

ATTACHMENT IV. MINUTES OF MEETING

1. Minutes of Meeting dated December 22, 1995
2. Minutes of Meeting dated March 21, 1996

MINUTES OF DISCUSSIONS
ON
BASIC DESIGN STUDY
ON
THE PROJECT FOR GROUNDWATER DEVELOPMENT FOR
RURAL DRINKING WATER SUPPLY, GAZA PROVINCE
IN
THE REPUBLIC OF MOZAMBIQUE

Based on the result of the Preliminary Study, the Japan International Cooperation Agency (JICA) decided to conduct a Basic Design Study on the Project for Groundwater Development for Rural Drinking Water Supply, Gaza Province (hereinafter referred to as "the Project").

JICA has sent to Mozambique a study team, which is headed by Dr. Yuji MARUO, Development Specialist, JICA, and is schedule to stay in the country from December 14, 1995, to January 21, 1996.

The Team held discussions with the officials concerned of the Government of Mozambique and conducted a field survey at the study area.

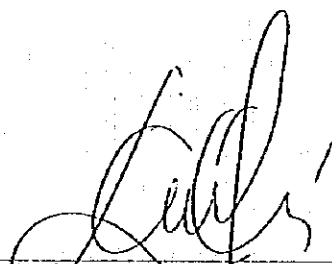
In the course of discussions and field survey, both sides have confirmed the main items described on the attached sheets.

The team will proceed to further works and prepare the Basic Design Study Report.

Maputo, December 22, 1995

丸尾祐治

Dr. Yuji MARUO
Leader
Basic Design Study Team
JICA



Mr. Luis ELIAS
National Director of Water
Ministry of Public Works and
Housing
Republic of Mozambique

ATTACHMENT

1. Objective

The objective of the Project is to provide drinking water at villages in Gaza Province through construction and improvement of boreholes and provision of necessary equipment and materials.

2. Project Sites

The Project sites are listed in **Annexes I-1 and I-3**.

3. Executing Agency

National Directorate of Water of the Ministry of Public Works and Housing is responsible for the administration and execution of the Project.

4. Items Requested by the Government of Mozambique

After discussions with the Basic Design Study Team, items described in **Annex II** were finally requested by the Government of Mozambique. However, items to be included in the Project will be determined after further study.

5. Japan's Grant Aid system

- 1) The Government of Mozambique has understood the system of Japan's Grant Aid explained by the team as described in **Annex IV**.
- 2) The Ministry of Public Works and Housing recognized measures described in **Annex III**, as those which are to be taken by the Government of Mozambique for the smooth implementation of the Project on condition that Japan's Grant Aid is extended to the Project.

6. Schedule of the Study

- 1) The team will proceed to further study in Mozambique until January 21, 1996.
- 2) JICA will prepare the draft report in English and dispatch a mission in order to explain its contents in March 1996.
- 3) In case that the content of the report is accepted in principle by the Government of Mozambique, JICA will complete the final report and send it to the Government of Mozambique by May 1996.

7. Selection of Equipment

Smooth and sustainable supply of spare parts, the cost-performance efficiency of equipment, maintenance services, timing of delivery and familiarity to local staff should be regarded as primary criteria to select types of equipment (including drilling rig) which will be procured for the Project.

8. Other Relevant Issues

- 1) Although there is an agreement to exclude the central and northern part of Gaza province in the Project, the Government of Mozambique strongly requested the mission to consider a future extension of the program including those areas. The basic design study team answered to convey this request to Japanese side.
- 2) APRIDEV pump shall be installed in the Project sites. However, in Majacaze District and other scattered areas, where the groundwater level is expected to be lower than the pumping capacity of APRIDEV, the application of the other handpump must be considered during the present study. Upon the application of the other pump various aspects such as the range of pumping head, the durability, the availability of spare parts; the cost effectiveness, etc. must be taken into consideration.
- 3) In order to transfer the technology on the operation and maintenance of the drilling equipment, EPAR-Gaza will construct some portion of boreholes planned in the Project under the direction of the Japanese contractor.
- 4) Government of Mozambique assists EPAR to extend adequate PEC program, such as the hygiene education, the training for the maintenance of handpumps to the communities, the extension of the spare parts distribution system, etc., to the sites selected in the Project.
- 5) Government of Mozambique promised to allocate necessary personnel and budget for the Project.

Annex I-1 Candidate Sites for Borehole Construction
List of Villages to be Surveyed According to the Criteria (in Annex 1-2)

	Locality	No.	Area/Village	Well Number	Population	
Bilene	Praia D.Bilene	1	Xinhambanine	2	708	
		2	Nhagome	1	510	
		3	Chihalho	2	450	
		4	Chilengue	1	700	
	Mazivila	5	Dzimbene	2	8,911	
	Messno	6	Fulano	1	6,872	
		7	Manzir	1	5,780	
		8	Mutlabse	1	2,600	
	Sede-Macia	9	Chimungo	2	2,006	
	Chissano	10	Matandjine	2	2,350	
		11	Chissano	5	11,896	
		12	Lezino	1	2,800	
		13	Loane	3	3,850	
		14	Chimonzo	5	14,999	
		15	Boloene	1	1,260	
Chibuto		Alto-Changana	16	Rucomezane	2	
	17		Mubochua	2	612	
	18		Mahungo	2		
	19		Nwanate	1	377	
	20		Funguane	1	1,580	
	21		Cocane	2	1,357	
	22		Waximixo	2		
	23		Matlecuane	2	1,067	
	Godide		24	Muxuquete	2	1,914
		25	Bucucha	2	1,067	
		26	Chiconelane	1	596	
	Malchice	27	7 de Setembro	4	4,662	
		28	Chegua	2	1,389	
		29	Coca-Missana	3	4,512	
	Chaimite	30	Ngungunhane	2	4,336	
		31	Matlene	3	654	
	Sede de Chibuto	32	Wahamuza	2	3,856	
		33	Coca Missawa	2		
	Chokwe	Macarretane	34	25 de Setembro	2	2,147
			35	Djodjo	1	1,201
			36	Machua	2	1,686
			37	Machinhe	2	2,236
			38	Chati	2	1,630
Chilembene		39	Chilembene	2	15,623	
		40	Chicotane	2	1,917	
		41	1 de Maio	2	16,135	
Lionde		42	Lionde	4	22,985	
		43	Bombofo	1	681	
		44	Malau	2	2,335	
		45	Carapatosa	1		
Chilembene		46	Chilembene	1	15,623	
		47	Chiduachine	2	3,047	

	Locality	No.	Area/Village	Well Number	Population	
Majacaze	Chibonzane	48	Ponjuane	3		
		49	Chiducwane	3		
		50	Cufaqueza	1		
	Chidenguele	51	Madender	2	2,625	
		52	N'dolene	2	2,335	
	Chidenguele	53	Mafelene	1	8,778	
		54	Madender	2	2,625	
		55	Chiziane	2	745	
		56	Nzofuine	1	2,020	
		57	Chibangue	1	1,060	
		58	Magumete	2	1,560	
		59	Nhachengo	1	2,510	
		60	Madede	1		
		61	Caúne	1		
		62	Matimbine	2	922	
		63	Matinule	1		
		64	Mungoíne	2	3,406	
	Nguzine	65	Nhanzilo	1		
66		Incadine	2			
67		Ruco	1			
68		Chizavane	3			
Xai-Xai	Chongoene	69	Caveleve	3	5,356	
		70	Pumulene	2	2,132	
		71	Venhene	1	395	
		72	Cumine	1	658	
		73	Nhamavila	1	2,443	
		74	Nhapequene	2	3,205	
		75	Nhancutse	4	10,390	
		76	Poiombo	2	2,621	
		77	A. Tivane	4	6,806	
		78	Baluíne	2	480	
		79	Bungate	2	5,985	
		80	Bango	2	3,418	
		Chicumbane	81	Chiconela	3	3,378
			82	Chipenhe	2	3,279
	83		Ngulelene	2	2,573	
	84		24 de Julho	1	8,566	
	85		Nuvunguene	2	7,900	
Total		-	-	164	279,088	

Annex I-2 Evaluation Criteria for Project Sites

- I) Access to Sites
- A: Accessible through the year
 - B: Accessible in dry season
 - C: Impossible
- II) Drinking Water Source
- A: No water source in the village
 - B: Dry up in dry season (surface water)
 - B': Dry up in dry season (groundwater)
 - C: Available through the year (surface water)
 - C': Available through the year (groundwater)
- III) Groundwater Source
- A: Exploitable by hand-pump. Suitable for drinking use.
 - B: Exploitable by hand-pump. Not suitable for drinking use.
 - C: Not exploitable.
- IV) Diffusion of Latrine
- A: more than 70%
 - B: 30 to 70%
 - C: less than 30%
- V) Water Committee
- A: Committee and Fund have been both established.
 - B: Committee has been established, however Fund has not been established.
 - C: Committee has not been established.
- VI) Security of Site
- A: Safe
 - B: Not safe
- VII) Emergency
- A: High incidence of water-related diseases
 - B: Low incidence of water-related diseases
- VIII) Priority in Mozambican Side
- A: High
 - B: Medium
 - C: Low

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Annex I-3 Candidate Sites for Handpump Replacement

District	Area/Village	Well Number
BILENE	Incoluane	1
	Mazivila	1
	Mao-Tee-Tung	4
	Luis Carlos Prestes	6
CHIBUTO	Chegua	2
	Banganhanc	2
	Cocane	1
	Vangenhacane	1
	Coca-Missava	1
CHOKWE	25 de Setembro	1
	Malan	1
	Mauiene	1
	Muzumuia	2
	Muxope	1
	1 Bairro(Hosp. Rural)	1
	Massavasse	1
	Barragem	1
GUIJA	Pumbe	3
	Tomanine	2
	Tavanhanc	1
XAI-XAI	Venhene	1
	Cavelene	1
	Chipenhe	1
	Chiconela	1
	Fidel Castro	1
	Mariel Ngoamby	2
Total	26	41

**ANNEX II ITEMS REQUESTED BY THE GOVERNMENT OF
MOZAMBIQUE**

Item No.	Description	Unit	Qty
1	Truck Mounted Drilling Rig, Max. 200m depth, $\phi 8''$	Unit	1
2	Standard Accessories and Operating Tools for Mud/Air Drilling including -Water Tank Trailer (5,000 l) -Fuel Tank Trailer (5,000 l) -Fuel Tank (500 l)	Set Unit Unit Unit	1 1 1 2
3	Trailer Type High Pressure Air Compressor (20 bar)	Unit	1
4	Borehole Pumping Test System including - Generator - Submersible Pumps(3 1/2") - Others	Set	1
5	Support Vehicles (Diesel Driven) -4x4 Cargo Truck with 10 ton cargo capacity (one is equipped with 6 ton Crane) -4WD Pick-up Light Vehicle (for drilling team, handpump installation team, pumping test team and administration of DNA in Gaza respectively) -4WD Station Wagon for PEC -Motorbike 125cc	Unit Unit Unit Unit	2 4 1 7
6	Geophysical Survey Equipment (Resistivity and Electromagnetic Survey Equipment)	Set	1
7	Water Analysis Kit (pH, EC, Temp., Bacteria, etc.)	Set	1
8	Handpump -150 for new sources -41 for existing sources	Unit	191
9	Borehole Construction and Installation of Handpump	Unit	150
10	Replacement of Handpump and Construction of Aprons, if necessary	Unit	41
11	Trailer Type Mobile Workshop for Rig Maintenance	Unit	1
12	Camping Set	Unit	1
13	Radio System (1 base station and 6 mobile stations)	Set	1
14	GPS	Set	2

**Annex III Measures to be taken by the Government of
Mozambique in case that Japan's Grant Aid is extended to
the Project**

1. To provide data and information necessary for the Project.
2. To secure land for the sites of the Project.
3. To ensure prompt unloading, customs clearance of the products purchased under the Grant at port of disembarkation in Mozambique.
4. To exempt Japanese Nationals from customs duties, internal taxes and other fiscal levies which may be imposed in the Republic of Mozambique with respect to the supply of the products and services under the Verified Contracts.
5. To accord Japanese Nationals, whose services may be required in connection with the supply of the products and services under the Verified Contracts, such facilities as may be necessary for their entry into the Republic of Mozambique and stay therein for the performance of their work.
6. To bear commissions to the Japanese foreign exchange bank to execute the banking services based upon the Banking Arrangement.
7. To use and maintain properly and effectively the products purchased under the Grant.
8. To bear all the expenses, other than those to be borne by the Grant, necessary for execution of the Project.

Annex IV Japan's Grant Aid

(1) Japan's Grant Aid System

I. Grant Aid Procedures

- 1) Japan's Grant Aid Program is executed through the following procedures

Application	(Request made by a recipient country)
Study	(Basic Design Study conducted by JICA)
Appraisal & Approval	(Appraisal by the Government of Japan and Approval by Cabinet)
Determination of Implementation	(The Notes exchanged between the Governments of Japan and the recipient country)

- 2) Firstly, the application or request for a Grant Aid project submitted by a recipient country is examined by the Government of Japan (the Ministry of Foreign Affairs) to determine whether or not it is eligible for Grant Aid. If the request is deemed appropriate, the Government of Japan assigns JICA (Japan International Cooperation Agency) to conduct a study on the request.

Secondly, JICA conducts the study (Basic Design Study), using (a) Japanese consulting firm(s).

Thirdly, the Government of Japan appraises the project to see whether or not it is suitable for Japan's Grant Aid Program, based on the Basic Design Study report prepared by JICA, and the results are then submitted to the Cabinet for approval.

Fourthly, the project, once approved by the Cabinet, becomes official with the Exchange of Notes signed by the Governments of Japan and the recipient country.

Finally, for the implementation of the project, JICA assists the recipient country in such matters as preparing tenders, contracts and so on.

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2. Basic Design Study

1) Contents of the Study

The aim of the Basic Design Study (hereinafter referred to as "the Study"), conducted by JICA on a requested project (hereinafter referred to as "the Project") is to provide a basic document necessary for the appraisal of the Project by the Japanese Government. The contents of the Study are as follows:

- a) Confirmation of the background, objectives, and benefits of the requested project and also institutional capacity of agencies concerned of the recipient country necessary for the Project's implementation.
- b) Evaluation of the appropriateness of the Project to be implemented under the Grant Aid Scheme from a technical, social and economic point of view.
- c) Confirmation of items agreed on by both parties concerning the basic concept of the Project.
- d) Preparation of a basic design of the Project
- e) Estimation of costs of the Project

The contents of the original request are not necessarily approved in their initial form as the contents of the Grant Aid project. The Basic Design of the Project is confirmed considering the guidelines of Japan's Grant Aid Scheme.

The Government of Japan requests the Government of the recipient country to take whatever measures are necessary to ensure its self-reliance in the implementation of the Project. Such measures must be guaranteed even though they may fall outside of the jurisdiction of the organization in the recipient country actually implementing the Project. Therefore, the implementation of the Project is confirmed by all relevant organizations of the recipient country through the Minutes of Discussions.

2) Selection of Consultants

For smooth implementation of the Study, JICA uses registered consultant firms. JICA selects firms based on proposals submitted by

interested firms. The firms selected carry out a Basic Design Study and write a report, based upon terms of reference set by JICA.

The consulting firms used for the Study are recommended by JICA to the recipient country to also work on the Project's implementation after the Exchange of Notes, in order to maintain technical consistency and also to avoid any undue delay in implementation should the selection process be repeated.

3. Japan's Grant Aid Scheme

1) What is Grant Aid?

The Grant Aid Program provides a recipient country with non-reimbursable funds to procure the facilities, equipment and services (engineering services and transportation of the products, etc.) for economic and social development of the country under principles in accordance with the relevant laws and regulations of Japan. Grant Aid is not supplied through the donation of materials as such.

2) Exchange of Notes (E/N)

Japan's Grant Aid is extended in accordance with the Notes exchanged by the two Governments concerned, in which the objectives of the Project, period of execution, conditions and amount of the Grant Aid, etc., are confirmed.

3) "The period of the Grant Aid" means the one fiscal year which the Cabinet approves the Project for. Within the fiscal year, all procedures such as exchanging of the Notes, concluding contracts with consultant firms and (a) contractor(s) and final payment to them must be completed.

However in case of delays in delivery, installation or construction due to unforeseen factors such as weather, the period of the Grant Aid can be further extended for a maximum of one fiscal year at most by mutual agreement between the two Governments.

4) Under the Grant Aid, in principle, Japanese products and services including transport or those of the recipient country are to be purchased.

When the two Governments deem it necessary, the Grant Aid may be used for the purchase of the products or services of a third country.

However the prime contractors, namely, consulting, constructing and procurement firms, are limited to "Japanese nationals". (The term "Japanese nationals" means persons of Japanese nationality or Japanese corporations controlled by persons of Japanese nationality.)

5) Necessity of "Verification"

The Government of recipient country or its designated authority will conclude contracts denominated in Japanese yen with Japanese nationals. Those contracts shall be verified by the Government of Japan. This "Verification" is deemed necessary to secure accountability to Japanese taxpayers.

6) Undertakings required of the Government of the Recipient Country

In the implementation of the Grant Aid project, the recipient country is required to undertake such necessary measures as the following:

- (1) To secure land necessary for the sites of the Project and to clear, level and reclaim the land prior to commencement of the construction.
- (2) To provide facilities for the distribution of electricity, water supply and drainage and other incidental facilities in and around the sites.
- (3) To secure buildings prior to the procurement in case the installation of the equipment.
- (4) To ensure all the expenses and prompt execution for unloading, customs clearance at the port of disembarkation and internal transportation of the products purchased under the Grant Aid.
- (5) To exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which will be imposed in the recipient country with respect to the supply of the products and services under the Verified Contracts.

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(6) To accord Japanese nationals whose services may be required in connection with the supply of the products and services under the Verified Contracts, such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work.

(7) "Proper Use"

The recipient country is required to maintain and use the facilities constructed and equipment purchased under the Grant Aid properly and effectively and to assign staff necessary for this operation and maintenance as well as to bear all the expenses other than those covered by the Grant Aid.

(8) "Re-export"

The products purchased under the Grant Aid should not be re-exported from the recipient country.

(9) Banking Arrangements (B/A)

a) The Government of the recipient country or its designated authority should open an account in the name of the Government of the recipient country in an authorized foreign exchange bank in Japan (hereinafter referred to as "the Bank"). The Government of Japan will execute the Grant Aid by making payments in Japanese yen to cover the obligations incurred by the Government of the recipient country or its designated authority under the Verified Contracts.

b) The payments will be made when payment requests are presented by the Bank to the Government of Japan under an authorization to pay issued by the Government of the recipient country or its designated authority.

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MINUTES OF DISCUSSIONS
ON THE BASIC DESIGN STUDY
ON THE PROJECT FOR THE DEVELOPMENT
OF RURAL DRINKING WATER SUPPLY IN GAZA PROVINCE
IN
THE REPUBLIC OF MOZAMBIQUE

In December 1995, the Japan International Cooperation Agency (JICA) dispatched a Basic Design Study Team on the Project for The Development of Rural Drinking Water Supply in Gaza Province (hereinafter referred to as "the Project") to Mozambique, and through discussions, field survey, and technical examination of the results in Japan, JICA has prepared a Draft Basic Design Report of the Study.

In order to explain and to consult Mozambique on the components of the Draft Basic Design Report, JICA sent to Mozambique a Draft Basic Design Report Explanation Team, headed by Dr. Yuji MARUO, Development Specialist, JICA, from 13 to 21 of March, 1996.

As a result of discussions, both parties confirmed the main items described on the attached sheet.

Maputo, March 20, 1996

九尾祐治

Dr. Yuji MARUO
Leader,
Basic Design Study Team
Japan International Cooperation Agency



Eng. Luis ELIAS
National Director of Water

ATTACHMENT

1. Components of Draft Report

The Government of Mozambique has agreed and accepted in principle the components of the Draft Basic Design Report explained by the Team. However, those comments made during the discussion should be considered in the Final Report.

2. Japan's Grant Aid System

- (1) The Government of Mozambique has understood the system of Japan's Grant Aid Scheme described in Annex II explained by the Team.
- (2) The Ministry of Public Works and Housing recognized measures described in Annex I, as those which are to be taken by the Government of Mozambique for the smooth implementation of the Project on condition that Japan's Grant Aid is extended to the Project.

3. Project Name

The name of the Project is revised as follows:

Revised: *the project for development of rural drinking water supply in Gaza Province*

Original: *the project for groundwater development for rural drinking water supply, Gaza Province*

4. Further Schedule

The Team will make the Final Report in accordance with the confirmed items, and send it to the Government of Mozambique in April 1996.

5. Other Relevant Issues

(1) Mozambican side requested the following matters to the Team.

- a) The most effective use of the available resources of Japan's Grant Aid particularly when necessary items are procured for the Project.
- b) Altering combination and specification of supporting vehicles to one of the following three (3) alternatives.

Alternative 1

- i) Two (2) ten-ton trucks (4x4, one with crane)
- ii) Trailer type water tank (5,000 l)
- iii) Trailer type fuel tank (3,000 l)

Alternative 2

- i) Ten-ton truck (4x4, with crane)
- ii) Five-ton truck (4x4, originally considered to be borrowed from EPAR-Gaza)
- iii) Trailer type water tank (5,000 l)

iv) Trailer type fuel tanks (3,000 l)

Alternative 3

i) Ten-ton truck (4x4, with crane)

ii) Five-ton truck (4x4, with crane)

iii) Trailer type water tank (5,000 l)

iv) Fuel tanks (1,000 l x 3 to be transported by five-ton truck)

c) Pick-up vehicle specification should be that of Land Cruiser class.


(2) The Team answered to the respective Mozambican requests as follows:

a) The Team will carry out investigation on Mozambican local market for procuring the listed equipment during the Detailed Design Study.

b) The Team will examine a possible application of Alternative 3. The results will be reflected in the Detailed Design Study.

c) However the Team has already discussed this matter with relevant officials in Japan and considers that the alteration of class of pick-up vehicle is difficult, the Team will convey the request to Japan again.

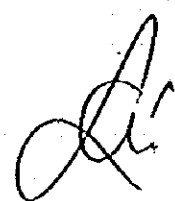
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ANNEX I

Measures to be taken by the Government of Mozambique in case that Japan's Grant Aid is extended to the Project

1. To provide data and information necessary for the Project.
2. To secure land for the sites of the Project.
3. To ensure prompt unloading, customs clearance of the products purchased under the Grant at port of disembarkation in Mozambique.
4. To exempt Japanese Nationals from customs duties, internal taxes and other fiscal levies which may be imposed in the Republic of Mozambique with respect to the supply of the products and services under the Verified Contracts.
5. To accord Japanese Nationals, whose services may be required in connection with the supply of the products and services under the Verified Contracts, such facilities as may be necessary for their entry into the Republic of Mozambique and stay therein for the performance of their work.
6. To bear commissions to the Japanese foreign exchange bank to execute the banking services based upon the Banking Arrangement.
7. To use and maintain properly and effectively the products purchased under the Grant.
8. To bear all the expenses, other than those to be borne by the Grant, necessary for execution of the Project.



