7-88
Slope
$S = \frac{1}{18m}$, $\ln \frac{\text{feet}}{\text{feet}}$
$= .0563^2 m$.
$= .00111/\text{sec}$
Y_t (FEET)
10
20
30
40
50
60
TIME (MINUTES)

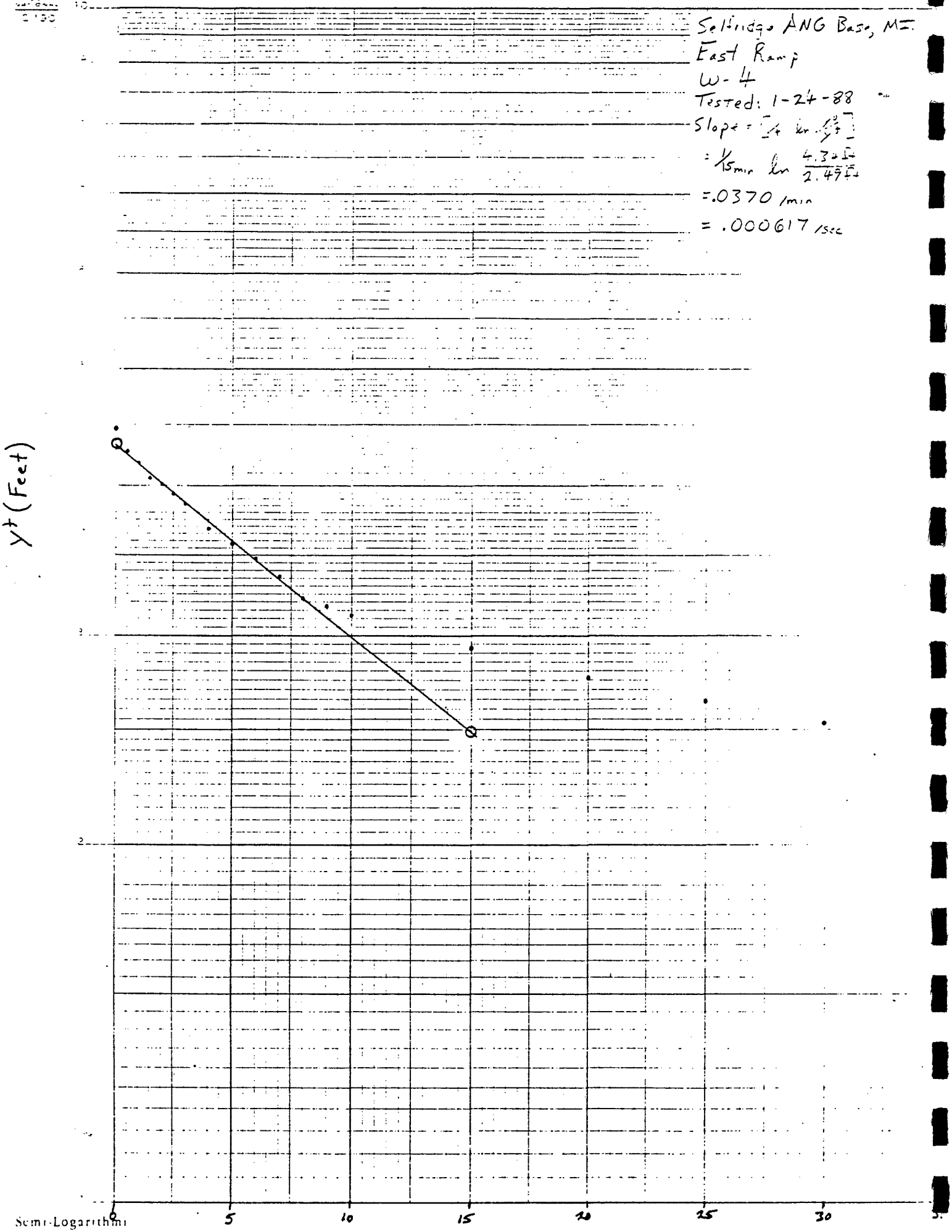

Selfridge ANG Base, MI.
East Ramp
W-2
Tested: 2-8-88
Slope = [Δ in Y/Y₀]
= 1/25 min⁻¹
= .0209/min
= .000349/sec
Yt (FEET)
10
9
8
7
6
5
4
3
2
1
5
10
15
20
25
30
Semi-Logarithmic
Cycles x 10 to the



Software ANG Base 4=
E.- Rep.
1-23-88
= 1/20 min ln 11.25/7.50
= .0209 /min
= .000349 /sec

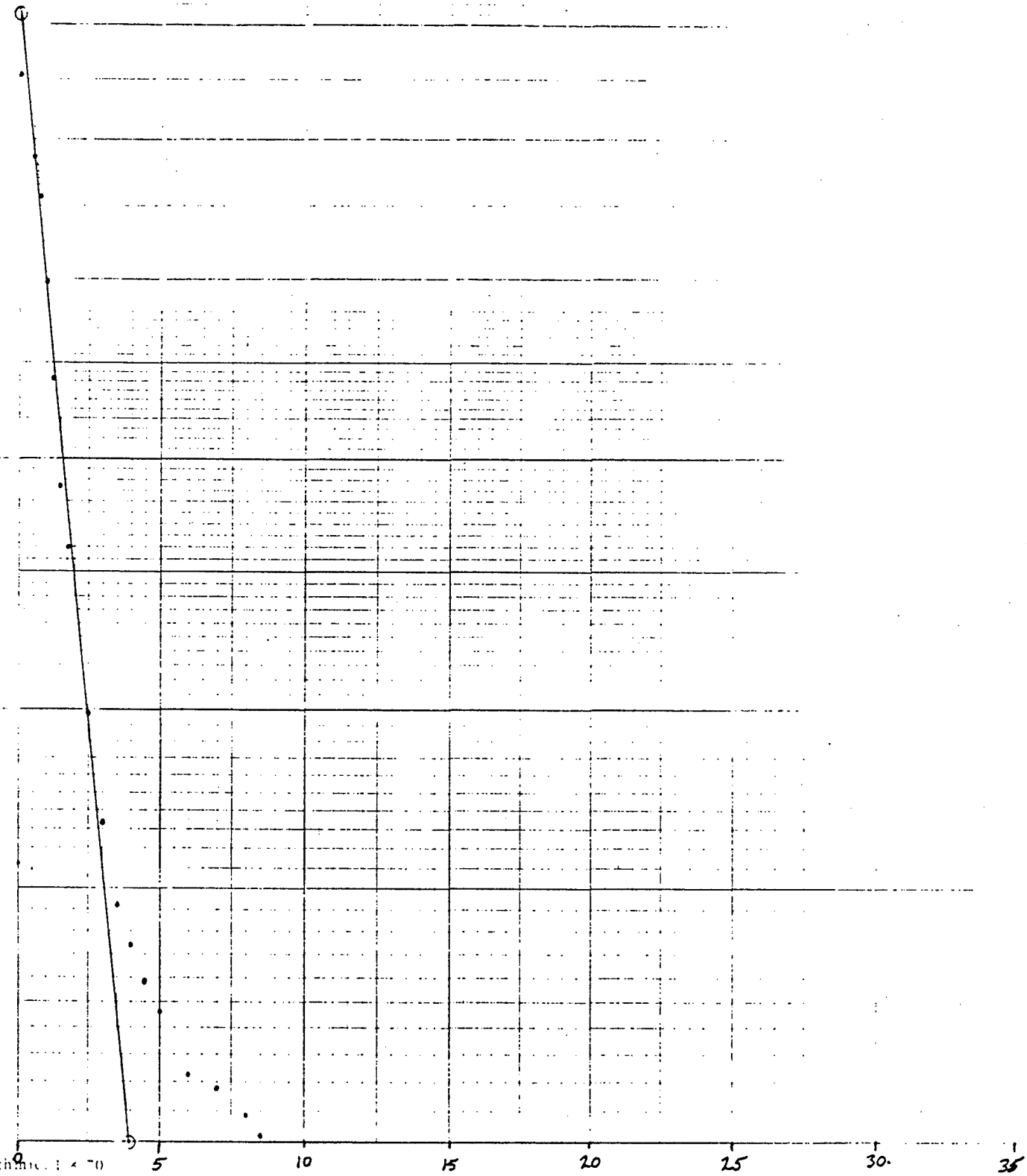
semi-logarithmic
cycles x 70 to the inch

Saltillo ANG Base, MS
East Ramp
W-4
Tested: 1-24-88
Slope = $\frac{1}{t}\ln\frac{y_1}{y_2}$
$= \frac{1}{15\,min}\ln\frac{4.3\,ft}{2.49\,ft}$
$= .0370\ /min$
$= .000617\ /sec$

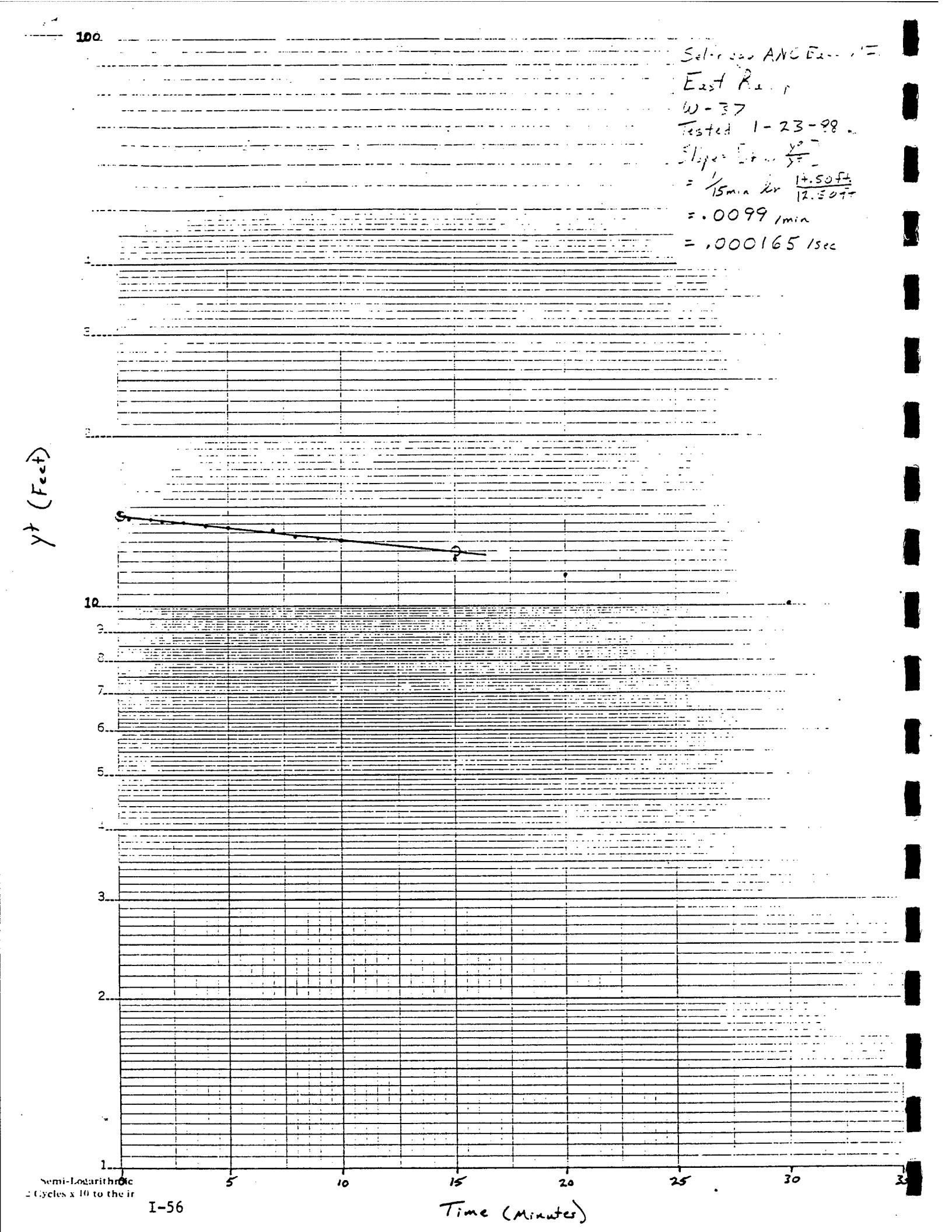


Semi-Logarithmic

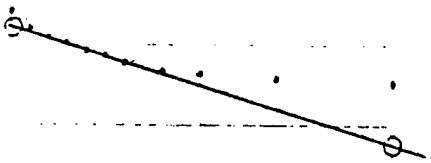
Selfridge ANG Base MI
East Ramp
W-36
Tested 1-23-98
Slope = [¼ in / 57']
= ¼ min / 610 in / 1200 ft
= .4520 l/min
= .00753 l/sec

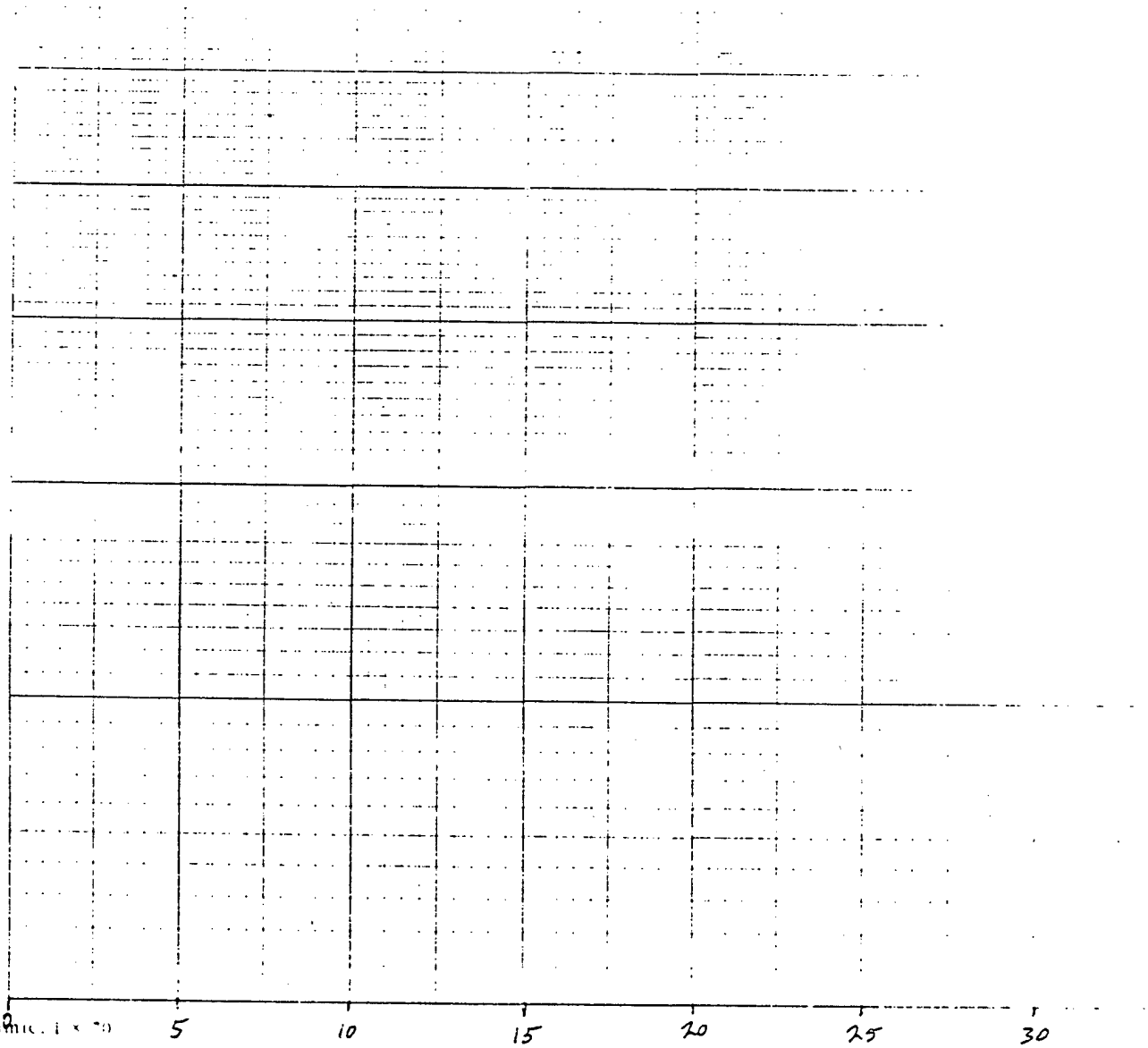


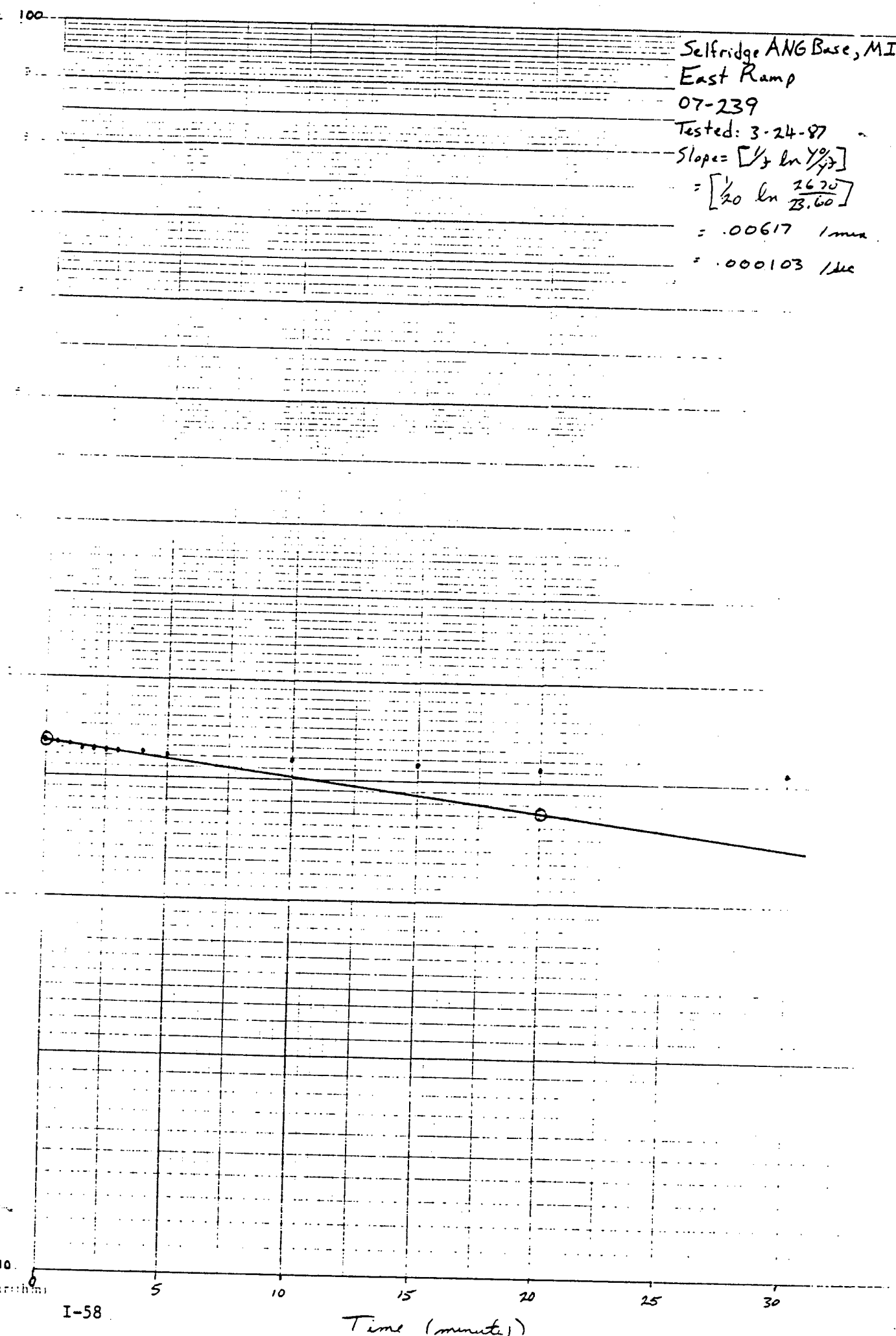
semi-Logarithmic 1 x 70


Selenium ANC Eastern
East Rail
W-37
Tested 1-23-98
Slope Data
= 1/15 min for 14.50 ft / 12.50 ft
= .0099 /min
= .000165 /sec
y+ (Feet)
100
10
9
8
7
6
5
4
3
2
1
5
10
15
20
25
30
Time (Minutes)
Semi-Logarithmic
Cycles x 10 to the ir

Selfridge ANGB, MI
East Ramp
07-138
Tested 5/17/88
Slope = $[\frac{1}{t} \ln Y/y]$
$[\frac{1}{10} \ln \frac{560}{490}]$
= .0133 /min.
= .000222 /sec

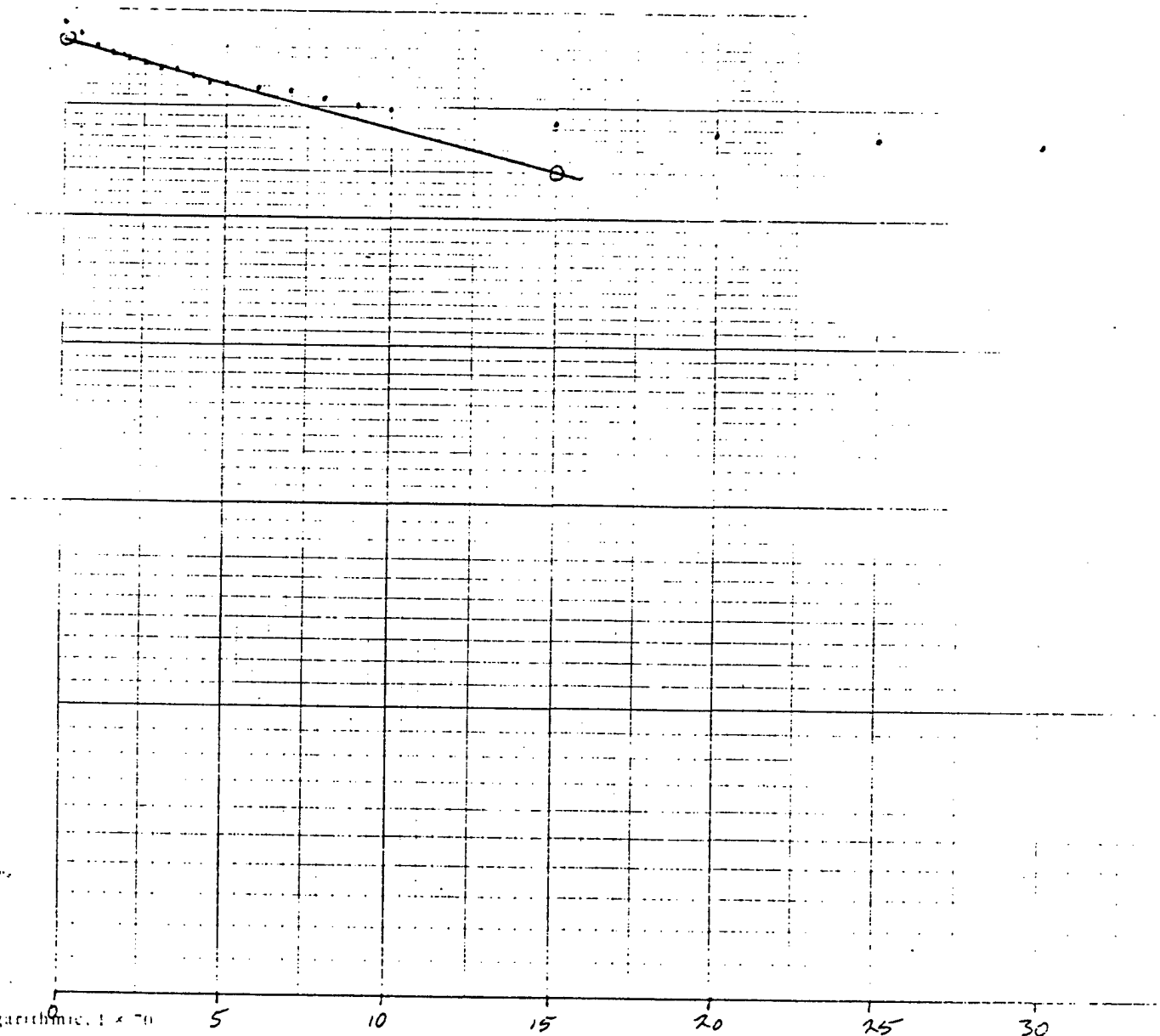




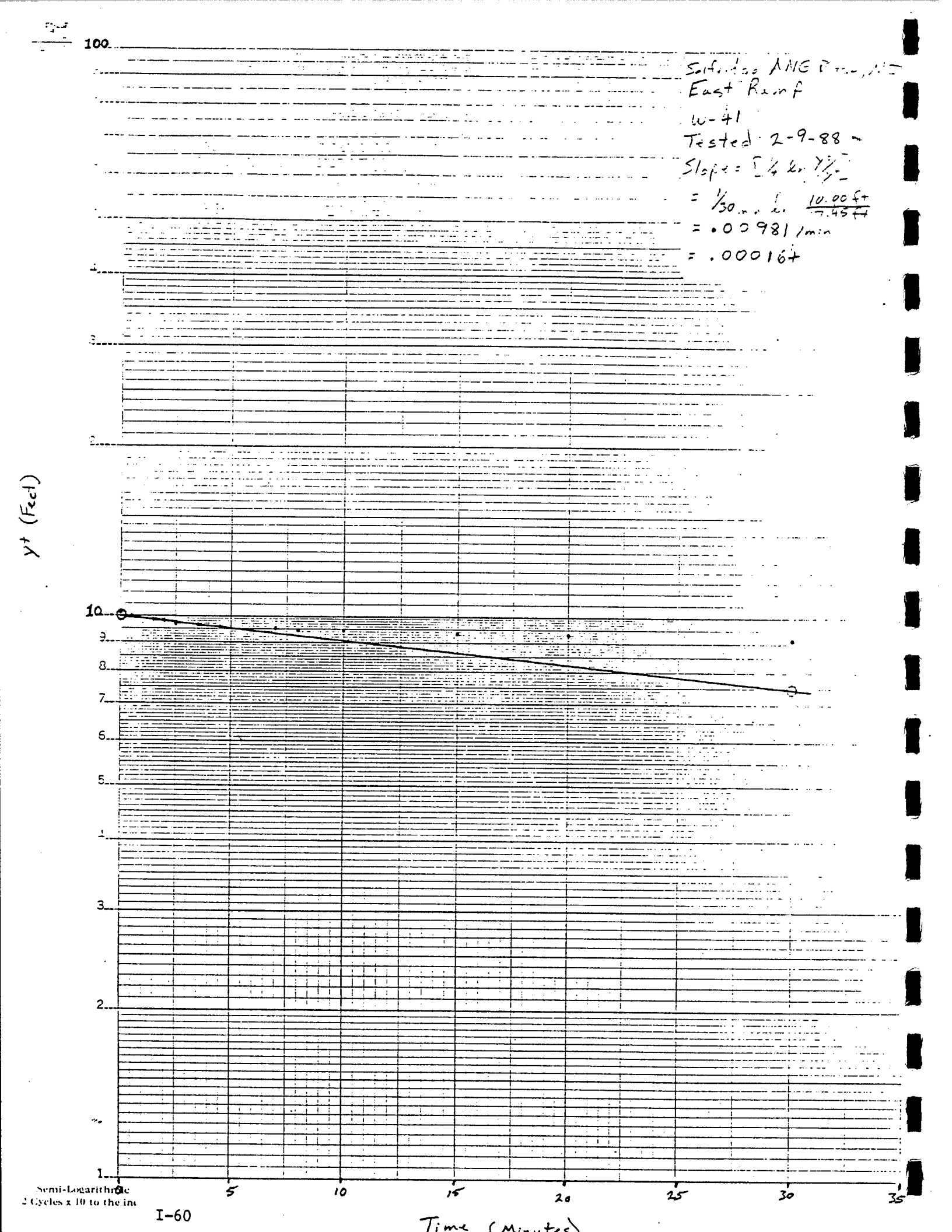


Semi-Logarithmic

Selfridge ANGB, MI
East Ramp
07-140
Tested 5/18/88
Slope = $[\frac{1}{t} \ln \frac{Y_0}{Y_t}]$
$= [\frac{1}{15} \ln \frac{3.82}{3.20}]$
$= .0118$ /min
$= .000197$ /sec