ANNEX II
ON JAPAN'S GRANT AID PROGRAM

1. Japan's Grant Aid Procedures after the Study

- (1) The Japan's Grant Aid Program is executed by the following procedures.
- Study (Preliminary Study / Basic Design Study conducted by JICA)
 - Appraisal & Approval (Appraisal by the Government of Japan and Approval by the Cabinet of Japan)
 - Determination of Implementation (Exchange of Notes between the both Governments)
 - Implementation (Implementation of the Project)
- (2) The Government of Japan appraises to see whether or not the Project is suitable for Japan's Grant Aid Program, based on the Basic Design Study report prepared by JICA and the results are then submitted for approval by the Cabinet.

The Project approved by the Cabinet becomes official when pledged by the Exchange of Notes signed by the two Governments.

Finally, for the implementation of the Project, JICA assists the recipient country in preparing contracts and so on.

2. Japan's Grant Aid Scheme

(1) What is Grant Aid?

The Grant Aid Program provides a recipient country with non reimbursable funds needed to procure facilities, equipment and services for economic and social development of the country under the following principles in accordance with relevant laws and regulations of Japan. The Grant Aid is not in a form of donation or such.

(2) Exchange of Notes (E/N)

The Japan's Grant Aid is extended in accordance with the Exchange of Notes by both Governments, in which the objectives of the Project, period of execution, conditions and amount of the Grant etc. are confirmed.

(3) "The period of the Grant Aid" means one Japanese fiscal year which the Cabinet approves the Project for. Within the fiscal year, all procedure such as Exchange of Notes, concluding a contract with (a) consulting firm(s) and (a) contractor(s) and a final payment to them must be completed.

(4) Under the Grant, in principle, products and services of origins of Japan or the recipient country are to be purchased.

When the two Governments deem it necessary, the Grant may be used for the purchase of products or services of a third country origin.

However the prime contractors, namely, consulting, contractor and procurement firms, are limited to "Japanese nationals". (The term "Japanese nationals" means Japanese physical persons or Japanese juridical persons controlled by Japanese physical persons.)

(5) Necessity of the "Verification"

The Government of the recipient country or its designated authority will conclude into contracts in Japanese yen with Japanese nationals. Those contracts shall be verified by the Government of Japan. The "Verification" is deemed necessary to secure accountability to Japanese tax payers.

(6) Undertakings required to the Government of the recipient country

In the implementation of the Grant Aid, the recipient country is required to undertake necessary measures such as the following:

- ① to secure land necessary for the sites of the project and to clear and level the land prior to commencement of the construction work,
- ② to provide facilities for distribution of electricity, water supply and drainage and other incidental facilities in and around the sites,
- ③ to secure buildings prior to the installation work in case the Project is providing equipment,
- ④ to ensure all the expenses and prompt execution for unloading, customs clearance at the port of disembarkation and internal transportation of the products purchased under the Grant Aid,
- ⑤ to exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which will be imposed in the recipient country with respect to the supply of the products and services under the Verified Contracts,
- ⑥ to accord Japanese nationals whose services may be required in connection with the supply of the products and services under the Verified Contracts, such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work.

(7) Proper Use

The recipient country is required to maintain and use facilities constructed and equipment purchased under the Grant Aid properly and effectively and to assign staff necessary for their operation and maintenance as well as to bear all expenses other than those to be borne by the Grant Aid.

(8) Re-export

The products purchased under the Grant Aid shall not be re-exported from the recipient country.

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(9) Banking Arrangement (B/A)

- (a) The Government of the recipient country or its designated authority shall open an account in the name of the Government of the recipient country in an authorized foreign exchange bank in Japan (hereinafter referred to as "the Bank"). The Government of Japan will execute the Grant Aid by making payments in Japanese yen to cover the obligations incurred by Government of the recipient country or its designated authority under the contracts verified.
- (b) The payments will be made when payment requests are presented by the Bank to the Government of Japan under an Authorization to Pay issued by the Government of the recipient country or its designated authority.

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ATTACHMENT V. ESTIMATED COST BORNE BY MOZAMBICAN SIDE

(Unit: Mt.)

No.	Item	Unit	Quantity	Unit Cost	Amount	Remarks
1. Salary of Drilling Staff						
	Driller	man.day	208	237,600	49,302,000	10-month Operation
	Assistant Driller	man.day	208	168,375	34,937,813	10-month Operation
	Mechanics	man.day	208	168,375	34,937,813	10-month Operation
	Helpers	man.day	208	111,725	23,182,938	10-month Operation
	Guard	man.day	208	111,725	23,182,938	10-month Operation
	Sub-total	-	-	-	165,543,502	
2. Fuel and Lubricants for Vehicles						
	Cargo Truck	man.nos.	208	-	-	EPAR's Car
	Fuel	l	2,501	3,500	8,754,200	130 PS
	Lubricants, etc.	L.S.	-	-	437,710	10-month Operation
	Sub-total	-	-	-	9,191,910	
	Total	-	-	-	174,735,412	

Note: Construction of access roads and construction of protection fences will be made by the villagers at their own costs to increase opportunities for participation of villagers, and land is considered as public in the country.



ATTACHMENT VI. OTHER RELEVANT DATA

1. Results of Geophysical and Hydrogeological Surveys
2. Results of Electric Resistivity Survey
3. Depth to Groundwater Surface
4. Electric Conductivity
5. Results of Interview Survey

The Results of Geophysical and Hydrogeological Survey (1/2)

No.	Area/Village	Requested Well No.	Type of Expected Aquifer	St. No.	Groundwater Potential	Water Quality	Expected Depth to Good Aquifer	Proposed Well No.
1	Xinhambanine	2	Unconfined	1 2	Good	Fresh Fresh	10 ~ 20 (m) (m)	(2)
2	Nhagome	1						(0)
3	Chhacho	1	Unconfined	1 2	Good	Fresh Fresh	10 ~ 20	(1)
4	Chibengue	1	Unconfined	1	Good	Fresh	10 ~ 20	(1)
5	Drimbene	3	Unconfined	1 2	Good	Fresh Fresh	30 ~ 40	(3)
6	Fufano	1	Unconfined	1	Good	Fresh	50 ~ 60	(1)
7	Mauzir	3	Unconfined	1 2	Good Good	Fresh Fresh	30 ~ 40	(3)
8	Mutabese	2	Unconfined	1	Good	Fresh	30 ~ 40	(2)
9	Chinungo	2	Unconfined	1 2	Good	Fresh Fresh	30 ~ 40	(2)
10	Matandjine	2	Unconfined	1 2	Good	Fresh Fresh	30 ~ 40	(2)
11	Chissano	5	Unconfined	1 2	Good	Fresh Fresh	40 ~ 50	(5)
12	Liane	1	Unconfined	1	Good	Fresh	50 ~ 60	(1)
13	Loane(Beloane)	3	Unconfined	1	Good	Fresh	40 ~ 50	(3)
14	Chimozzo	5	Unconfined	1 2	Good	Fresh Fresh	30 ~ 40	(5)
15	Boloene	1	Unconfined	1	Good	Fresh	40 ~ 50	(1)
16	-							-
17	Muboehua	2	Confined	1 2	Good	Moderately saline Moderately saline	20 ~ 30	(2)
18	Mahungo	2	Confined	1 2	Good	Moderately saline Moderately saline	30 ~ 40	(2)
19	Nwamate	1	Confined	1	Good	Moderately saline	20 ~ 30	(1)
20	Lunguane	1	Confined	1	Good	Moderately saline	10 ~ 20	(1)
21	Cocane	2	Confined	1 2	Good	Moderately saline Moderately saline	40 ~ 50	(2)
22	Waximiso	1	Confined	1	Good	Moderately saline	40 ~ 50	(1)
23	Matecuane	2	Confined	1 2	Good	Moderately saline Moderately saline	20 ~ 30	(2)
24	Mucocuwte	2	Unconfined	1 2	Good	Fresh Fresh	50 ~ 60	(2)
25	Bucucha	2	Unconfined	1 2	Good	Fresh Fresh	40 ~ 50	(2)
26	Chiconelane	1	Unconfined	1	Good	Fresh	40 ~ 50	(1)
27	7 de Setembro	4	Unconfined	1 2	Good	Fresh Fresh	50 ~ 60	(4)
28	Chegua	1	Unconfined	1 2 3	Good	Fresh Fresh Fresh	30 ~ 40	(1)
29	Coca-Missawa	2	Unconfined	1 2	Good	Fresh Fresh	50 ~ 60	(2)
30	Ngungunhane	5	Confined	1 2	Good	Moderately saline Moderately saline	20 ~ 30	(5)
31	Tafene	3	Confined	1 2	Good	Moderately saline Moderately saline	10 ~ 20	(3)
32	Wahamuza	2	Unconfined	1 2	Good	Fresh Fresh	50 ~ 60	(2)
33	-							-
34	25 de Setembro	2	Confined	1 2	Good	Moderately saline Moderately saline	20 ~ 30	(2)
35	Djedjo	1	Unconfined	1	Good	Fresh	20 ~ 30	(1)
36	Mochua	2	Unconfined	1 2	Good	Fresh Fresh	40 ~ 50	(2)
37	Machinhe	2	Confined	1 2	Good	Moderately saline Fresh	30 ~ 40	(2)
38	Chate	2	Confined	1 2	Good	Moderately saline Moderately saline	50 ~ 60	(2)
39	Chigidela	2	Confined	1 2	Good	Moderately saline Moderately saline	40 ~ 50	(2)
40	Chicotane	2	Confined	1 2	Good	Moderately saline Fresh	40 ~ 50	(2)
41	1 de Maio	2	Confined	1 2	Good	Moderately saline Moderately saline	30 ~ 40	(2)
42	Ijende	4	Confined	1 2	Good	Moderately saline Moderately saline	50 ~ 60	(4)

The Results of Geophysical and Hydrogeological Survey (2/2)

No.	Area Village	Requested Well No.	Type of Expected Aquifer	St. No.	Groundwater Potential	Water Quality	Expected Depth to Good Aquifer	Proposed Well No.
43	Bombofo	1	Confined	1	Good	Moderately saline	40 ~ 50	(1)
44	Malau	2	Confined	1 2	Good	Moderately saline Moderately saline	40 ~ 50	(2)
45	Carapatoxo	1	Confined	1	Good	Moderately saline	40 ~ 50	(1)
46	Malambajane	1	Confined	1	Good	Moderately saline	40 ~ 50	(1)
47	Chiduachine	2	Confined	1 2	Good	Moderately saline Moderately saline	40 ~ 50	(2)
48	Ponjuane	1	Unconfined	1 2	Good	Fresh Fresh	20 ~ 30	(1)
49	Chiduacane	3	Unconfined	1 2	Good	Fresh Fresh	30 ~ 40	(3)
50	Cufaqueza	1	Unconfined	1	Good	Fresh	20 ~ 30	(1)
51	-	-	-	-	-	-	-	-
52	Ndolene	2	Unconfined	1 2	Good	Fresh Fresh	40 ~ 50	(2)
53	Mafelene	1	Unconfined	1	Good	Fresh	50 ~ 60	(1)
54	Madender	4	Confined	1 2	Good	Fresh Fresh	90 ~ 100	(2)
55	Chiziane	2	Confined	1 2	Good	Fresh Fresh	70 ~ 80	(1)
56	-	-	-	-	-	-	-	-
57	Chinbangué	1	Confined	1	Good	Fresh	90 ~ 100	(1)
58	Magumete	2	Confined	1 2	Good	Fresh Moderately saline	70 ~ 80	(1)
59	Nachengo	1	Confined	1	Good	Fresh	70 ~ 80	(1)
60	Madede	1	Confined	1	Good	Fresh	70 ~ 80	(1)
61	Cavine	2	Confined	1 2	Good	Fresh Fresh	70 ~ 80	(1)
62	Mtimbine	2	Unconfined	1 2	Good	Fresh Fresh	50 ~ 60	(2)
63	Matimule	2	Unconfined	1	Good	Fresh	50 ~ 60	(2)
64	Mungoie	2	Unconfined	1 2	Good	Fresh Fresh	60 ~ 70	(2)
65	Nhanzilo	1	Unconfined	1	Good	Fresh	30 ~ 40	(1)
66	Incadine	2	Unconfined	1 2	Good	Fresh Fresh	70 ~ 80	(1)
67	Roco	1	Unconfined	1	Good	Fresh	40 ~ 50	(1)
68	Chizavane	5	Unconfined	1 2	Good	Fresh Fresh	30 ~ 40	(5)
69	Cavelene	2	Unconfined	1 2	Good	Fresh Fresh	50 ~ 60	(2)
70	Pumufene	2	Unconfined	1 2	Good	Fresh Fresh	40 ~ 50	(2)
71	Venhene	1	Unconfined	1	Good	Fresh	40 ~ 50	(1)
72	Cumine	2	Unconfined	1	Good	Fresh	30 ~ 40	(2)
73	Nhamavila	1	Confined	1	Good	Fresh	30 ~ 40	(1)
74	Nhapequene	2	Confined	1 2	Good	Fresh Fresh	70 ~ 80	(1)
75	Nhancutse	4	Confined	1 2	Good	Fresh Fresh	50 ~ 60	(3)
76	Poiombo	2	Confined	1 2	Good	Fresh Fresh	50 ~ 60	(1)
77	A. Tivane	3	Confined	1 2	Good	Fresh Fresh	70 ~ 80	(1)
78	Balaine	2	Confined	1 2	Good	Fresh Fresh	70 ~ 80	(1)
79	Dungane	2	Confined	1 2	Good	Fresh Fresh	50 ~ 60	(2)
80	Bango	2	Confined	1 2	Good	Fresh Fresh	50 ~ 60	(2)
81	Chicoonela	3	Unconfined	1 2	Good	Fresh Fresh	30 ~ 40	(3)
82	Chipenhe	2	Unconfined	1 2	Good	Fresh Fresh	30 ~ 40	(2)
83	Ngulelene	2	Unconfined	1 2	Good	Fresh Fresh	30 ~ 40	(2)
84	24 de Julho	1	Unconfined	1	Good	Fresh	30 ~ 40	(1)
85	Nuvunguene	2	Unconfined	1 2	Good	Fresh Fresh	40 ~ 50	(2)

Fresh: 0 < EC < 1500 (micro-S/cm)
Moderately saline: 1500-EC<5000 (micro-S/cm)

Results of VES in Gaza, Mozambique 1995 to 1996(1)

SNo	Name of Village	VES No	Latitude			Longitude			Depth of Resistivity Layer(m)										
										Resistivity of Layers($\Omega \cdot m$)									
1	Xinhambanine	VES 001-01	25	16	38	33	14	56	0		3.1		28.8		176				
											3793		1529		117		431		
		VES 001-02	25	17	11	33	14	4	0		7.2		27.4		307				
3	Chihalho	VES 003-01	25	12	10	33	13	15	0		2.2		11.8		107				
											1048		6029		230		38.9		
		VES 003-02	25	11	50	33	12	53	0		3.1		13.5		123				
4	Chilengue	VES 004-01	25	13	57	33	13	54	0		1.6		26.9						
											635		3092		113				
5	Dzimbene	VES 005-01	24	56	53	33	7	17	0		1.2		5.9		23.4				
											3158		1259		1656		58		
		VES 005-02	24	56	39	33	6	58	0		1.6		4.6		29.3				
6	Fulano	VES 006-01	25	1	40	32	59	51	0		3.3		19.1		46.6				
											1486		2878		493		28		
7	Manzir	VES 007-01	25	3	39	33	2	17	0		3.4		6.5		51.4				
											679		3882		586		28		
8	Mutlabse	VES 008-01	25	2	42	33	3	40	0		1.5		20.9		22.8		68.3		
											5397		805		1097		292		24
											2732		1096		36				
9	Chimungo	VES 009-01	25	1	50	33	7	31	0		2.2		27.3						
											7596		1253		7285		382		25
		VES 009-02	25	1	49	33	7	18	0		1.8		8.5		11.7		40.5		
10	Matandjine	VES 010-01	24	53	48	33	23	20	0		2.7		24.9						
											1177		352		59				
		VES 010-02	24	54	30	33	22	46	0		2.6		31.6						
11	Chissano	VES 011-01	24	56	0	33	21	3	0		2.0		3.5		27.2				
											734		371		522		16		
		VES 001-02	24	55	31	33	22	1	0		1.0		30.0						
12	Liane	VES 012-01	24	52	6	33	18	2	0		1.5		5.0		20.0				
											1066		1218		1817		161		
13	Loane(Boloene)	VES 013-01	24	51	54	33	20	54	0		1.3		20.8		174				
											3509		730		75		283		
14	Chimonzo	VES 014-01	24	56	15	33	17	8	0		2.1		4.7		13.3		40.5		
											1879		420		3604		380		38
		VES 014-02	24	57	2	33	17	58	0		1.8		36.8						
15	Boloene(=Loane)	VES 015-01	24	52	0	33	21	29	0		1.4		4.4		20.9		151		
											796		2350		925		17		2486
17	Mubochua	VES 017-01	24	18	21	33	33	56	0		1.6		33.1		36.7		165		
											26		5.3		8.4		2.2		155
		VES 017-02	24	17	45	33	34	6	0		3.6		58.4		137				
18	Mahungo	VES 018-01	24	14	26	33	34	45	0		5.5		22.8		31.5		96.1		
											16.8		3.3		9.7		1.9		7.2
		VES 018-02	24	14	42	33	34	47	0		3.1		13.3		23.0		76.9		
									25		4.6		10.6		1.9		10.6		

Results of VES in Gaza, Mozambique 1995 to 1996(2)

SNo.	Name of Village	VES No.	Latitude		Longitude		Depth of Resistivity Layer(m)								
							Resistivity of Layers($\Omega \cdot m$)								
19	Nwamate	VES 019-01	24	17	3	33	35	41	0	6.9	8.5	15.1			
										272	43	0.4	8.0		
20	Funguane	VES 020-01	24	24	36	33	17	12	0	4.3	74.6				
										53	5.2	18.7			
21	Cocane	VES 021-01	24	13	48	33	32	34	0	2.8	8.0	19	43		
										7.2	2.0	10.6	1.0	9.1	
21		VES 021-02	24	13	52	33	32	19	0	1.8	8.8	20	78		
										23	6.6	13.8	2.4	10	
22	Waximixo	VES 022-01	23	59	35	33	39	9	0	6.3	7.7	14			
										22	31	0.46	19		
23	Metlecuane	VES 023-01	24	14	56	33	37	20	0	3.1	11.1	31			
										59	125	3.1	32		
23		VES 023-02	24	14	45	33	37	31	0	3.1	9.4	148			
										77	12	3.1	11.5		
24	Muxuquete	VES 024-01	24	41	42	33	39	30	0	7.4	43				
										766	207	31			
24		VES 024-02	24	41	55	33	39	26	0	3.4	12				
										1173	1349	46			
25	Bucucha	VES 025-01	24	40	54	33	39	5	0	12	32				
										2214	627	87			
25		VES 025-02	24	41	28	33	37	54	0	9.2	30				
										2352	274	104			
26	Chiconelane	VES 026-01	24	37	17	33	42	21	0	10.7	22.6				
										1747	730	19			
27	7 de Setembro	VES 027-01	24	45	30	33	41	4	0	7.8					
										1529	454				
27		VES 027-02	24	45	18	33	40	13	0	7.7	19.4	52.7			
										906	794	116	12		
28	Chegua	VES 028-01	24	48	12	33	43	51	0	16	43				
										2149	435	62			
										983	2871	460	18		
28		VES 028-02	24	47	55	33	43	55	0	3.8	11.5	38.8			
28		VES 028-03	24	48	17	33	41	51	0	10.8	39.7				
										1926	189	14			
29	Coca-Missawa	VES 029-01	24	47	41	33	38	27	0	10.5	25.4				
										567	164	32			
29		VES 029-02	24	47	42	33	39	5	0	7.3	26.6				
										1887	338	15			
30	Ngungunhane	VES 030-01	24	38	7	33	18	10	0	4.7	12.6	105			
										74	17	5.4	82		
30		VES 030-02	24	39	16	33	18	56	0	1.5	15.3	51.5			
										40	9.7	5.2	8.2		
31	Tatlene	VES 031-01	24	33	15	33	22	20	0	5.4	11.8				
										979	2.5	29			
31		VES 031-02	24	35	40	33	19	0	0	4.1	11.7				
										21	88	7.3			
32	Wahamuza	VES 032-01	24	43	30	33	35	25	0	8.4	27.5				
										738	269	26			
32		VES 032-02	24	43	33	33	35	6	0	6.8	26.1				
										1833	209	14.6			

Results of VES in Gaza, Mozambique 1995 to 1996(3)

SNo	Name of Village	VES No.	Latitude			Longitude			Depth of Resistivity Layer(m)										
										Resistivity of Layers($\Omega \cdot m$)									
34	25 de Setembro	VES 034-01	24	19	42	32	47	12	0		4.9		20.2						
											6.3		13.4		6.5				
		VES 034-02	24	19	14	32	46	54	0		0.3		0.9		3.5		17.9		
35	Djodjo	VES 035-01	24	15	5	32	44	0	0		15		26		130				
											8.1		12.4		23.1		3.7		
											7.5		27.9		5.5		20.3		7.9
36	Machua	VES 036-01	24	9	56	32	38	31	0		1.9		18		40.5				
											28.4		14.2		47.4		12.4		
		VES 036-02	24	9	29	32	38	18	0		6.9		17.4		133				
37	Machinhe	VES 037-01	24	14	10	32	43	17	0		2.5		6.9		20.2		54.5		
											28.9		16.5		35.2		11.9		9.8
		VES 037-02	24	13	26	32	42	52	0		1.5		10.7		61.3				
38	Chati	VES 038-01	24	24	28	32	46	53	0		2.11		20.7		92.3				
											3.4		5.1		2.2		11.2		
		VES 038-02	24	24	27	32	46	55	0		8.5		42.8						
39	Chiguidela	VES 039-01	24	40	45	33	19	8	0		5.9		1.6		4.2				
											6.6		71.7						
		VES 039-02	24	40	37	33	18	45	0		22.9		2.1		8.4				
40	Chicotane	VES 040-01	24	50	43	33	23	41	0		14		87		3.2		6.2		
											5.9		16.8						
		VES 040-02	24	48	35	33	23	3	0		5111		1038		9.6				
41	1 de Maio	VES 041-01	24	35	21	33	2	19	0		340		7840		13				
											0.9		3.4						
		VES 041-02	24	42	46	33	11	20	0		369		176		4.2		34.8		
42	Lionde	VES 042-01	24	34	25	33	1	0	0		7300		349		4.7		49.8		
											7.4		69.3						
		VES 042-02	24	35	24	33	2	19	0		1.8		4.4		14				
43	Bombofo	VES 043-01	24	35	56	32	56	16	0		2.1		2.7		1.9		11.4		
											2		13.5		41.7				
											37		3.8		0.9		30		
44	Malau	VES 044-01	24	40	55	32	50	46	0		13		1.5		5.3				
											3.8		24.4						
		VES 044-02	24	41	25	32	51	3	0		18		1.8		2.9		22.4		
45	Carrapatoso	VES 045-01	24	39	49	32	59	22	0		12.6		83.8						
											1.8		2.4		27.8				
											4		11.2		140				
46	Mambajane	VES 046-01	24	38	44	33	16	54	0		68		5.7		1.5		7.7		
											2.1		14		45				
											25		5.8		0.7		10.7		
47	Chiduachine	VES 047-01	24	47	23	33	28	23	0		10		82						
											8.6		1.6		16.5				
		VES 047-02	24	47	38	33	28	57	0										