Semi-Logarithmic, 1 x 70


Solfidge ANG Pump Test
East Ramp
W-41
Tested 2-9-88
Slope = [illegible]
= 1/30 min. [illegible] 10.00 ft / 7.45 ft
= .00981 /min
= .00016+
y+ (Feet)
100
10
9
8
7
6
5
4
3
2
1
5
10
15
20
25
30
35
Time (Minutes)
Semi-Logarithmic
2 Cycles x 10 to the inc

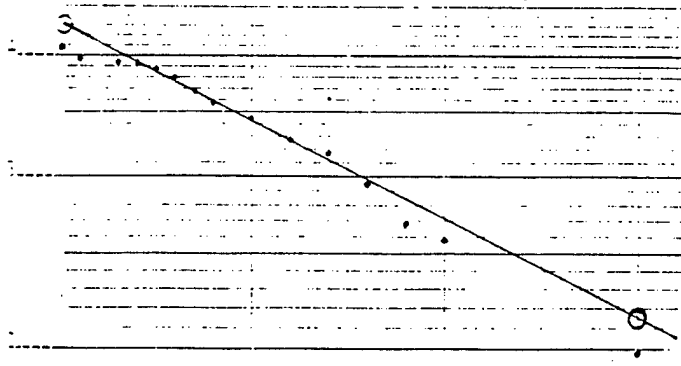
Selfridge ANG Base, MI
East Ramp
W-42
Tested 2-7-88

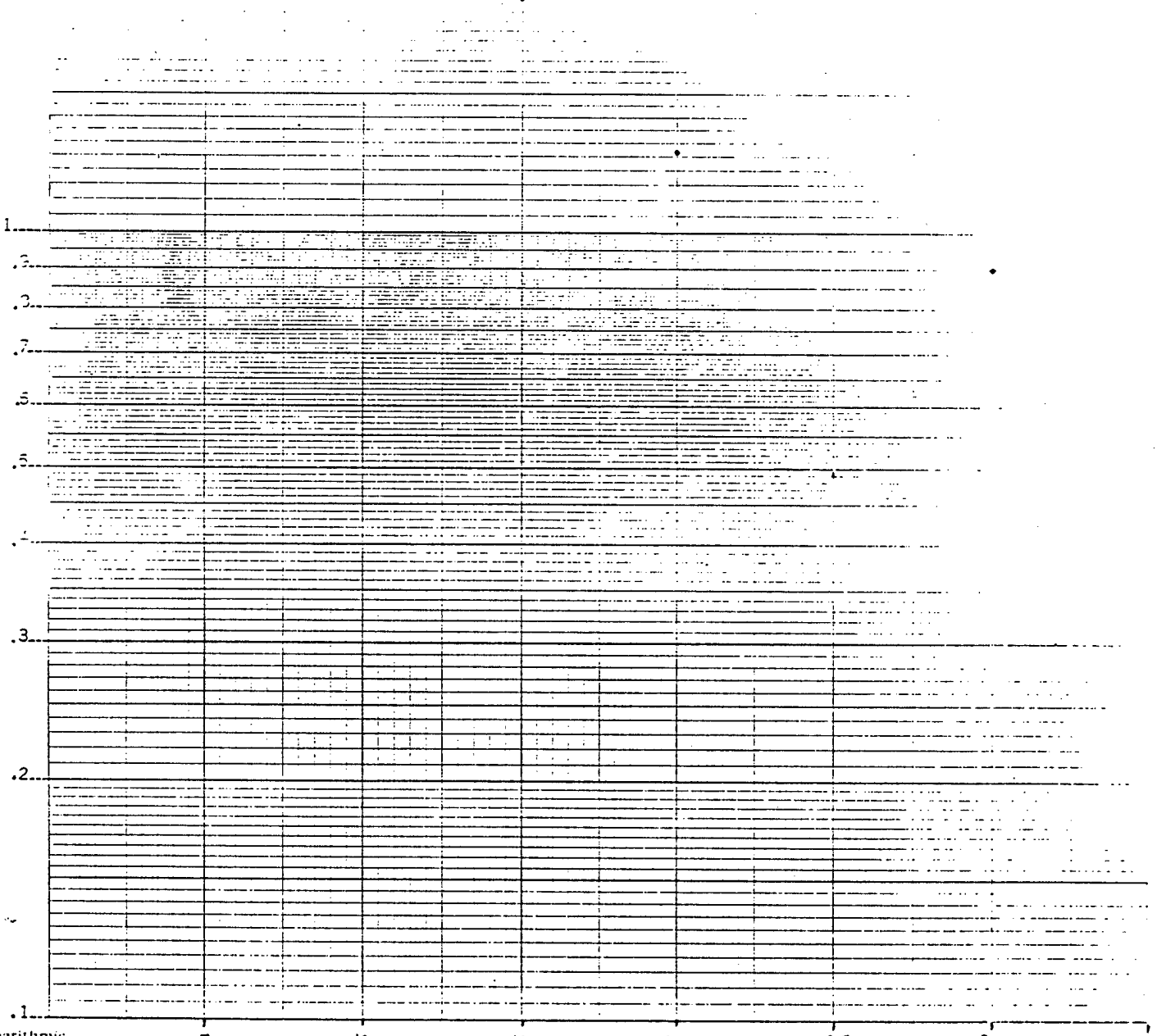
$\left[\frac{1}{t} \ln \frac{Y_0}{Y_t}\right]$

$\left[\frac{1}{15 min} \ln \frac{4.50 ft}{1.93 ft}\right]$

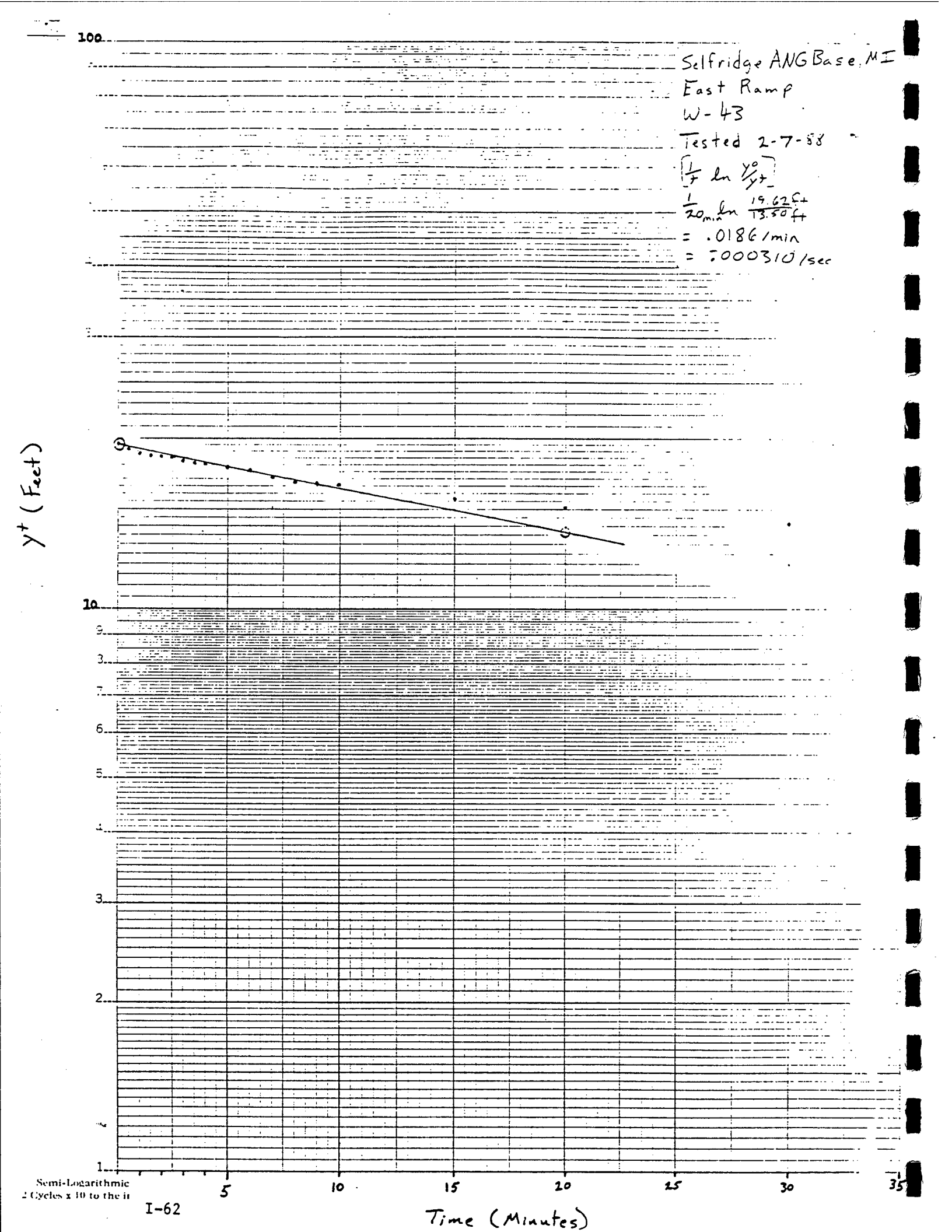
$= .0564/min$

$= .000940$ 1/sec



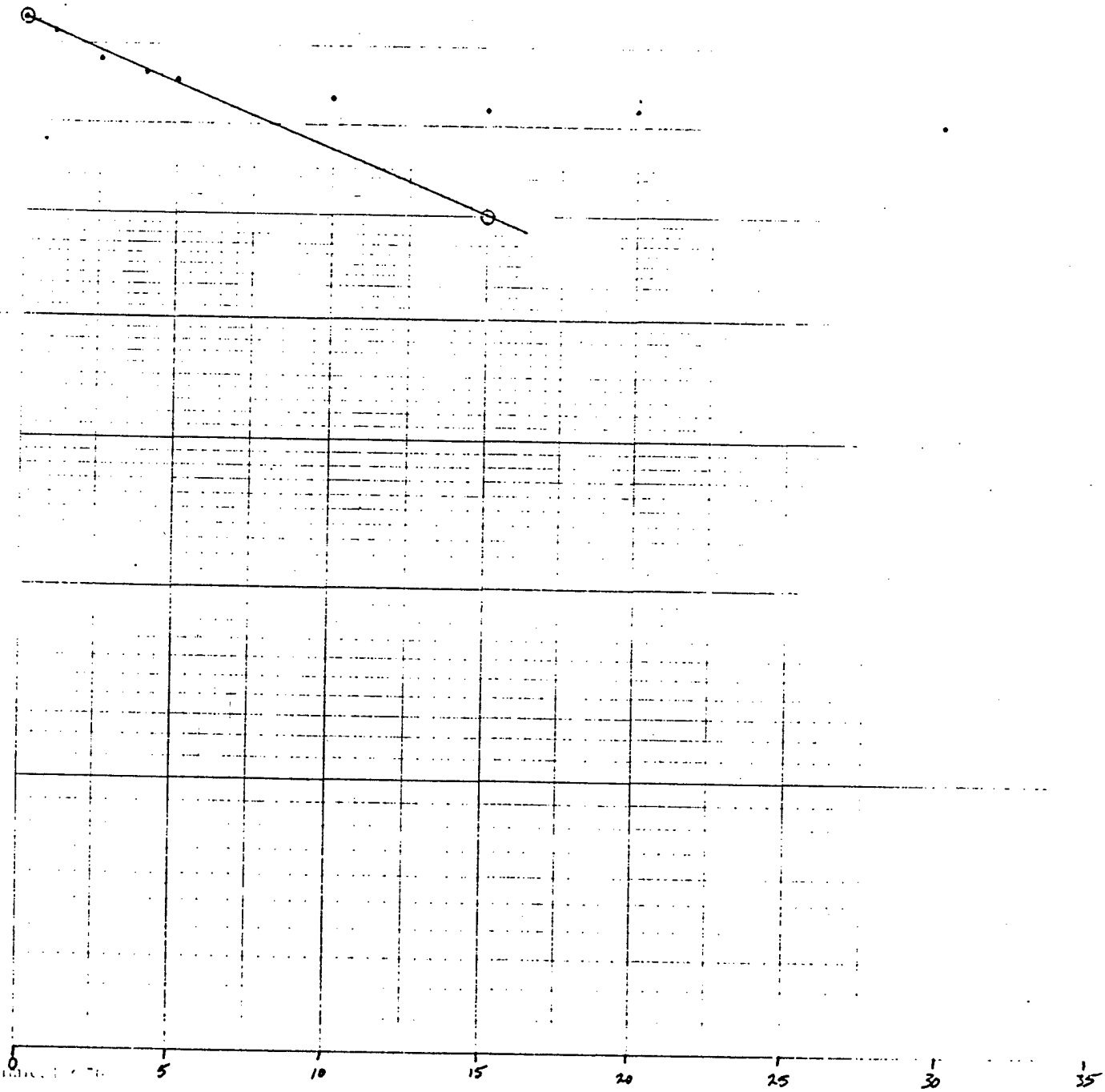


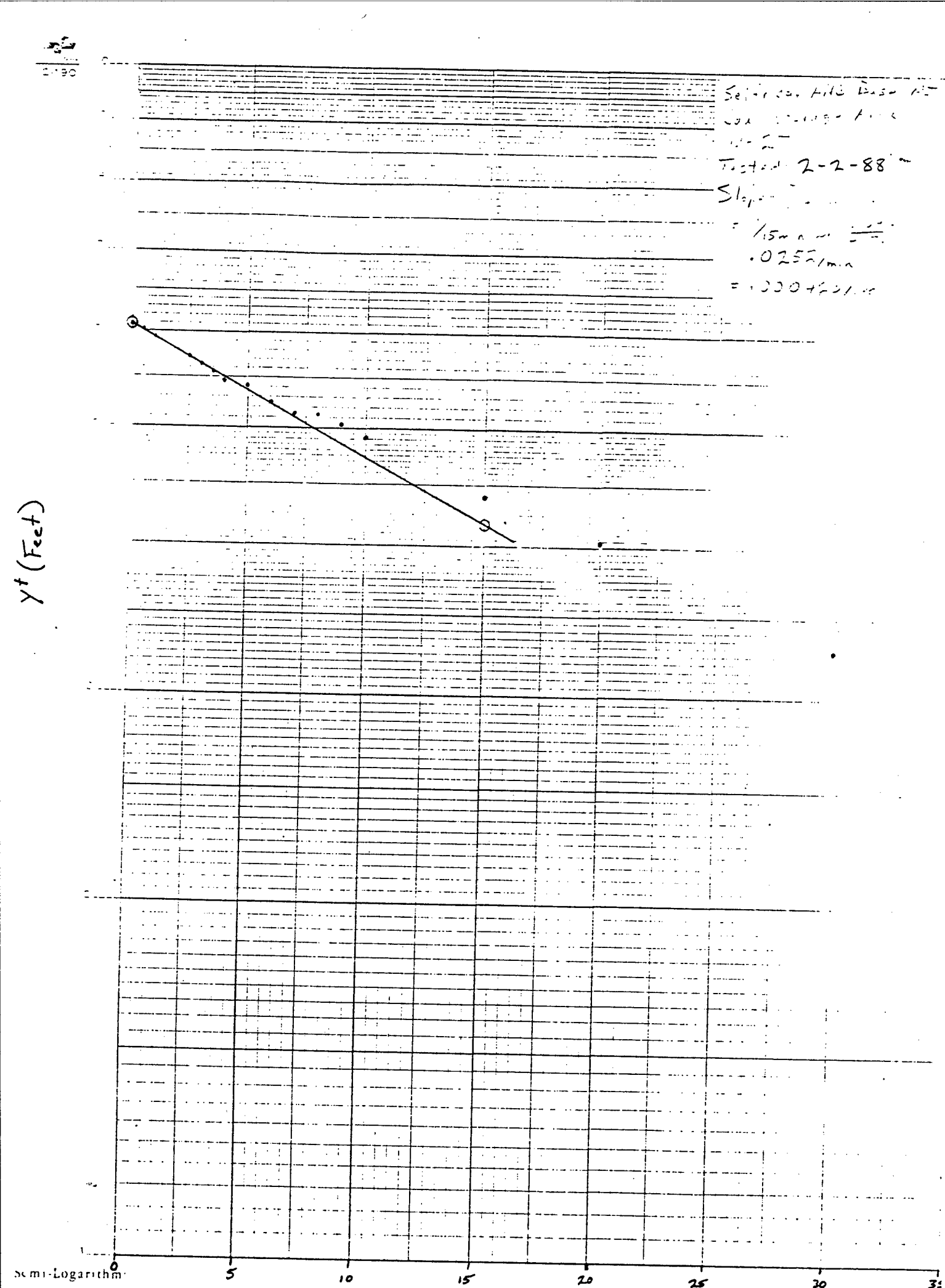
Semi-Logarithmic
Cycles x 10 to the inch



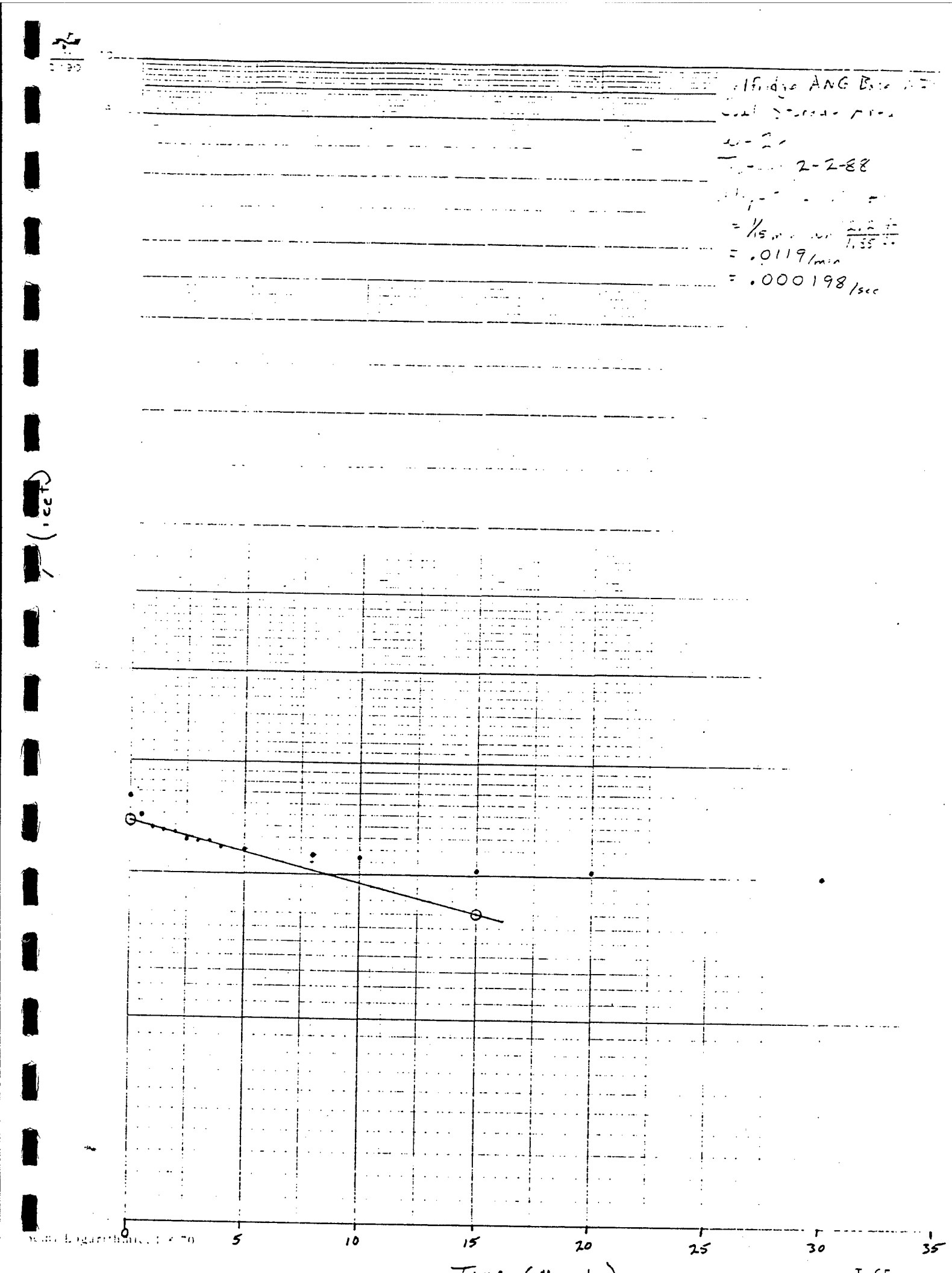
Semi-Logarithmic
2 Cycles x 10 to the ir

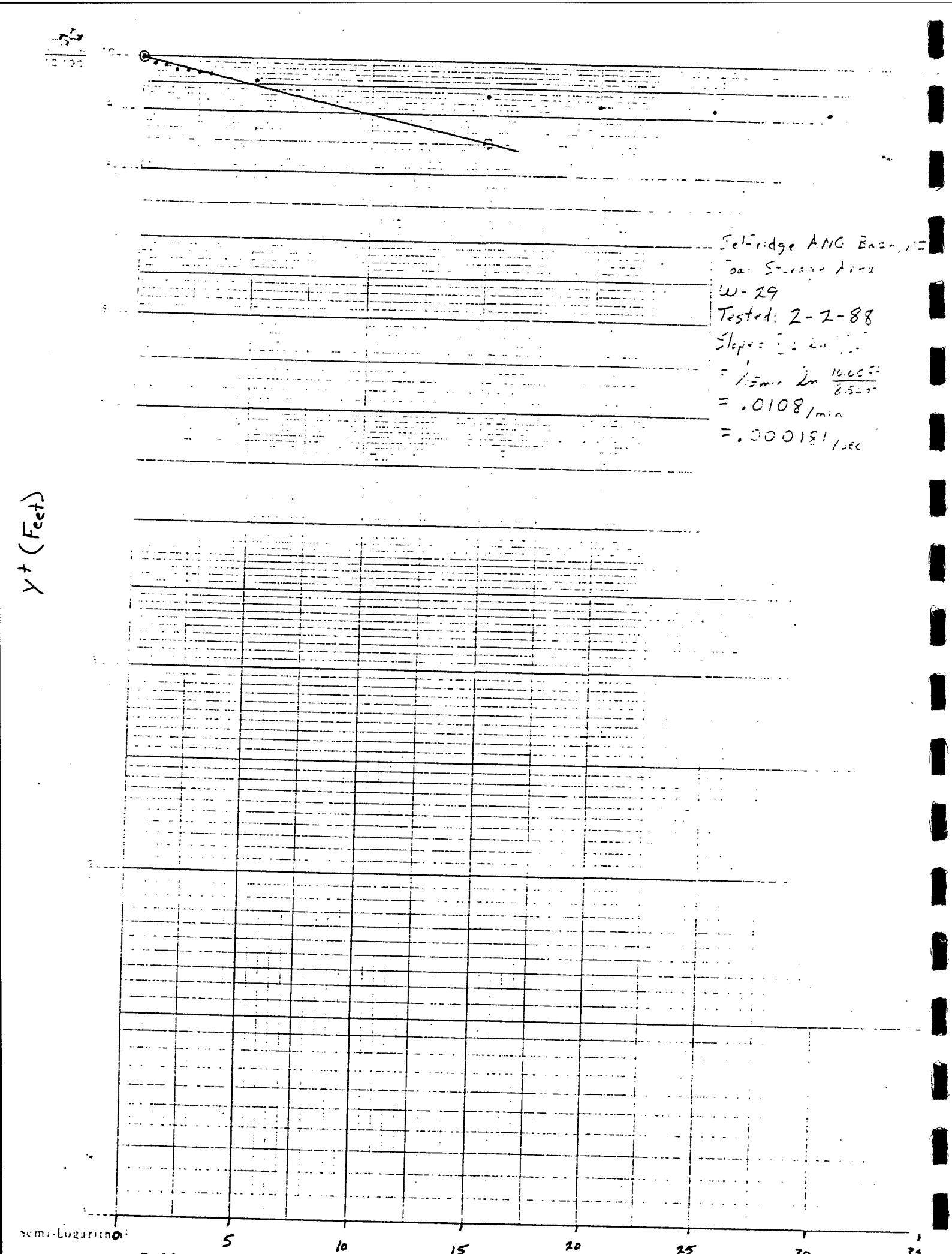
Selfridge ANG Base, MI
Coal Storage Area
U-26
Tested: 2-2-88
Slope = [illegible]
= [illegible] / 55.2
= .0192 in/s
= .000320 ft/s





Semi-Logarithm


5
10
15
20
25
30
35


Selfridge ANG Base, MI
Test Section Area
W-29
Tested: 2-2-88
Slope = Δy / Δt
= 1/55min ln 10.00 ft / 8.50 ft
= .0108/min
= .00018/sec
y+ (Feet)
5
10
15
20
25
30
Semi-Logarithmic

APPENDIX J

GROUNDWATER AND SURFACE WATER SAMPLING DOCUMENTATION

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID ~~SLFRD-1-12001~~ SLFRD LOG DATE 4/5/94 LOG TIME 1700

LOCATION ID ~~SLFRD-1-12001~~ SLFRD 01 LOT CONTROL NO. _____

SAMPLE TYPE N SAMPLE ID 122-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 3.31

SAMPLING PERIOD: START 1112 4/6/94 COMPLETE 1145

SAMPLING METHOD B LOGGER CODE RFW

LAB CODE _____ DATE SENT _____

PRESERVATION METHOD DTB = 24 s Vol. = 3.55 gal

COMMENTS Duplicate sample taken

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
1700	0.0	0.0	-	-	-	START PUMPING
1730	30		6.90	1325	12	very silty low
1745	3.0		6.90	1325	11	" "
1800	3.0		6.90	1325	11	" "
1815	3.0					Well is bailed, to a 1" diameter bailer must be used. It seems the bailer will not clear the silt out of well like the regular bailers do. Will not bail well dry.

SAMPLES TYPES: (WSACODE)

D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

SLFRD 123 IOF

INSTALLATION ID ~~01-123~~ LOG DATE 4/5/88 LOG TIME 1430

LOCATION ID ~~Southwest Landfill~~ 01 LOT CONTROL NO. _____

SAMPLE TYPE _____ SAMPLE ID 123-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 3.84

SAMPLING PERIOD: START 0700 4/6/88 COMPLETE 0910

SAMPLING METHOD _____ LOGGER CODE RFW

LAB CODE _____ DATE SENT _____

PRESERVATION METHOD _____

COMMENTS DTW 3.84 DTB 22.87 vol 3.17

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
1430	0.0	0.0	-	-	-	START PURGING
1445	3.0		6.10	1075	8°	water having a light brown
1500	1.0 (dry)		6.25	1100	10°	" " " (dry)
						Well allowed to set over
						night to recharge

SAMPLES TYPES: (WSACODE)

D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 4/5/85 LOG TIME 1435

LOCATION ID 01 LOT CONTROL NO. _____

SAMPLE TYPE N SAMPLE ID 124-M001 SAMPLE DEPTH (FT.) _____
(Caldwell W-24)

INITIAL GROUNDWATER DEPTH (FT) 3.0

SAMPLING PERIOD: START 0850 4/6/85 COMPLETE 0857

SAMPLING METHOD B LOGGER CODE RFW

LAB CODE _____ DATE SENT _____

PRESERVATION METHOD _____

COMMENTS DTB 25.46 22.46 × .167 = 3.75 × 3 vol = 11.25 gal
DTW 3.0
22.46

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
1435	0.0	0.0	-	-	-	START PUMPING
1445	3.0		5.20	5500	11.0	long silty
1455	2.0					dry
1510	1.0		5.35	5600	11.0	wait 10 min dry
						allowed to recharge
						overnight before
						sampling

SAMPLES TYPES: (WSACODE)

D - DUPLICATE	FB - FIELD BLANK	G - GRAB	SP - SUBMERSIBLE PUMP
R - REPLICATE	TB - TRIP BLANK	B - BAILER	AL - AIR-LIFT SAMPLER
S - SPIKE	LB - LAB BLANK	PP - PERISTALIC PUMP	BP - BLADDER PUMP
K - KNOWN	N - NORMAL	SL - SUCTION LIFT PUMP	

SAMPLE METHODS: (WSMCODE)

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID ~~GL 125~~ KTF LOG DATE 4/5/88 LOG TIME 1535

LOCATION ID ~~Southwest landfill~~ SWF 21 LOT CONTROL NO. _____

SAMPLE TYPE N SAMPLE ID 125-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 4.62'

SAMPLING PERIOD: START 0800 4/6/88 COMPLETE 0810 4/6/88

SAMPLING METHOD B LOGGER CODE ~~GSK~~ ~~KTF~~ SWF RFW

LAB CODE _____ DATE SENT _____

PRESERVATION METHOD DTB 2227 Vol 3.78

COMMENTS _____

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
1540	0.0	0.0	-	-	-	START PUMPING
1550	3.0		6.25	1025	11.5	
1605	6.0		6.35	1000	13.0	heavily silted.
1610	2.0					Dry
						This well was allowed
						to set overnight so it
						would recharge

SAMPLES TYPES: (WSACODE)

D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID ~~01 150 KF~~ SLFRD LOG DATE 4/5/88 LOG TIME 1520

LOCATION ID ~~GW EAST/KF~~ 01 LOT CONTROL NO. _____

SAMPLE TYPE N SAMPLE ID 156-M01 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 4.15

SAMPLING PERIOD: START 0830 4/6/88 COMPLETE 2840

SAMPLING METHOD B LOGGER CODE REW

LAB CODE _____ DATE SENT _____

PRESERVATION METHOD _____

COMMENTS DTB 19.16 - 4.15 = 15.01 x 2.5 gal x 3 = 37.5 gal purge volume

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
1525	0.0	0.0	-	-	-	START PUMPING
1540	3.0		6.35	1750	13.0	Very slty
1553	3.0		6.10	1650	13.0	" "
1600	1.0		6.10	1675	13.0	Dry
						well allowed to set (recharge)
						overnight before sampling

SAMPLES TYPES: (WSACODE)

D - DUPLICATE	FB - FIELD BLANK	G - GRAB	SP - SUBMERSIBLE PUMP
R - REPLICATE	TB - TRIP BLANK	B - BAILER	AL - AIR-LIFT SAMPLER
S - SPIKE	LB - LAB BLANK	PP - PERISTALIC PUMP	BP - BLADDER PUMP
K - KNOWN	N - NORMAL	SL - SUCTION LIFT PUMP	

SAMPLE METHODS: (WSMCODE)

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE April 10, 1988 LOG TIME 1014
LOCATION ID 01 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 257-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 21.65/21.65/21.65
SAMPLING PERIOD: START 1350 4/12/88 COMPLETE 1407 4/12/88
SAMPLING METHOD B LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS Well development used as the purge due to extremely slow recharge. DTB 38.27 ft

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
1350	0.0	0.0	-	-	-	START PUMPING
4/6/88	25.0		7.5	2375	12	Well bailed dry several times and will not clean up very good.

SAMPLES TYPES: (WSACODE)
D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLF2D LOG DATE 4/5/88 LOG TIME 1530

LOCATION ID 01 LOT CONTROL NO. _____

SAMPLE TYPE N SAMPLE ID 158-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 3.85

SAMPLING PERIOD: START 0550 4/6/88 COMPLETE 0940

SAMPLING METHOD B LOGGER CODE RFW

LAB CODE _____ DATE SENT _____

PRESERVATION METHOD _____

COMMENTS DTB 16.18 12.33 × .167 = 2.06 gal × 3 vol = 6.20

3.85

12.33

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
1550	9.0		5.05	2750	10	Sewage odor
			5.10	2625	10.5	very silty
			5.20	2200	10.0	
						allowed to recharge
						overnight before
						sampling

SAMPLES TYPES: (WSACODE)

D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD ~~01-259~~ LOG DATE 4/5/88 LOG TIME 1320

LOCATION ID SW Landfill 01 LOT CONTROL NO. _____

SAMPLE TYPE N SAMPLE ID 259-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 8.60

SAMPLING PERIOD: START ~~8~~ 1035 4/12/88 COMPLETE 1055 4/12/88

SAMPLING METHOD B LOGGER CODE RFW

LAB CODE _____ DATE SENT _____

PRESERVATION METHOD _____

COMMENTS DTB 37.82 4.9 gal. x 3 = 14.7 gal.

DTW 8.60

29.22

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
1320	0.0	0.0	-	-	-	START PUMPING
1330	3.0		9.5	1800	14°	Very Dirty/ heavy silt
1345	3.0		8.9	~~6~~ 1700	10.5°	
1355	3.0		6.85	1750	13°	Clearing up a little
1400	1.0		6.20	1775	13.5°	Dry

SAMPLES TYPES: (WSACODE)

D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD 01-160 LOG DATE 4/5/88 LOG TIME 0915
LOCATION ID ~~SWMU 5.11~~ 01 LOT CONTROL NO.
SAMPLE TYPE N SAMPLE ID 160-M001 SAMPLE DEPTH (FT.)

INITIAL GROUNDWATER DEPTH (FT) 3.66
SAMPLING PERIOD: START 1045 4/6/88 COMPLETE 1055
SAMPLING METHOD B LOGGER CODE CFW
LAB CODE DATE SENT
PRESERVATION METHOD
COMMENTS DTW 3.66 ~3.0 gal
DTD 20.89 x3 = 12 gal
17.23

FINAL PARAMETER MEASUREMENTS:

			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	
REDOX POTENTIAL	Eh	mvolts	
TEMPERATURE	TEMP	°C	
ALKALINITY ($CaCO_3$)	ALK	mg/l	

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
0920	0.0	0.0	-	-	-	START PUMPING
0930	3.0		7.36	900	8.5	silty, tan-brown
0945	3.0		7.32	850	9.0	
0950	1.5		7.35	1150	10.0	very silty as well go dry
						well allowed to recharge
						overnight sampling

SAMPLES TYPES: (WSACODE)
D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID ~~SL 26 Fac~~ SLFRD LOG DATE 4/5/88 LOG TIME 0920

LOCATION ID SLF Land Fill 01 LOT CONTROL NO. _____

SAMPLE TYPE N SAMPLE ID 261-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 9.62

SAMPLING PERIOD: START 1125 4/12/88 COMPLETE 1136

SAMPLING METHOD B LOGGER CODE RFW

LAB CODE _____ DATE SENT _____

PRESERVATION METHOD _____

COMMENTS DTW 9.62 ~4.3 gal.

DTB 35.87 x3 = 12.9 gal

26.25

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
0930	0.0	0.0	-	-	-	START PUMPING
0930	3.0		7.45	7800	11	Slightly silty, cloudy
0940	3.0		7.40	2600	10	" "
0950	3.0		7.45	3020	11	gets silty as well goes dry
0955	1.0 (dry)					

SAMPLES TYPES: (WSACODE)

D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SERD LOG DATE 4/5/88 LOG TIME 0815
LOCATION ID 01 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 162-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 3.81
SAMPLING PERIOD: START 1200 4/6/88 COMPLETE 1215
SAMPLING METHOD B LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS DTB 17.92 14.11 × .167 = 2.35 gal × 3 vol = 7.1 gal
DTW 3.81
14.11

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
0815	0.0	0.0	-	-	-	START PUMPING
0840	3.0		6.55	1500	8.0	Very Silty, brown
0850	3.0		6.55	1650	9.0	"
0900	3.0		6.55	1700	9.5	" dry
						Allowed to recharge
						overnight before
						sampling

SAMPLES TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID ~~01-2636~~ SLFRD LOG DATE 4/5/88 LOG TIME 0815

LOCATION ID Sw Landfill 01 LOT CONTROL NO. _____

SAMPLE TYPE N SAMPLE ID 263-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 7.89

SAMPLING PERIOD: START 1420 4/12/88 COMPLETE 1430 4/14/88

SAMPLING METHOD B LOGGER CODE BFW

LAB CODE _____ DATE SENT _____

PRESERVATION METHOD _____

COMMENTS 38.0 DTB Volume 4.9 gal

DTW 7.89 x 3 = 14.7 gal

Column 30-11

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
0815	0.0	0.0	-	-	-	START PUMPING
0835	6.0		7.30	1750	10.5	water very cloudy Sulfides
0900	3.0		7.25	1790	10.5	
0905	1.5	(2cy)	7.20	1850	10.5	water gets slightly less cloudy

SAMPLES TYPES: (WSACODE)

D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 4/6/88 LOG TIME 1550
LOCATION ID 02 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 164-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 3.19
SAMPLING PERIOD: START 1620 4/7/88 COMPLETE 1627
SAMPLING METHOD B LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS DTB 17.88 14.69 x .167 = 2.45 x 3 vol = 74 gals
DTW 3.19
14.69

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
1620	2.0		7.25	1850	9.0	Silty
1630	3.0		7.15	1400	8.0	"
1641	2.0		7.05	2000	9.5	Silt, Dry
						Well allowed to recharge overnight before sampling

SAMPLES TYPES: (WSACODE)
D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFAD LOG DATE 4/6/88 LOG TIME 1730
LOCATION ID 02 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 165-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 3.16'
SAMPLING PERIOD: START 0950 4/7/88 COMPLETE 1010 4/7/88
SAMPLING METHOD B LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS DTB = 15.96 vol = 2.80 gal (x3) = 8.4 gal

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
1740	3.0		7.0	1700	9	Water silty, brown
1745	3.0		6.85	1550	9	
1750	3.0		6.95	1750	9	dry after 9.0 gal
						Well will be allowed to
						recharge overnight before
						sampling.

SAMPLES TYPES: (WSACODE)
D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID ~~02-166~~ SLFRD LOG DATE 4/6/88 LOG TIME 1550

LOCATION ID ~~Effluent pit~~ 02 LOT CONTROL NO. _____

SAMPLE TYPE _____ SAMPLE ID 166-MW01 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 3.90

SAMPLING PERIOD: START 0530 4/7/88 COMPLETE 0940

SAMPLING METHOD B LOGGER CODE REW

LAB CODE _____ DATE SENT _____

PRESERVATION METHOD _____

COMMENTS DTB 17.92 - 2.67 gal x 3 = 8.02 gals.
DTW 3.90
16.02

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
1603	0.0	0.0	-	-	-	START PUMPING
1695	3.0		6.95	1225	8°	water fairly turbid
		GEK			~~8°~~	
1612	3C		6.90	1200	8.5°	" "
1620	3.0		7.00	1400	9.0	water very silty to the bottom. Well went dry after 9 gal. Well will probably have to set over night before it can be sampled

SAMPLES TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SFLRD LOG DATE 4/7/88 LOG TIME 1430

LOCATION ID 03-416R 03 LOT CONTROL NO. _____

SAMPLE TYPE _____ SAMPLE ID 116-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) ~~2.59~~ GSK 2.25

SAMPLING PERIOD: START 1700 COMPLETE 1715

SAMPLING METHOD B LOGGER CODE RFW

LAB CODE _____ DATE SENT _____

PRESERVATION METHOD _____

COMMENTS DTB = 27.52 vol ~~4.16~~ 4.10 gal (x3) = ~~12.5~~ 12.3 gal GSK GSK

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
1430	0.0	0.0	-	-	-	START PUMPING
1435	3.0		7.0	725	9.5	Very Silty
1445	3.0		6.95	~~725~~ 720	8.5	"
1455	3.0		6.95	700	8.5	"
1500	3.0		7.05	700	8.5	" Dry
Total	12.0 gal					

SAMPLES TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 4/7/88 LOG TIME 1345
LOCATION ID 03=H76SK 03 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 117-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 2.25
SAMPLING PERIOD: START 1640 COMPLETE 1645
SAMPLING METHOD B LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS DTB = 26.81 vol 4.10 gal (x3) = ~~12.3~~ 12.5 gal

FINAL PARAMETER MEASUREMENTS:

			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	
REDOX POTENTIAL	Eh	mvolts	
TEMPERATURE	TEMP	°C	
ALKALINITY ($CaCO_3$)	ALK	mg/l	

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
1410	0.0	0.0	-	-	-	START PUMPING
1425	3.0		7.05	700	10	Humidity tested
1440	7.0 (dry)		7.20	700	8.5	Very humidity tested, I can't
1455	5.0 (dry)		7.05	800	8.0	am going to let water out.
Total	15.0 gal					

SAMPLES TYPES: (WSACODE)

D - DUPLICATE	FB - FIELD BLANK		
R - REPLICATE	TB - TRIP BLANK		
S - SPIKE	LB - LAB BLANK		
K - KNOWN	N - NORMAL		

SAMPLE METHODS: (WSMCODE)

G - GRAB	SP - SUBMERSIBLE PUMP		
B - BAILER	AL - AIR-LIFT SAMPLER		
PP - PERISTALIC PUMP	BP - BLADDER PUMP		
SL - SUCTION LIFT PUMP			

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 4/7/88 LOG TIME 1415
LOCATION ID ~~03-118601~~ 03 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 118-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 2.63
SAMPLING PERIOD: START 1725 COMPLETE 1730
SAMPLING METHOD B LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS DTB = 27.67 vol = 4.18gal (×3) = 12.54gal.

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
1505	0.0	0.0	-	-	-	START PUMPING
1508	3.0		6.85	700	8	Sitty lt. brn.
1515	3.0		6.95	780	9	almost dry
1520	1.0		7.05	725	9	dry muddy

SAMPLES TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK		
R -	REPLICATE	TB -	TRIP BLANK		
S -	SPIKE	LB -	LAB BLANK		
K -	KNOWN	N -	NORMAL		

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

7.74 Logbook

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 4/10/88 LOG TIME 1030
LOCATION ID 04-111 (WRMP) LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 111-Mod SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 1.81
SAMPLING PERIOD: START 1500 4/11/88 COMPLETE 1506 4/11/88
SAMPLING METHOD _____ LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS DTW@ 25'9 3/4" (1.91') DTB 27'5 3/4" (27.48) CVA 970ppm
Column 25.67' = 4.29 gals × 3 = 12.86 purge volume

FINAL PARAMETER MEASUREMENTS:

			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	
REDOX POTENTIAL	Eh	mvolts	
TEMPERATURE	TEMP	°C	
ALKALINITY ($CaCO_3$)	ALK	mg/l	

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
1058	3		7.80	425	10.5	silty brown, bubbling-methane
1105	3		7.70	425	10.8	silty brown going dry
1113	1		7.80	425	11.8	silty brown well dry
1556	recovery to approximately 16.1 feet					
1607	3		7.90	455	13.0	silty brown well dry

SAMPLES TYPES: (WSACODE)
D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 4/10/88 LOG TIME 1225
LOCATION ID 04-112 (WRMP) LOT CONTROL NO. _____
SAMPLE TYPE N, MS, MSD SAMPLE ID 112-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 3.29
SAMPLING PERIOD: START 0920 4/11/88 COMPLETE 0938
SAMPLING METHOD B LOGGER CODE RFW/SDO/KF.
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS OTW 3'3½" (3.29') DTB 27'5½" (27.46) OVA < 1000 units
Column 24.17 = 4.04 gals x 3 = 12.1 purge volume

FINAL PARAMETER MEASUREMENTS:

			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	
REDOX POTENTIAL	Eh	mvolts	
TEMPERATURE	TEMP	°C	
ALKALINITY ($CaCO_3$)	ALK	mg/l	

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
1252	3		6.95	770	12.0	Black silty, organic smell
1300	3		7.05	750	12.25	Black silty, with slight odor
1308	1		7.30	750	12.50	Black silty dry well
1621	Recovery to 8.7 feet approximately					
1627	3		7.00	780	12.0	Brown silty
1638	2.5		7.05	750	12.5	Well dry Brown silty water

SAMPLES TYPES: (WSACODE)
D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE April 9, 1988 LOG TIME 1006
LOCATION ID 04 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 113-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 2.46
SAMPLING PERIOD: START 1005 4/12/88 COMPLETE 1011 4/12/88
SAMPLING METHOD B LOGGER CODE RFW / JDU / KF.
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS OVA > 1000 units CGI 95% LEL DTW = 2.46', 2.47, 2.47 DTB 27.52
Minimum Purge Vol. = 13.2 gals
water removed 3.0 gal + 3.0 gals
FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
1025	3.0		11.5	450	10.9	Light gray/brown and slightly cloudy
1034	3.0		11.35	430	10.2	Light gray/brown and cloudy, turbid
4/10/88 1209	3.0		9.05	370	12.3	Brown and cloudy (well dry)
4/11/88 1115	2.0		8.75	325	12.0	Brown + cloudy (well dry)

SAMPLES TYPES: (WSACODE)
D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 4/10/88 LOG TIME 0940
LOCATION ID OH-115 (West Ramp) LOT CONTROL NO. _____
SAMPLE TYPE N, D SAMPLE ID 115-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 3.84ft
SAMPLING PERIOD: START 1440 4/11/88 COMPLETE 1451 4/11/88
SAMPLING METHOD B LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS DTW 3'10½" (3.84') DTB 27'5" (27.42') OVA <1000 ppm
Column 23.58' = 3.94 gals × 3 = 11.8 volumes purge

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
1005	3		7.95	435	10	silty brown
1015	3		7.75	430	9.8	silty brown - going dry
1020	1		7.70	420	10.2	silty brown - dry
1535		recharged to 19.5'				(approximately)
1547	2.75		7.75	485	13.0	silty brown - dry

SAMPLES TYPES: (WSACODE)
D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

Ground WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE April 8, 1988 LOG TIME 0944
LOCATION ID 07-148 LOT CONTROL NO. _____
SAMPLE TYPE ~~R~~ N SAMPLE ID 148-M001 SAMPLE DEPTH (FT.) 5.44 DTW

SAMPLING PERIOD: Purge START 09.25 COMPLETE _____ DT Bottom 17.68 before purge 12.24
SAMPLING METHOD B LOGGER CODE JDO/RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS OVA reading .25 units in well. Background (no detection) in breathing zone. Water brown and cloudy
water removed 3.0, + 3.0 + 3.0 April 9 water removed 2.0 gals

Total Column

PARAMETER MEASUREMENTS:			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	6.0 7.2/6.95/7.5/7.7
SPECIFIC CONDUCTANCE	SC	µmhos/cm	308/340/340/380
REDOX POTENTIAL	Eh	mvolts	
TEMPERATURE	TEMP	°C	7.0/7.0/7.0/9.5
ALKALINITY ($CaCO_3$)	ALK	mg/l	

Start sampling 4/12/88 0945 Complete 4/12/88 0951

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	
REDOX POTENTIAL	Eh	mvolts	
TEMPERATURE	TEMP	°C	
ALKALINITY ($CaCO_3$)	ALK	mg/l	

SAMPLE TYPES: (WSACODE)
D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 4/10/88 LOG TIME 1125
LOCATION ID 04-249 (WRMP) LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 249-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 4.09
SAMPLING PERIOD: START 1520 4/11/88 COMPLETE 1526 4/11/88
SAMPLING METHOD B LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS DTW 4' 1 1/16" (4.09) DTB 27'10 3/4" (27.90) OVA <1000 ppm
Column 23.81 = 3.98 gals x 3 = 11.93 purge volume

FINAL PARAMETER MEASUREMENTS:

			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	
REDOX POTENTIAL	Eh	mvolts	
TEMPERATURE	TEMP	°C	
ALKALINITY ($CaCO_3$)	ALK	mg/l	

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
1150	3		7.0	780	12.0	gray silty
1200	3		7.1	770	12.5	slightly silty
1206	3		7.2	780	12.5	gray slightly silty going dry
1220	2		7.5	810	13.0	slightly silty dry
0621		Recovery to 23.5 feet approximately				
1655	2.5		7.25	805	13.0	slightly silty

SAMPLES TYPES: (WSACODE)
D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLERD LOG DATE April 10, 1988 LOG TIME 1235
LOCATION ID 04 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 150-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 3.82ft
SAMPLING PERIOD: START 1045 4/4/88 COMPLETE 1051 4/11/88
SAMPLING METHOD B LOGGER CODE RFW / JDO / KF
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS Initial DTW 3.82ft, 3.82 DTB = 17.92ft Min. three volumes = 7.5 gals

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
1243	3.0		7.05	1200	9.50	water brown and cloudy
1247	3.0		7.05	1200	9.10	water brown and cloudy
1254	2.5		7.10	1200	9.9	heavy silt / well dry

SAMPLES TYPES: (WSACODE)
D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

SURFACE WATER QUALITY SAMPLING RECORD

start purging ~~1145~~ 1645 hrs

DTW 5.40 ft
DTB 30.90 ft

INSTALLATION ID SLFRD LOG DATE April 7, 1988 LOG TIME 1430
LOCATION ID 04-251 LOT CONTROL NO. _____
SAMPLE TYPE MW SAMPLE ID 251-M001 SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START Sampling April 9, 1988 1340 COMPLETE April 9, 1988 1354
SAMPLING METHOD B LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS Volume purged 12.3 gals - purging ended 1701 Water brown and cloudy
Sample water clear to slight white/milky color