Results of VES in Gaza, Mozambique 1995 to 1996(4)

SNo.	Name of Village	VES No.	Latitude			Longitude			Depth of Resistivity Layer(m)									
48	Ponjuane	VES 048-01	24	34	38	34	19	21	0		1.4		3.7		17		28	
											3900		23000		17		472	
		VES 048-02	24	35	6	34	18	11	0		4.9		137					
											12226		44		14977			
49	Chiducwane	VES 049-01	24	35	29	34	23	36	0		4.8		13					
											2500		654		46			
		VES 049-02	24	35	15	34	23	5	0		7.2		29					
											2593		101		15			
50	Cufaueza	VES 050-01	24	39	8	34	5	41	0		5.5							
										957		35						
52	N'dolene	VES 052-01	24	49	5	34	9	21	0		6.7		36					
											1484		279		67			
		VES 052-02	24	49	24	34	8	48	0		4.8		47					
											2551		389		25			
53	Mafelene	VES 053-01	24	53	30	34	10	5	0		7		46					
											3511		535		29			
54	Maderder	VES 054-01	24	51	10	34	15	12	0		5.2		8.7		76			
											854		2308		544		34	
		VES 054-02	24	51	37	34	14	34	0		2.9		17		105			
											496		672		695		13	
55	Chiziane	VES 055-01	24	48	7	34	23	45	0		2.6		21		69			
											1206		598		154		35	
		VES 055-02	24	48	32	34	23	40	0		12		82					
											519		169		0.1			
56	Nzofuine	VES 056-01	24	47	35	34	24	37	0		5.2		16		43		144	
											1164		575		416		117	
57	Chibangue	VES 057-01	24	49	56	34	19	17	0		2.4		7.3		88			
											773		2182		520		76	
58	Magumete	VES 058-01	24	51	13	34	22	33	0		12		42					
											1249		742		25			
		VES 058-02	24	51	23	34	22	12	0		14		58					
											1587		624		6.8			
59	Nhachengo	VES 059-01	24	52	13	34	18	20	0		10		27					
										875		163		42				
61	Cavine	VES 061-01	24	51	1	34	23	49	0		3.5		6.7		35			
											818		2016		771		148	
		VES 061-02	24	51	1	34	24	37	0		5.6		42					
											1420		514		17			
62	Matimbine	VES 062-01	24	54	35	34	6	37	0		3.4		18					
											580		1058		96			
		VES 062-02	24	54	59	34	6	3	0		2		17					
											587		3091		90			
63	Matinule	VES 061-01	24	55	21	34	4	9	0		26		59					
										461		268		23				
64	Mungoine	VES 064-01	24	53	22	34	7	10	0		7.9		16.9		31			
											554		246		1011		211	
		VES 064-02	24	54	30	34	7	16	0		12.5		59.5					
											1207		575		54.2			

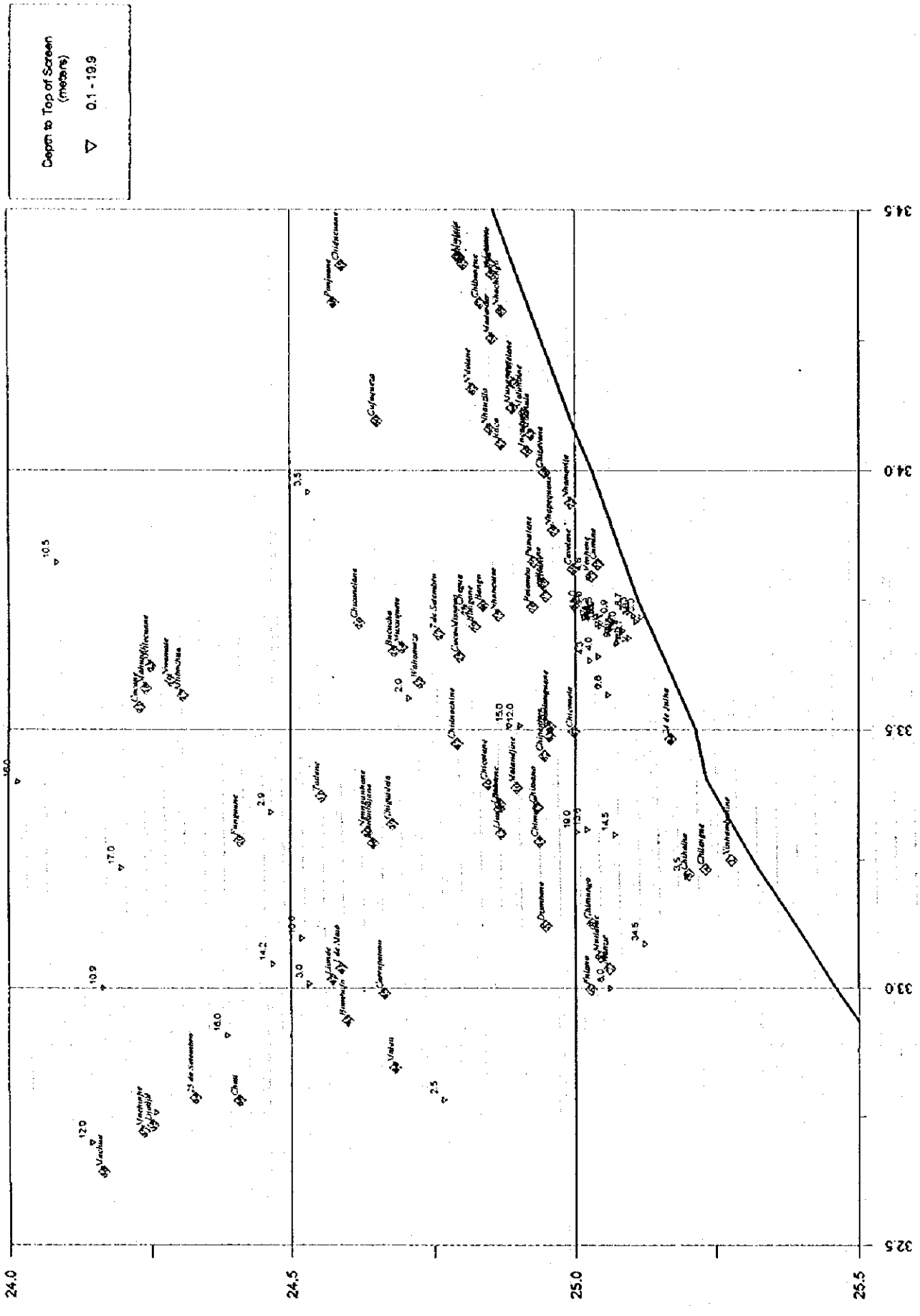
Results of VES in Gaza, Mozambique 1995 to 1996(5)

SNo.	Name of Village	VES No.	Latitude			Longitude			Depth of Resistivity Layer(m)		Resistivity of Layers($\Omega \cdot m$)		
65	Nhanzilo	VES 065-01	24	50	56	34	4	44	0	5.7	35		
										1517	561	27	
66	Incadine	VES 066-01	24	54	54	34	2	14	0	4.3	126		
										557	410	80.8	
		VES 066-02	24	54	25	34	2	10	0	8.7	78		
										1193	452	86.8	
67	Ruco	VES 067-01	24	52	9	34	3	3	0	4	22	94	
										2614	825	229	23.8
68	Chizavane	VES 068-01	24	56	48	33	59	45	0	5.8	22		
										1439	829	77.8	
		VES 068-02	24	58	38	33	58	33	0	3.4	13.6	78.8	
										605	1088	127	21.4
69	Cavelene	VES 069-01	24	59	48	33	48	33	0	3.3	39		
										2127	887	170	
		VES 069-02	24	58	11	33	49	45	0	2.9	44		
										999	563	77	
70	Pumulene	VES 070-01	24	55	38	33	49	27	0	3.6	6.6	48	
										396	2906	577	60
		VES 070-02	24	56	48	33	49	53	0	2.3	33		
										511	1041	57.6	
71	Venhene	VES 071-01	25	1	45	33	47	45	0	8.2	42		
										882	378	30	
72	Cumine	VES 072-01	25	2	27	33	49	9	0	3.1	31		
										1018	953	75	
73	Nhaniavila	VES 073-01	24	59	34	33	56	15	0	1.8	15	48	
										440	1266	677	33
74	Nhapequene	VES 074-01	24	57	45	33	53	3	0	7.6	32		
										1880	782	146	
		VES 074-02	24	57	16	33	52	40	0	6.2	53.7		
										1837	928	26.4	
75	Nhancutse	VES 075-01	24	51	50	33	43	13	0	2.6	11.7	89.1	
										687	1589	215	23.4
		VES 075-02	24	53	38	33	43	15	0	6.2	29		
										4880	988	30	
76	Poiombo	VES 076-01	24	51	54	33	43	16	0	4.7	17	44	
										488	730	399	81.6
		VES 076-02	24	55	28	33	44	12	0	1.7	5.3	41	
										784	3258	397	40
77	A.Tivane	VES 077-01	24	56	55	33	45	28	0	5.7	26.1		
										513	1621	150	
		VES 077-02	24	56	6	33	45	14	0	2.6	27	106	
										2416	894	193	7.4
78	Baluine	VES 078-01	24	56	38	33	46	58	0	7.8	48		
										1809	591	134	
		VES 078-02	24	56	36	33	47	15	0	9.9	56		
										1785	737	47	
79	Bungane	VES 079-01	24	49	17	33	41	56	0	4.9	7.1	22	
										460	976	338	40
		VES 079-02	24	49	56	33	42	17	0	11	36		
										1445	505	20	

Results of VES in Gaza, Mozambique 1995 to 1996(6)

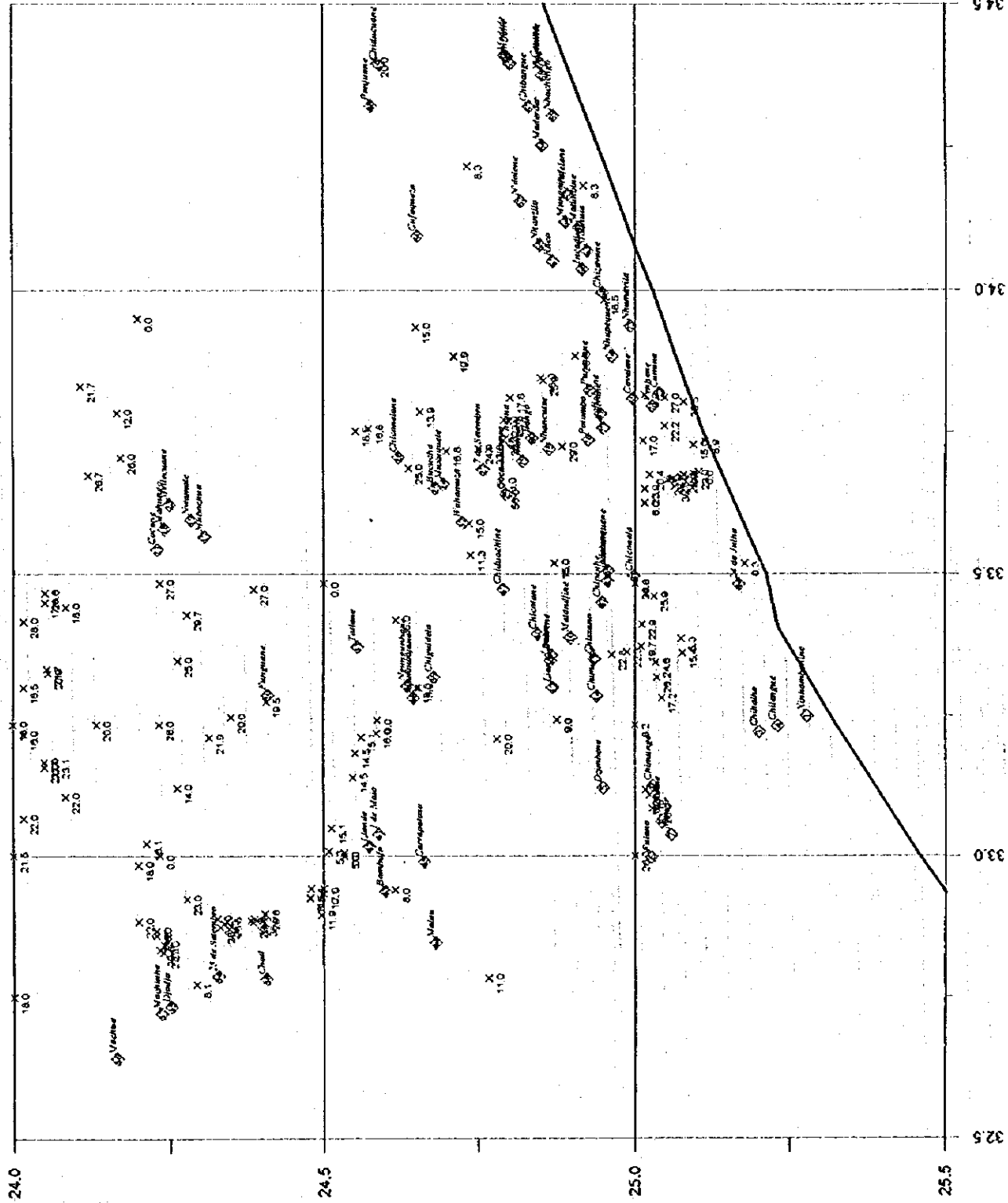
SNo.	Name of Village	VES No.	Latitude			Longitude			Depth of Resistivity Layer(m)									
80	Bango	VES 080-01	24	50	11	33	44	23	0		8.4		50					
											1221		529		122			
		VES 080-02	24	50	10	33	44	51	0		7		32.5					
81	Chiconela	VES 081-01	24	59	53	33	29	46	0		2.2		56					
											960		143		21			
		VES 081-02	25	0	50	33	29	28	0		8.2		41					
82	Chipenhe	VES 082-01	24	56	45	33	27	0	0		3.9		22					
											946		1877		48			
		VES 082-02	24	56	18	33	26	10	0		1.4		3.5		27			
83	Ngulelene	VES 083-01	24	57	16	33	29	16	0		1.5		3.5		26			
											2844		336		1885		31	
		VES 083-02	24	57	1	33	28	2	0		0.8		1.8		33			
84	24 de Julho	VES 084-01	25	10	10	33	28	55	0									
											558		60					
85	Nuvunguene	VES 085-01	24	57	20	33	30	21	0		1.6		6.7		24			
											782		588		1056		31	
		VES 085-02	24	56	39	33	30	50	0		4		19		131			
										989		3062		11		1005		

Depth to Groundwater Surface (meters)

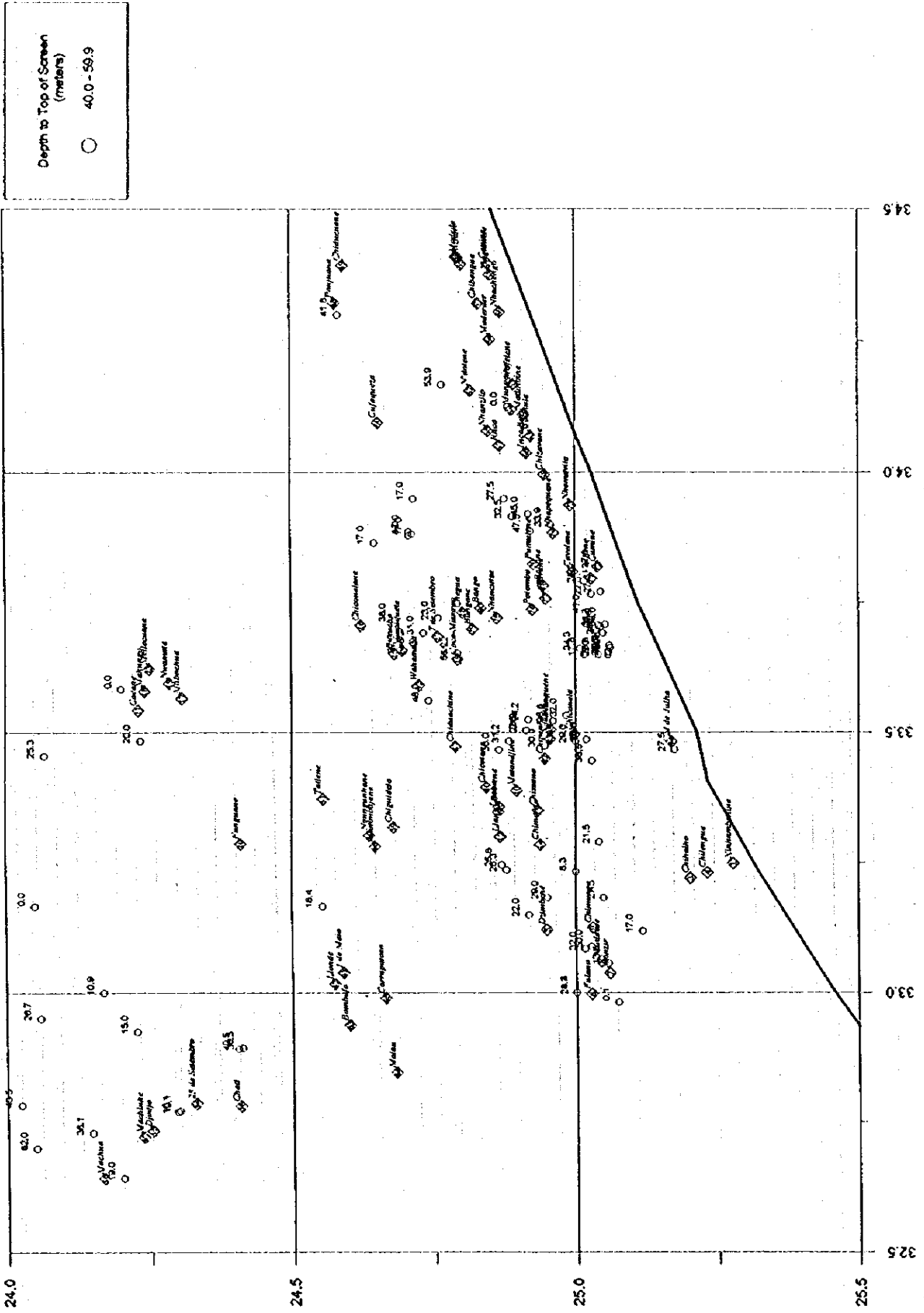


Depth to Groundwater Surface (meters)

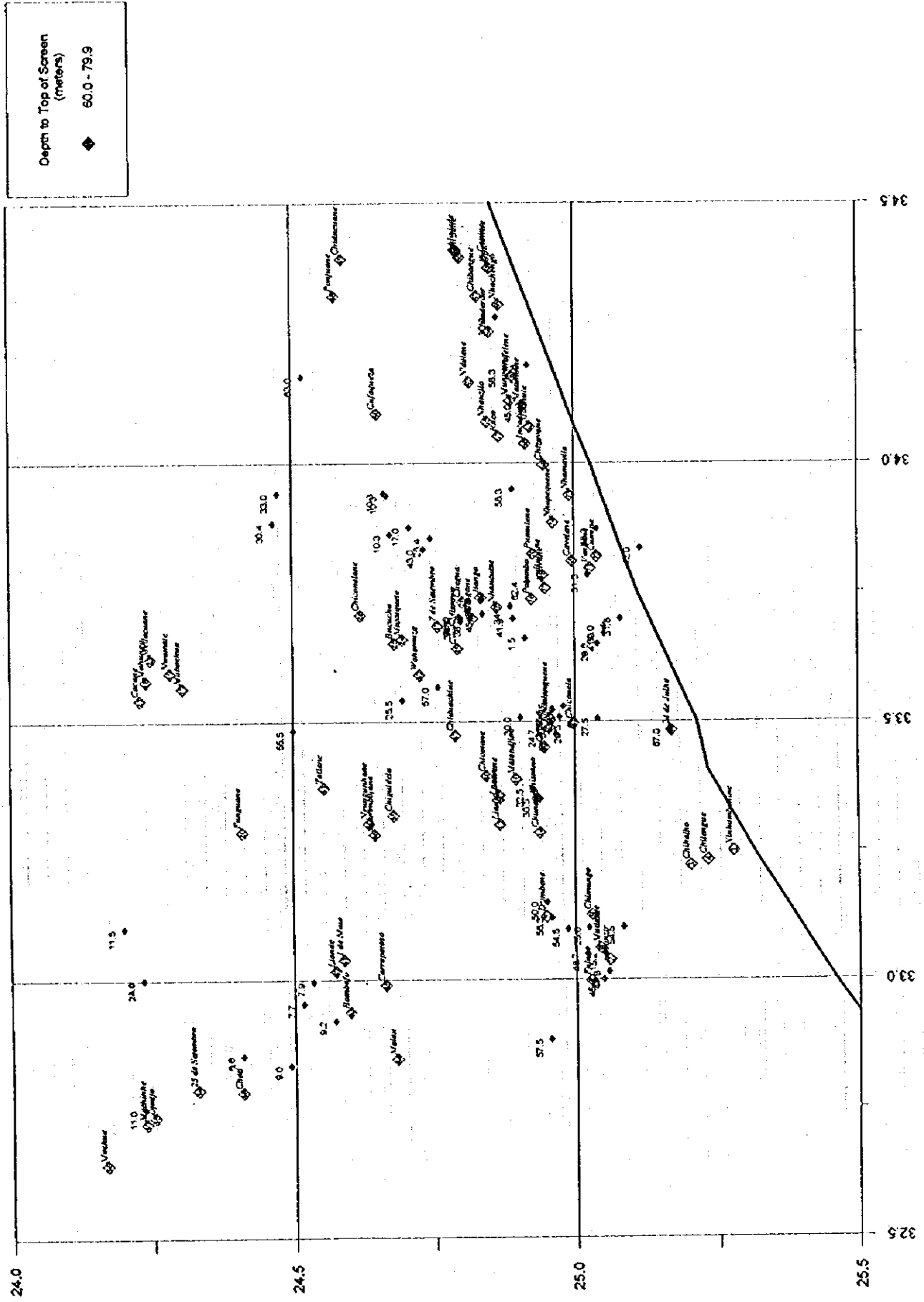
Depth to Top of Screen (meters)	X	20.0 - 39.9
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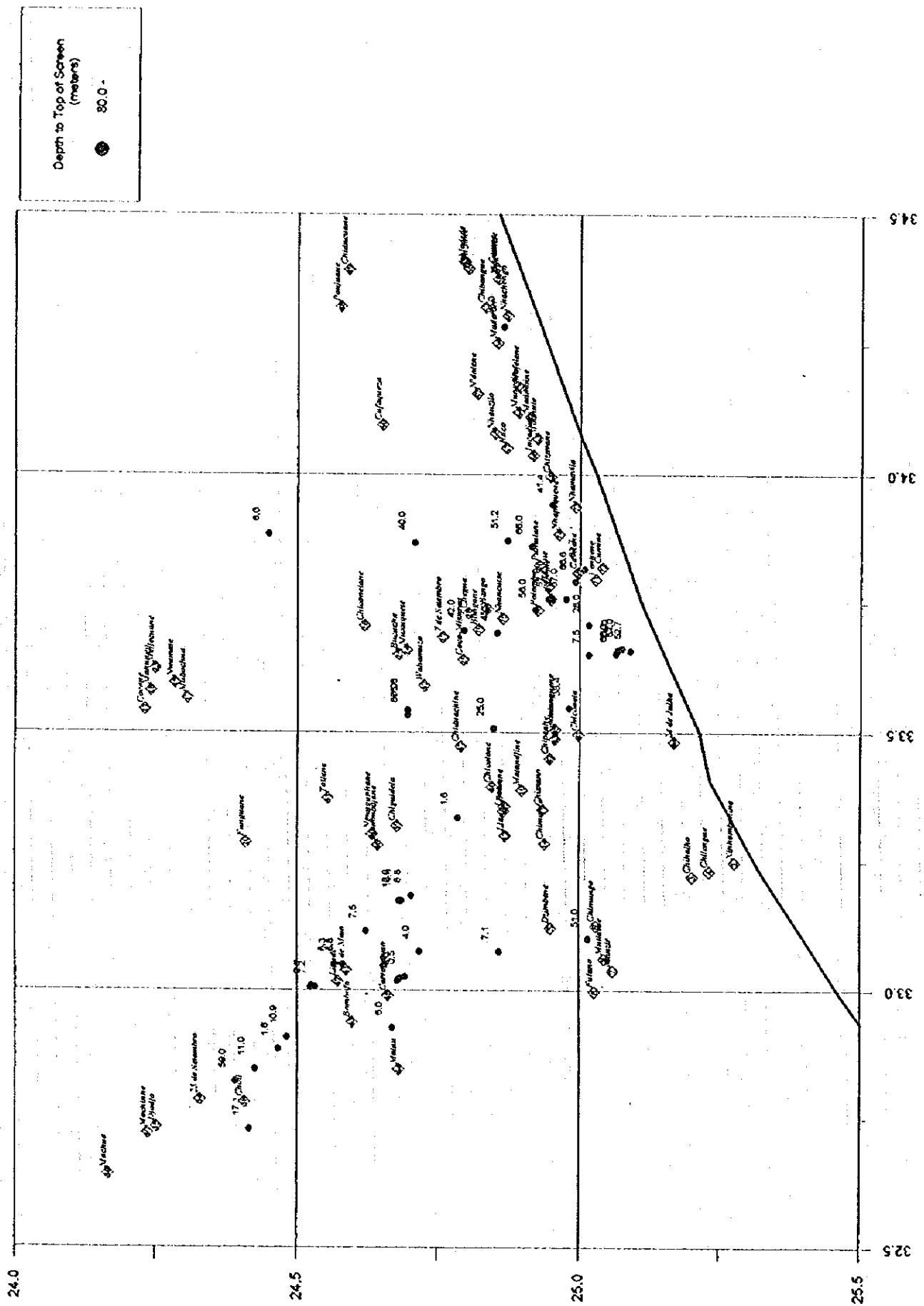
Depth to Groundwater Surface (meters)



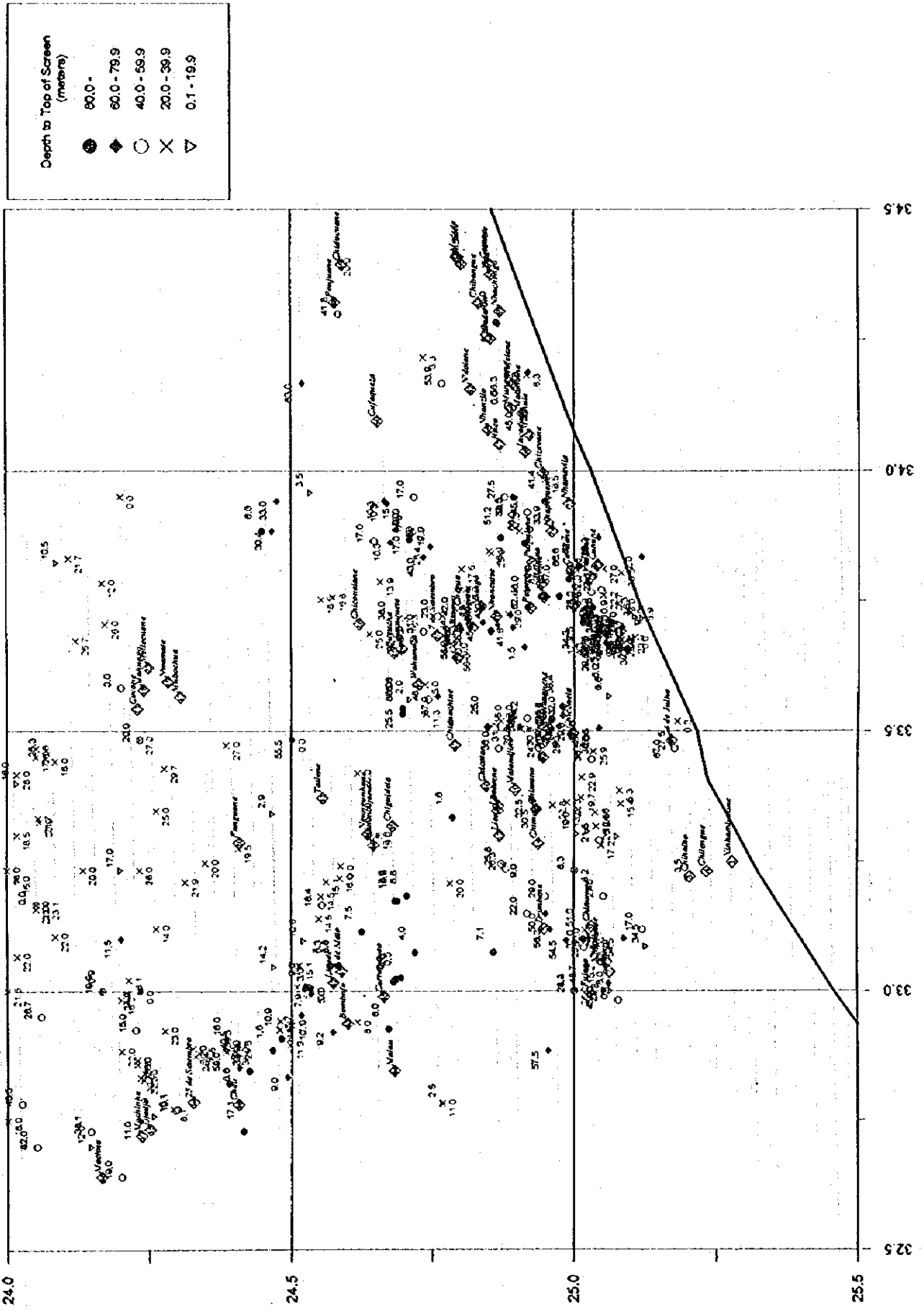
Depth to Groundwater Surface (meters)



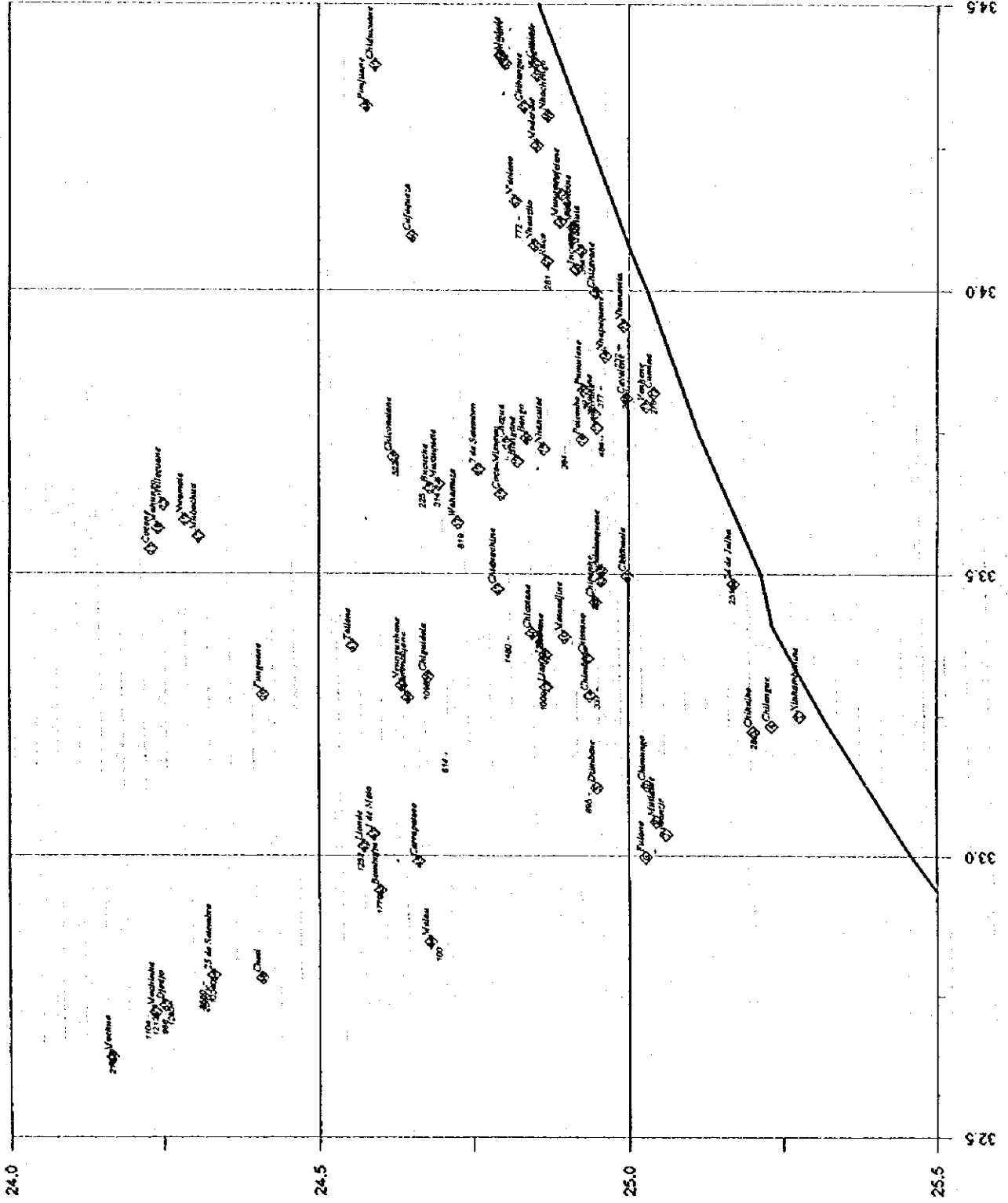
Depth to Groundwater Surface (meters)

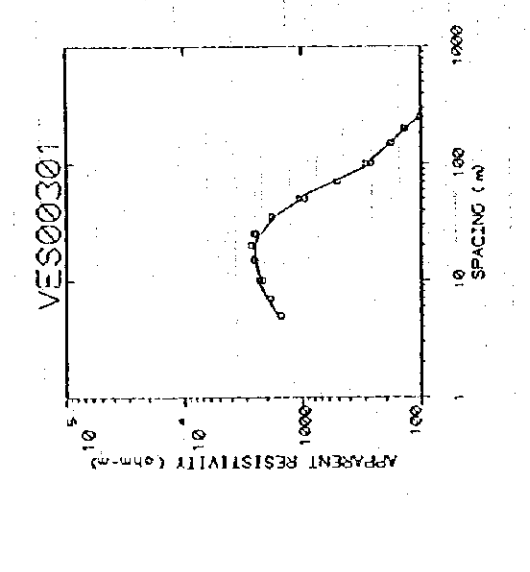
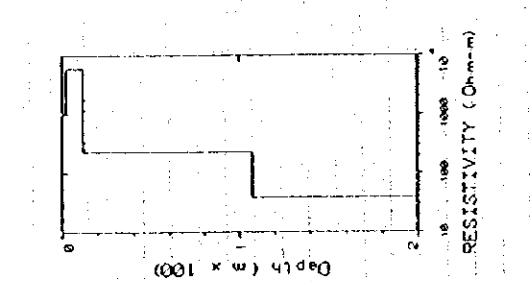
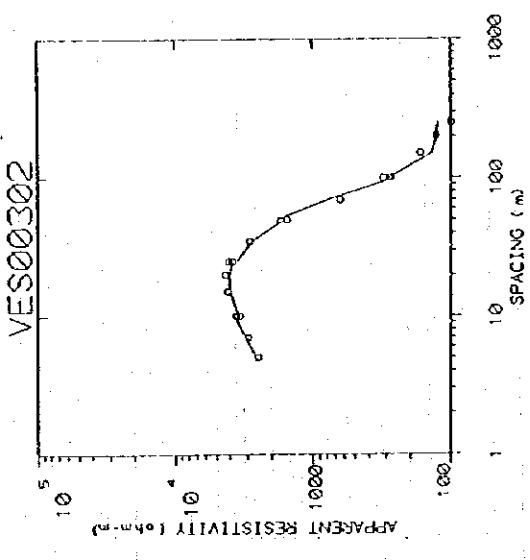
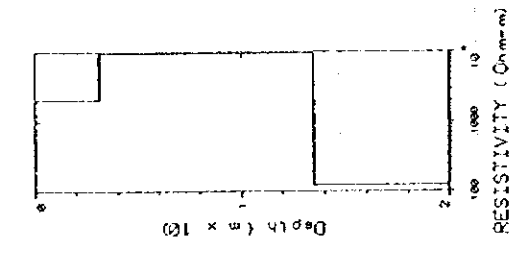
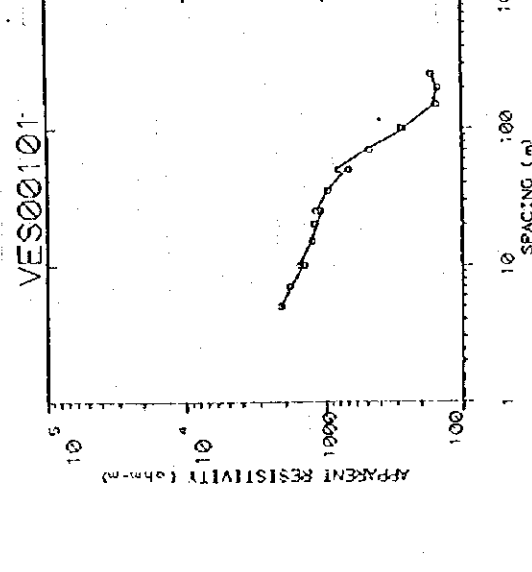
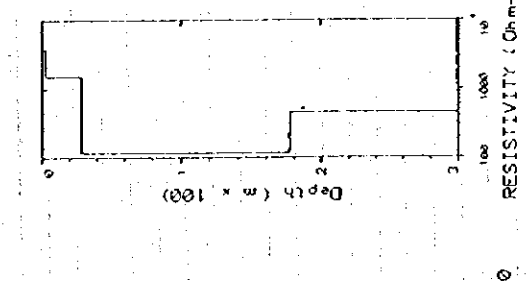
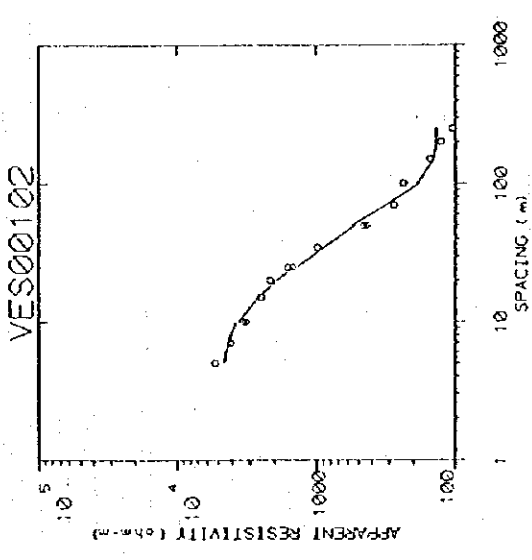
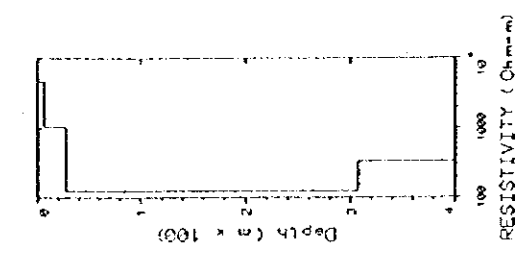


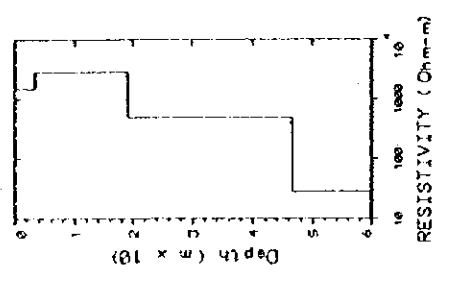
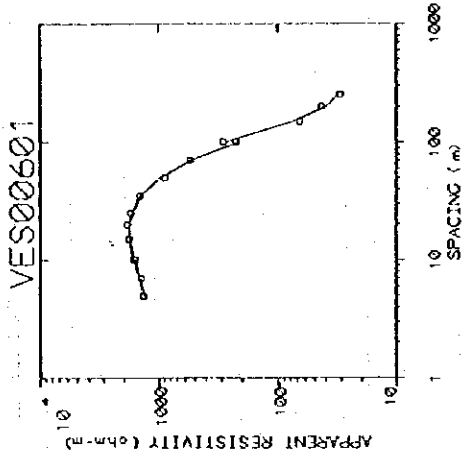
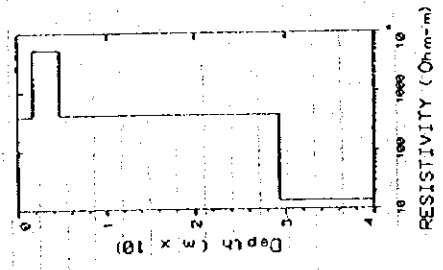
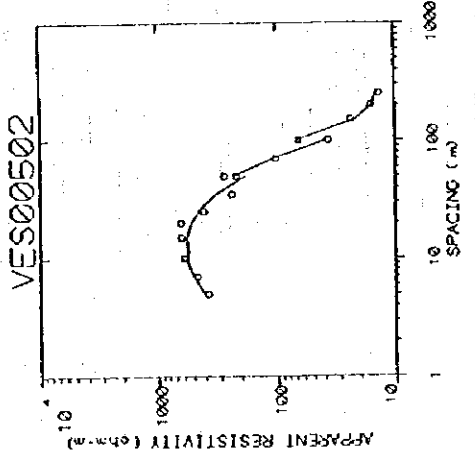
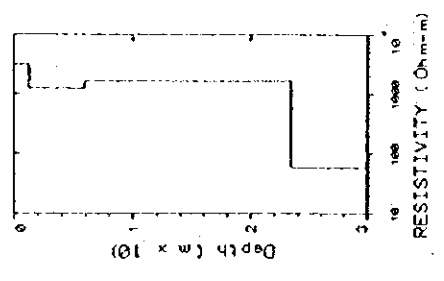
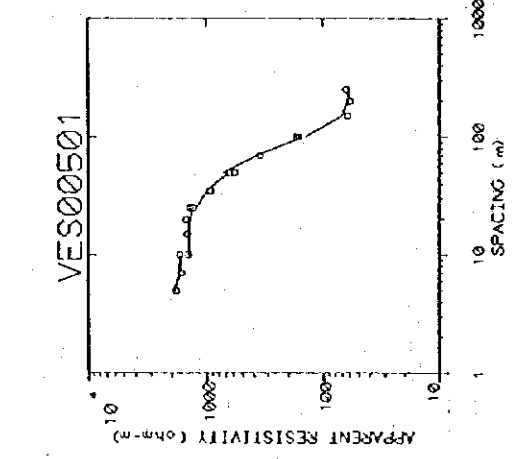
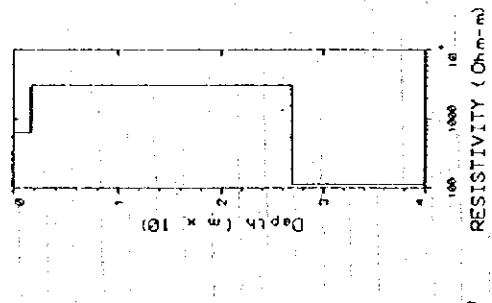
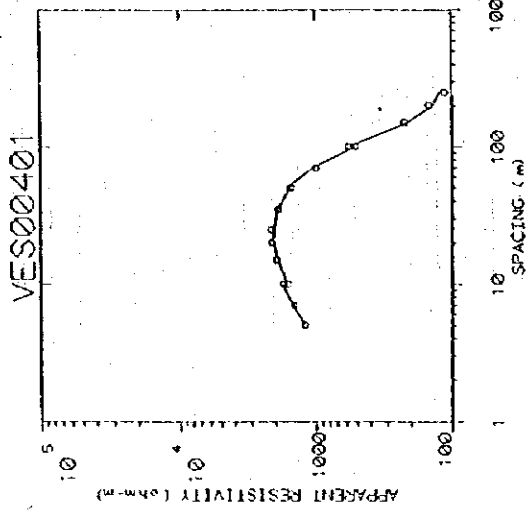
Depth to Groundwater Surface (meters)