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	9.6/9.55/9.42/9.42	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	340/345/341/341	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	10/10/9.9/9.9/10.0	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK		
R -	REPLICATE	TB -	TRIP BLANK		
S -	SPIKE	LB -	LAB BLANK		
K -	KNOWN	N -	NORMAL		

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE April 9, 1988 LOG TIME 0915
LOCATION ID 04 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 152-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 12.60 ft
SAMPLING PERIOD: START 0915 4/13/88 COMPLETE 0925 4/13/88
SAMPLING METHOD B LOGGER CODE BFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS OVA reading 10-20 units down well, DTW 12.60 ft / 12.61 / 12.60
DTB = 19.78 ft Need to remove 2.7 gal for min three vol

78
2.60
F 18

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
0930	0.25		7.9	450	9.0	Purge method (B) Gray + cloudy
0935	~~1.25~~ 0.50		8.2	445	9.0	Water purged brown light, cloudy
0940	1.50		8.1	450	9.0	Light Brown and cloudy

SAMPLES TYPES: (WSACODE)

D - DUPLICATE	FB - FIELD BLANK		
R - REPLICATE	TB - TRIP BLANK		
S - SPIKE	LB - LAB BLANK		
K - KNOWN	N - NORMAL		

SAMPLE METHODS: (WSMCODE)

G - GRAB		SP - SUBMERSIBLE PUMP	
B - BAILER		AL - AIR-LIFT SAMPLER	
PP - PERISTALIC PUMP		BP - BLADDER PUMP	
SL - SUCTION LIFT PUMP			

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Groundwater ~~SURFACE~~ WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE April 8, 1988 LOG TIME 1414
LOCATION ID 04-253 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 253-M001 SAMPLE DEPTH (FT.) _____
SAMPLING PERIOD: START 1407 (Sampling April 9, 1988) COMPLETE ~~April 8~~ April 9, 1988 1418
SAMPLING METHOD B LOGGER CODE BEW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS DTW 6.38ft / DTW 6.38ft / DTW 6.39ft / DTB 37.8ft / DTB 37.8ft
Min. three volumes is 15 gals Volumes removed: 3.0 gals + 3.0 gals + 3.0 gals + ~~3.0 gal~~ ~~aut~~
37.8 − 6.38 = 31.42
Sample water was clear with a slight brown cast April 9, 1988 3.0 gals + 3.0 gal + ~~3.0 gal~~

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	6.71/6.85/7.2/7.1/7.2	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	~~700~~/690/710/690/680	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	12.5/12.0/12.5/12.0/11.5	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	
REDOX POTENTIAL	Eh	mvolts	
TEMPERATURE	TEMP	°C	
ALKALINITY ($CaCO_3$)	ALK	mg/l	

SAMPLE TYPES: (WSACODE)
D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 4/9/88 LOG TIME 1030
LOCATION ID 04 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 154-mw01 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 2.73
SAMPLING PERIOD: START 1040 COMPLETE 1455
SAMPLING METHOD B LOGGER CODE REW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS DTB = 15.91 vol. = 2.2 gal (x3) = 6.6 gal

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
1000	0.0	0.0	-	-	-	START PUMPING
1010	3.0		6.95	875	7.5	silty sandy brown
1020	3.0		6.95	875	7.5	" "
1025	3.0	(day)				

SAMPLES TYPES: (WSACODE)

D - DUPLICATE	FB - FIELD BLANK	G - GRAB	SP - SUBMERSIBLE PUMP
R - REPLICATE	TB - TRIP BLANK	B - BAILER	AL - AIR-LIFT SAMPLER
S - SPIKE	LB - LAB BLANK	PP - PERISTALIC PUMP	BP - BLADDER PUMP
K - KNOWN	N - NORMAL	SL - SUCTION LIFT PUMP	

SAMPLE METHODS: (WSMCODE)

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 4/9/88 LOG TIME 1005
LOCATION ID 04 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 255-N001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 5.0'
SAMPLING PERIOD: START ~~1519~~ 1530 4/10/88 COMPLETE 1537
SAMPLING METHOD P LOGGER CODE BFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS DTB = 35.75 vol 5.13 (x3) = 15.4 gal

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
1205	0.0	0.0	-	-	-	START PUMPING
1220	6.0		7.45	900	7.5	Very Silty
1030	3.0		7.5	900	9.5	"
1040	3.0		7.5	910	9.5	"
1150	1.5		7.4	975	11.5	"

SAMPLES TYPES: (WSACODE)

D - DUPLICATE	FB - FIELD BLANK	G - GRAB	SP - SUBMERSIBLE PUMP
R - REPLICATE	TB - TRIP BLANK	B - BAILER	AL - AIR-LIFT SAMPLER
S - SPIKE	LB - LAB BLANK	PP - PERISTALIC PUMP	BP - BLADDER PUMP
K - KNOWN	N - NORMAL	SL - SUCTION LIFT PUMP	

SAMPLE METHODS: (WSMCODE)

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 4/11/88 LOG TIME 1229
LOCATION ID 05-105 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 105-mool SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 3.57 ~~4/12/88~~ 90
SAMPLING PERIOD: START 0840 4/11/88 COMPLETE 0853 4/11/88
SAMPLING METHOD B LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS DTW 3.57' DTB ~~32.07~~ 26.79 OVA >1000 ppm
Column 23.22 = 3.88 gals × 3 volume = 11.63 purge volume

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
1255	3		7.05	2350	11.5	silty brown
1312	3		7.05	2270	11.5	silty brown
1320	1.5		6.98	2120	12.0	silty brown well dry
	1737	Recovery		to 4.5 feet approximately		
1742	3		7.20	2890	10.5	silty brown
1750	3		7.20	2740	12.0	silty, brown, well dry

SAMPLES TYPES: (WSACODE)

D - DUPLICATE	FB - FIELD BLANK	G - GRAB	SP - SUBMERSIBLE PUMP
R - REPLICATE	TB - TRIP BLANK	B - BAILER	AL - AIR-LIFT SAMPLER
S - SPIKE	LB - LAB BLANK	PP - PERISTALIC PUMP	BP - BLADDER PUMP
K - KNOWN	N - NORMAL	SL - SUCTION LIFT PUMP	

SAMPLE METHODS: (WSMCODE)

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 4/10/88 LOG TIME 14:44
LOCATION ID 05-107 (TCLF) LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 05-107-ME01 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 4.71
SAMPLING PERIOD: START 0945 4/23 COMPLETE 1000
SAMPLING METHOD B LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS DTW 4'8½" (4.71') DTB 27'¼" (27.02) OVA 25 units
Column 22.31 = 3.73 gal × 3 = 11.18 gal purge volume.

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	0.0	0.0	-	1570 ~~1057~~ cwk	-	START PUMPING
1513	3		6.85		12.0	silty brown
1523	2.5		7.15	1520	12.5	silty brown, dry
	~~4~~/11	1033	Approximate recovery to 14.5'			
1547	3		7.5	~~2250~~ cwk 1580	10.5	silty brown well dry
						0 cwk
~~1710~~	cwk 4/11	1710	Approximate		recovery to 20.4'	
1727	1.5		7.4	1570	10.8	silty brown, well dry
4/22 1414	Well recovery		to ~~8.5~~ 1' cwk 5.51'			
1444	3.0		6.95	1580	10.8	silty brown
1452	3.0		7.05	1550	11.5	silty brown, well dry
4/23 0941		Well recovered to			16.8	feet.

SAMPLES TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK		
R -	REPLICATE	TB -	TRIP BLANK		
S -	SPIKE	LB -	LAB BLANK		
K -	KNOWN	N -	NORMAL		

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 4/12/88 LOG TIME 0900
LOCATION ID 05-130 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 05-130-M001 SAMPLE DEPTH (FT.) _____
05-130-M161
05-130-M401
INITIAL GROUNDWATER DEPTH (FT) 4.08
SAMPLING PERIOD: START 1330 4/21/88 COMPLETE 1405 4/21/88
SAMPLING METHOD B LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS DTW 4.08 DTB 12.29' OVA
column 8.21 = 1.37 gals × 3 volumes = 4.11 gals purge water

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
4/12/88	0.0	0.0	-	-	-	START PUMPING
0920	.50		6.74	1540	8.4	silty brown
0926	.50		6.74	1540	8.3	silty brown
0930	1.50		6.65	1500	8.0	silty brown
0937	3.0		6.65	1480	8.8	silty brown
		baildown	test begins.			
4/21/88	DTW	1.80 ft				
0930	.5		6.85	1400	10.0	v. slty
1936	2.0		6.80	1300	9.5	" "
0943	3.0		6.75	1325	9.5	" "
0950	3.0		6.80	1410	10.0	" " Dry

SAMPLES TYPES: (WSACODE)

D - DUPLICATE	FB - FIELD BLANK	G - GRAB	SP - SUBMERSIBLE PUMP
R - REPLICATE	TB - TRIP BLANK	B - BAILER	AL - AIR-LIFT SAMPLER
S - SPIKE	LB - LAB BLANK	PP - PERISTALIC PUMP	BP - BLADDER PUMP
K - KNOWN	N - NORMAL	SL - SUCTION LIFT PUMP	

SAMPLE METHODS: (WSMCODE)

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 4/11/88 LOG TIME 1054
LOCATION ID 05-231 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 05-231-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 12.01
SAMPLING PERIOD: START 1015 4/23 COMPLETE 1030 4/23
SAMPLING METHOD B LOGGER CODE REW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS DTW 12.01' DTB 35.80' OVA 550 ppm
Column 24.79' = 4.14 gals x 3 volumes = 12.42 gal purge water

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

	TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
		0.0	0.0	-	-	-	START PUMPING
4/11	1125	3		7.15	2930	11.5	silty gray-brown, tan
	1132	3		7.05	2810	10.5	silty gray brown
	1148	3		6.90	2890	10.7	silty gray brown
	1159	2.5		7.05	3010	11.0	silty gray brown, well dry
			4/12 9:06	Recovery	approximately	28.5'	
4/12	1301	1.75		6.05	3150	12.1	well dry silty brown
4/18	1346		4/18	Recovery	approximately	30.5'	
4/21	0912		well	recovery	to	29.2'	
4/22	Well	recovered	to	28.73	ft	Time	0820
4/23	1005	well	recovered	to	28.2'	feet	

SAMPLES TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 4/21/88 LOG TIME 1015
LOCATION ID 05-132 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 05-132-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 3.17
SAMPLING PERIOD: START 1140 COMPLETE 1200
SAMPLING METHOD B LOGGER CODE REW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS DTD 18.86 - 2.62 gallons x 3 = 7.86 gl. to be purged
DTW 3.17
Column 15.69 OVA .5 units

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	-
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	-

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
1020	0.0	0.0	-	-	-	START PUMPING
1030	3.0		6.95	1750	8.5	Very Silty brown
1035	3.0		6.90	1650	9.5	" " "
1040	3.0		7.90	1700	10.0	" " "
1045	1.5		7.0	1925	10.5	" " Dry
4/22/88	0810	Water recovered to	3.70	feet		
4/22/88	1136	Water recovered to	3.60	feet		

SAMPLES TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK		
R -	REPLICATE	TB -	TRIP BLANK		
S -	SPIKE	LB -	LAB BLANK		
K -	KNOWN	N -	NORMAL		

SAMPLE METHODS: (WSMCODE)

G -	GRAB			SP -	SUBMERSIBLE PUMP
B -	BAILER			AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP			BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP				

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 4/13/88 LOG TIME 0930
LOCATION ID 05-233 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 233-0001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 6.53
SAMPLING PERIOD: START 1350 4/12/88 COMPLETE 1410
SAMPLING METHOD _____ LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS DTW 6.53 DTB 38.35 OVA >1000 ppm
Column 31.82 = 5.31 gal × 3 volumes = 15.9 H purge volume

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

	TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
		0.0	0.0	-	-	-	START PUMPING
	0930	3		7.6	4850	9.8	silty gray brown
	0947	3		7.6	4880	9.3	silty brown
	0955	3		7.55	4760	9.6	silty brown
	1006	2.25		7.4	4890	9.8	silty brown
			Began slug test				
4/21	0933		Well recovered to 53 feet				
4/21	0950	3		7.75	4870	10.5	silty brown
4/21	0958	3		7.85	4950	10.5	silty brown
	1005	3		7.80	4860	11.0	silty brown
	1018	3		7.85	4890	11.5	silty brown
	1028	1		7.99	4850	11.5	well dry
4/21	88 0910	Water recovered to 23.5 feet					

SAMPLES TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 4/12/88 LOG TIME 15:55
LOCATION ID 05-134 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 134-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 7.20
SAMPLING PERIOD: START 0830 COMPLETE 0850
SAMPLING METHOD Teflon Bailer (B) LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS DTW 5.84' DTB 17.6' OVA 40 ppm
Column 11.76 = 1.9 gals x 3 volumes = 5.89 gallons purge volume

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
1204	1.5		6.55	~~120~~ cwik 1210	9.25	silty brown
1210	3.0		6.45	1180	9.50	silty brown
1215	3.0		6.35	1220	10.5	silty brown
1243	2.0		6.15	1220	11.0	silty brown, well dry
4/13 0828	Water level checked				7.20'	Not recharged
		total all stg.				

SAMPLES TYPES: (WSACODE)
D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 4/11/88 LOG TIME 1230
LOCATION ID 05-235 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 235-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 5.65
SAMPLING PERIOD: START 1510 4/12/88 COMPLETE 1424 (590) 4/12/88
SAMPLING METHOD B LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS DTW 5.65 DTB 32.07' OVA 700 ppm
column 26.42 = 4.41 gals x 3 volumes = 13.23 purge volume

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
1329	3		10.40	1200	11.5	grout contamination, silty brown
1335	3		10.03	1190	11.8	silty brown
1343	3		8.85	1210	12.0	silty brown
1353	2.5		7.65	1320	12.5	silty brown, well dry
	1737	Recovery to approximately 17.5 feet				
1802	3		7.85	1510	12.8	silty brown well dry

SAMPLES TYPES: (WSACODE)
D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 4/12/88 LOG TIME 1005
LOCATION ID 05-167 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 05-167-M001 SAMPLE DEPTH (FT.) _____
DT –

INITIAL GROUNDWATER DEPTH (FT) 12.08'
SAMPLING PERIOD: START 1100 4/23/88 COMPLETE 1110 4/23/88
SAMPLING METHOD B LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS DTW 12.08' DTB 19.89 Column 7.81 = 1.30 gals
OVA < 0.25 ppm purge volume = 3x1.30 = 3.91 gals

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

	TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
		0.0	0.0	-	-	-	START PUMPING
	1033	.5		6.85	1970	10.8	silty brown
	1037	.5		6.75	1940	10.5	slightly silty
	1047	2.5		6.65	2020	10.8	very slightly silty
			Start baildown test at 1047				
4/13	1031	2.0		7.15	2080	11.0	silty brown, well dry
4/18	1350		Checked	recovery - 16.6'			
4/21	0908		Checked	recovery 15.58'			
4/22	~~1326~~	well	measured to	~~1~~ 15.22'			
4/23	1035	Well	recovered to	14.82'			

SAMPLES TYPES: (WSACODE)

D - DUPLICATE	FB - FIELD BLANK	G - GRAB	SP - SUBMERSIBLE PUMP
R - REPLICATE	TB - TRIP BLANK	B - BAILER	AL - AIR-LIFT SAMPLER
S - SPIKE	LB - LAB BLANK	PP - PERISTALIC PUMP	BP - BLADDER PUMP
K - KNOWN	N - NORMAL	SL - SUCTION LIFT PUMP	

SAMPLE METHODS: (WSMCODE)

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 4/8/88 LOG TIME 1045
LOCATION ID 06 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 108-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 4.75
SAMPLING PERIOD: START 1600 COMPLETE 1615
SAMPLING METHOD B LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS DTB = 26.4 vol = 3.57 gal (x3) = 10.7 gal

FINAL PARAMETER MEASUREMENTS:

			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	
REDOX POTENTIAL	Eh	mvolts	
TEMPERATURE	TEMP	°C	
ALKALINITY ($CaCO_3$)	ALK	mg/l	

How BG 2 unit reading Good

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
1040	0.0	0.0	-	-	-	START PUMPING
1050	3.0		6.90	900	8.0	Very S. H.S.
1100	7.0		6.85	950	8.5	"
1110	3.0		7.0	750	8.0	" Dr.
1130	4.0		6.85	1000	8.0	" Dr.

SAMPLES TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 4/8/88 LOG TIME 1650
LOCATION ID 06 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 109-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 1.80
SAMPLING PERIOD: START 4/8/88 1648 COMPLETE 1705
SAMPLING METHOD B LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD ~~DF~~ V
COMMENTS DTB = 27.29 vol 4.25 gal/ft x 3 ft = 12.7 gal

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

Hnu BG = 2 units reading 5 units

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
1055	3.0		7.65	700	8.5	very silty
1105	3.0		7.45	700	8.5	" "
1110	1.0 (dry)		7.30	700	8.5	" "
Total	6.0 + dry					

SAMPLES TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK		
R -	REPLICATE	TB -	TRIP BLANK		
S -	SPIKE	LB -	LAB BLANK		
K -	KNOWN	N -	NORMAL		

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 4/8/88 LOG TIME 0830
LOCATION ID 06 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 110-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 5.03
SAMPLING PERIOD: START 1640 4/8/88 COMPLETE 1730 4/8/88
SAMPLING METHOD B LOGGER CODE RFN
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS DTB: 27.99 vol 3.83gal (x3) = 11.5

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

Hnu = B.G.

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
0845	0.0	0.0	-	-	-	START PUMPING
0850	3.0		6.85	775	9°	Cloudy, silted
0900	3.0		6.90	775	9°	" "
0905	3.0		6.85	750	9.5°	" "
0910	3.0		6.95	750	9.0	" "
						* Didn't go dry
Total	12.0gal					

SAMPLES TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID 3LFRD LOG DATE ~~4/8~~ 4/9/88 LOG TIME ~~0935~~ 0845
LOCATION ID 06 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 245-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 6.75'
SAMPLING PERIOD: START 1453 4/10/88 COMPLETE 1511
SAMPLING METHOD B LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS DTB 37.46 5.12 gal 3 = 15.38
4" MW Twnty initial DTW 6.75'

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
~~0837~~ ~~0847~~	0.0	0.0	-	-	-	START PUMPING
0845	3.0		8.14	435	8	Brown by turbid
0855	3.0		7.95	430	9.5	" "
0907	3.0		7.85	430	10	" "
~~0917~~	~~3.0~~		7.85	410	10	" "
						Went dry 2 Times
total	12.0 gal					

SAMPLES TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK		
R -	REPLICATE	TB -	TRIP BLANK		
S -	SPIKE	LB -	LAB BLANK		
K -	KNOWN	N -	NORMAL		

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 4/9/88 ~~4/8/88~~ LOG TIME ~~0855~~ 0815

LOCATION ID 06 ~~144~~ LOT CONTROL NO.

SAMPLE TYPE N SAMPLE ID 144-M001 SAMPLE DEPTH (FT.)

INITIAL GROUNDWATER DEPTH (FT) 3.42'

SAMPLING PERIOD: START 1340 COMPLETE 1400

SAMPLING METHOD B LOGGER CODE RFW

LAB CODE DATE SENT

PRESERVATION METHOD

COMMENTS DTB 15.55 - 3.74 x 3 = 8.2 gal.
HNU = 6 initial DTW 3.42
16.45

FINAL PARAMETER MEASUREMENTS:

			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	
REDOX POTENTIAL	Eh	mvolts	
TEMPERATURE	TEMP	°C	
ALKALINITY ($CaCO_3$)	ALK	mg/l	

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
0815	0.0	0.0	-	-	-	START PUMPING
0825	3.0		7.0	675	7.5	Very S.W. /
0905	3.0		6.5	710	7.0	"
0915	5.0		7.05	650	7.5	" Dry /

SAMPLES TYPES: (WSACODE)

D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

06-146

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE April 10, 1988 LOG TIME 1056
LOCATION ID 06 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 146-0001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 4.26
SAMPLING PERIOD: START 1015 4/4/88 COMPLETE 1035
SAMPLING METHOD B LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS QHNw 9.0 units initial DTW = 4.76 ft 4.25, 4.26. DTB 17.90 ft
Minimum three volumes = 7.0 gal

FINAL PARAMETER MEASUREMENTS: 17.9 − 4.25 = 13.65

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
1109	3.0		7.10	480	8.9	water slight brown gray and a little cloudy
1114	3.0		7.05	590	9.5	water light brown, slightly cloudy, clears as with bits
1125	3.0		7.15	550	9.5	light brown heavier s. ft — Dry

SAMPLES TYPES: (WSACODE)
D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 4/8/88 LOG TIME 0830
LOCATION ID 06 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 247-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 5.25
SAMPLING PERIOD: START 1440 COMPLETE 1420
SAMPLING METHOD B LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS DTB = 29.04 vol = 3.97gal (x3) = 11.91gal

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
0845	0.0	0.0	-	-	-	START PUMPING
0850	3.0		7.35	460	9.5	Barely Silty
0900	3.0		7.25	475	10.0	"
0910	3.0		7.20	600	9.5	"
0925	H 0		7.25	600	10.0	" Dry

SAMPLES TYPES: (WSACODE)

D - DUPLICATE	FB - FIELD BLANK	G - GRAB	SP - SUBMERSIBLE PUMP
R - REPLICATE	TB - TRIP BLANK	B - BAILER	AL - AIR-LIFT SAMPLER
S - SPIKE	LB - LAB BLANK	PP - PERISTALIC PUMP	BP - BLADDER PUMP
K - KNOWN	N - NORMAL	SL - SUCTION LIFT PUMP	

SAMPLE METHODS: (WSMCODE)

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID ~~07-ann~~ SLFRD LOG DATE 4/22/88 LOG TIME 0928

LOCATION ID 07-102 LOT CONTROL NO. _____

SAMPLE TYPE _____ SAMPLE ID 07-102-0001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 6.38

SAMPLING PERIOD: START 1545 COMPLETE 1600

SAMPLING METHOD B LOGGER CODE BFW

LAB CODE _____ DATE SENT _____

PRESERVATION METHOD _____

COMMENTS DTW 6.38 DTB 27.75 OVA ~~900~~ quik 90 units

Column 21.37 = 3.57 gals × 3 volumes = 10.70 gals purge water

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	- -
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	-

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
1007	3		7.05	320	10.0	silty brown, black sand
1013	2		7.45	310	9.75	black silty brown, going dry
1028	1		7.45	305	10.0	silty brown, well dry
1055	2		7.05	320	10.0	silty brown, well dry again
1355	2		7.05	320	12.0	silty brown
1545	Well	recved	t.	10.4		ready to sample

SAMPLES TYPES: (WSACODE)

D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 4/19/88 LOG TIME 0900

LOCATION ID 07 LOT CONTROL NO. _____

SAMPLE TYPE _____ SAMPLE ID 103-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 5.86'

SAMPLING PERIOD: START 0830 4/20/88 COMPLETE 0835 (4/20/88)

SAMPLING METHOD B LOGGER CODE RFW

LAB CODE _____ DATE SENT _____

PRESERVATION METHOD DTB = 24.91

COMMENTS DTB-24.91 Vol = 3.18gal(x3) = 9.54gal

DTB = No Reading

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
1012	0.0	0.0	-	-	-	START PUMPING
1015	30		7.2	1250	11.5	heavily silted
1017	1.5					(dry)
1500	3.0		7.2	1375	12	heavily silted
1504	1.0		7.2	1375	12	(dry)

SAMPLES TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 4/19/88 LOG TIME [illegible]
LOCATION ID 07-104 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 07104-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 6.00
SAMPLING PERIOD: START 0830 4/21/88 COMPLETE 0840 4/21/88
SAMPLING METHOD B LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS DTB · 25.05 - 16.7 · 3.18 gal x 3 = 9.55 gal to be purged
DTW · 6.00
19.05
OVA 200 ppm

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
0900	0.0	0.0	-	-	-	START PUMPING
0910	1/2		7.2	775	12.0	Very silty dry
1515	3.0		7.25	775	12.5	silty (dry)
4/20/88 0900	2.0		7.25	775	13.0	(dry)
4/21/88 0826		Recovery	to	17.25	feet	

SAMPLES TYPES: (WSACODE)

D - DUPLICATE	FB - FIELD BLANK	G - GRAB	SP - SUBMERSIBLE PUMP
R - REPLICATE	TB - TRIP BLANK	B - BAILER	AL - AIR-LIFT SAMPLER
S - SPIKE	LB - LAB BLANK	PP - PERISTALIC PUMP	BP - BLADDER PUMP
K - KNOWN	N - NORMAL	SL - SUCTION LIFT PUMP	

SAMPLE METHODS: (WSMCODE)

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 7/21 LOG TIME 1115
LOCATION ID 07-136 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 07-136 M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 7.28
SAMPLING PERIOD: START 1515 COMPLETE 1530
SAMPLING METHOD B LOGGER CODE EFN
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS DTB 19.83 12.55 x .167 · 7.1 gal x 3 = 6.3 gal.
DTW 7.28 Duplicate sample taken OVA > 1000 units
12.55

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	-
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	-

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
1115	0.0	0.0	-	-	-	START PUMPING
1135	3.0		6.83	1400	26.0	Very Silty
1145	3.0		6.85	1590	29.0	" "
1149	3.0		6.85	1590	30.0	" "
1152	3.0		6.90	1500	29.0	Slightly silty
1200	3.0		7.0	1300	26.0	Very Silty Dry
	*Note: this is very warm for groundwater!!!					