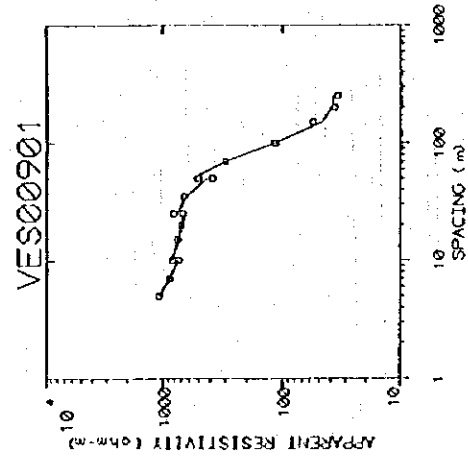
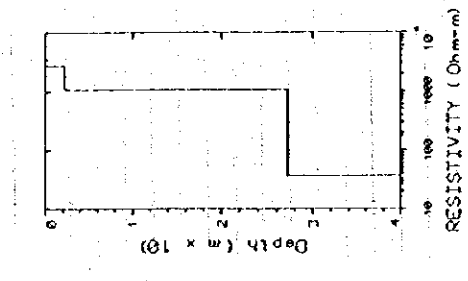
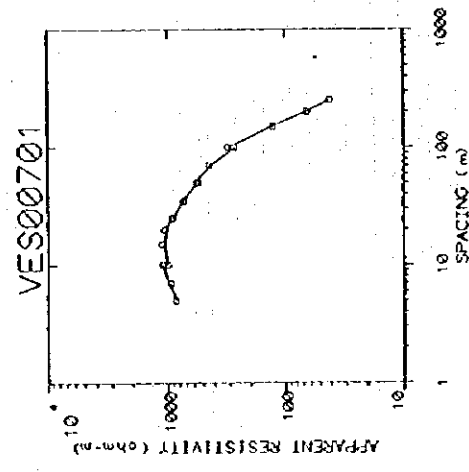
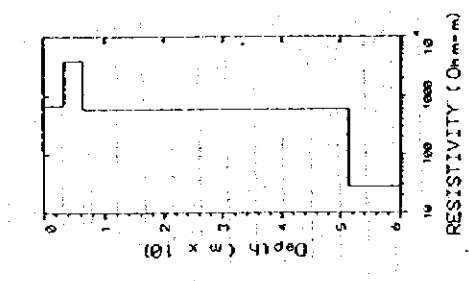
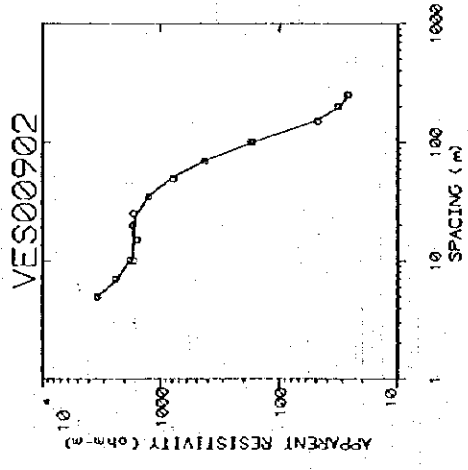
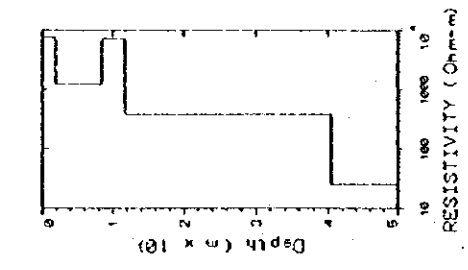
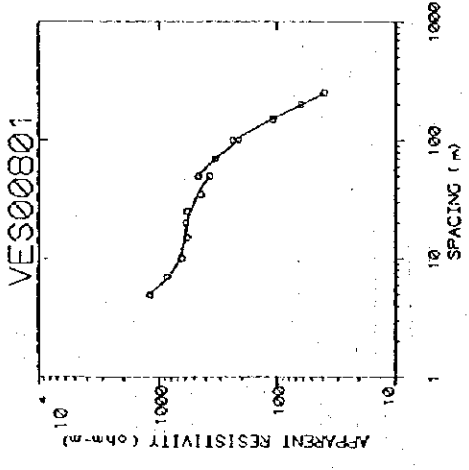
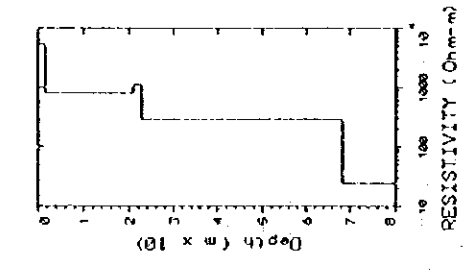


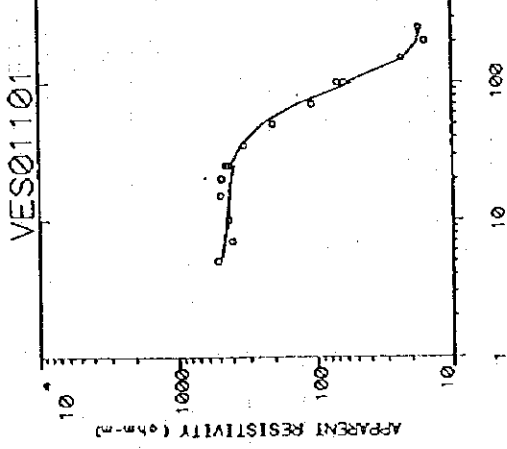
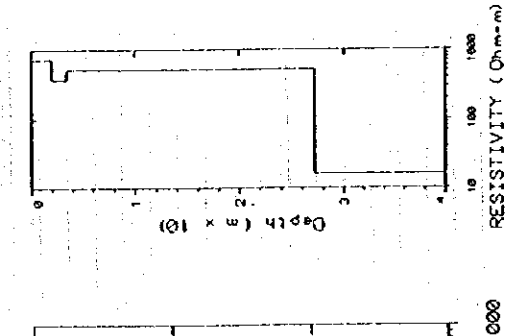
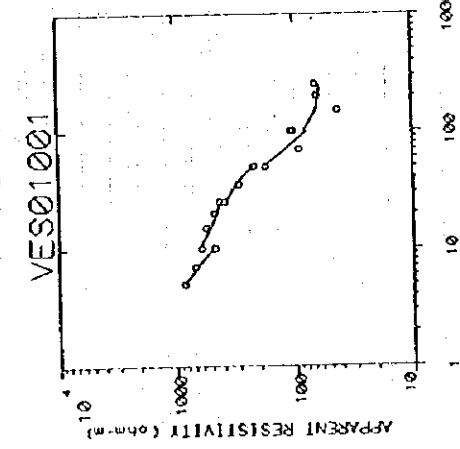
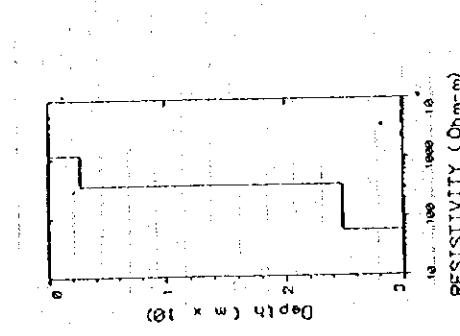
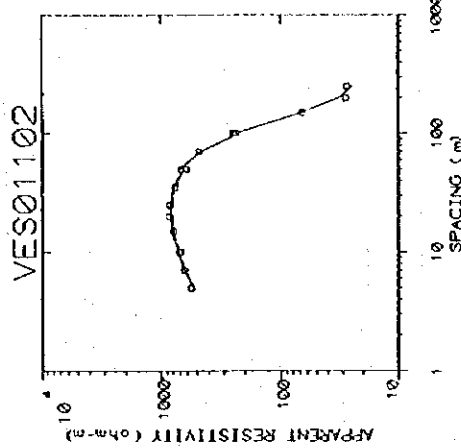
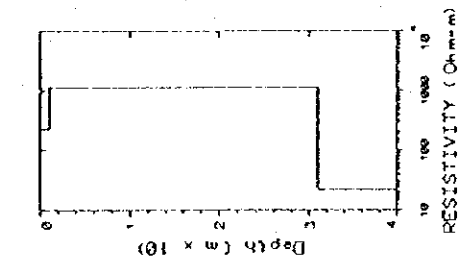
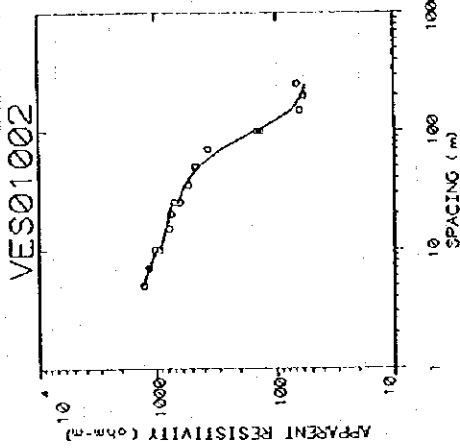
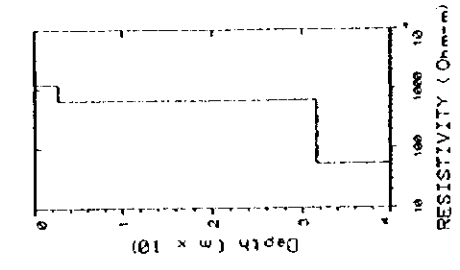
Electric Conductivity (micro-S/cm)

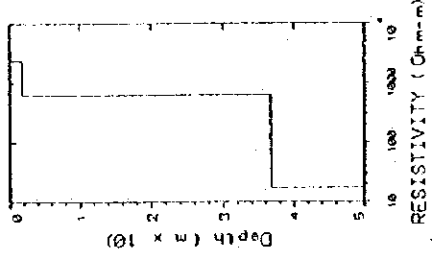
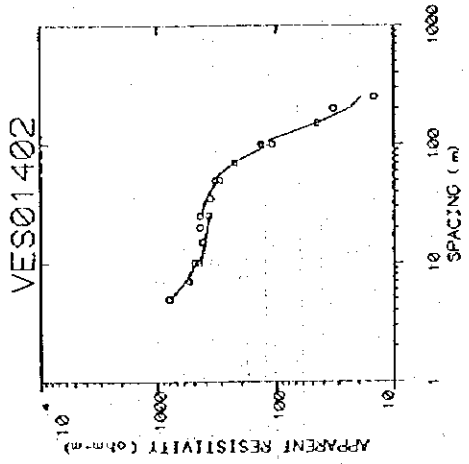
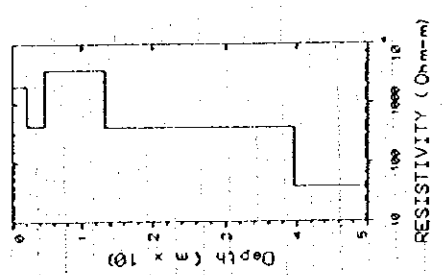
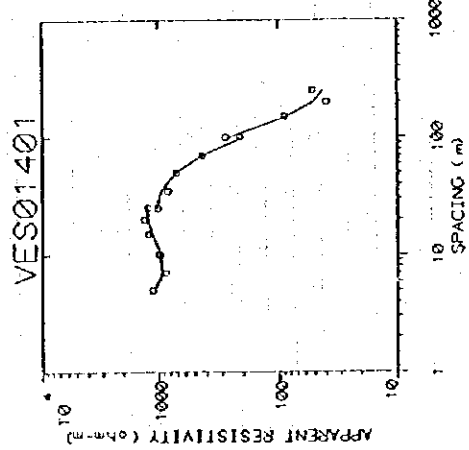
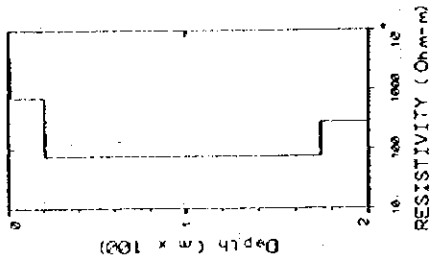
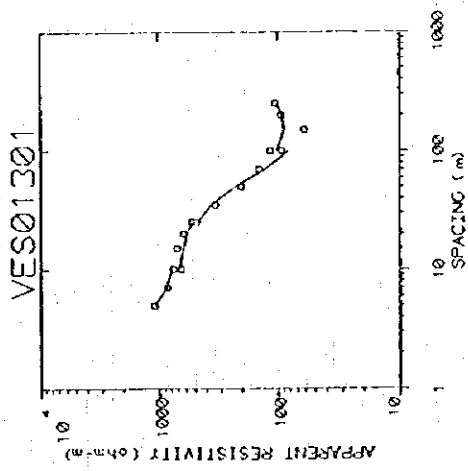
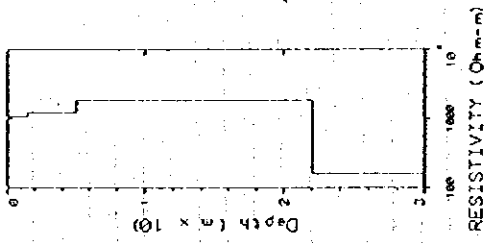
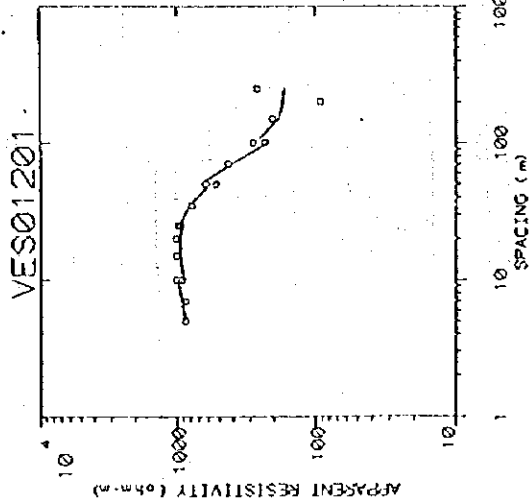


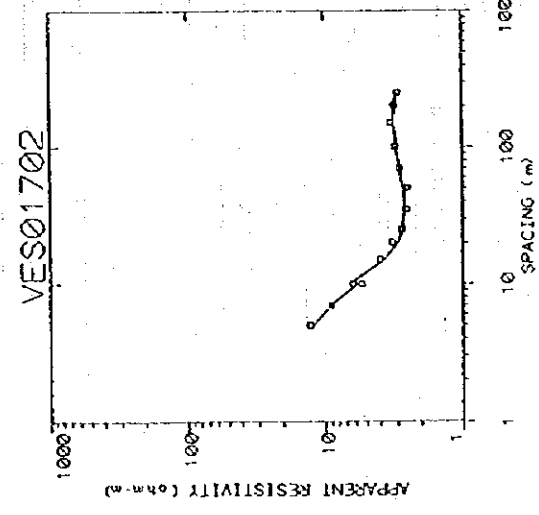
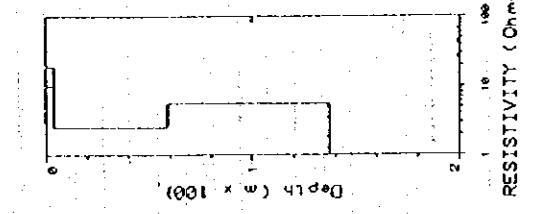
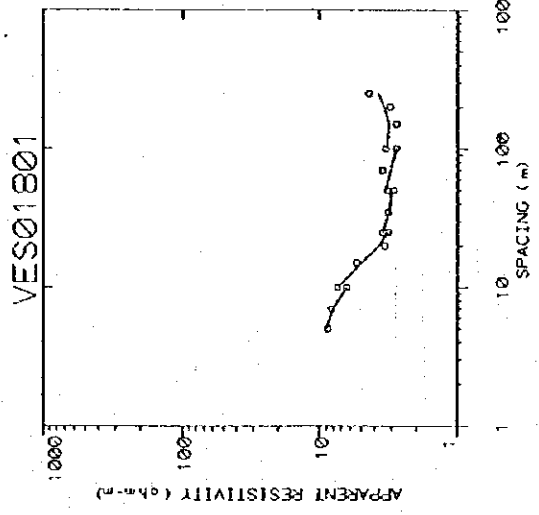
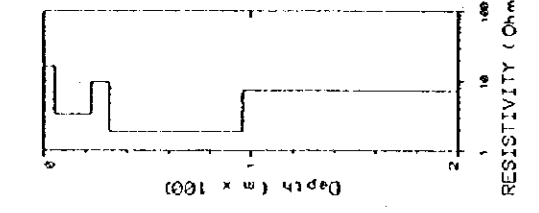
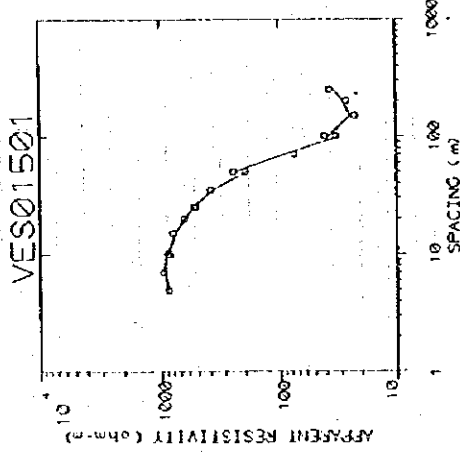
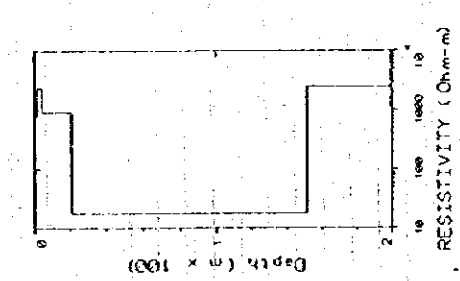
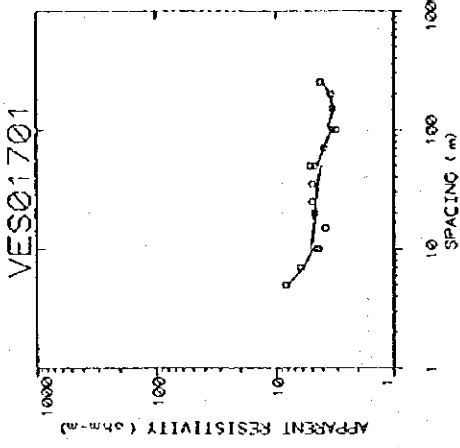
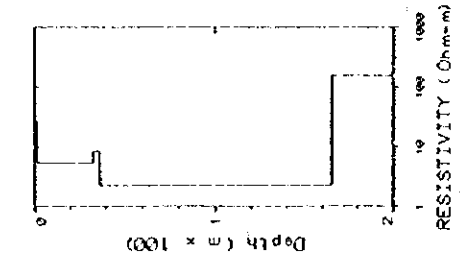


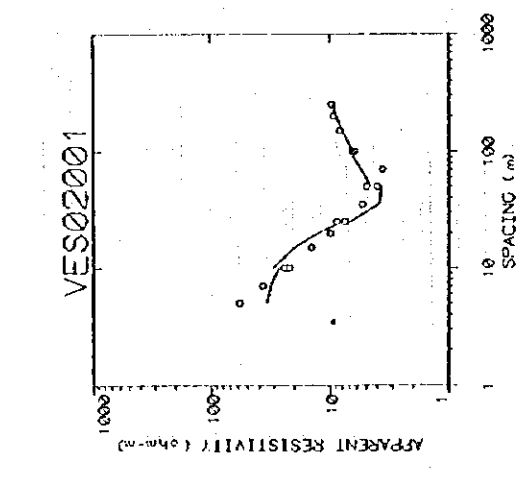
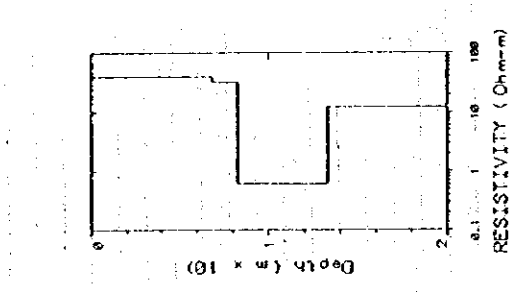
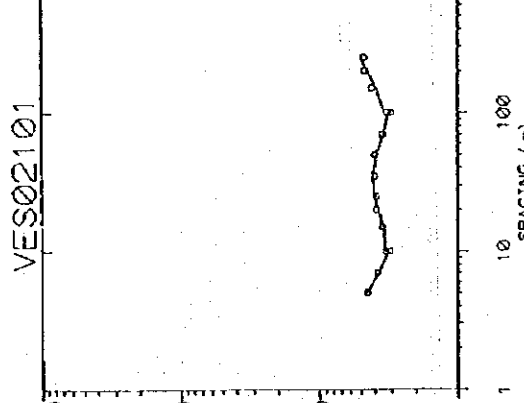
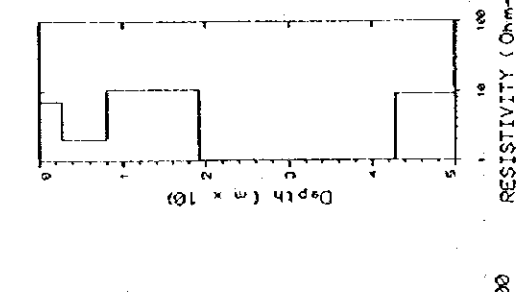
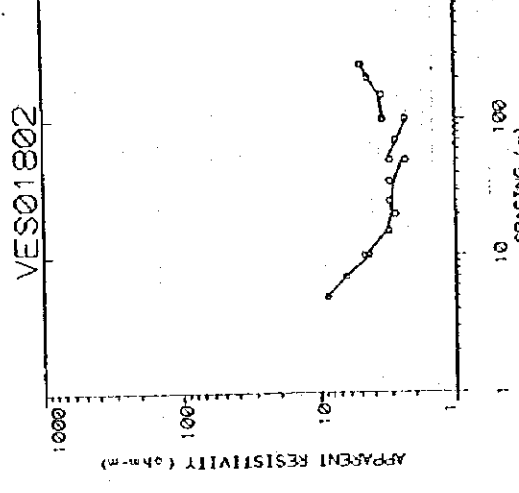
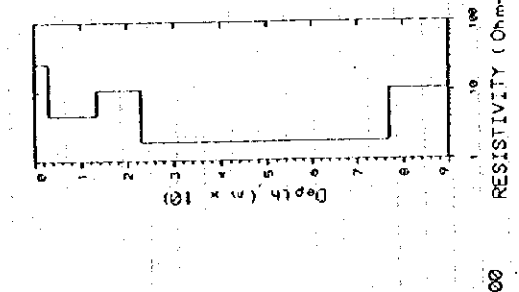
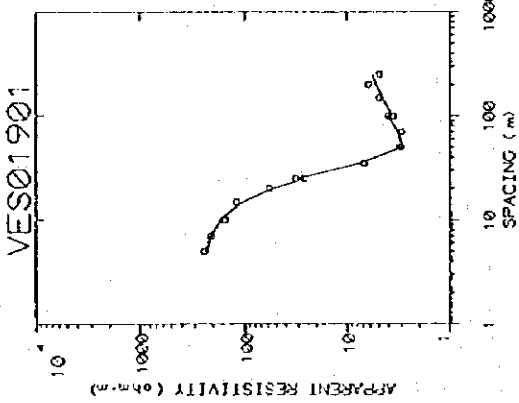
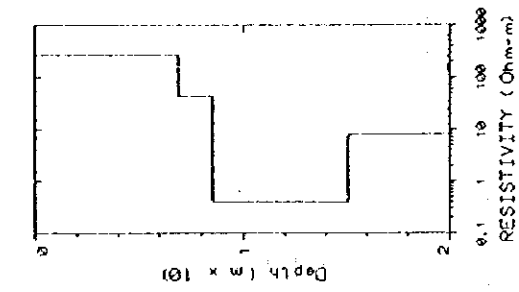