SAMPLES TYPES: (WSACODE)

D - DUPLICATE	FB - FIELD BLANK	G - GRAB	SP - SUBMERSIBLE PUMP
R - REPLICATE	TB - TRIP BLANK	B - BAILER	AL - AIR-LIFT SAMPLER
S - SPIKE	LB - LAB BLANK	PP - PERISTALIC PUMP	BP - BLADDER PUMP
K - KNOWN	N - NORMAL	SL - SUCTION LIFT PUMP	

SAMPLE METHODS: (WSMCODE)

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 4/21/88 LOG TIME 1039
LOCATION ID 07-237 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 07-237-MW01 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 7.24
SAMPLING PERIOD: START 1510 COMPLETE 1620
SAMPLING METHOD B LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS DTW 7.24' DTB 40.92' OVA >1000 ppm
Column 33.68' = 5.62 gals × 3 volumes = 16.87 gals purge water

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	-
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	-

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
1105	3		8.90	330	17.0	silty gray, very
1117	3		8.35	320	16.5	very silty gray
1131	3		8.05	325	16.0	very silty gray
1142	3		8.25	310	15.5	very silty gray
1150	3			300	15.0	very silty, well dry
4/22 0847		Recovery	to	10.43	feet	
4/22 1105		Recovery	to	9.65	feet	Ready to sample
	Sample	very heavy	silt	to	ft	bubbles like
		Carbonation				

SAMPLES TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK		
R -	REPLICATE	TB -	TRIP BLANK		
S -	SPIKE	LB -	LAB BLANK		
K -	KNOWN	N -	NORMAL		

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 4/13/98 LOG TIME 1320
LOCATION ID 07-138 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 138-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) _____
SAMPLING PERIOD: START 1450 COMPLETE 1505
SAMPLING METHOD B LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS DTW 3.98 DTB 17.87' OVA 4 ppm
Column 13.89 = 2.32 gals x 3 volumes = 6.96 gals purge water

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
1235	3.0		6.35	990	10.0	slightly silty, brown
1240	3.0		6.30	790	10.2	slightly silty, brown
1252	2.75		6.35	800	10.9	slightly silty brown, well dry
4/18 1434		Well recovered to			13.06	

SAMPLES TYPES: (WSACODE)
D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLERD LOG DATE 4/12/88 LOG TIME 1713
LOCATION ID ~~05~~ MW 07-239 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 239-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 5.98
SAMPLING PERIOD: START 1440 COMPLETE 1450
SAMPLING METHOD B LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS DTW 5.98' DTB 37.89' OVA > 1000 ppm
Column 31.91 = 5.33 gals x 3 volumes = 15.99 gal min purge volume.

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

	TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
		0.0	0.0	-	-	-	START PUMPING
	1737	3.0		7.60	580	14.0	gray slightly silty
	1746	3.0		7.65	570	14.5	gray silty
	1751	3.0		7.65	580	14.0	brown gray silty
	1758	3.0		7.60	550	13.5	silty gray
	1809	1.75		7.70	550	14.0	silty gray, well dry
4/13	1043	Well recharged		to approximately 28.25 feet.			
	1050	3.0		7.75	550	11.5	silty gray
	1102	3.0		7.70	540	11.8	silty gray, well dry
4/18	1430	Well recovered		to 16.72 feet			

SAMPLES TYPES: (WSACODE)
D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLERD LOG DATE 4/19/88 LOG TIME 1115
LOCATION ID 07-140 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 07140-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 6.05'
SAMPLING PERIOD: START 1420 4/22/88 COMPLETE 1430
SAMPLING METHOD B LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS DTB= 0.87 vol = 1.97gal x3 = 5.92gal OVA .25 units

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
1115	0.0	0.0	-	-	-	START PUMPING
1120	3.0		7.35	625	8.5	Very Silty
1125	3.0		7.15	625	7.5	Slightly silty - dry
4/22 0848	Recovery to		13.11	feet		
4/22 0900	Recovery to		12.11	feet		
4/22 0920	Recovery to		12.10	feet		Time to sample

SAMPLES TYPES: (WSACODE)
D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 4/13/88 LOG TIME 1122
LOCATION ID 07-241 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 07-241-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 8.32
SAMPLING PERIOD: START 1405 4/18/88 COMPLETE 1413 4/18/88
SAMPLING METHOD B LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS DTW 8.32 DTB 38.10' OVA >1000 ppm
column 29.78 = 4.97 gals x 3 volumes = 14.92 gals purge water

FINAL PARAMETER MEASUREMENTS:

			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	
REDOX POTENTIAL	Eh	mvolts	
TEMPERATURE	TEMP	°C	
ALKALINITY ($CaCO_3$)	ALK	mg/l	

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
1139	3.0		7.30	1180	12.0	gray, very silty
1146	3.0		7.35	1150	11.8	gray very silty
1152	3.0		7.30	1170	12.0	gray very silty
1207	3.0		7.35	1180	12.5	gray, silty well dry quick
1213	0.5		7.20	1210	12.5	gray, sandy-silty well dry
4/18 1400	well	recovered to 8.78 feet.				

SAMPLES TYPES: (WSACODE)
D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFLD LOG DATE 4/22/88 LOG TIME 1020
LOCATION ID 07-142 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 07-142-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 6.43
SAMPLING PERIOD: START 1515 COMPLETE 1525
SAMPLING METHOD B LOGGER CODE BFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS DTW 6.43 ~2 gal x 3 = ~6 gal to purge
DTB 17.92 H2O Tests QA < 1/2
column 11.49

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		-
ALKALINITY ($CaCO_3$)	ALK	mg/l		-

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
1020	0.0	0.0	-	-	-	START PUMPING
1032	3.0		7.05	650	8.5	Slightly silty
1037	3.0		7.05	650	8.0	
1043	3.0		7.25	650	9.5	slightly silty, going dry
1050	Well recovered		To	8.13	pot	

SAMPLES TYPES: (WSACODE)
D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLF2D LOG DATE 4/22/84 LOG TIME 0935

LOCATION ID 07-243 LOT CONTROL NO. _____

SAMPLE TYPE _____ SAMPLE ID 07-243-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 7.62

SAMPLING PERIOD: START 1530 COMPLETE 1540

SAMPLING METHOD B LOGGER CODE RFW

LAB CODE _____ DATE SENT _____

PRESERVATION METHOD _____

COMMENTS DTB 37.92 = 5 gal x 3 = 15 gal to be purged.
DTW 7.62 HNU = 4 OVA = >1000
30.30 "Well is bubbling during bailing"

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	-
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	-

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
0945	0.0	0.0	-	-	-	START PUMPING
0955	3.0		8.0	550	11.0	Very Silty "Bubbling"
1004	3.0		7.9	550	11.0	" " "
1010	3.0		7.95	550	11.0	"
1017	2.0		7.9	525	11.0	Dry
1048	3.0		7.95	550	10.5	Dry
1115	3.0		8.0	550	10.5	Very Silty going dry
4/23 1510	Well recovered to		10.	85		

SAMPLES TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK		
R -	REPLICATE	TB -	TRIP BLANK		
S -	SPIKE	LB -	LAB BLANK		
K -	KNOWN	N -	NORMAL		

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID GLFRD LOG DATE 4/18/88 LOG TIME 1632
LOCATION ID 08-126 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 08-128-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) _____
SAMPLING PERIOD: START ~~0900~~ 0915 4/23 COMPLETE ~~0905~~ 4/23 0925
SAMPLING METHOD B LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS DTW 3.84 DTB 22.88 OVA 1000 units
Column 19.04 = 3.18 gals x 3 volumes = 9.54 gals purge water

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

	TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
		0.0	0.0	-	-	-	START PUMPING
	1647	2.5		6.70	3520	9.5	silty brown
	1653	2.5		6.85	3410	9.25	silty brown
	1658	2.5		7.05	3430	9.25	silty brown
	1607	2.0		7.25	3550	9.25	silty brown, dry
4/21	0900	Well recovered		to 16.95	feet.		
4/22	0535	well recovered		to 16.06	ft		
4/23	0911	Well recovered		to 15.21	feet		
4/22							

SAMPLES TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 4/18/88 LOG TIME 1755
LOCATION ID 08-127 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 127-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 6.02
SAMPLING PERIOD: START 1500 4/19/88 COMPLETE 1509 4/19/88
SAMPLING METHOD B LOGGER CODE RFW / IDO / XE
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS DTW 6.02 DTB 22.83 CVA 1 ppm
Column 16.81 = 2.80 gals × 3 volumes = 8.42 gals purge water

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
1802	2.5		7.10	2320	9.5	silty brown
1807	2.5		7.15	2100	9.0	silty brown
1811	2.5		7.15	2050	9.5	silty brown
1818	2.25		7.25	2750	10.0	silty brown, well dry
1134		Water level	15.99' fully	recharged	repurge	
1139	3		6.30	2150	9.5	silty brown
1144	3		6.70	2050	10.0	silty brown
1146	1.5		6.75	2100	10.5	silty brown, well dry

SAMPLES TYPES: (WSACODE)

D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

Equipment Blank

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE April 19, 1988 LOG TIME 1440
LOCATION ID 08-127 LOT CONTROL NO. _____
SAMPLE TYPE EB SAMPLE ID 08-127-M201 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) _____
SAMPLING PERIOD: START 1440 COMPLETE 1443
SAMPLING METHOD B LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING

SAMPLES TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

EB - Equip Blank

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 4/18/88 LOG TIME 1714
LOCATION ID 08-128 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 128-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 3.51
SAMPLING PERIOD: START 0900 4/23 COMPLETE 0905 4/23
SAMPLING METHOD B LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS DTW 3.51' DTB 19.87' OVA < 5 units
Column 16.36' = 2.73 gals × 3 volumes = 8.20 gals purge water

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

	TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
		0.0	0.0	-	-	-	START PUMPING
	1729	2.5		7.05	1780	8.0	Silty brown
	1734	2.5		7.10	1850	8.0	Silty brown
	1739	2.5		7.10	2050	8.5	Silty brown, going dry
	1746	2.0		7.15	2590	9.0	Silty brown, dry
4/21	0855	Well recovered to 19.33 feet.					
4/22	0841	Well sumed to 14.6 feet					
4/23	0851	Well recovered to 13.7 feet					

SAMPLES TYPES: (WSACODE)
D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 4/18/88 LOG TIME 1544

LOCATION ID 08-129 LOT CONTROL NO. _____

SAMPLE TYPE N SAMPLE ID 08-129-M00C SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 3.76

SAMPLING PERIOD: START 4/19/88 1115 COMPLETE 4/19/88 1121

SAMPLING METHOD B LOGGER CODE DFW

LAB CODE _____ DATE SENT _____

PRESERVATION METHOD _____

COMMENTS DTW 3.76 DTB 19.87 OVA 150 ppm

Column 16.11 = 2.69 gals x 3 volumes = 8.07 gals purge volume

LEL 15% 4/19/88 DTW = 7.64 ft 4/19/88

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
1601	~~3~~ 2.5		5.16	6900	10.5	Brown, silty
1607	2.5		5.35	6950	~~10.9~~ 9.5	silty brown
1612	2.5		5.30	6950	9.5	silty brown
1622	2.25		5.30	6800	10.5	silty brown, well dry
4/19 1117		Recovery	to	7.64 feet.		well sampled

SAMPLES TYPES: (WSACODE)

D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SCFRD LOG DATE June 20, 1988 LOG TIME 1546
LOCATION ID 05 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 107-M021 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 6.08 ft
SAMPLING PERIOD: START 1610 COMPLETE June 20 1613
SAMPLING METHOD B LOGGER CODE RFW
LAB CODE _____ DATE SENT June 21, 1988
PRESERVATION METHOD Cool
COMMENTS Water brown and cloudy - [illegible] went dry -

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	6.80/6.90/6.80	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	1550/1600/1600	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	14.5/14.0/14.0	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
1550	3.00 gals					
1556	3.00 gals					
1601	2.0 gals					
	dry well					

SAMPLES TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK		
R -	REPLICATE	TB -	TRIP BLANK		
S -	SPIKE	LB -	LAB BLANK		
K -	KNOWN	N -	NORMAL		

SAMPLE METHODS: (WSMCODE)

G -	GRAB			SP -	SUBMERSIBLE PUMP
B -	BAILER			AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP			BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP				

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 6-21-88 LOG TIME _____

LOCATION ID 05 LOT CONTROL NO. _____

SAMPLE TYPE N SAMPLE ID 132-[illegible]021 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 6.11

SAMPLING PERIOD: START 1209 COMPLETE 1210

SAMPLING METHOD 3 LOGGER CODE KFW

LAB CODE _____ DATE SENT 6/12/88

PRESERVATION METHOD Cold

COMMENTS Vol = 2x13 gal

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
1057	3.0		6.95	1700	13	
1102	3.0		6.85	1600	12	
1106			6.95	1800	12	

SAMPLES TYPES: (WSACODE)

D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLRD LOG DATE June 20, 1988 LOG TIME 1600
LOCATION ID 05 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 167 - M021 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) _____
SAMPLING PERIOD: START 1626 COMPLETE ~~June 20~~ 1632
SAMPLING METHOD B LOGGER CODE RFW / CSK / JDO
LAB CODE _____ DATE SENT June 21, 1988
PRESERVATION METHOD Cool
COMMENTS Water cloudy brown - [illegible]

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	6.85/6.90/6.90	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	1700/1700/1710	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	13.5/13.5/13.5	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
	3.0 gals					
	3.0 gal					
	dry					

SAMPLES TYPES: (WSACODE)

D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 6-20-88 LOG TIME 1600

LOCATION ID 05 LOT CONTROL NO. _____

SAMPLE TYPE N SAMPLE ID 231-M021 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 6.39'

SAMPLING PERIOD: START 1555 COMPLETE 1600

SAMPLING METHOD B LOGGER CODE RFW

LAB CODE _____ DATE SENT 6/21/88

PRESERVATION METHOD Cold

COMMENTS Sunny, Cool, Light Wind, Time and Visible Purge of Four

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
1525	30		7.45	1800	15	
1535	6.0		7.15	1825	14	
1545	9.0		7.05	2150	15	
1555	12.0		7.10	2300	13	

SAMPLES TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK		
R -	REPLICATE	TB -	TRIP BLANK		
S -	SPIKE	LB -	LAB BLANK		
K -	KNOWN	N -	NORMAL		

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLERD LOG DATE 6-21-88 LOG TIME _____

LOCATION ID 05 LOT CONTROL NO. _____

SAMPLE TYPE N SAMPLE ID 233-M021 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 6.11

SAMPLING PERIOD: START 1213 COMPLETE 1215

SAMPLING METHOD P LOGGER CODE PFW

LAB CODE _____ DATE SENT 6/21/88

PRESERVATION METHOD Ice

COMMENTS Vol = 5.38

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
1020	3.0		7.35	~~3950~~ ~~3947~~ 3808	14	
1027	3.0		7.35	~~3880~~ 3808	12	
1034	3.0		7.15	4000	12	
1040	3.0		7.15	4100	13	
1047	1.0		7.2	4350	13	dry

SAMPLES TYPES: (WSACODE)

D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 6-21-88 LOG TIME _____
LOCATION ID 07 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 102-M021 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 7.73
SAMPLING PERIOD: START 1254 COMPLETE 1300
SAMPLING METHOD P LOGGER CODE AFW
LAB CODE _____ DATE SENT 6/21/88
PRESERVATION METHOD _____
COMMENTS 1 vol 3.34 gal

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
0930	3.0		7.20	430	12.5	clear
0935	1.5		7.25	430	12.5	clear
0953	1.0		7.30	440	13	clear
1113	1.5		7.38	480	13.5	clear
						//

SAMPLES TYPES: (WSACODE)
D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 6-20-88 LOG TIME _____

LOCATION ID 07 LOT CONTROL NO. _____

SAMPLE TYPE N.D SAMPLE ID 140-M021'a 140-M121' SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 7.89

SAMPLING PERIOD: START 0800 COMPLETE 1505

SAMPLING METHOD B LOGGER CODE BFW

LAB CODE _____ DATE SENT 6/21/88

PRESERVATION METHOD Cold

COMMENTS _____

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
1745	3.0		7.25	625	12	
1750	3.0		7.15	625	12	Gas will have to wait a few days sampling

SAMPLES TYPES: (WSACODE)

D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 4-21-88 LOG TIME _____

LOCATION ID 07 LOT CONTROL NO. _____

SAMPLE TYPE N SAMPLE ID 142-MO21 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 7.04

SAMPLING PERIOD: START 0912 COMPLETE 0915

SAMPLING METHOD B LOGGER CODE KFW

LAB CODE _____ DATE SENT 4-21-88

PRESERVATION METHOD CoCl

COMMENTS 1 vol = 1.64 gal

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
0910	3.0		6.95	550	13.5	
0915	3.0		7.00	510	13	

SAMPLES TYPES: (WSACODE)

D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFHB LOG DATE 6-21-88 LOG TIME _____

LOCATION ID 07 LOT CONTROL NO. _____

SAMPLE TYPE N SAMPLE ID 237-M021 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 5.82

SAMPLING PERIOD: START 1313 COMPLETE 1315

SAMPLING METHOD R LOGGER CODE RTH

LAB CODE _____ DATE SENT 6/2/88

PRESERVATION METHOD _____

COMMENTS WQC - 5 (90)

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	-
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	-

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
1149	3.0		7.85	500	22	
1149	30		7.80	490	21	
1154	30		7.75	425	19	
1203	30		7.55	450	18	dry

SAMPLES TYPES: (WSACODE)

D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 6-21-88 LOG TIME _____

LOCATION ID 07 LOT CONTROL NO. _____

SAMPLE TYPE N, MS, MSD SAMPLE ID 243-M021 SAMPLE DEPTH (FT.) _____
243-MS21
243-MS21

INITIAL GROUNDWATER DEPTH (FT) 7.26

SAMPLING PERIOD: START ~~0945~~ 1130 COMPLETE ~~0945~~ 1130

SAMPLING METHOD B LOGGER CODE RFW

LAB CODE _____ DATE SENT 6-21-88

PRESERVATION METHOD Cold

COMMENTS 1 vol = 5.12

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
0852	3.0		7.85	400	12.5	
0900	3.0		7.90	410	12	
0908	3.0		7.90	410	12	dry
0920	1.5		7.85	400	13	dry
0945	2.5		7.90	415	13	dry

SAMPLES TYPES: (WSACODE)

D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

Re-sample for common anions 6/22

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 6-22-88 LOG TIME _____

LOCATION ID C8 LOT CONTROL NO. _____

SAMPLE TYPE N SAMPLE ID 12-MC21 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 9.85

SAMPLING PERIOD: START ~~1555~~ 1725 COMPLETE 1730

SAMPLING METHOD 3 LOGGER CODE KFW

LAB CODE _____ DATE SENT 6/21/88

PRESERVATION METHOD _____

COMMENTS _____

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
1715	30	21	6.95	3300	12	
1720	30	~~2~~	6.95	3300	11	
1725	10	5	7.0	3325	11.5	

SAMPLES TYPES: (WSACODE)

D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 6-20-88 LOG TIME 1700
LOCATION ID C8 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 128-MC21 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 7.73
SAMPLING PERIOD: START 1657 COMPLETE 1700
SAMPLING METHOD B LOGGER CODE RFW
LAB CODE _____ DATE SENT 6/21/88
PRESERVATION METHOD Cold
COMMENTS _____

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
1648	3.0	1.5	6.85	1625	14	
1653	3.0	3.0	6.85	1800	11	

SAMPLES TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

Round #1

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 4/20/88 LOG TIME ~~12~~ 05 1420
LOCATION ID 01 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 501-W001 SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START 1420 COMPLETE 1435
SAMPLING METHOD G LOGGER CODE RFW
LAB CODE _____ DATE SENT April 21, 1988
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.25/7.25	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	1300/1300	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	10°/10°	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID SLFRD LOG DATE 4/20/88 LOG TIME 1440
LOCATION ID 01 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 502-W001 SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START 1445 COMPLETE 1450
SAMPLING METHOD G LOGGER CODE RFW
LAB CODE _____ DATE SENT April 21, 1988
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.65/7.70/7.70	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	520/535/520	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	10°/9°/9°	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)
D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

Round #1

Pump House SLF

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE April 20, 1988 LOG TIME 1745
LOCATION ID OJ LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 504-W001 SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START 1755 4/20/88 COMPLETE 1809 4/20/88
SAMPLING METHOD G LOGGER CODE RFW/JDU/CWK
LAB CODE _____ DATE SENT April 21, 1988
PRESERVATION METHOD _____
COMMENTS DTW = 19.60 ft DTB = 25.16 ft
Water clear and colorless

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	8.1/8.0/8.0	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	370/320/340	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	8.0/6.50/6.50	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)
D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

Round #1

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 4/20/88 LOG TIME 1150
LOCATION ID 02 LOT CONTROL NO.
SAMPLE TYPE N SAMPLE ID 502-W001 SAMPLE DEPTH (FT.) 8.7

SAMPLING PERIOD: START 1200 COMPLETE 1215
SAMPLING METHOD G LOGGER CODE RFW
LAB CODE DATE SENT April 21, 1988
PRESERVATION METHOD
COMMENTS

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.85/7.85/7.85	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	380/365/360	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	8.0/6.5/6.0	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID SLFRD LOG DATE 4/20/88 LOG TIME 1345
LOCATION ID 01 LOT CONTROL NO.
SAMPLE TYPE N SAMPLE ID 503-W001 SAMPLE DEPTH (FT.) Surface

SAMPLING PERIOD: START ~~1200~~ 1400 COMPLETE ~~1245~~ (CT.) 1415
SAMPLING METHOD G LOGGER CODE RFW
LAB CODE DATE SENT April 21, 1988
PRESERVATION METHOD
COMMENTS

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.9/7.9/7.9	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	440/445/445	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	12.0/11.0/11.5	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)
D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

Round #1

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 4/20/88 LOG TIME 1120
LOCATION ID C1 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID SW05-W001 SAMPLE DEPTH (FT.) 3.27

SAMPLING PERIOD: START 1130 COMPLETE 1145
SAMPLING METHOD G LOGGER CODE SFIU
LAB CODE _____ DATE SENT April 21, 1988
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.95/7.8/7.75	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	340/335/335	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	7.5/6.25/6.0	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID SDFRD LOG DATE 4/20/88 LOG TIME 1000
LOCATION ID SW2 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID SW06-W001 SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START 1010 COMPLETE 1025
SAMPLING METHOD G LOGGER CODE SFIU
LAB CODE _____ DATE SENT April 21, 1988
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.7/7.65/7.65	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	660/650/650	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	7.5/6.0/5.5	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)
D - DUPLICATE; R - REPLICATE; S - SPIKE; K - KNOWN; FB - FIELD BLANK; TB - TRIP BLANK; LB - LAB BLANK; N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB; B - BAILER; PP - PERISTALIC PUMP; SL - SUCTION LIFT PUMP; SP - SUBMERSIBLE PUMP; AL - AIR-LIFT SAMPLER; BP - BLADDER PUMP

Round #1

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 4/20/88 LOG TIME 1500
LOCATION ID 02 LOT CONTROL NO.
SAMPLE TYPE N SAMPLE ID 502-W001 SAMPLE DEPTH (FT.)

SAMPLING PERIOD: START 1520 COMPLETE 1530
SAMPLING METHOD G LOGGER CODE JFW
LAB CODE DATE SENT April 21, 1988
PRESERVATION METHOD DTW - 17.65'
COMMENTS

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.85/7.80/7.8	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	415/410/390	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	8.0/7.0/7.0	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID SLFRD LOG DATE 4/20/88 LOG TIME 1615
LOCATION ID 04 LOT CONTROL NO.
SAMPLE TYPE N SAMPLE ID 504-W001 SAMPLE DEPTH (FT.) 7.80

SAMPLING PERIOD: START 1630 COMPLETE 1645
SAMPLING METHOD G LOGGER CODE JFW
LAB CODE DATE SENT April 21, 1988
PRESERVATION METHOD DTW = 7.8'
COMMENTS

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.9/7.85/7.85	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	465/600/600	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	9/8.0/8.0	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)
D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

Round #1

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 4/20/88 LOG TIME 1500
LOCATION ID 04 LOT CONTROL NO.
SAMPLE TYPE N SAMPLE ID SW13-W001 SAMPLE DEPTH (FT.) 6.00

SAMPLING PERIOD: START 1500 COMPLETE 1805
SAMPLING METHOD G LOGGER CODE RFW
LAB CODE DATE SENT April 21, 1988
PRESERVATION METHOD
COMMENTS

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.65/7.6/7.65	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	625/600/600	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	9/8.5/8.0	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID SLFRD LOG DATE 4/20 LOG TIME 1830
LOCATION ID 02 LOT CONTROL NO.
SAMPLE TYPE N SAMPLE ID SW7-W001 SAMPLE DEPTH (FT.) surface

SAMPLING PERIOD: START 1830 COMPLETE 1840
SAMPLING METHOD G LOGGER CODE RFW
LAB CODE DATE SENT April 24, 1988
PRESERVATION METHOD
COMMENTS only one set field parameters taken due to lack of water

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	6.80	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	790	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	10	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)
D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

Round #1

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 4/20/88 LOG TIME 1650
LOCATION ID 04 LOT CONTROL NO.
SAMPLE TYPE N SAMPLE ID SW-W001 SAMPLE DEPTH (FT.) 6.5/5

SAMPLING PERIOD: START 1650 COMPLETE 1715
SAMPLING METHOD G LOGGER CODE RFW
LAB CODE DATE SENT April 21, 1988
PRESERVATION METHOD
COMMENTS

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.8/7.85/7.8	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	390/390/375	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	8.0/7.5/7.0	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID SLFRD LOG DATE 4/20/88 LOG TIME 1720
LOCATION ID 04 LOT CONTROL NO.
SAMPLE TYPE N SAMPLE ID SW-W001 SAMPLE DEPTH (FT.) Surface

SAMPLING PERIOD: START 1725 COMPLETE 1745
SAMPLING METHOD G LOGGER CODE RFW
LAB CODE DATE SENT April 21, 1988
PRESERVATION METHOD
COMMENTS Only one set field parameters taken due to lack of water.

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.45	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	690	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	9.5	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)
D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

Round #1

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE April 20, 1988 LOG TIME 1020
LOCATION ID 05 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 514-W001 SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START 1030 4/20/88 COMPLETE 1044 4/20/88
SAMPLING METHOD G LOGGER CODE RFW / TDU / CWK
LAB CODE _____ DATE SENT April 21, 1988
PRESERVATION METHOD _____
COMMENTS DTW = 5.61 top of water surface

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.20 / 7.20 / 7.20	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	950 / 940 / 980	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	6.5 / 6.5 / 6.5	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK		
R -	REPLICATE	TB -	TRIP BLANK		
S -	SPIKE	LB -	LAB BLANK		
K -	KNOWN	N -	NORMAL		

SAMPLE METHODS: (WSMCODE)

G -	GRAB - bucket			SP -	SUBMERSIBLE PUMP
B -	BAILER			AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP			BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP				

Round #1

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE April 20, 1988 LOG TIME 0950
LOCATION ID 05-515-W001 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 515-W001 SAMPLE DEPTH (FT.) 3.42 ft

SAMPLING PERIOD: START 1000 4/20/88 COMPLETE 1016 4/20/88
SAMPLING METHOD G LOGGER CODE RFW
LAB CODE _____ DATE SENT April 21, 1988
PRESERVATION METHOD _____
COMMENTS DTW 3.42 ft from marks on top of storm inlet. Water stagnant, no flow. Clear and colorless at start. Slightly brown as mud was stirred up during sampling. Grass floating in water

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.55 / 7.55 / 7.50	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	1310 / 1280 / 1280	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	7.0 / 7.0 / 6.0	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)
D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB = bucket
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

Round #1

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE April 20, 1988 LOG TIME 1055
LOCATION ID 05 LOT CONTROL NO. _____
SAMPLE TYPE N,S,SD SAMPLE ID 516-W001 SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START 1105 COMPLETE 1140 4/20/88
SAMPLING METHOD G LOGGER CODE RFW JJDO KWK
LAB CODE _____ DATE SENT April 21, 1988
PRESERVATION METHOD _____
COMMENTS DTW = 10.80 ft DTB = 12.79 ft

Matrix Spike + MSD collected also

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.30 / 7.60 / 7.35	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	340 / 355 / 360	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	9.5 / 8.5 / 9.0	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)
D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

Round #1

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE April 20, 1988 LOG TIME 1151
LOCATION ID 05 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 517-W001 SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START 1155 4/20/88 COMPLETE 1210 4/20/88
SAMPLING METHOD G LOGGER CODE RFW/CWK/TDO
LAB CODE _____ DATE SENT April 21, 1988
PRESERVATION METHOD _____
COMMENTS DTW 9.43 ft DTB=9.74 ft Water Clear and colorless.

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.40 / 7.60 / 7.30	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	330 / 325 / 320	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	9.5 / 9.5 / 9.8	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK		
R -	REPLICATE	TB -	TRIP BLANK		
S -	SPIKE	LB -	LAB BLANK		
K -	KNOWN	N -	NORMAL		

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

Round #1

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE April 20, 1988 LOG TIME 1330
LOCATION ID 05 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 518-W001 SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START 1340 4/20/88 COMPLETE 1349 4/20/88
SAMPLING METHOD G LOGGER CODE RFW / JDD / CWK
LAB CODE _____ DATE SENT April 21, 1988
PRESERVATION METHOD _____
COMMENTS DTW = 11.67 ft from top of concrete DTB 14.18 ft
Oil film on water surface

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.7/7.65/7.65	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	315/310/315	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	9.0/8.5/9.0	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK		
R -	REPLICATE	TB -	TRIP BLANK		
S -	SPIKE	LB -	LAB BLANK		
K -	KNOWN	N -	NORMAL		

SAMPLE METHODS: (WSMCODE)

G -	GRAB			SP -	SUBMERSIBLE PUMP
B -	BAILER			AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP			BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP				

Round #1

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE April 20, 1988 LOG TIME ~~1406~~ 1606
LOCATION ID 06 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 519-W001 SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START 1620 4/20/88 COMPLETE 1628 4/20/88
SAMPLING METHOD G LOGGER CODE RFW/SDO/CWK
LAB CODE _____ DATE SENT April 21, 1988
PRESERVATION METHOD _____
COMMENTS DTW = 6.83' DTB = ~~6.~~ CWK 7.00'
Note oily film on water surface. Oily water appears to be coming from south pipe

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.95/7.95/7.95	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	~~325~~/315/315	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	8.0/7.5/9.5	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)
D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

Round #1

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE April 20, 1988 LOG TIME 1635
LOCATION ID 06 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 520-W001 SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START 1645 4/20/88 COMPLETE 1652 4/20/88
SAMPLING METHOD G LOGGER CODE RFW/JDO/CWK
LAB CODE _____ DATE SENT April 21, 1988
PRESERVATION METHOD _____
COMMENTS DTW = 5.43 ft DTB = 5.47 ft
Flowing water, in a very small/tiny stream

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	8.05/8.20/8.20	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	185/180/175	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	7.5/7.0/7.0	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)
D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

Round #1

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE April 20, 1988 LOG TIME 1453
LOCATION ID 07 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 521-W001 SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START 1459 4/20/88 COMPLETE 1509 4
SAMPLING METHOD G LOGGER CODE RFW/JDC CWIC
LAB CODE _____ DATE SENT April 21, 1988
PRESERVATION METHOD _____
COMMENTS DTW = 5.47 ft DTB = 5.56 ft
water has an amber to peach color. Small flow of water just above sample point

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	9.35/9.45/9.50	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	405/415/415	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	14.5/14.5/14.5	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

* See Green book #2 p. 81 for instrument measures not water sampled but of water from discharge pipe.

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D - DUPLICATE	FB - FIELD BLANK	G - GRAB	SP - SUBMERSIBLE PUMP
R - REPLICATE	TB - TRIP BLANK	B - BAILER	AL - AIR-LIFT SAMPLER
S - SPIKE	LB - LAB BLANK	PP - PERISTALIC PUMP	BP - BLADDER PUMP
K - KNOWN	N - NORMAL	SL - SUCTION LIFT PUMP	

SAMPLE METHODS: (WSMCODE)

Round #1

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE April 20, 1988 LOG TIME 1515
LOCATION ID 07 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 522-W001 SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START 1520 4/20/88 COMPLETE 1531 4/20/88
SAMPLING METHOD G LOGGER CODE RFW/JDO/CWK
LAB CODE _____ DATE SENT April 21, 1988
PRESERVATION METHOD _____
COMMENTS DTW = 7.37 ft DTB 7.74 ft

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.8/7.85/8.10	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	420/435/350	
REDOX POTENTIAL	Eh	mvolts	9.0/7.5/11.0	
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)
D - DUPLICATE; FB - FIELD BLANK; R - REPLICATE; TB - TRIP BLANK; S - SPIKE; LB - LAB BLANK; K - KNOWN; N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB = Bucket; B - BAILER; PP - PERISTALIC PUMP; SL - SUCTION LIFT PUMP; SP - SUBMERSIBLE PUMP; AL - AIR-LIFT SAMPLER; BP - BLADDER PUMP

Round #1

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE April 20, 1988 LOG TIME 1349
LOCATION ID 07 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 523-W001 SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START 1405 4/20/88 COMPLETE 1411 4/20/88
SAMPLING METHOD G LOGGER CODE RFW/JDO/CWK
LAB CODE _____ DATE SENT April 21, 1988
PRESERVATION METHOD _____
COMMENTS DTW 10.60 ft DTB 10.81 ft
Water clear and colorless

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	8.0 / 8.0 / 8.0	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	282 / 295 / 295	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	7.5 / 7.5 / 7.5	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)
D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

Round #1

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE April 20, 1988 LOG TIME 1418
LOCATION ID 07 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 524-Wool SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START 1425 ~~1425~~ COMPLETE 1435
SAMPLING METHOD G LOGGER CODE BFW
LAB CODE _____ DATE SENT April 21, 1988
PRESERVATION METHOD _____
COMMENTS DTW 4.12 ft DTB = 6.13 ft
Note: fuel smell in storm and oily film on water surface

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.7/7.5/7.5	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	85/85/85	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	9.5/8.5/8.5	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)
D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

/ Round #2

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 5/10/88 LOG TIME 1500
LOCATION ID 01 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 501-W002 SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START 1510 COMPLETE 1520
SAMPLING METHOD G LOGGER CODE RFW.
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.3/7.3 17.2	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	680/700/700	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	21°/21.5°/21°	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID SLFRD LOG DATE 5/10/88 LOG TIME _____
LOCATION ID 01 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 503-W002-W102 SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD G LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	8.3/8.3/8.5	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	340/735/720	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	22/21.5/21.5	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK		
R -	REPLICATE	TB -	TRIP BLANK		
S -	SPIKE	LB -	LAB BLANK		
K -	KNOWN	N -	NORMAL		

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

Round #2

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 5/10/88 LOG TIME 1610
LOCATION ID 01 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 504-W002-W502 W602 SAMPLE DEPTH (FT.) 19.92 TOTAL 25.25

SAMPLING PERIOD: START 1610 COMPLETE 1647
SAMPLING METHOD BUCKET LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.3/7.3/7.3	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	315/340/340	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	10°/9.5/9°	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID SLFRD LOG DATE 5/10/88 LOG TIME 1645
LOCATION ID 01 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 502-W002 SAMPLE DEPTH (FT.) —

SAMPLING PERIOD: START 1700 COMPLETE 1710
SAMPLING METHOD G LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.9/7.9/7.5	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	755/750/750	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l	18°/17.5/17.5	

SAMPLE TYPES: (WSACODE)
D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE May 10, 1988 LOG TIME 1945
LOCATION ID 01 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 505-W002 SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START 1955 3/10/88 COMPLETE 1959 3/10/88
SAMPLING METHOD G LOGGER CODE RFW/JDO/GSK
LAB CODE _____ DATE SENT May 11, 1988
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.9/7.85/7.85	
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts	320/315/310	
TEMPERATURE	TEMP	°C	9°/7.5/7.0	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D - DUPLICATE	FB - FIELD BLANK	G - GRAB	SP - SUBMERSIBLE PUMP
R - REPLICATE	TB - TRIP BLANK	B - BAILER	AL - AIR-LIFT SAMPLER
S - SPIKE	LB - LAB BLANK	PP - PERISTALIC PUMP	BP - BLADDER PUMP
K - KNOWN	N - NORMAL	SL - SUCTION LIFT PUMP	

SAMPLE METHODS: (WSMCODE)

Dry, No Samples to Collect

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE May 10, 1988 LOG TIME 2029
LOCATION ID 02 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 506-W002 SAMPLE DEPTH (FT.) D

SAMPLING PERIOD: START 1200 5/10/88 COMPLETE _____
SAMPLING METHOD G LOGGER CODE RFW/JDO/GSK
LAB CODE _____ DATE SENT 7May
PRESERVATION METHOD _____
COMMENTS No water. Pond is dry

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)
D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE May 10, 1988 LOG TIME 2030
LOCATION ID 02 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 507-W002 SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START 2035 3/10/88 COMPLETE 2040 3/10/88
SAMPLING METHOD G LOGGER CODE RFW/JDO/GSK
LAB CODE _____ DATE SENT May 11, 1988
PRESERVATION METHOD _____
COMMENTS Brown colored water. Oily film
Only 1-2 gallons of water in the small hand dug hole
next to stuff gage

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	6.95/6.95/6.95	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	1050/1500/1500	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	15.0/15/15.0	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK		
R -	REPLICATE	TB -	TRIP BLANK		
S -	SPIKE	LB -	LAB BLANK		
K -	KNOWN	N -	NORMAL		

SAMPLE METHODS: (WSMCODE)

G -	GRAB			SP -	SUBMERSIBLE PUMP
B -	BAILER			AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP			BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP				

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE May 10, 1988 LOG TIME 2010
LOCATION ID 02 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID J08-W002 SAMPLE DEPTH (FT.) DTW = 8 ft 7 in
DTO = 8 ft 8.

SAMPLING PERIOD: START 2025 3/10/88 COMPLETE 2028 3/10/88
SAMPLING METHOD _____ LOGGER CODE RFW/JDO/GSK
LAB CODE _____ DATE SENT May 11, 1988
PRESERVATION METHOD G
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.9/7.9/7.9	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	320/315/315	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	8°/7.0/7.0	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID SLFRD LOG DATE 5/10/88 LOG TIME _____
LOCATION ID 02 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)
D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE May 10, 1988 LOG TIME 2045
LOCATION ID 02 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 509-W002 SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START 2055 5/10/88 COMPLETE 2100
SAMPLING METHOD G LOGGER CODE RFW/JDO/GSK
LAB CODE _____ DATE SENT May 11, 1988
PRESERVATION METHOD _____
COMMENTS Water Clear and Colorless

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.75/7.80	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	345/340	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	10.0/10.0	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D - DUPLICATE	FB - FIELD BLANK	G - GRAB	SP - SUBMERSIBLE PUMP
R - REPLICATE	TB - TRIP BLANK	B - BAILER	AL - AIR-LIFT SAMPLER
S - SPIKE	LB - LAB BLANK	PP - PERISTALIC PUMP	BP - BLADDER PUMP
K - KNOWN	N - NORMAL	SL - SUCTION LIFT PUMP	

SAMPLE METHODS: (WSMCODE)

Round #2

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 5/10/88 LOG TIME 1820
LOCATION ID 04 LOT CONTROL NO.
SAMPLE TYPE N SAMPLE ID 510 W002 SAMPLE DEPTH (FT.) 5.0'

SAMPLING PERIOD: START 1825 COMPLETE 1835
SAMPLING METHOD 6 LOGGER CODE REW.
LAB CODE DATE SENT
PRESERVATION METHOD
COMMENTS

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	6.9/6.9/	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	290/286	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	12°/10	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID SLFRD LOG DATE 5/10/88 LOG TIME 1840
LOCATION ID 06 LOT CONTROL NO.
SAMPLE TYPE N SAMPLE ID 520-W002 SAMPLE DEPTH (FT.) 5.0

SAMPLING PERIOD: START 1840 COMPLETE 1850
SAMPLING METHOD 6 LOGGER CODE REW
LAB CODE DATE SENT
PRESERVATION METHOD
COMMENTS

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	6.85/6.70	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	120/120/100	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	11°/11°/11.5°	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)
D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

Round #2

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 5/10/88 LOG TIME _____
LOCATION ID 04 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 512 W002 (W102 Gw) SAMPLE DEPTH (FT.) 7.81
SAMPLING PERIOD: START 1730 COMPLETE 1750
SAMPLING METHOD G LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.0/7.0/7.0	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	280/280/278	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	12°/12°/11.5	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID SLFRD LOG DATE 5/12/88 LOG TIME _____
LOCATION ID 04 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 511 W002 (W002RC) SAMPLE DEPTH (FT.) 6.67 (TOTAL 6.79)
SAMPLING PERIOD: START 1800 COMPLETE 1812
SAMPLING METHOD G LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	6.9/6.8/6.8	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	260/240/235	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	13°/11°/11°	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)
D - DUPLICATE; R - REPLICATE; S - SPIKE; K - KNOWN; FB - FIELD BLANK; TB - TRIP BLANK; LB - LAB BLANK; N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB; B - BAILER; PP - PERISTALIC PUMP; SL - SUCTION LIFT PUMP; SP - SUBMERSIBLE PUMP; AL - AIR-LIFT SAMPLER; BP - BLADDER PUMP

Round #2

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 5-10-88 LOG TIME 1817
LOCATION ID 04 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID SL3-W002 SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START 1820 COMPLETE 1825
SAMPLING METHOD G LOGGER CODE RFW
LAB CODE _____ DATE SENT May 11, 1988
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.20/7.25/7.20	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	250/270/270	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	12.0/11.5/11.5	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK		
R -	REPLICATE	TB -	TRIP BLANK		
S -	SPIKE	LB -	LAB BLANK		
K -	KNOWN	N -	NORMAL		

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE May 10, 1988 LOG TIME 1717
LOCATION ID 05 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 514-W002 SAMPLE DEPTH (FT.) DTW 5 ft 8 inch
DTB 7 ft 9 inch

SAMPLING PERIOD: START 1725 5/10/88 COMPLETE 1740 5/10/88
SAMPLING METHOD G LOGGER CODE RFW ISDO
LAB CODE _____ DATE SENT May 11, 1988
PRESERVATION METHOD _____
COMMENTS Note only film on water surface

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.40/7.30/7.30	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	2000/2000/2000	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	13.0/12.0/12.6	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK		
R -	REPLICATE	TB -	TRIP BLANK		
S -	SPIKE	LB -	LAB BLANK		
K -	KNOWN	N -	NORMAL		

SAMPLE METHODS: (WSMCODE)

G -	GRAB			SP -	SUBMERSIBLE PUMP
B -	BAILER			AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP			BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP				

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID 3LFRD LOG DATE May 10, 1988 LOG TIME 1620
LOCATION ID 05 LOT CONTROL NO. _____
SAMPLE TYPE [illegible] N SAMPLE ID 515-[illegible]202 SAMPLE DEPTH (FT.) DTW 6ft 5½ in DTB 6ft 6 in

SAMPLING PERIOD: START 1630 3/10/88 COMPLETE 1645 3/10/88
SAMPLING METHOD G LOGGER CODE RFW/JDO/BG1
LAB CODE _____ DATE SENT May 11, 1988
PRESERVATION METHOD _____
COMMENTS Water is muddy. Trees cuttings and paper trash in water.

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.45/7.45/7.15	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	2700/2600/2800	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	16.0°C/14.0°C/14.0°C	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)
D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE May 10, 1988 LOG TIME 1820 → 1900
LOCATION ID 05 LOT CONTROL NO. _____
SAMPLE TYPE N, R, S, SD SAMPLE ID 516-W002 SAMPLE DEPTH (FT.) DTW = 12/47 mi
516-W502 DTB = 15 ft / mi
516-W502
SAMPLING PERIOD: START 1835 5/10/88 COMPLETE 1900 5/10/88
SAMPLING METHOD G LOGGER CODE RFW/JDO/BG
LAB CODE _____ DATE SENT May 11, 1988
PRESERVATION METHOD _____
COMMENTS Oily film on water surface

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.55 / 7.65 / 7.55	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	650 / 600 / 650	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	13.0 / 12.0 / 16.5	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D - DUPLICATE	FB - FIELD BLANK		
R - REPLICATE	TB - TRIP BLANK		
S - SPIKE	LB - LAB BLANK		
K - KNOWN	N - NORMAL		

SAMPLE METHODS: (WSMCODE)

G - GRAB	SP - SUBMERSIBLE PUMP	
B - BAILER	AL - AIR-LIFT SAMPLER	
PP - PERISTALIC PUMP	BP - BLADDER PUMP	
SL - SUCTION LIFT PUMP		

SURFACE WATER QUALITY SAMPLING RECORD

05-517-

INSTALLATION ID SLFRD LOG DATE May 10, 1988 LOG TIME 1755
LOCATION ID 05 LOT CONTROL NO.
SAMPLE TYPE N SAMPLE ID ~~517-W002~~ 517-W002 SAMPLE DEPTH (FT.) DTB 11ft 9in DTW 11ft 4in
SAMPLING PERIOD: START 1805 5/10/88 COMPLETE 1818 5/10/88
SAMPLING METHOD G LOGGER CODE PFW/IDO/BG
LAB CODE DATE SENT May 11, 1988
PRESERVATION METHOD
COMMENTS

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.25/7.25/7.35	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	730/700/700	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	13.0°C/120/120	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID LOG DATE LOG TIME
LOCATION ID LOT CONTROL NO.
SAMPLE TYPE SAMPLE ID SAMPLE DEPTH (FT.)
SAMPLING PERIOD: START COMPLETE
SAMPLING METHOD LOGGER CODE
LAB CODE DATE SENT
PRESERVATION METHOD
COMMENTS

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D - DUPLICATE	FB - FIELD BLANK	G - GRAB	SP - SUBMERSIBLE PUMP
R - REPLICATE	TB - TRIP BLANK	B - BAILER	AL - AIR-LIFT SAMPLER
S - SPIKE	LB - LAB BLANK	PP - PERISTALIC PUMP	BP - BLADDER PUMP
K - KNOWN	N - NORMAL	SL - SUCTION LIFT PUMP	

SAMPLE METHODS: (WSMCODE)

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE May 10, 1988 LOG TIME 2135
LOCATION ID 05 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 518-W002 SAMPLE DEPTH (FT.) DTW = 11 ft 5 in
DTB = 14 ft 2 in

SAMPLING PERIOD: START 2145 3/10/88 COMPLETE 2151
SAMPLING METHOD G LOGGER CODE RFW/JDO/BSK
LAB CODE _____ DATE SENT May 11, 1988
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.70/7.65/7.70	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	450/460/460	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	12.0/12.5/22.5	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)
D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE May 10, 1988 LOG TIME 2109
LOCATION ID 06 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 519-W002 SAMPLE DEPTH (FT.) DTW = 6 ft 0 in
DTB = 6 ft 11
SAMPLING PERIOD: START ~~2110~~ 2115 COMPLETE 2122
SAMPLING METHOD G LOGGER CODE RFW/JDO/GSK
LAB CODE _____ DATE SENT May 11, 1988
PRESERVATION METHOD Petroleum fuel in water
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.8/7.85/7.85	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	500/550/500	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	10.5/10.5/10.5	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D - DUPLICATE	FB - FIELD BLANK		
R - REPLICATE	TB - TRIP BLANK		
S - SPIKE	LB - LAB BLANK		
K - KNOWN	N - NORMAL		

SAMPLE METHODS: (WSMCODE)

G - GRAB	SP - SUBMERSIBLE PUMP		
B - BAILER	AL - AIR-LIFT SAMPLER		
PP - PERISTALIC PUMP	BP - BLADDER PUMP		
SL - SUCTION LIFT PUMP			

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE May 10, 1988 LOG TIME 1555
LOCATION ID 07 LOT CONTROL NO. _____
SAMPLE TYPE G SAMPLE ID 521-W002 SAMPLE DEPTH (FT.) _____
DTW 7ft 7inches
DTB 7ft 8inch
SAMPLING PERIOD: START ~~1600~~ 1610 5/10/88 COMPLETE 1614
SAMPLING METHOD _____ LOGGER CODE RFW/JDO/BG
LAB CODE _____ DATE SENT May 11, 1988
PRESERVATION METHOD _____
COMMENTS Strong fuel-solvent smell down inside sewer. Film on water surface

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

SAMPLE TYPES: (WSACODE)

D - DUPLICATE	FB - FIELD BLANK	G - GRAB	SP - SUBMERSIBLE PUMP
R - REPLICATE	TB - TRIP BLANK	B - BAILER	AL - AIR-LIFT SAMPLER
S - SPIKE	LB - LAB BLANK	PP - PERISTALIC PUMP	BP - BLADDER PUMP
K - KNOWN	N - NORMAL	SL - SUCTION LIFT PUMP	

SAMPLE METHODS: (WSMCODE)

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE May 10, 1988 LOG TIME 1530
LOCATION ID 07 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 522-W002 SAMPLE DEPTH (FT.) 9'6" DTH
9'10" Inch DTH

SAMPLING PERIOD: START 1540 3/10/88 COMPLETE 1550 3/10/88
SAMPLING METHOD _____ LOGGER CODE REW/JDO/BG
LAB CODE _____ DATE SENT May 11, 1988
PRESERVATION METHOD _____
COMMENTS Grass cuttings floating on water's surface

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.80/7.80/7.80	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	750/650/650	
REDOX POTENTIAL	Eh	mvolts	+00	
TEMPERATURE	TEMP	°C	13.6/13.0/12.0	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK		
R -	REPLICATE	TB -	TRIP BLANK		
S -	SPIKE	LB -	LAB BLANK		
K -	KNOWN	N -	NORMAL		

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE May 10, 1988 LOG TIME 1435
LOCATION ID 07 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 07-523-W002 SAMPLE DEPTH (FT.) 12'8" (DTW) WATER (DTW) 12'9½" (DTB)

SAMPLING PERIOD: START 1445 hrs 3/10/88 COMPLETE 1459 3/10/88
SAMPLING METHOD B LOGGER CODE RFW
LAB CODE _____ DATE SENT May 11, 1988
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.90 / 7.95 / 8.00	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	365 / 390 / 400	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	10.0 / 9.0 / ~~6.0~~ 9.0	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D - DUPLICATE	FB - FIELD BLANK	G - GRAB	SP - SUBMERSIBLE PUMP
R - REPLICATE	TB - TRIP BLANK	B - BAILER	AL - AIR-LIFT SAMPLER
S - SPIKE	LB - LAB BLANK	PP - PERISTALIC PUMP	BP - BLADDER PUMP
K - KNOWN	N - NORMAL	SL - SUCTION LIFT PUMP	

SAMPLE METHODS: (WSMCODE)

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE May 10, 1988 LOG TIME 1509
LOCATION ID 07 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 524-W002 SAMPLE DEPTH (FT.) DTW = 6.07
DTB = 8ft 2in

SAMPLING PERIOD: START 1515 5/10/88 COMPLETE 1525 5/10/88
SAMPLING METHOD _____ LOGGER CODE RFW/JDO/BG
LAB CODE _____ DATE SENT May 11, 1988
PRESERVATION METHOD _____
COMMENTS Petroleum oil sheen / film on water. Grass cuttings on top of water.