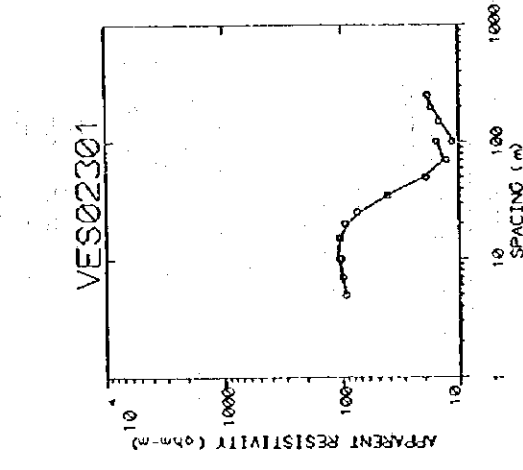
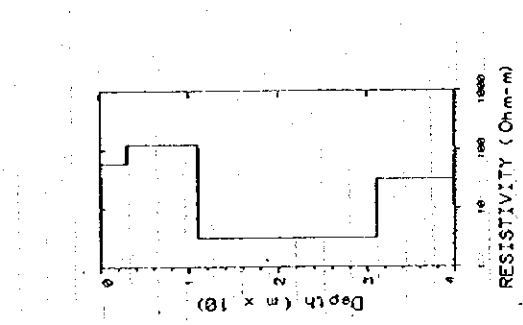
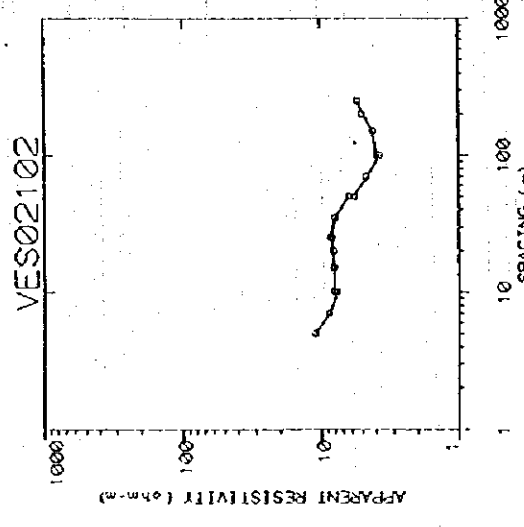
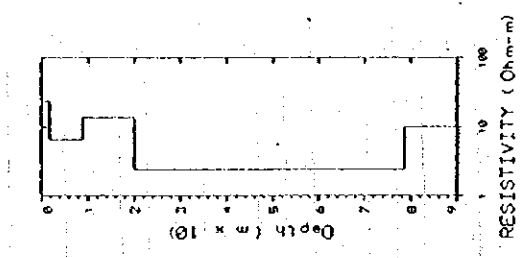
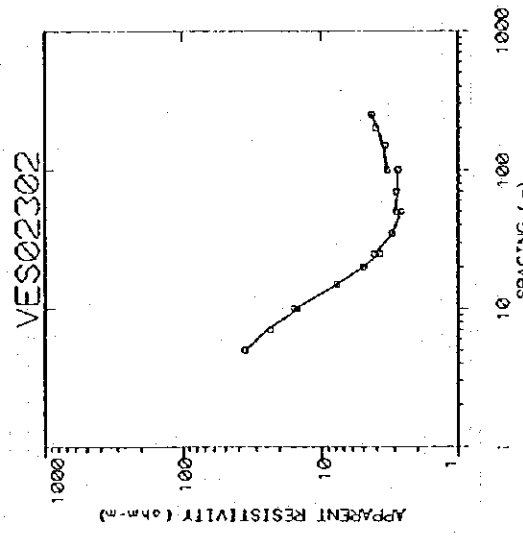
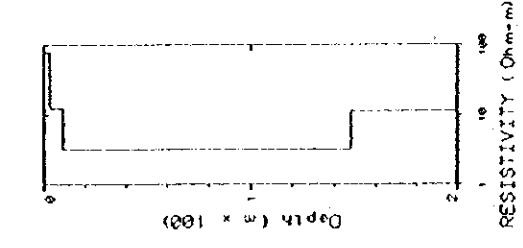
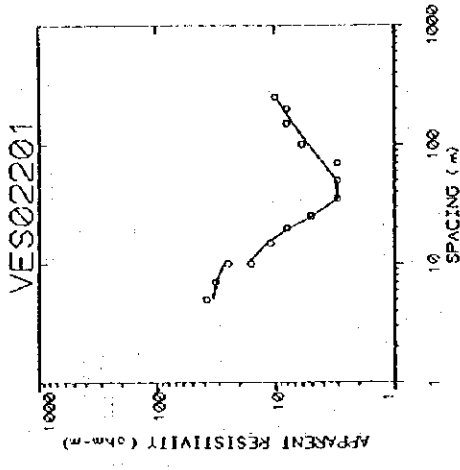
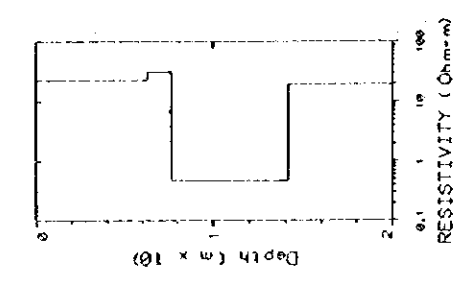


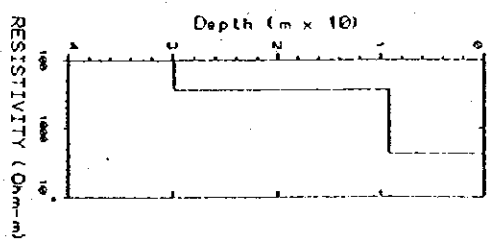
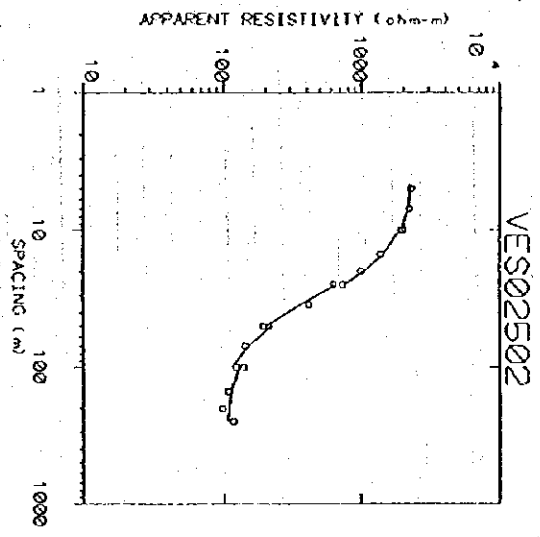
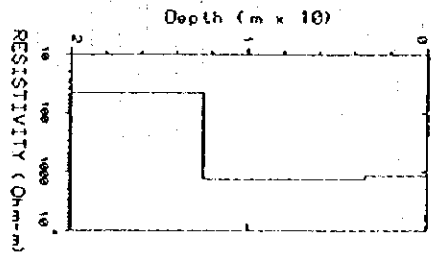
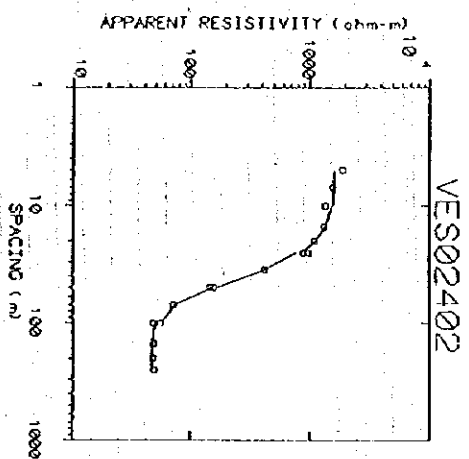
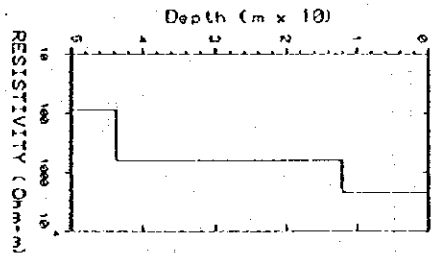
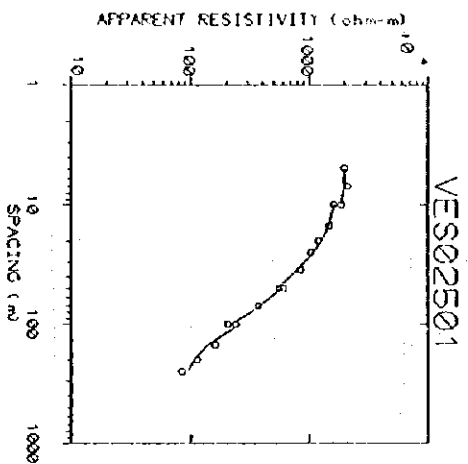
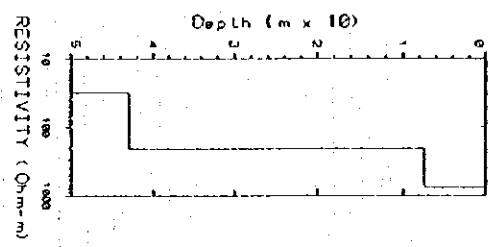
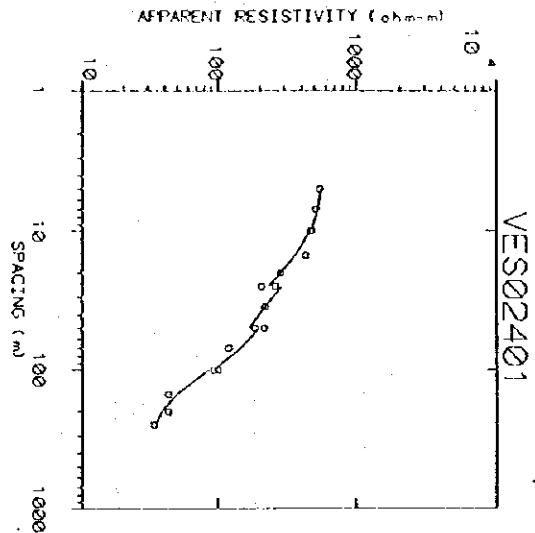




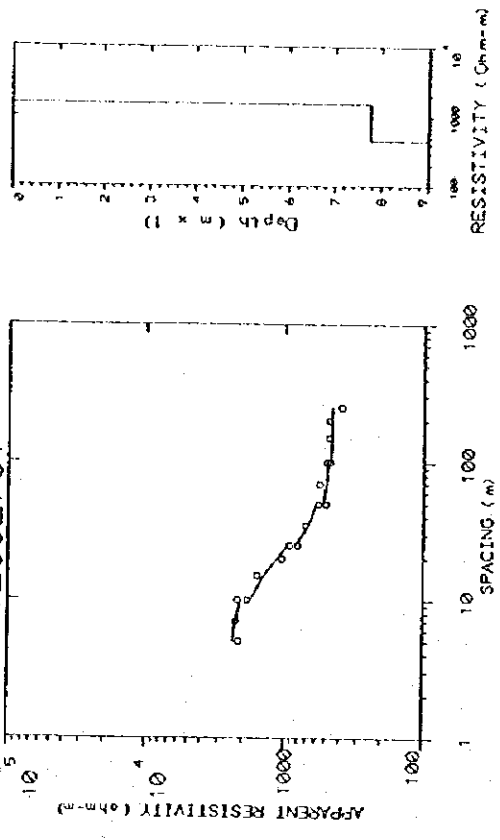




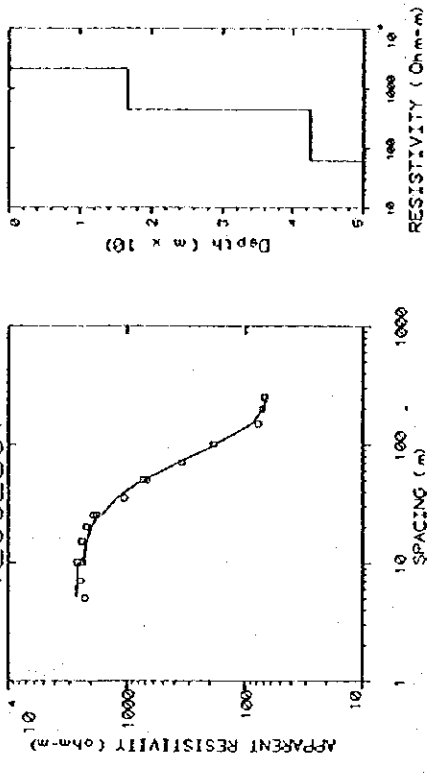




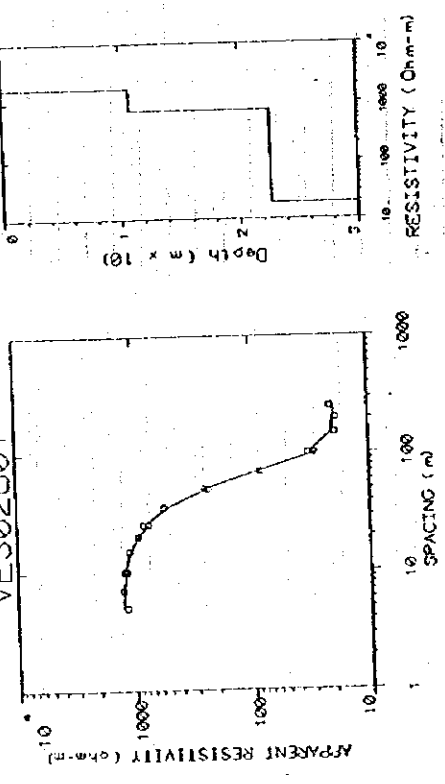
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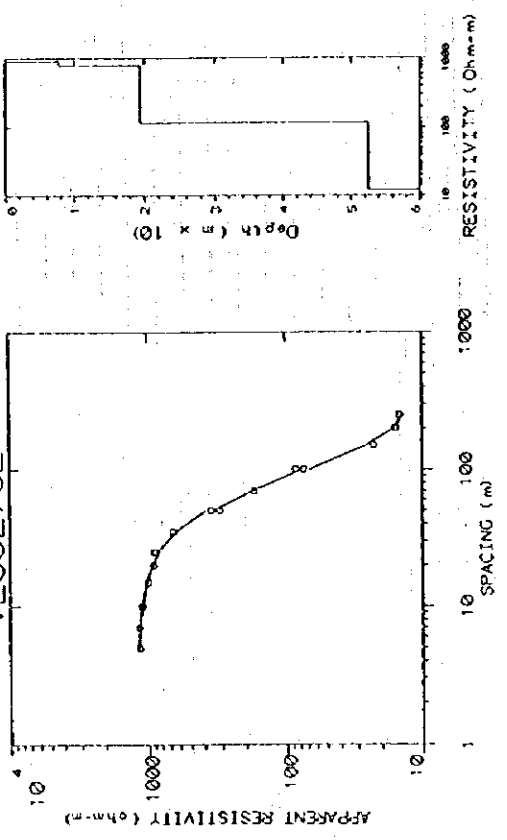
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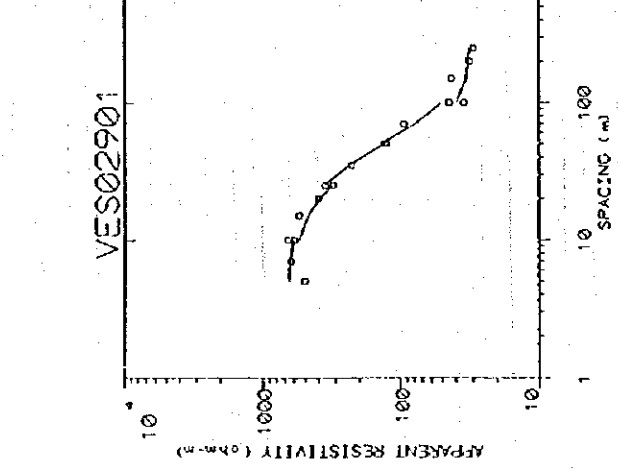
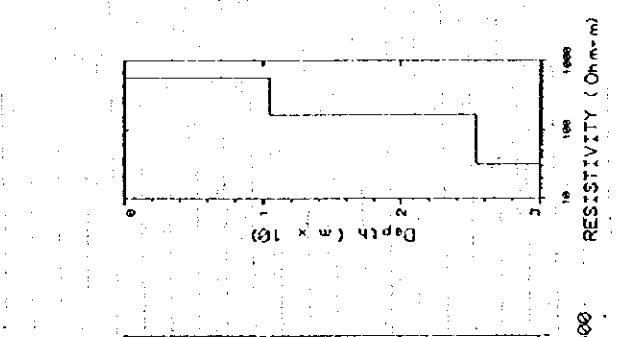
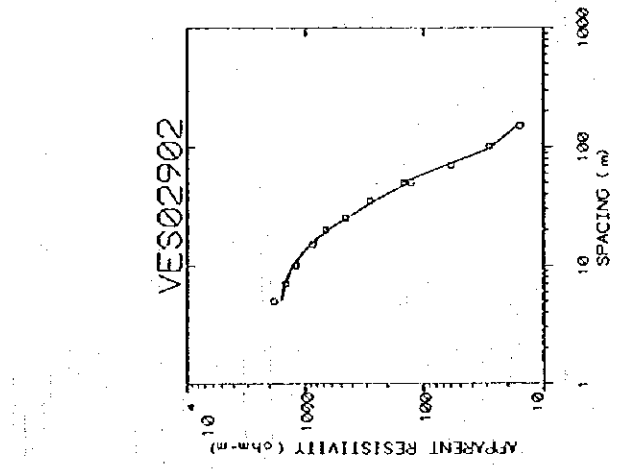
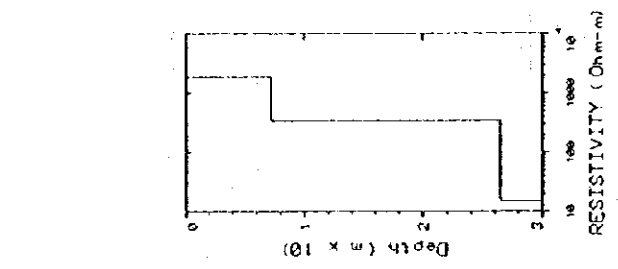
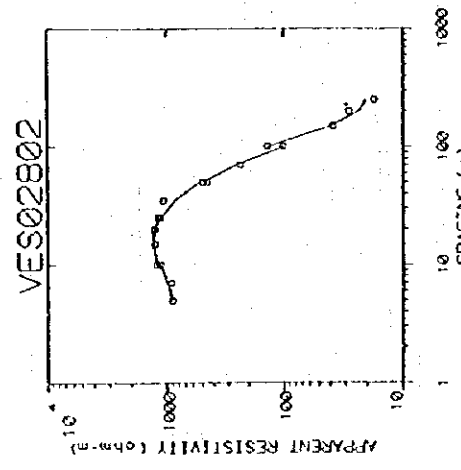
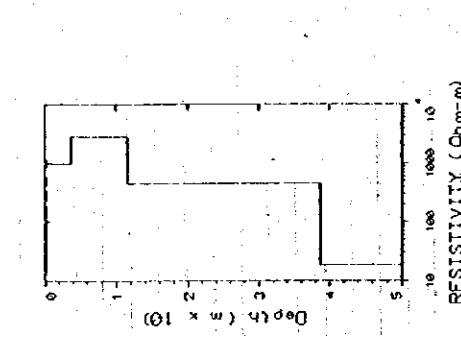
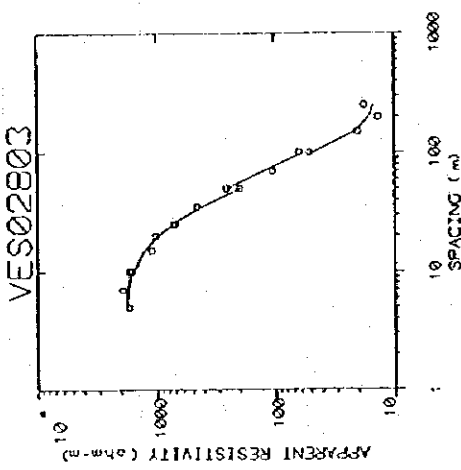
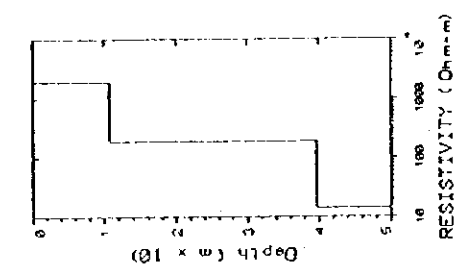


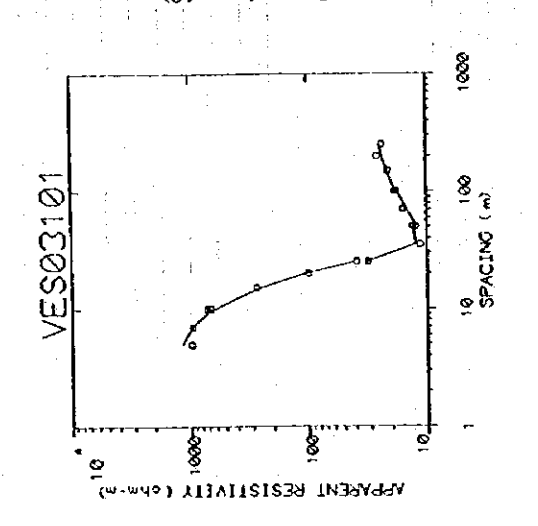
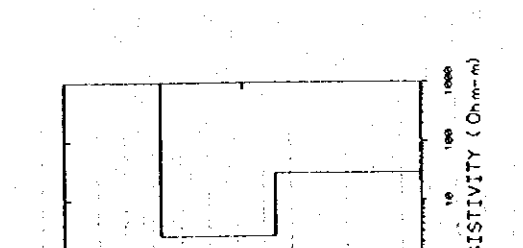
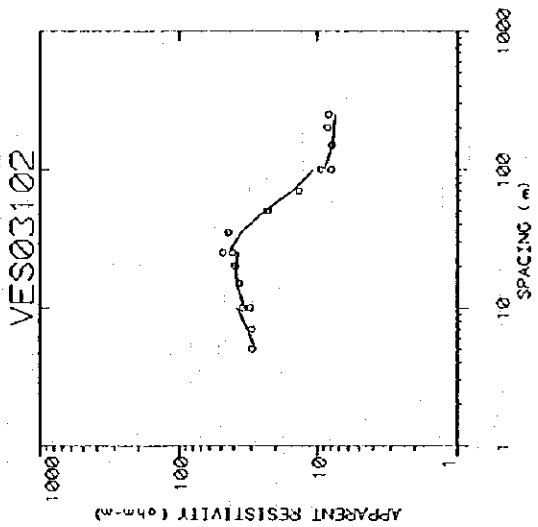
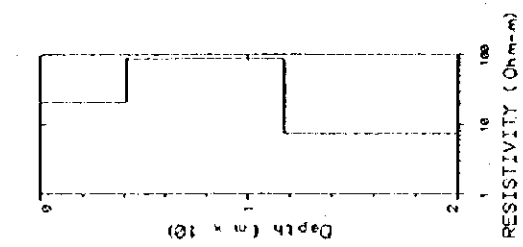
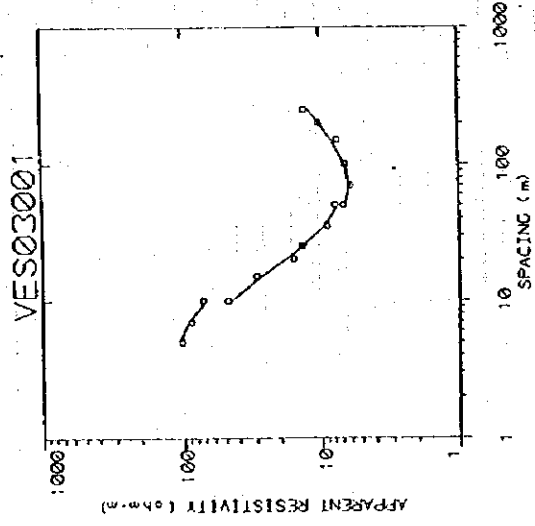
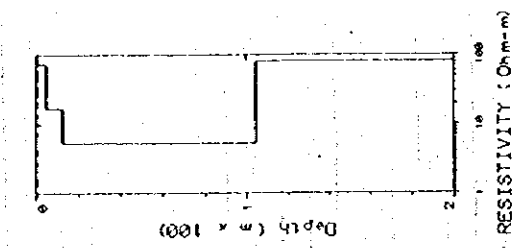
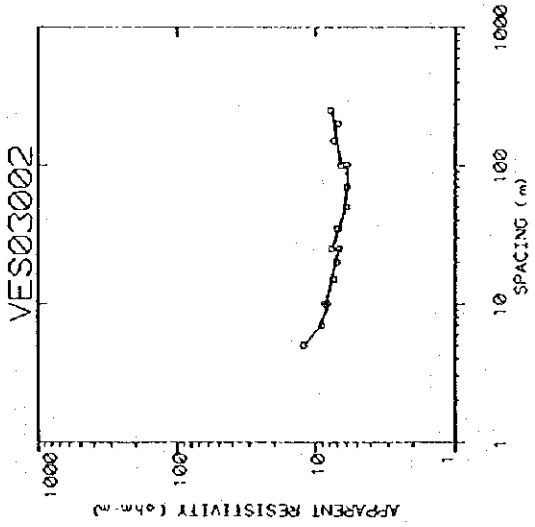
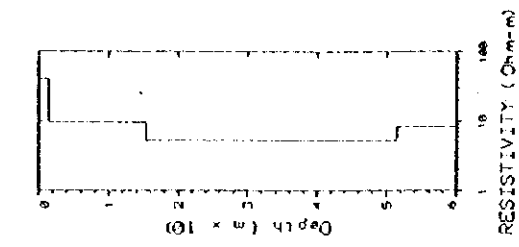
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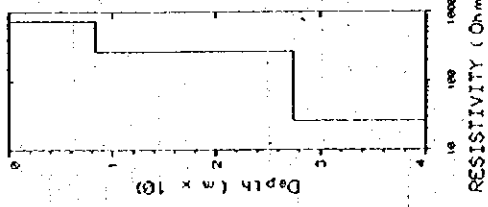
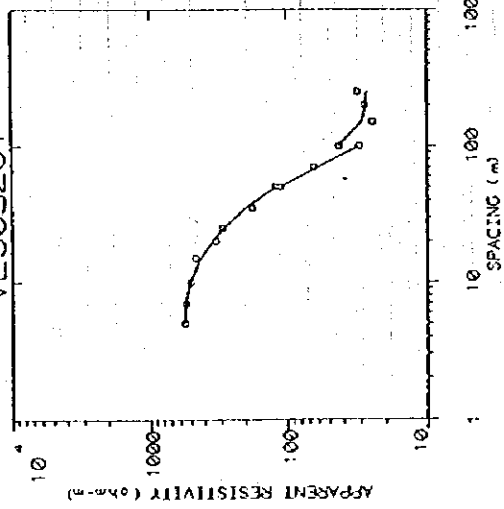
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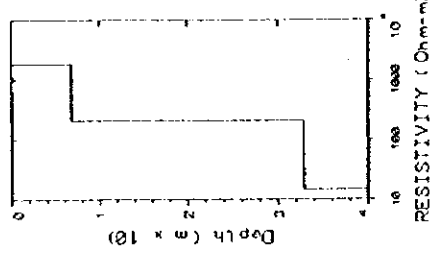
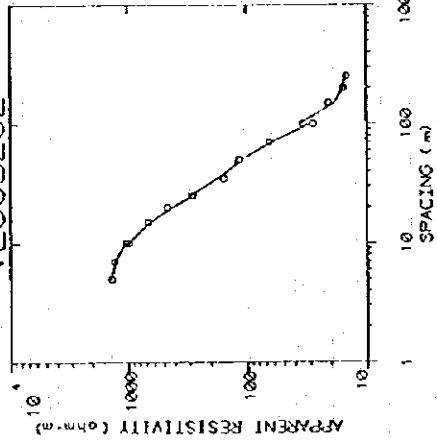