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.95/7.95/7.95	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	170/170/175	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	14.0/14.0/14.0	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)				SAMPLE METHODS: (WSMCODE)			
D -	DUPLICATE	FB -	FIELD BLANK	G -	GRAB	SP -	SUBMERSIBLE PUMP
R -	REPLICATE	TB -	TRIP BLANK	B -	BAILER	AL -	AIR-LIFT SAMPLER
S -	SPIKE	LB -	LAB BLANK	PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
K -	KNOWN	N -	NORMAL	SL -	SUCTION LIFT PUMP		

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-7-88 LOG TIME 1015

LOCATION ID 01 LOT CONTROL NO. _____

SAMPLE TYPE N SAMPLE ID 122 - M021 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 8.40

SAMPLING PERIOD: START 1015 COMPLETE _____

SAMPLING METHOD B LOGGER CODE RFW

LAB CODE _____ DATE SENT _____

PRESERVATION METHOD _____

COMMENTS Vol. = 2.73

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.04 / 6.97	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	1550 / 1554	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	14.8 / 15.0	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
.	0.0	0.0	-	-	-	START PUMPING
8/6	4.5					Dry

SAMPLES TYPES: (WSACODE)

D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-7-88 LOG TIME _____
LOCATION ID 01 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 123-M021 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 10.0
SAMPLING PERIOD: START 1100 COMPLETE _____
SAMPLING METHOD B LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS 1 vol = 2.5 gal

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.33/7.30	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	1932/1922	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	13.5/13.5	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
1100	0.0	0.0	-	-	-	START PUMPING
0940	3.0					dry

SAMPLES TYPES: (WSACODE)
D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFDG LOG DATE 8/7/88 LOG TIME 09:25 hrs.
LOCATION ID 01 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 124-M021 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 5.80
SAMPLING PERIOD: START 10:25 COMPLETE _____
SAMPLING METHOD B LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS 1 Volume - 3.28

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	6.74 | 6.77	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	3810 | 3,850	_____
REDOX POTENTIAL	Eh	mvolts		-
TEMPERATURE	TEMP	°C	12.0° | 11.7°	-
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	-

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
09:45	4.0					purged dry

SAMPLES TYPES: (WSACODE)
D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-7-88 LOG TIME 1080

LOCATION ID 01 LOT CONTROL NO. _____

SAMPLE TYPE N,D,S SAMPLE ID 125-M081 SAMPLE DEPTH (FT.) _____

M121 M221 M521 M621

INITIAL GROUNDWATER DEPTH (FT) 8.45

SAMPLING PERIOD: START 1000 COMPLETE _____

SAMPLING METHOD 5 LOGGER CODE RFW

LAB CODE _____ DATE SENT _____

PRESERVATION METHOD _____

COMMENTS 1 vol = 3.4 gal

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	6.97/7.04	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	1225/1231	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	18.0/17.6	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
8/6	3.5					Dry

SAMPLES TYPES: (WSACODE)

D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFDG LOG DATE 8/7/88 LOG TIME Ø9:55 hrs.
LOCATION ID Ø1 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 156-MØ21 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 10.65
SAMPLING PERIOD: START 10:10 COMPLETE _____
SAMPLING METHOD B LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS 1-Volume 1.42 gal

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	6.96 | 6.97	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	1,660 | 1,640	_____
REDOX POTENTIAL	Eh	mvolts	_____	-
TEMPERATURE	TEMP	°C	12.19 | 12.5°	-
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	-

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
10:05	4.5					

SAMPLES TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-7-88 LOG TIME 1015
LOCATION ID 01 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 257-M021 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 7.85
SAMPLING PERIOD: START 1020 COMPLETE _____
SAMPLING METHOD B LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS 1 vol = 5.0 gal

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.42/7.48	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	3250/3300	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	13.3/13.3	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
8/6	7.5					Dry

SAMPLES TYPES: (WSACODE)
D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SFLRD LOG DATE 8-7-88 LOG TIME _____

LOCATION ID 01 LOT CONTROL NO. _____

SAMPLE TYPE _____ SAMPLE ID 158-M021 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 4.62

SAMPLING PERIOD: START 1500 COMPLETE _____

SAMPLING METHOD _____ LOGGER CODE _____

LAB CODE _____ DATE SENT _____

PRESERVATION METHOD _____

COMMENTS Vol=193

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	6.3 / 6.3	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	4000 / 4000	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	18.5 / 18.6	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
1550	6.0					

SAMPLES TYPES: (WSACODE)

D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLERD LOG DATE 8-7-88 LOG TIME _____

LOCATION ID 01 LOT CONTROL NO. _____

SAMPLE TYPE N SAMPLE ID 255-M021 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 8.65

SAMPLING PERIOD: START 1500 COMPLETE _____

SAMPLING METHOD B LOGGER CODE _____

LAB CODE _____ DATE SENT _____

PRESERVATION METHOD _____

COMMENTS 1 vol = 6.87 gal

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
1520	9.0					dry

SAMPLES TYPES: (WSACODE)

D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-7-88 LOG TIME _____
LOCATION ID 01 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 160-M021 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 10.70
SAMPLING PERIOD: START 1040 COMPLETE _____
SAMPLING METHOD B LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS 1 vol = 1.70

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.34/7.34	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	3600/3590	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	13.2/12.4	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
8/6	0.0	0.0	-	-	-	START PUMPING
1515	5.5					dry

SAMPLES TYPES: (WSACODE)
D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFAD LOG DATE 8-7-88 LOG TIME _____
LOCATION ID 01 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 261-M021 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 7.40
SAMPLING PERIOD: START 1045 COMPLETE _____
SAMPLING METHOD B LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS Vol: 4.75

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	6.97 / 6.90	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	1287 / 1290	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	12.8 / 12.9	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
8/6	0.0	0.0	-	-	-	START PUMPING
1515	10.0					dry

SAMPLES TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRB LOG DATE 8/7/88 LOG TIME _____

LOCATION ID 01 LOT CONTROL NO. _____

SAMPLE TYPE _____ SAMPLE ID 162 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 11.15

SAMPLING PERIOD: START 11:13 COMPLETE _____

SAMPLING METHOD B LOGGER CODE _____

LAB CODE _____ DATE SENT _____

PRESERVATION METHOD _____

COMMENTS vol = 1.13

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.01 | 7.06	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	1900 | 1920	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	13.3° | 12.9°	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
9/6	4.0					Dry

SAMPLES TYPES: (WSACODE)

D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8/7 LOG TIME _____

LOCATION ID 01 LOT CONTROL NO. _____

SAMPLE TYPE N SAMPLE ID 263-M021 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 8.40

SAMPLING PERIOD: START 11:00 COMPLETE _____

SAMPLING METHOD B LOGGER CODE KFW

LAB CODE 1 DATE SENT _____

PRESERVATION METHOD _____

COMMENTS 4.94 = inch

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.02 | 7.10	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	2,140 | 2,180	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	11.2° | 11.7°	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
8/6	9.0					dry

SAMPLES TYPES: (WSACODE)

D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8/3/88 LOG TIME 0850
LOCATION ID 02 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 164-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 13.62
SAMPLING PERIOD: START 0950 COMPLETE 0955
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS 1 vol. = 2.71 gal

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	6.95 / 6.93	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	3800 / 3810	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	12.1 / 12.6	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
8/2	2.5					

SAMPLES TYPES: (WSACODE)
D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 5/3/88 LOG TIME 0930
LOCATION ID 03 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 165-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 14.88
SAMPLING PERIOD: START 0930 COMPLETE 0935
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS Vol .84 gal

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	6.74 / 6.76	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	2650/2,780	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	11.4 / 11.9	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
8/2	5.00					dry

SAMPLES TYPES: (WSACODE)
D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8/3/88 LOG TIME 0840
LOCATION ID 02 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 166-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 13.46
SAMPLING PERIOD: START ~~0940~~ GK 0945 COMPLETE ~~0955~~ GK 0950
SAMPLING METHOD B LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS 1 vol 1.0 gal C

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	6.96/6.91	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	2540/2570	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	12.2/11.5	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
8/3	5.0					Dry

SAMPLES TYPES: (WSACODE)
D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-7-88 LOG TIME _____

LOCATION ID 03 LOT CONTROL NO. _____

SAMPLE TYPE N, D, S SAMPLE ID 116-M001 SAMPLE DEPTH (FT.) _____

M001, M201, M501, M601

INITIAL GROUNDWATER DEPTH (FT) 200

SAMPLING PERIOD: START _____ COMPLETE _____

SAMPLING METHOD B LOGGER CODE RFW

LAB CODE _____ DATE SENT _____

PRESERVATION METHOD _____

COMMENTS 1 vol = 3.42 gal

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.28 / 7.23	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	925 / 916	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	13.3 / 13.0	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
1410	5.0					dry

SAMPLES TYPES: (WSACODE)

D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-7-88 LOG TIME 14:00 hrs
LOCATION ID 03 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 117-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 3.47
SAMPLING PERIOD: START 14:25 hrs. COMPLETE _____
SAMPLING METHOD B LOGGER CODE REW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS Lwv = 3.06

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.04 7.01	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	870 890	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	12.0° 12.1°	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
14:10	3.5					Purged dry

SAMPLES TYPES: (WSACODE)
D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLERD LOG DATE 8-7-88 LOG TIME 13:40

LOCATION ID 03 LOT CONTROL NO. _____

SAMPLE TYPE N SAMPLE ID 1B-MW01 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 8.84

SAMPLING PERIOD: START 14:15 COMPLETE _____

SAMPLING METHOD B LOGGER CODE RFW

LAB CODE _____ DATE SENT _____

PRESERVATION METHOD _____

COMMENTS 1 vol = 3.14

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	6.76 | 6.77	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	920 | 900	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	11.7° | 12.1°	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
13:55	3.25					Purged dry

SAMPLES TYPES: (WSACODE)

D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-6-88 LOG TIME _____

LOCATION ID 04 LOT CONTROL NO. _____

SAMPLE TYPE N, D, S SAMPLE ID 111-M001 SAMPLE DEPTH (FT.) _____
M101 M501 M601

INITIAL GROUNDWATER DEPTH (FT) 2.50

SAMPLING PERIOD: START 1030 COMPLETE _____

SAMPLING METHOD B LOGGER CODE BFW

LAB CODE _____ DATE SENT _____

PRESERVATION METHOD _____

COMMENTS 1 vol 4.18

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.89 / 7.87	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	767 / 800	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	16.0 / 15.5	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
1015	5.0					Dry

SAMPLES TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK		
R -	REPLICATE	TB -	TRIP BLANK		
S -	SPIKE	LB -	LAB BLANK		
K -	KNOWN	N -	NORMAL		

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-6-88 LOG TIME 0930
LOCATION ID 04 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 112-H001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 5.54
SAMPLING PERIOD: START 0955 COMPLETE _____
SAMPLING METHOD B LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS Vol = 3.67

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.46 / 7.43	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	1171 / 1154	_____
REDOX POTENTIAL	Eh	mvolts	_____	-
TEMPERATURE	TEMP	°C	12.7 / 12.9	-
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	-

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING

SAMPLES TYPES: (WSACODE)

D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

GROUND WATER QUALITY SAMPLING RECORD

8/6/88 JDQ

INSTALLATION ID SLFRD LOG DATE 6-8-88 LOG TIME 1430

LOCATION ID 04 LOT CONTROL NO. _____

SAMPLE TYPE N SAMPLE ID 113-M004 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 5.5

SAMPLING PERIOD: START 1430 COMPLETE _____

SAMPLING METHOD _____ LOGGER CODE _____

LAB CODE _____ DATE SENT _____

PRESERVATION METHOD _____

COMMENTS 1 vol = 3.67 gal

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.70/2.79	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	991/995	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	14.3/13.9	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING

SAMPLES TYPES: (WSACODE)

D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-6-88 LOG TIME 10:00
LOCATION ID 04 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 115-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 5.29
SAMPLING PERIOD: START 10:22 COMPLETE _____
SAMPLING METHOD B LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS 1 Vol = 3.7 gal

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.72 / 7.70	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	827 / 830	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	15.8° / 15.1°	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
10:13	5.0					Dry

SAMPLES TYPES: (WSACODE)

D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-6-88 LOG TIME 14:00
LOCATION ID 04 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 148-mw01 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 6.87
SAMPLING PERIOD: START 14:15 COMPLETE _____
SAMPLING METHOD B LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS Vol = 1.83

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	6.40 / 6.55	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	860 / 900	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	13.5° / 15.6°	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
14:11	5.50					

SAMPLES TYPES: (WSACODE)
D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-6-88 LOG TIME 0930
LOCATION ID 04 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 249-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 5.06
SAMPLING PERIOD: START 0940 COMPLETE _____
SAMPLING METHOD B LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS 1 Vol: 3.82

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.42/7.36	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	1190/1188	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	13.4/13.5	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
0930	100					Dry

SAMPLES TYPES: (WSACODE)
D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-6-85 LOG TIME 1345
LOCATION ID 04 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 150-4001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 8.38
SAMPLING PERIOD: START 1345 COMPLETE _____
SAMPLING METHOD B LOGGER CODE REW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS 1 vol = 16 gal

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.32/7.30	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	1336/1323	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	15.1/15.2	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
1340	4.5					Purg

SAMPLES TYPES: (WSACODE)
D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 6-6-88 LOG TIME 1345
LOCATION ID 04 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 251-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 5.19
SAMPLING PERIOD: START 1350 COMPLETE _____
SAMPLING METHOD B LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS Vol = 4.3a

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	8.03/8.03	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	596-585	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	12.9/13.7	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
1350	11.0					dry

SAMPLES TYPES: (WSACODE)
D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-6-88 LOG TIME 1230
LOCATION ID 04 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 152-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 6.52
SAMPLING PERIOD: START 1245 COMPLETE _____
SAMPLING METHOD B LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS 1½" = 2.18

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.25/7.20	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	1063/1033	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	15.3/14.3	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
1140	2.5					dry

SAMPLES TYPES: (WSACODE)

D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-6-88 LOG TIME _____

LOCATION ID 04 LOT CONTROL NO. _____

SAMPLE TYPE _____ SAMPLE ID 253-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 6.65

SAMPLING PERIOD: START _____ COMPLETE _____

SAMPLING METHOD _____ LOGGER CODE _____

LAB CODE _____ DATE SENT _____

PRESERVATION METHOD _____

COMMENTS/pH: 5.21

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.35/7.37	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	1404/1388	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	15.1/15.1	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
1140	7.5					dry

SAMPLES TYPES: (WSACODE)

D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-6-88 LOG TIME 1100
LOCATION ID 04 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 154-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 5.50
SAMPLING PERIOD: START 1100 COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS 1 vol = 1.72 gal

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.07 / 7.01	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	1230 / 1226	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	16.0 / 16.0	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
1055	5.0					Dry

SAMPLES TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK		
R -	REPLICATE	TB -	TRIP BLANK		
S -	SPIKE	LB -	LAB BLANK		
K -	KNOWN	N -	NORMAL		

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-6-88 LOG TIME 1100
LOCATION ID 04 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 255-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 4.45
SAMPLING PERIOD: START 1110 COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS 1 vol = 5.23 gal

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	2.51 / >49	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	1240 / 1231	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	18.0 / 4.6	-
ALKALINITY ($CaCO_3$)	ALK	mg/l		-

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
1050	12.0					bty

SAMPLES TYPES: (WSACODE)
D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-5-88 LOG TIME 10:05

LOCATION ID 05 LOT CONTROL NO. _____

SAMPLE TYPE _____ SAMPLE ID 105-M321 M322 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 4.55

SAMPLING PERIOD: START 13:20 COMPLETE _____

SAMPLING METHOD _____ LOGGER CODE _____

LAB CODE _____ DATE SENT _____

PRESERVATION METHOD _____

COMMENTS 1 ml = 3.71 gal

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	6.76 / 6.89	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	2850 / 2790	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	15.0° / 16.5°	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
1030	5.0					dry

SAMPLES TYPES: (WSACODE)

D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLERD LOG DATE 8/3/88 LOG TIME 0840

LOCATION ID 05 LOT CONTROL NO. _____

SAMPLE TYPE _____ SAMPLE ID ~~M107~~-M121 M221 M521 M601 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 6.52

SAMPLING PERIOD: START 0840 COMPLETE 0845

SAMPLING METHOD B LOGGER CODE RFW

LAB CODE _____ DATE SENT _____

PRESERVATION METHOD _____

COMMENTS _____

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	-
TEMPERATURE	TEMP	°C	_____	-
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	-

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
	5.0		6.97/6.95	2450/2550	12.5/12.7	

SAMPLES TYPES: (WSACODE)

D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8/4/88 LOG TIME 17:20

LOCATION ID 05 LOT CONTROL NO. _____

SAMPLE TYPE _____ SAMPLE ID ~~05-23~~ 130 SAMPLE DEPTH (FT.) _____
GSK M021

INITIAL GROUNDWATER DEPTH (FT) 7.86

SAMPLING PERIOD: START 17:38 COMPLETE _____

SAMPLING METHOD B LOGGER CODE _____

LAB CODE _____ DATE SENT _____

PRESERVATION METHOD _____

COMMENTS 1 Volume = .74gal

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	6.49 | 6.50	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	1930 | 1970	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	15.3° | 15.7°	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
17:35	3.25gal					

SAMPLES TYPES: (WSACODE)

D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8/3/88 LOG TIME 1815
LOCATION ID 05 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 231-M021 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 9.13
SAMPLING PERIOD: START 0915 COMPLETE 1820
SAMPLING METHOD B LOGGER CODE AFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS 1 vol 1.48

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	-
TEMPERATURE	TEMP	°C	_____	-
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	-

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
	2.5					
	1.0		6.90	3,010	12.7°	

SAMPLES TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8/4/88 LOG TIME 16:55
LOCATION ID 05 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 132-4021 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 7.27
SAMPLING PERIOD: START 17:05 hrs COMPLETE _____
SAMPLING METHOD B LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS 1 Volume - 1.93 gal.

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	6.89 | 6.84	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	2,500 | 2,490	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	12.9° | 13.3°	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
8/4/88 16:55						
17:00	6.0					

SAMPLES TYPES: (WSACODE)
D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8/4/88 LOG TIME 15:55
LOCATION ID 05 LOT CONTROL NO. _____
SAMPLE TYPE B SAMPLE ID 233-MW21 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 6.30
SAMPLING PERIOD: START 16:30 COMPLETE _____
SAMPLING METHOD B LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS 1 Volume - 5.35

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.09 / 7.19	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	5,350 / 5,690	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	15.1° / 16.1°	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
15:55	16.0					

SAMPLES TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-5-88 LOG TIME 10:00

LOCATION ID 05 LOT CONTROL NO. _____

SAMPLE TYPE _____ SAMPLE ID 235-M021 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 6.33

SAMPLING PERIOD: START ~~8-5-88 13:00~~ NO 13:00 8-5-88 13:10 COMPLETE _____

SAMPLING METHOD B LOGGER CODE _____

LAB CODE _____ DATE SENT _____

PRESERVATION METHOD _____

COMMENTS Vol = 4.3 gal

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	6.54/6.75	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	1,800/1,850	
REDOX POTENTIAL	Eh	mvolts		-
TEMPERATURE	TEMP	°C	13.4°/16.6°	
ALKALINITY ($CaCO_3$)	ALK	mg/l		-

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
10:25	11.0					Dry

SAMPLES TYPES: (WSACODE)

D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8/3/88 LOG TIME 0850

LOCATION ID 05 LOT CONTROL NO. _____

SAMPLE TYPE N SAMPLE ID 167-M021 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) _____

SAMPLING PERIOD: START 1855 COMPLETE 0900

SAMPLING METHOD B LOGGER CODE _____

LAB CODE _____ DATE SENT _____

PRESERVATION METHOD _____

COMMENTS _____

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	6.98/6.98	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	2,110/2150	_____
REDOX POTENTIAL	Eh	mvolts	12.9/13.6	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
	5.0					dry

SAMPLES TYPES: (WSACODE)

D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-7-86 LOG TIME _____

LOCATION ID 06 LOT CONTROL NO. _____

SAMPLE TYPE N,D,S SAMPLE ID 108-M021 SAMPLE DEPTH (FT.) _____

M121 M221 ~~M5E~~ SUGAR

INITIAL GROUNDWATER DEPTH (FT) 5.96

SAMPLING PERIOD: START 1340 COMPLETE _____

SAMPLING METHOD _____ LOGGER CODE _____

LAB CODE _____ DATE SENT _____

PRESERVATION METHOD _____

COMMENTS Vol: 3.37

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.20/7.19	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	1107/1096	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	17.4/16.4	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
1340	4.0					

SAMPLES TYPES: (WSACODE)

D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-7-88 LOG TIME _____
LOCATION ID 06 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 109-MW21 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 5.60
SAMPLING PERIOD: START 1330 COMPLETE _____
SAMPLING METHOD B LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS Vol = 3.60

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.60/7.60	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	855/843	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	12.7/11.5	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
1350	5.0					dry

SAMPLES TYPES: (WSACODE)

D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-7-88 LOG TIME 12:50 hrs.
LOCATION ID 06 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 110 - M024 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 5.05
SAMPLING PERIOD: START 13:20 hrs. COMPLETE _____
SAMPLING METHOD B LOGGER CODE _____
LAB CODE _____ DATE SENT RFW
PRESERVATION METHOD _____
COMMENTS 1 vol = 3.83 gal

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	6.92 | 6.95	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	725 | 745	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	12.2° | 12.7°	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
13:00	6.5					Purged dry

SAMPLES TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-7-88 LOG TIME 12:30

LOCATION ID 06 LOT CONTROL NO. _____

SAMPLE TYPE N SAMPLE ID 247-M021 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 5.83

SAMPLING PERIOD: START _____ COMPLETE _____

SAMPLING METHOD B LOGGER CODE EWi

LAB CODE _____ DATE SENT _____

PRESERVATION METHOD _____

COMMENTS Well = 4.00

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.00 | 6.90	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	640 | 655	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	13.9° | 12.8°	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
12:45	9.0					Purged dry

SAMPLES TYPES: (WSACODE)

D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8/5/88 LOG TIME 11:20
LOCATION ID 07 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 102-M001 M101 M201 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 8.00
SAMPLING PERIOD: START 13:55 COMPLETE _____
SAMPLING METHOD B LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS 3.3 gal = 1 vol

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	~~7.63~~ 7.65	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	~~781~~ 777	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	~~13.5°~~ 15.6°	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
MG 8/5/88 ~~4.0~~	4.0					Dry
11:20						

SAMPLES TYPES: (WSACODE)
D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-5-88 LOG TIME 11:40 Hrs.