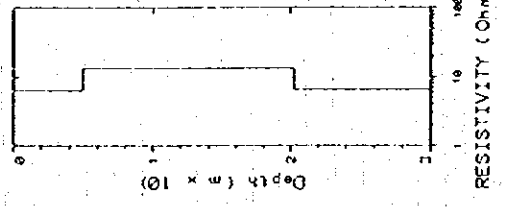
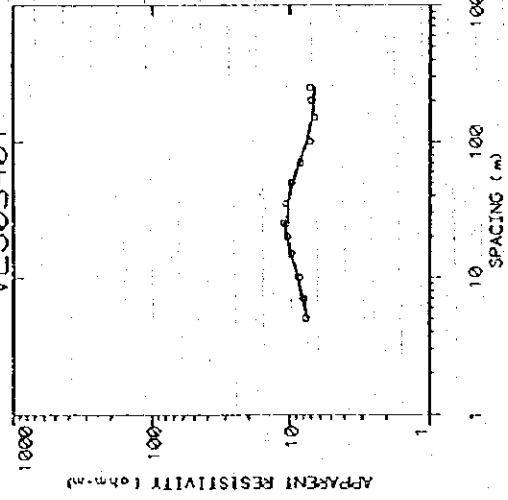
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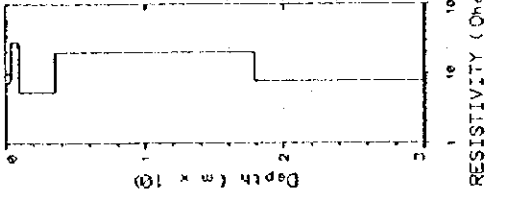
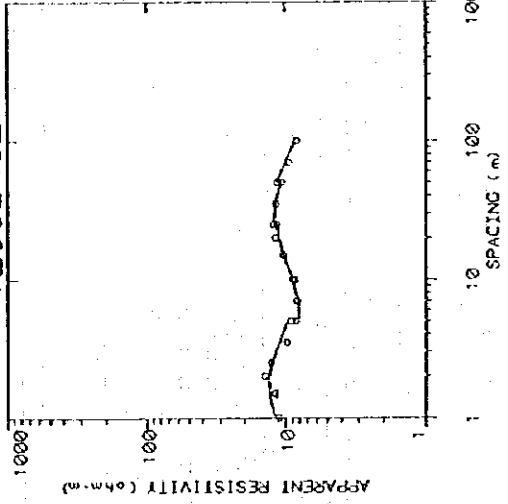
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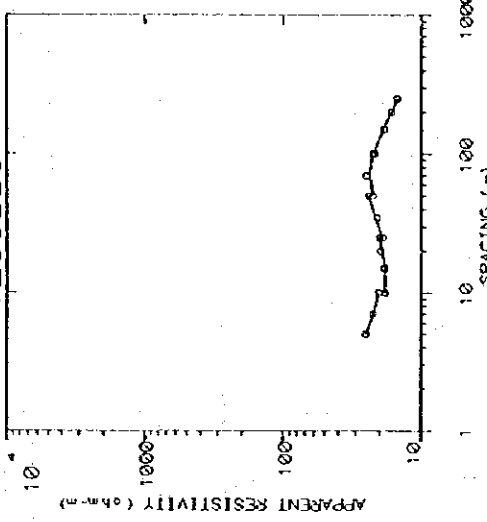
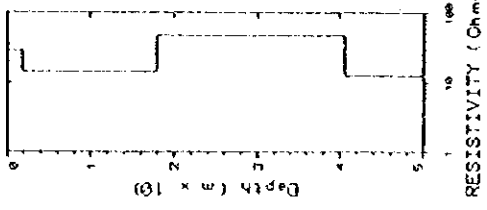
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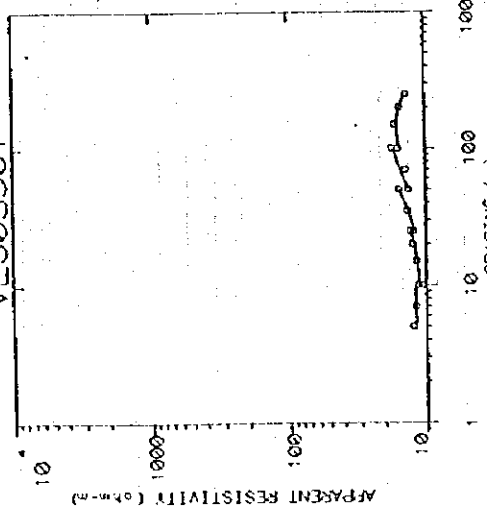
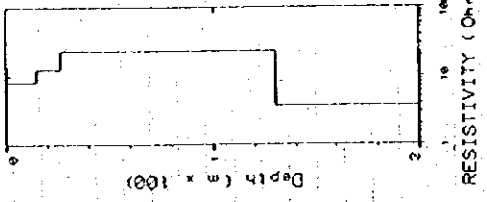
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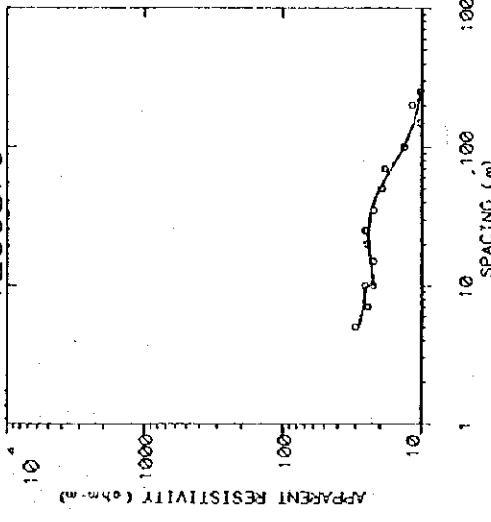
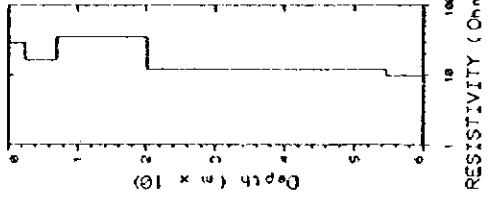
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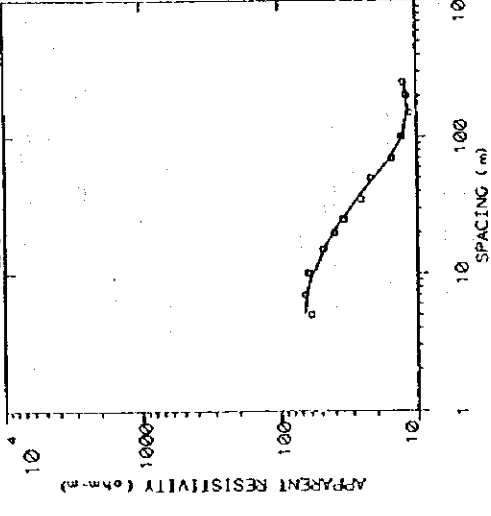
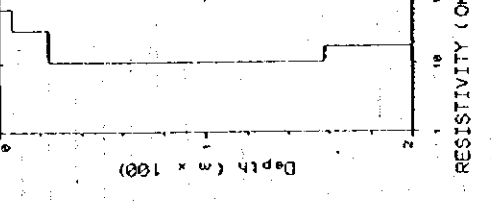
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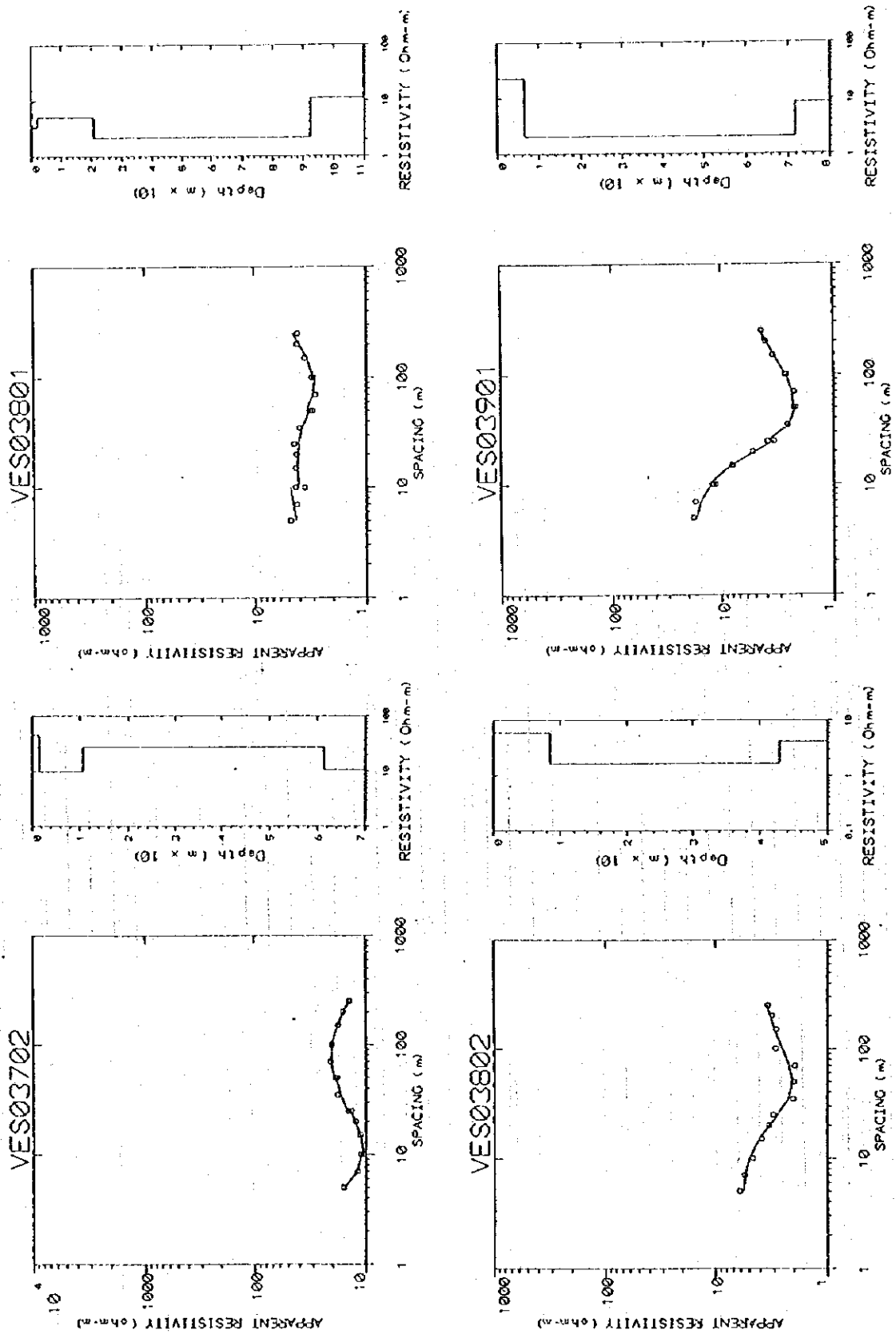


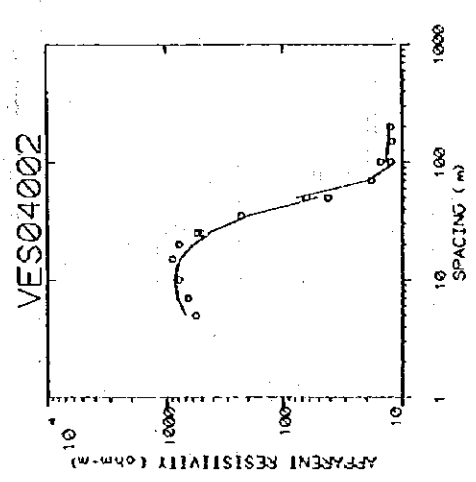
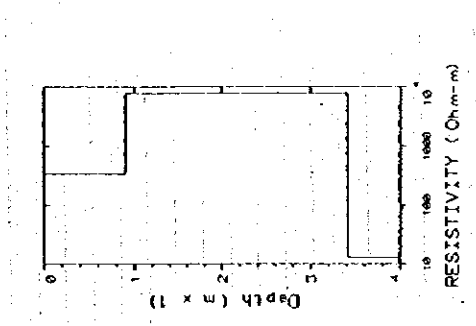
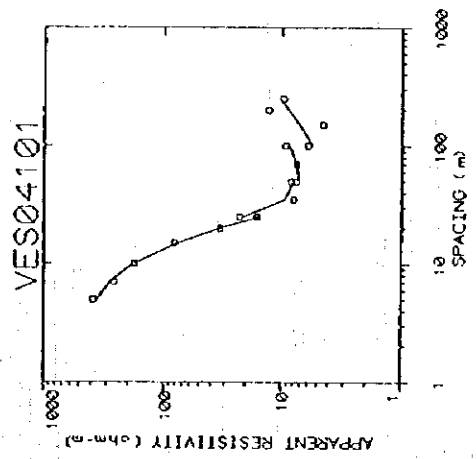
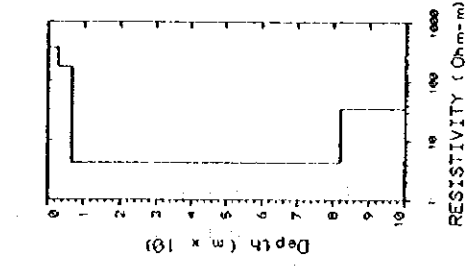
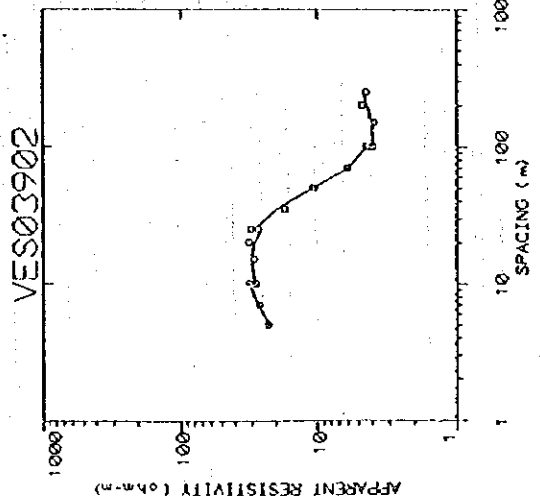
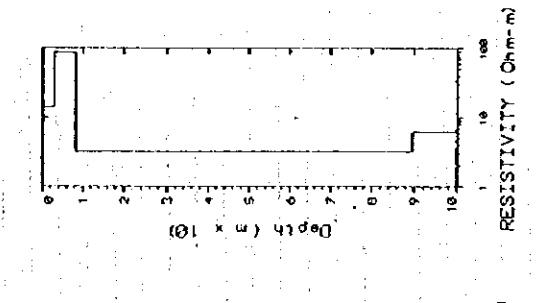
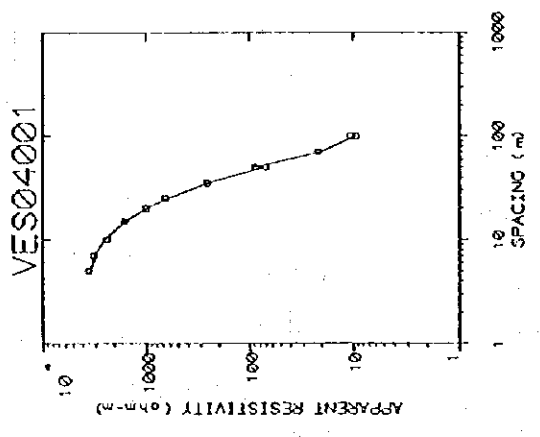
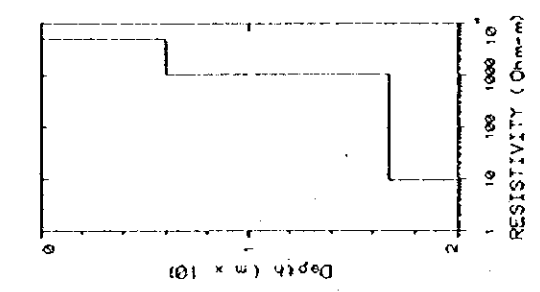
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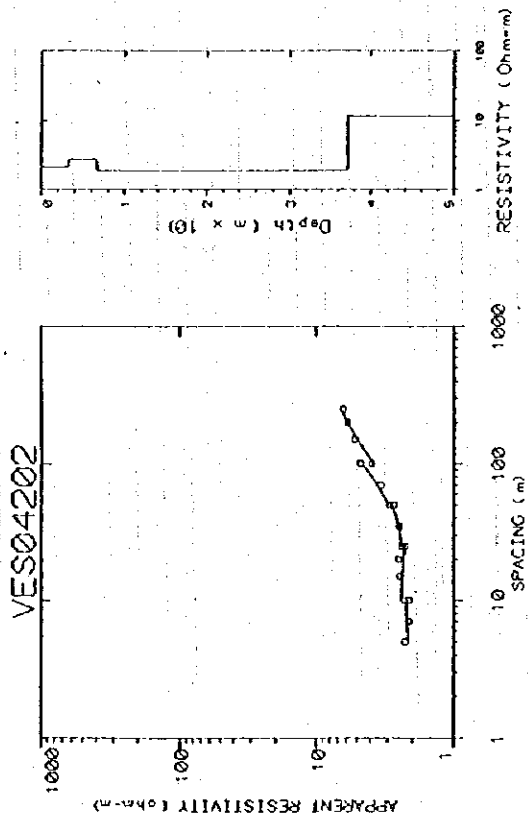
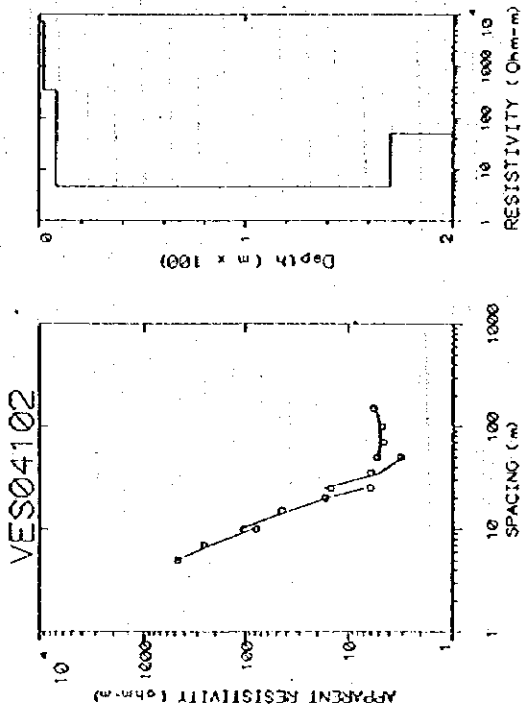
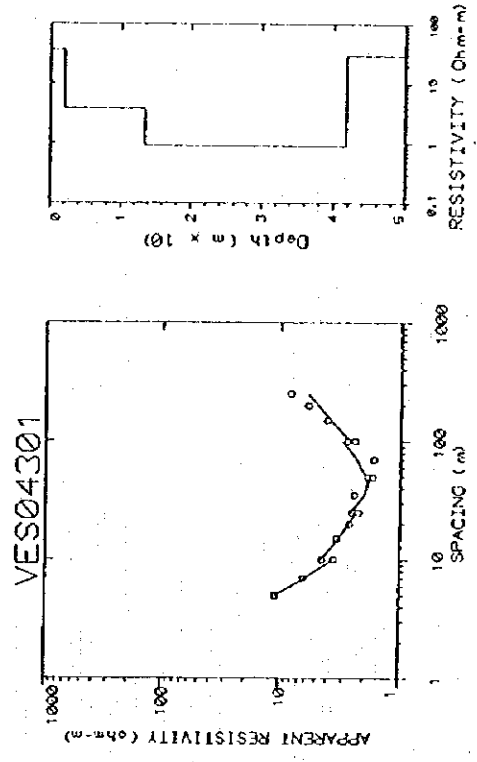
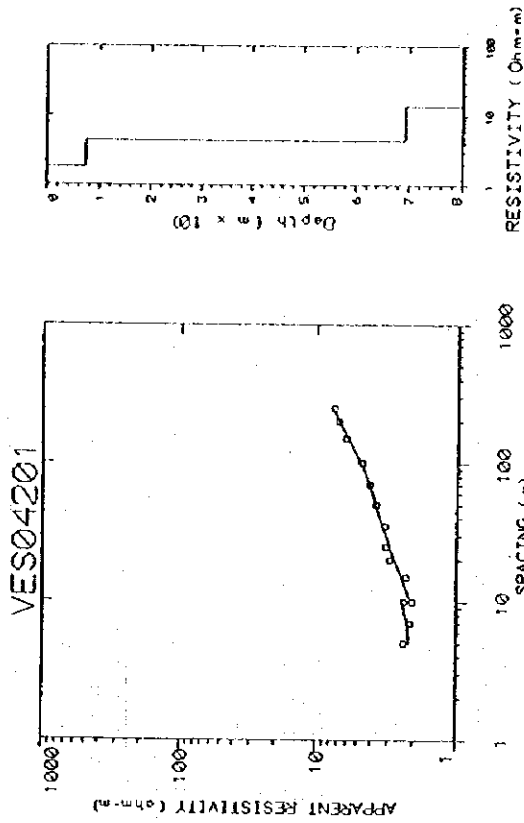