LOCATION ID 07 LOT CONTROL NO. _____

SAMPLE TYPE _____ SAMPLE ID 103 M021 SAMPLE DEPTH (FT.) _____
M001

INITIAL GROUNDWATER DEPTH (FT) 6.70

SAMPLING PERIOD: START 13:45 COMPLETE _____

SAMPLING METHOD B LOGGER CODE _____

LAB CODE _____ DATE SENT _____

PRESERVATION METHOD _____

COMMENTS Vol = 3.04

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.28 / 7.44	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	1,670 / 1,690	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	14.6° / 17.2°	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
1145	4.0					dry

SAMPLES TYPES: (WSACODE)

D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-3-88 LOG TIME 0920 8/4

LOCATION ID 07 LOT CONTROL NO. _____

SAMPLE TYPE N SAMPLE ID 104-M021 SAMPLE DEPTH (FT.) _____
-M001

INITIAL GROUNDWATER DEPTH (FT) 5.65

SAMPLING PERIOD: START 0920 8/4 COMPLETE 0925

SAMPLING METHOD _____ LOGGER CODE RFW

LAB CODE _____ DATE SENT _____

PRESERVATION METHOD _____

COMMENTS 1 vol-3.23gal

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	6.26 / 6.87	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	955 / 940	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	15.3 / 14.6	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
8/3	0.0	0.0	-	-	-	START PUMPING
1200	5.0					dry

SAMPLES TYPES: (WSACODE)

D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-5-88 LOG TIME 1015 8/4

LOCATION ID 07 LOT CONTROL NO. _____

SAMPLE TYPE _____ SAMPLE ID 136-M021 -M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 8.63

SAMPLING PERIOD: START 1015 8/4 COMPLETE 1020 8/4

SAMPLING METHOD _____ LOGGER CODE _____

LAB CODE _____ DATE SENT _____

PRESERVATION METHOD _____

COMMENTS 1 vol = 1.87 gal

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	6.62/6.77	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	1236/1232	_____
REDOX POTENTIAL	Eh	mvolts	_____	-
TEMPERATURE	TEMP	°C	26.5/26.5	-
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	-

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
8/4	0.0	0.0	-	-	-	START PUMPING
0950	6.0					dry

SAMPLES TYPES: (WSACODE)

D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-3-88 LOG TIME _____

LOCATION ID 07 LOT CONTROL NO. _____

SAMPLE TYPE N SAMPLE ID 237-M001 -M021 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 7.31

SAMPLING PERIOD: START 14.38 COMPLETE _____

SAMPLING METHOD B LOGGER CODE _____

LAB CODE _____ DATE SENT _____

PRESERVATION METHOD _____

COMMENTS 1 vol = 3.6l

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.87 at 18.9°	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	631	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
1120	14.0		7.95	621	19.1°	

SAMPLES TYPES: (WSACODE)

D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8/4/88 LOG TIME 1100
LOCATION ID 07 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 138-M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 7.50
SAMPLING PERIOD: START 1110 COMPLETE 1115
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS 1 ml = 1.23 gal

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	6.46/6.44	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	967/987	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	14.6/14.7	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
1114	0.0	0.0	-	-	-	START PUMPING
1140	4.5					

SAMPLES TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK		
R -	REPLICATE	TB -	TRIP BLANK		
S -	SPIKE	LB -	LAB BLANK		
K -	KNOWN	N -	NORMAL		

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8/4/88 LOG TIME 1100
LOCATION ID 07 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 239-M001 SAMPLE DEPTH (FT.) _____
1021

INITIAL GROUNDWATER DEPTH (FT) 5.82
SAMPLING PERIOD: START 15:00 COMPLETE _____
SAMPLING METHOD B LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS Vol = 5.35

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.63 at 15.2°C	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	673	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
8/4	0.0	0.0	-	-	-	START PUMPING
1120	120		7.61	660	13.9	dry
						C

SAMPLES TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFD6 LOG DATE 8/5/88 LOG TIME 14:30
LOCATION ID 07 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 140-M021 SAMPLE DEPTH (FT.) _____
M001
INITIAL GROUNDWATER DEPTH (FT) 7.82
SAMPLING PERIOD: START 14:40 COMPLETE _____
SAMPLING METHOD B LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS 1-volume-1.68

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.26 / 7.26	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	985 / 977	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	13.7° / 15.7°	-
ALKALINITY ($CaCO_3$)	ALK	mg/l		-

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
14:40	5.0					

SAMPLES TYPES: (WSACODE)
D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID _____ LOG DATE 8/5/88 LOG TIME 14:30

LOCATION ID 07 LOT CONTROL NO. _____

SAMPLE TYPE _____ SAMPLE ID 241-M021 SAMPLE DEPTH (FT.) _____

M001, M121, M221, M521, MC21

INITIAL GROUNDWATER DEPTH (FT) 7.21

SAMPLING PERIOD: START 0845 COMPLETE _____

SAMPLING METHOD B LOGGER CODE _____

LAB CODE _____ DATE SENT _____

PRESERVATION METHOD _____

COMMENTS 1 Volume - 5.15

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.78 / 7.87	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	454 / 1424	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	15.1 / 15.3	-
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	-

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
15:30	12.0					Dry

SAMPLES TYPES: (WSACODE)

D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8/4/88 LOG TIME 1200
LOCATION ID 07 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 242-0001 SAMPLE DEPTH (FT.) _____
M021

INITIAL GROUNDWATER DEPTH (FT) 8.58
SAMPLING PERIOD: START 1200 COMPLETE 1205
SAMPLING METHOD 6 LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS Vol = 1.55

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	6.57/6.54	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	907/899	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	16.1/16.5	- -
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	-

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
[illegible]45	6.0					Dry

SAMPLES TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8/4/88 LOG TIME 1135

LOCATION ID C7 LOT CONTROL NO. _____

SAMPLE TYPE _____ SAMPLE ID 243-M001 / M021 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 7.5

SAMPLING PERIOD: START 1210 COMPLETE 1220

SAMPLING METHOD _____ LOGGER CODE _____

LAB CODE _____ DATE SENT _____

PRESERVATION METHOD _____

COMMENTS 1 vol = 5.35

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.42/7.49	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	659/640	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	16.8/15.7	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
1145	90					dry

SAMPLES TYPES: (WSACODE)

D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-3-88 LOG TIME _____
LOCATION ID 08 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 126-M021 -M001 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 9.06
SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD B LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS Vol = 2.30

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.0/6.96	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	4250/4110	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	16.6/14.6	- -
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	-

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	0.0	0.0	-	-	-	START PUMPING
8/4	7.0					

SAMPLES TYPES: (WSACODE)
D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8/4/88 LOG TIME 14:05

LOCATION ID 08 LOT CONTROL NO. _____

SAMPLE TYPE _____ SAMPLE ID 127-M021 SAMPLE DEPTH (FT.) _____

INITIAL GROUNDWATER DEPTH (FT) 7.27

SAMPLING PERIOD: START 14:25 COMPLETE _____

SAMPLING METHOD _____ LOGGER CODE _____

LAB CODE _____ DATE SENT _____

PRESERVATION METHOD _____

COMMENTS _____

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	6.88 at 16.0°C	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	3,000	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
8/4	0.0	0.0	-	-	-	START PUMPING
14:00	8.0		6.85	3,000	15.3	

SAMPLES TYPES: (WSACODE)

D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-3-88 LOG TIME 0910 8/4

LOCATION ID 08 LOT CONTROL NO. _____

SAMPLE TYPE N, D, S SAMPLE ID 128-M021-M521 SAMPLE DEPTH (FT.) _____
- -M121-M621 - M001

INITIAL GROUNDWATER DEPTH (FT) 2.35

SAMPLING PERIOD: START 0900 8/4/88 COMPLETE 0910 8/4

SAMPLING METHOD B LOGGER CODE _____

LAB CODE _____ DATE SENT _____

PRESERVATION METHOD _____

COMMENTS Vol 2.09

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	6.58/6.64	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	2700/2570	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	13.0/13.1	-
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	-

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
8/3	0.0	0.0	-	-	-	START PUMPING
1115	7.0					bag

SAMPLES TYPES: (WSACODE)

D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

GROUND WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-3-88 LOG TIME _____

LOCATION ID C-8 LOT CONTROL NO. _____

SAMPLE TYPE N SAMPLE ID M29-M001 SAMPLE DEPTH (FT.) _____

-M021

INITIAL GROUNDWATER DEPTH (FT) 5.66

SAMPLING PERIOD: START _____ COMPLETE _____

SAMPLING METHOD B LOGGER CODE RFW

LAB CODE _____ DATE SENT _____

PRESERVATION METHOD _____

COMMENTS vol = 2.37 gal

FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	6.39 / 6.44	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	6260 / 6550	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	13.8 / 14.2	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volumes)	pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
8/3	0.0	0.0	-	-	-	START PUMPING
1115	8.0					/

SAMPLES TYPES: (WSACODE)

D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-8-86 LOG TIME _____
LOCATION ID 01 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 502-W021 SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START 1340 COMPLETE _____
SAMPLING METHOD G LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.71	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	974	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	24.5	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D - DUPLICATE	FB - FIELD BLANK		
R - REPLICATE	TB - TRIP BLANK		
S - SPIKE	LB - LAB BLANK		
K - KNOWN	N - NORMAL		

SAMPLE METHODS: (WSMCODE)

G - GRAB	SP - SUBMERSIBLE PUMP	
B - BAILER	AL - AIR-LIFT SAMPLER	
PP - PERISTALIC PUMP	BP - BLADDER PUMP	
SL - SUCTION LIFT PUMP		

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SFLRD LOG DATE 8-8-88 LOG TIME _____
LOCATION ID 04 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 504 W021 SAMPLE DEPTH (FT.) _____
W121 W521
W221 W621
SAMPLING PERIOD: START 1315 COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.95	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	563	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	15.6	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK		
R -	REPLICATE	TB -	TRIP BLANK		
S -	SPIKE	LB -	LAB BLANK		
K -	KNOWN	N -	NORMAL		

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-3-88 LOG TIME 1420
LOCATION ID 01 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 505-W022 SAMPLE DEPTH (FT.) 8.40

SAMPLING PERIOD: START 1420 COMPLETE 1645
SAMPLING METHOD 6 LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.55	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	394	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	19.7	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-8-88 LOG TIME _____
LOCATION ID 02 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID SW-W021 / W001 SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START 1410 COMPLETE _____
SAMPLING METHOD G LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.29	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	329	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	34.3	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK		
R -	REPLICATE	TB -	TRIP BLANK		
S -	SPIKE	LB -	LAB BLANK		
K -	KNOWN	N -	NORMAL		

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRP LOG DATE 6-8-88 LOG TIME _____
LOCATION ID 02 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 508-W001 SAMPLE DEPTH (FT.) _____
W021
SAMPLING PERIOD: START 1355 COMPLETE _____
SAMPLING METHOD G LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	8.17	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	530	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	17.1	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8/8/88 LOG TIME _____
LOCATION ID 02 LOT CONTROL NO. _____
SAMPLE TYPE N,D,S SAMPLE ID 509-W021 SAMPLE DEPTH (FT.) _____
W001 W201 W601
W101 W501
SAMPLING PERIOD: START 1330 COMPLETE _____
SAMPLING METHOD G LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	8.05	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	522	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	16.2	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-8-88 LOG TIME _____
LOCATION ID 04 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID S10-W001 / W021 SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START 1435 COMPLETE _____
SAMPLING METHOD G LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	8.03	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	253	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	19.2	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SFLRD LOG DATE 8-8-88 LOG TIME _____
LOCATION ID 04 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID SW-W001 SAMPLE DEPTH (FT.) _____
W021

SAMPLING PERIOD: START 1445 COMPLETE _____
SAMPLING METHOD 6 LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	8.25	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	683	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	20.1	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SFLRD LOG DATE 8-8-88 LOG TIME _____
LOCATION ID 04- LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 512-W001 SAMPLE DEPTH (FT.) _____
W021
SAMPLING PERIOD: START 1455 COMPLETE _____
SAMPLING METHOD G LOGGER CODE BFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	8.25	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	~~894~~ 791	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	9.5	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK		
R -	REPLICATE	TB -	TRIP BLANK		
S -	SPIKE	LB -	LAB BLANK		
K -	KNOWN	N -	NORMAL		

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-8-88 LOG TIME _____
LOCATION ID 04 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID SW3 - W001 SAMPLE DEPTH (FT.) _____
W021

SAMPLING PERIOD: START 1420 COMPLETE _____
SAMPLING METHOD B LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.88	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	~~780~~	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	19.9	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SFLRD LOG DATE 5-8-88 LOG TIME _____
LOCATION ID 05 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 514-W021 SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START 1205 COMPLETE _____
SAMPLING METHOD G LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.88	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	3170	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	21.4	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D - DUPLICATE	FB - FIELD BLANK	G - GRAB	SP - SUBMERSIBLE PUMP
R - REPLICATE	TB - TRIP BLANK	B - BAILER	AL - AIR-LIFT SAMPLER
S - SPIKE	LB - LAB BLANK	PP - PERISTALIC PUMP	BP - BLADDER PUMP
K - KNOWN	N - NORMAL	SL - SUCTION LIFT PUMP	

SAMPLE METHODS: (WSMCODE)

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 5-5-88 LOG TIME _____
LOCATION ID 05- LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID SD-W021 SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START — COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS dry

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK	G -	GRAB
R -	REPLICATE	TB -	TRIP BLANK	B -	BAILER
S -	SPIKE	LB -	LAB BLANK	PP -	PERISTALIC PUMP
K -	KNOWN	N -	NORMAL	SL -	SUCTION LIFT PUMP

SAMPLE METHODS: (WSMCODE)

SP -	SUBMERSIBLE PUMP
AL -	AIR-LIFT SAMPLER
BP -	BLADDER PUMP

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-5-88 LOG TIME _____
LOCATION ID 05 LOT CONTROL NO. _____
SAMPLE TYPE AT SAMPLE ID SW-021 SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START 1140 COMPLETE _____
SAMPLING METHOD G LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.94	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	521	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	24.6	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D - DUPLICATE	FB - FIELD BLANK	G - GRAB	SP - SUBMERSIBLE PUMP
R - REPLICATE	TB - TRIP BLANK	B - BAILER	AL - AIR-LIFT SAMPLER
S - SPIKE	LB - LAB BLANK	PP - PERISTALIC PUMP	BP - BLADDER PUMP
K - KNOWN	N - NORMAL	SL - SUCTION LIFT PUMP	

SAMPLE METHODS: (WSMCODE)

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-8-88 LOG TIME _____
LOCATION ID 05 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 517-W021 SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START 1200 COMPLETE _____
SAMPLING METHOD G LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.94	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	>97	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	22.7	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK		
R -	REPLICATE	TB -	TRIP BLANK		
S -	SPIKE	LB -	LAB BLANK		
K -	KNOWN	N -	NORMAL		

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRL LOG DATE 8-5-88 LOG TIME _____
LOCATION ID 05 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID SR-W021 (W321, W521, W121, W221) SAMPLE DEPTH (FT.) _____
SAMPLING PERIOD: START 1150 7.99 SSL COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE KFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.99	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	5.02	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	25.4	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SFLRD LOG DATE 8-8-95 LOG TIME _____
LOCATION ID 06 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID SF-W021 SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START 1520 COMPLETE _____
SAMPLING METHOD G LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	8.20	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	1054	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	20.2	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SFAAP LOG DATE 8-8-85 LOG TIME _____
LOCATION ID 06 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 520-W021 SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START 1500 COMPLETE _____
SAMPLING METHOD G LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	8.30	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	570	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	23.4	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-8-88 LOG TIME _____
LOCATION ID 07 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID S21- W001 SAMPLE DEPTH (FT.) _____
W021 W821 W621
W221 W521
SAMPLING PERIOD: START 1110 COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.68	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	11.70	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	24.8	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SWFRD LOG DATE 8-8-88 LOG TIME _____
LOCATION ID 07 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 522-W001 SAMPLE DEPTH (FT.) _____
W021
SAMPLING PERIOD: START 1250 COMPLETE _____
SAMPLING METHOD G LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.56	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	845	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	24.5	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D - DUPLICATE	FB - FIELD BLANK		
R - REPLICATE	TB - TRIP BLANK		
S - SPIKE	LB - LAB BLANK		
K - KNOWN	N - NORMAL		

SAMPLE METHODS: (WSMCODE)

G - GRAB		SP - SUBMERSIBLE PUMP	
B - BAILER		AL - AIR-LIFT SAMPLER	
PP - PERISTALIC PUMP		BP - BLADDER PUMP	
SL - SUCTION LIFT PUMP			

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-8-88 LOG TIME _____
LOCATION ID 07 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID S23-W001 SAMPLE DEPTH (FT.) _____
W101 W501 W021
W201 W601

SAMPLING PERIOD: START 1120 COMPLETE _____
SAMPLING METHOD G LOGGER CODE RFID
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	8.20	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	855	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	19.3	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D - DUPLICATE	FB - FIELD BLANK		
R - REPLICATE	TB - TRIP BLANK		
S - SPIKE	LB - LAB BLANK		
K - KNOWN	N - NORMAL		

SAMPLE METHODS: (WSMCODE)

G - GRAB		SP - SUBMERSIBLE PUMP
B - BAILER		AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP		BP - BLADDER PUMP
SL - SUCTION LIFT PUMP		

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-8-88 LOG TIME _____
LOCATION ID 07 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID SW-0021 SAMPLE DEPTH (FT.) _____
W001

SAMPLING PERIOD: START 1100 COMPLETE _____
SAMPLING METHOD G LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.83	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	178	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	24.2	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)
D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-3-88 LOG TIME _____
LOCATION ID 01 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 501-4022 SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS Lizy _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY ($CaCO_3$)	ALK	mg/l	_____	_____

SAMPLE TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK		
R -	REPLICATE	TB -	TRIP BLANK		
S -	SPIKE	LB -	LAB BLANK		
K -	KNOWN	N -	NORMAL		

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLERP LOG DATE 8-3-88 LOG TIME _____
LOCATION ID 01 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 503-W022 SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS Dry

PARAMETER MEASUREMENTS:			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	
REDOX POTENTIAL	Eh	mvolts	
TEMPERATURE	TEMP	°C	
ALKALINITY ($CaCO_3$)	ALK	mg/l	

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	
REDOX POTENTIAL	Eh	mvolts	
TEMPERATURE	TEMP	°C	
ALKALINITY ($CaCO_3$)	ALK	mg/l	

SAMPLE TYPES: (WSACODE)

D - DUPLICATE	FB - FIELD BLANK	G - GRAB	SP - SUBMERSIBLE PUMP
R - REPLICATE	TB - TRIP BLANK	B - BAILER	AL - AIR-LIFT SAMPLER
S - SPIKE	LB - LAB BLANK	PP - PERISTALIC PUMP	BP - BLADDER PUMP
K - KNOWN	N - NORMAL	SL - SUCTION LIFT PUMP	

SAMPLE METHODS: (WSMCODE)

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-8-88 LOG TIME _____
LOCATION ID 01-505 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 505-W021 SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START 1350 COMPLETE _____
SAMPLING METHOD G LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	8.13	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	478	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	18.2	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK		
R -	REPLICATE	TB -	TRIP BLANK		
S -	SPIKE	LB -	LAB BLANK		
K -	KNOWN	N -	NORMAL		

SAMPLE METHODS: (WSMCODE)

G -	GRAB			SP -	SUBMERSIBLE PUMP
B -	BAILER			AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP			BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP				

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-3-88 LOG TIME _____
LOCATION ID 02 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID SDE-W002 SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START 1440 COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS Dup

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.45	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	449	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	17.6	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLERD LOG DATE 8-3-88 LOG TIME 1430
LOCATION ID 02 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 502-W002 SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START 1445 COMPLETE 1450
SAMPLING METHOD G LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	~~7.07~~ 7.07	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	249	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	35.7	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK		
R -	REPLICATE	TB -	TRIP BLANK		
S -	SPIKE	LB -	LAB BLANK		
K -	KNOWN	N -	NORMAL		

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-3-88 LOG TIME 1435
LOCATION ID 02 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 508-W002 SAMPLE DEPTH (FT.) 6.5D

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD G LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.45	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	449	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	17.9	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)
D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLERD LOG DATE 8-3-88 LOG TIME 1440
LOCATION ID 02 LOT CONTROL NO. _____
SAMPLE TYPE N, D, MS SAMPLE ID SG9-W002 W102 W202 W502 W602 SAMPLE DEPTH (FT.) 14.65
SAMPLING PERIOD: START 1445 COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.53	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	485	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	18.4	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____
SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)
D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 5-3-88 LOG TIME 1600
LOCATION ID 04 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 510-WCC2 SAMPLE DEPTH (FT.) 4.64

SAMPLING PERIOD: START 1600 COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.60	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	657	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	21.3	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D - DUPLICATE	FB - FIELD BLANK		
R - REPLICATE	TB - TRIP BLANK		
S - SPIKE	LB - LAB BLANK		
K - KNOWN	N - NORMAL		

SAMPLE METHODS: (WSMCODE)

G - GRAB	SP - SUBMERSIBLE PUMP	
B - BAILER	AL - AIR-LIFT SAMPLER	
PP - PERISTALIC PUMP	BP - BLADDER PUMP	
SL - SUCTION LIFT PUMP		

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-3-88 LOG TIME 1610
LOCATION ID 04 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID SW-W002 SAMPLE DEPTH (FT.) 6.64

SAMPLING PERIOD: START 1610 COMPLETE 1614
SAMPLING METHOD _____ LOGGER CODE AFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.9	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	542	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	20.5	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLEAD LOG DATE 8-3-88 LOG TIME 1620
LOCATION ID C-1 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 512-W007 SAMPLE DEPTH (FT.) 7.75

SAMPLING PERIOD: START 1620 COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	8.03	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	540	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	19.8	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)
D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-3-88 LOG TIME 1540
LOCATION ID 04 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID SW-WCC2 SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START 1540 COMPLETE 1542
SAMPLING METHOD 6 LOGGER CODE KFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.54	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	544	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	20.5	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D - DUPLICATE	FB - FIELD BLANK		
R - REPLICATE	TB - TRIP BLANK		
S - SPIKE	LB - LAB BLANK		
K - KNOWN	N - NORMAL		

SAMPLE METHODS: (WSMCODE)

G - GRAB		SP - SUBMERSIBLE PUMP
B - BAILER		AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP		BP - BLADDER PUMP
SL - SUCTION LIFT PUMP		

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-3-88 LOG TIME 1710
LOCATION ID 05 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID SW-W022 SAMPLE DEPTH (FT.) 4.65

SAMPLING PERIOD: START 1710 COMPLETE 1715
SAMPLING METHOD 6 LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.54	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	2960	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	22.9	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)
D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-3-88 LOG TIME 1720
LOCATION ID 05 LOT CONTROL NO. _____
SAMPLE TYPE N, ~~D~~ SAMPLE ID 515-LW026 SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START 1720 COMPLETE 1730
SAMPLING METHOD G LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS Dry

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK		
R -	REPLICATE	TB -	TRIP BLANK		
S -	SPIKE	LB -	LAB BLANK		
K -	KNOWN	N -	NORMAL		

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-3-88 LOG TIME 1800
LOCATION ID 05 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 516-W002 W102 W202 W502 W602 SAMPLE DEPTH (FT.) 10.1
SAMPLING PERIOD: START 1800 COMPLETE 1805
SAMPLING METHOD G LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.22	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	405	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	26.5	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____
SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)
D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-3-88 LOG TIME 1230
LOCATION ID 05 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 512-W022 SAMPLE DEPTH (FT.) 8.77

SAMPLING PERIOD: START 1735 COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE REW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.48	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	349	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	27.5	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK		
R -	REPLICATE	TB -	TRIP BLANK		
S -	SPIKE	LB -	LAB BLANK		
K -	KNOWN	N -	NORMAL		

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLERD LOG DATE 8-3-88 LOG TIME 1750
LOCATION ID 05 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID SLS-W022 SAMPLE DEPTH (FT.) 12.97

SAMPLING PERIOD: START 1745 COMPLETE 1750
SAMPLING METHOD G LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.46	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	313	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	25.6	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)
D - DUPLICATE
R - REPLICATE
S - SPIKE
K - KNOWN
FB - FIELD BLANK
TB - TRIP BLANK
LB - LAB BLANK
N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB
B - BAILER
PP - PERISTALIC PUMP
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP
AL - AIR-LIFT SAMPLER
BP - BLADDER PUMP

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLERD LOG DATE 8-3-88 LOG TIME 1935
LOCATION ID 06 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID SW-W022 SAMPLE DEPTH (FT.) 6.78

SAMPLING PERIOD: START 1935 COMPLETE 1940
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.91	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	784	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	19.7	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID SLERD LOG DATE 8-6-88 LOG TIME _____
LOCATION ID 06 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID SW-W022 SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS Original sample was broken during shipping

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	8.07	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	683	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	24.1	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D - DUPLICATE	FB - FIELD BLANK	G - GRAB	SP - SUBMERSIBLE PUMP
R - REPLICATE	TB - TRIP BLANK	B - BAILER	AL - AIR-LIFT SAMPLER
S - SPIKE	LB - LAB BLANK	PP - PERISTALIC PUMP	BP - BLADDER PUMP
K - KNOWN	N - NORMAL	SL - SUCTION LIFT PUMP	

SAMPLE METHODS: (WSMCODE)

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-3-88 LOG TIME 2000
LOCATION ID 06 LOT CONTROL NO. _____
SAMPLE TYPE 1 SAMPLE ID 520-W202 SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START 1955 COMPLETE 2000
SAMPLING METHOD G LOGGER CODE NFIN
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.85	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	430	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	20.5	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK		
R -	REPLICATE	TB -	TRIP BLANK		
S -	SPIKE	LB -	LAB BLANK		
K -	KNOWN	N -	NORMAL		

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-3-88 LOG TIME 1915
LOCATION ID 07 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 521-W022 W002 SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START 1900 COMPLETE 1905
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	2.67	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	769	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	29.3	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D - DUPLICATE	FB - FIELD BLANK	G - GRAB	SP - SUBMERSIBLE PUMP
R - REPLICATE	TB - TRIP BLANK	B - BAILER	AL - AIR-LIFT SAMPLER
S - SPIKE	LB - LAB BLANK	PP - PERISTALIC PUMP	BP - BLADDER PUMP
K - KNOWN	N - NORMAL	SL - SUCTION LIFT PUMP	

SAMPLE METHODS: (WSMCODE)

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID 2LFRD LOG DATE 8-3-88 LOG TIME 1830
LOCATION ID 07 LOT CONTROL NO. _____
SAMPLE TYPE N SAMPLE ID 522-W002 W022 SAMPLE DEPTH (FT.) 5.52

SAMPLING PERIOD: START 1830 COMPLETE 1835
SAMPLING METHOD 6 LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.18	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	692	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	23.6	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK		
R -	REPLICATE	TB -	TRIP BLANK		
S -	SPIKE	LB -	LAB BLANK		
K -	KNOWN	N -	NORMAL		

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-3-88 LOG TIME 1855
LOCATION ID 07 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 523-W022 W002 W122 W622 W222 W522 SAMPLE DEPTH (FT.) 16.67
SAMPLING PERIOD: START 1855 COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.76	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	711	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	19.2	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____
SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)
D - DUPLICATE FB - FIELD BLANK
R - REPLICATE TB - TRIP BLANK
S - SPIKE LB - LAB BLANK
K - KNOWN N - NORMAL

SAMPLE METHODS: (WSMCODE)
G - GRAB SP - SUBMERSIBLE PUMP
B - BAILER AL - AIR-LIFT SAMPLER
PP - PERISTALIC PUMP BP - BLADDER PUMP
SL - SUCTION LIFT PUMP

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-3-88 LOG TIME 1845
LOCATION ID C7 LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID 526 SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START 1845 COMPLETE 1846
SAMPLING METHOD _____ LOGGER CODE RFW
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	2.40	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	168	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	25.2	
ALKALINITY ($CaCO_3$)	ALK	mg/l		

INSTALLATION ID _____ LOG DATE _____ LOG TIME _____
LOCATION ID _____ LOT CONTROL NO. _____
SAMPLE TYPE _____ SAMPLE ID _____ SAMPLE DEPTH (FT.) _____

SAMPLING PERIOD: START _____ COMPLETE _____
SAMPLING METHOD _____ LOGGER CODE _____
LAB CODE _____ DATE SENT _____
PRESERVATION METHOD _____
COMMENTS _____

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY ($CaCO_3$)	ALK	mg/l		

SAMPLE TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

SAMPLE METHODS: (WSMCODE)

G -	GRAB	SP -	SUBMERSIBLE PUMP
B -	BAILER	AL -	AIR-LIFT SAMPLER
PP -	PERISTALIC PUMP	BP -	BLADDER PUMP
SL -	SUCTION LIFT PUMP		