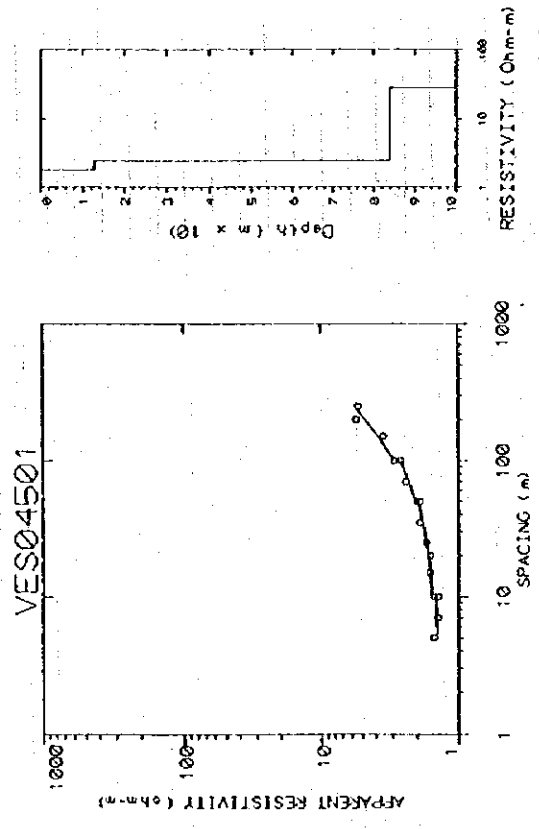
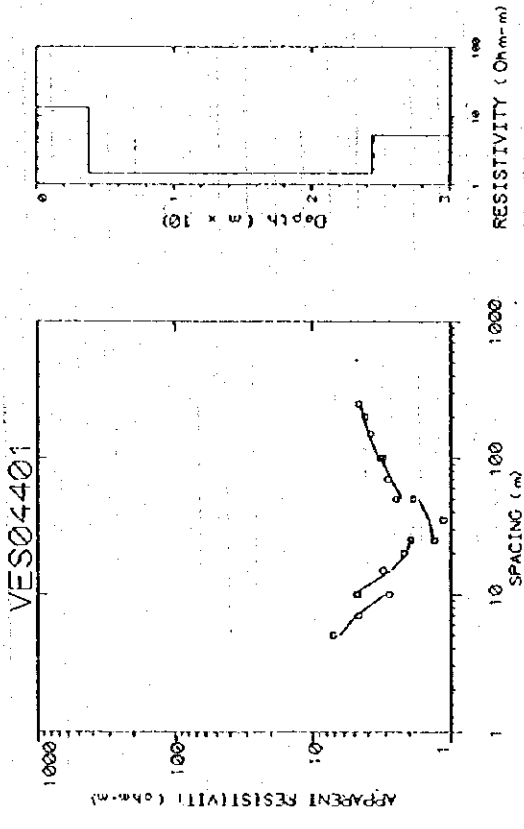
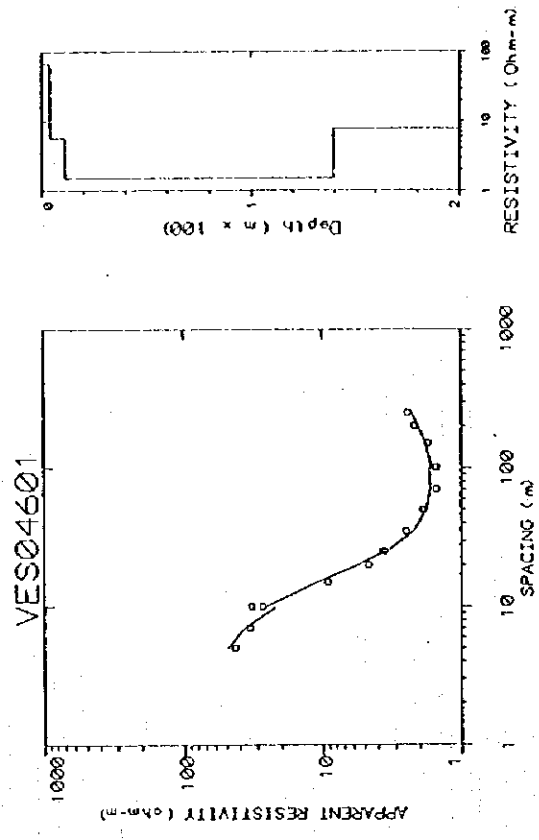
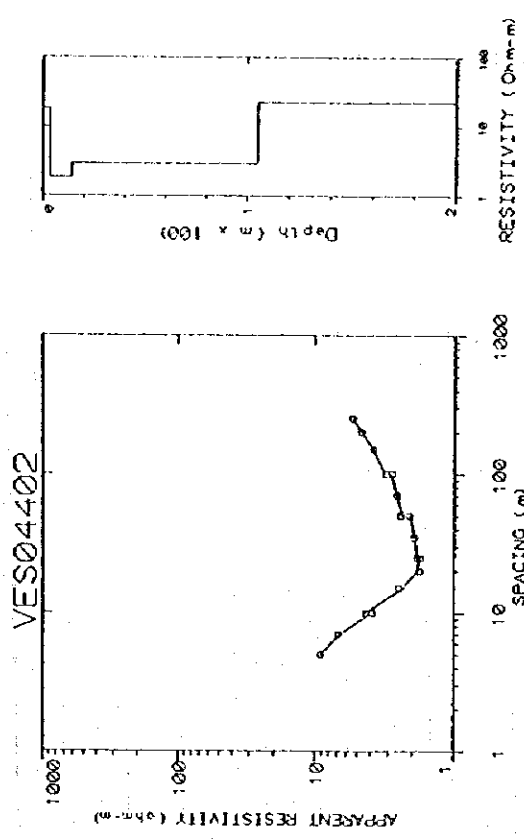
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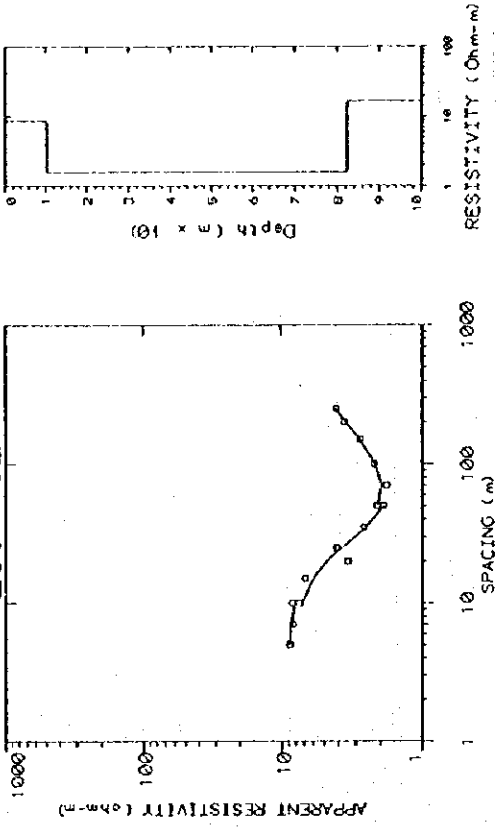




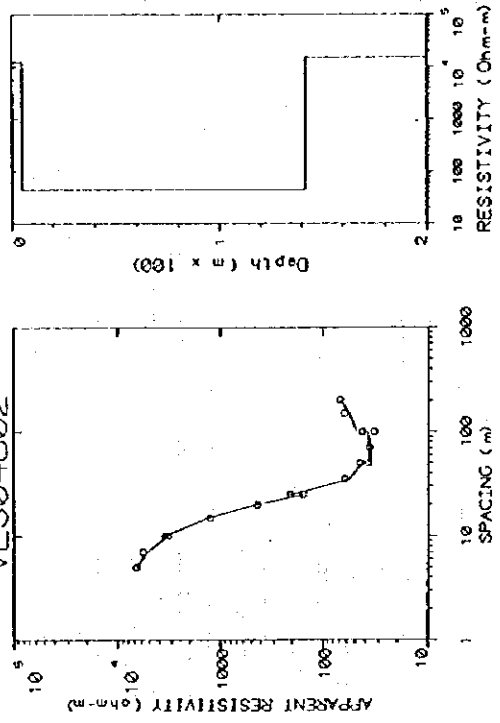




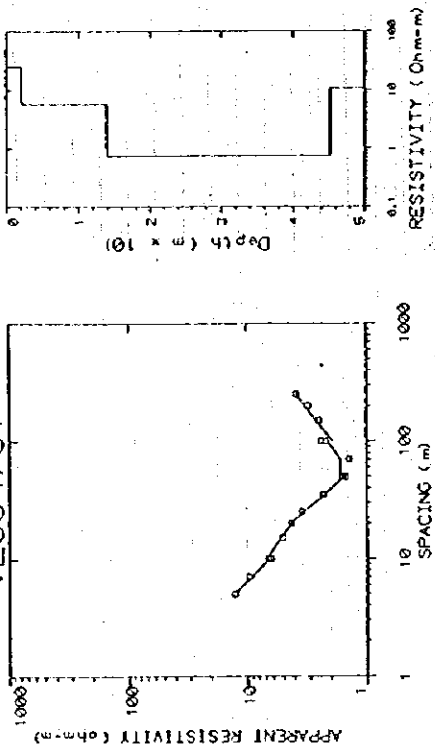
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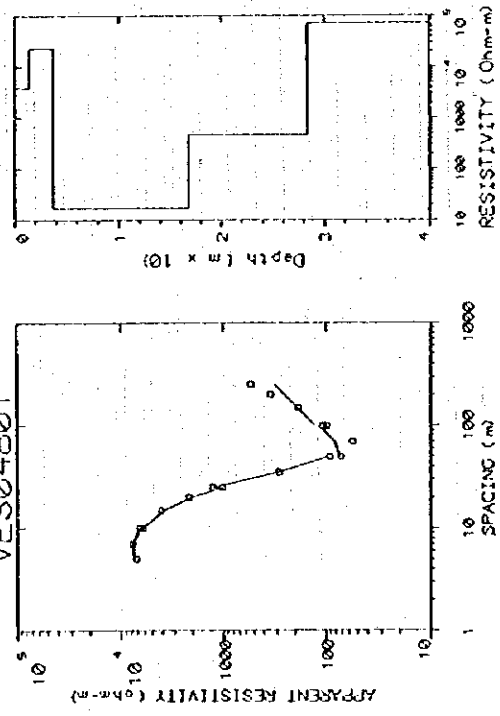
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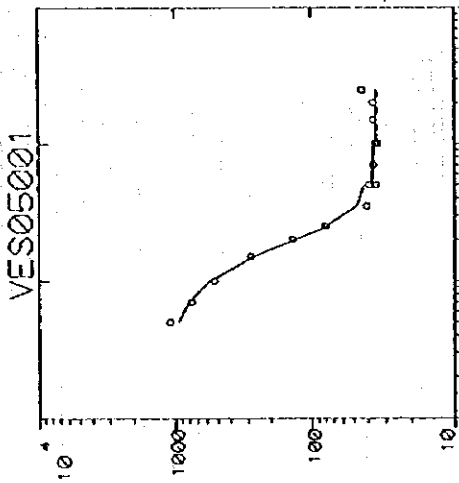
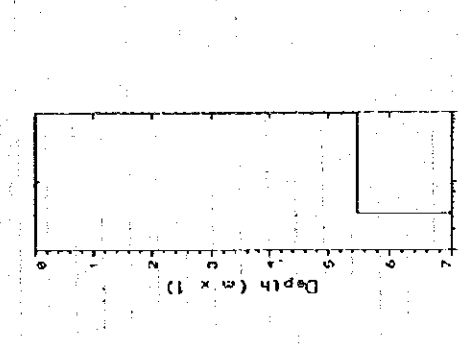
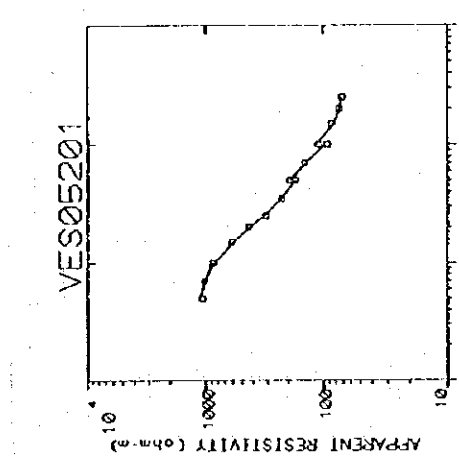
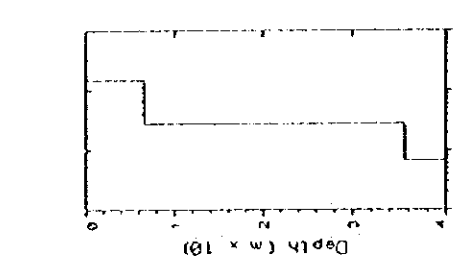
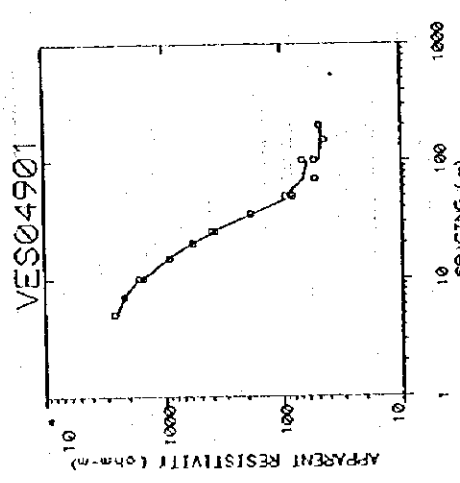
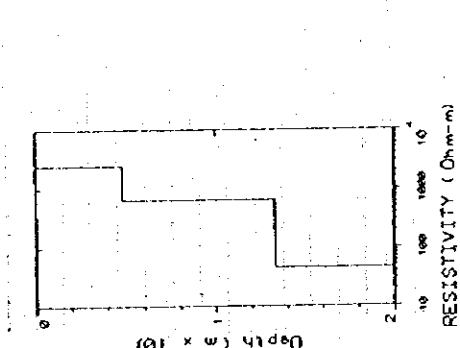
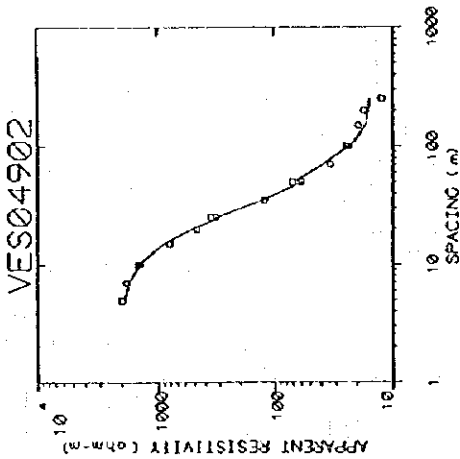
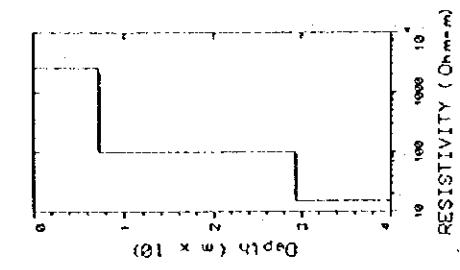


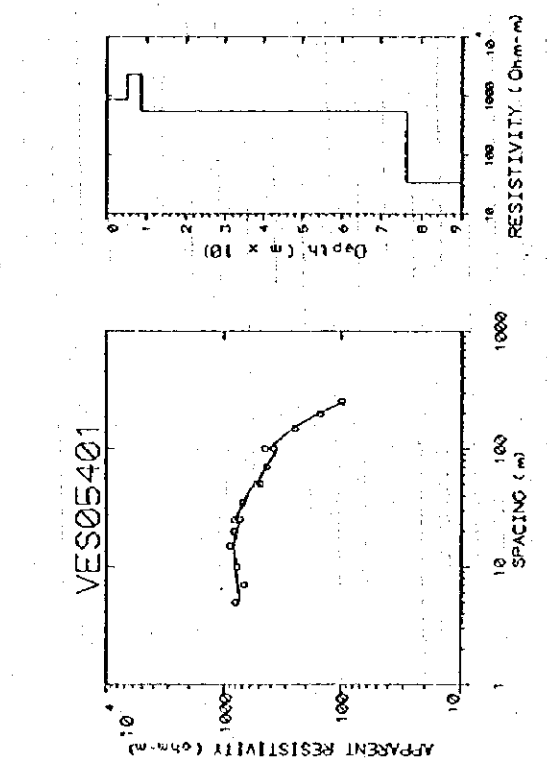
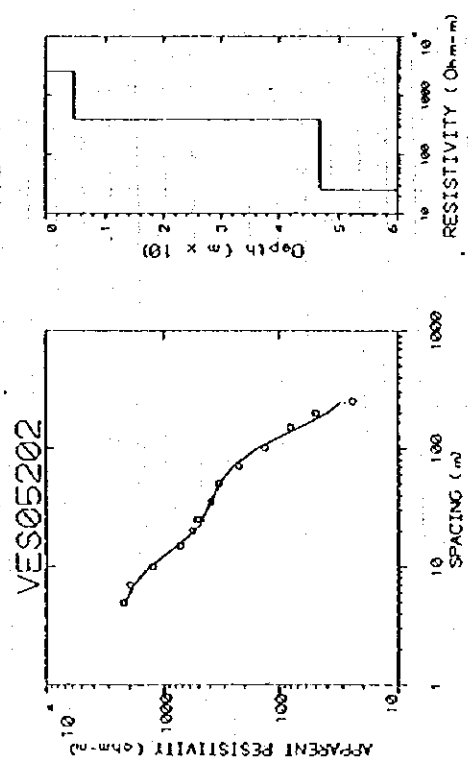
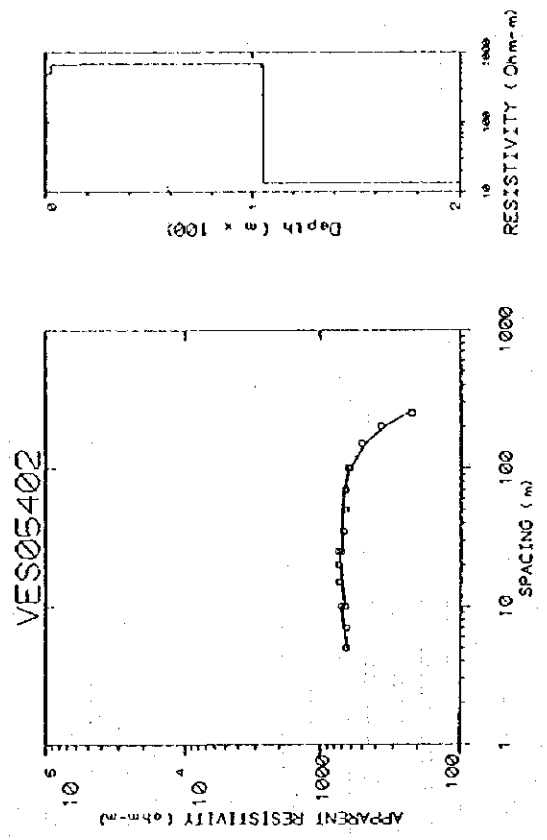
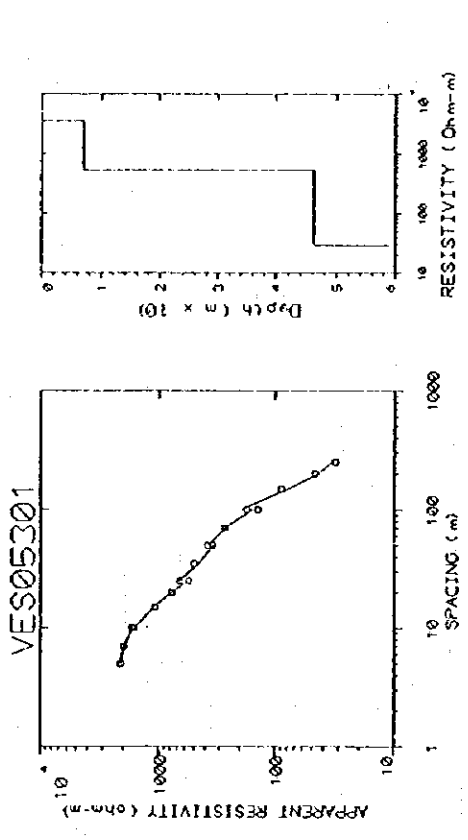
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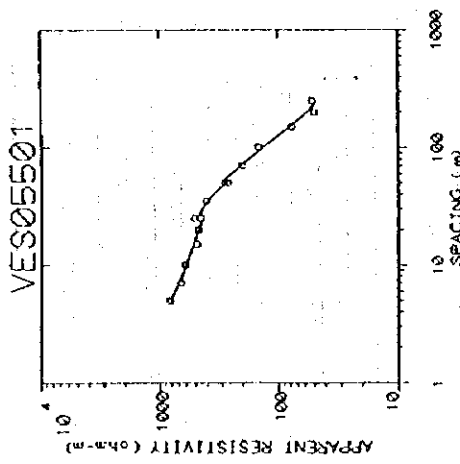
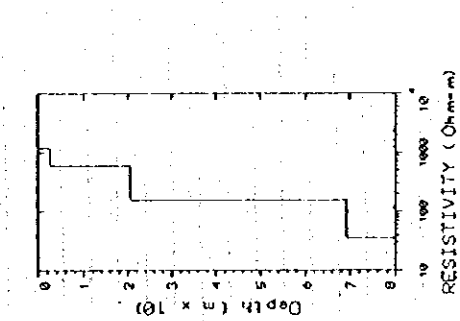
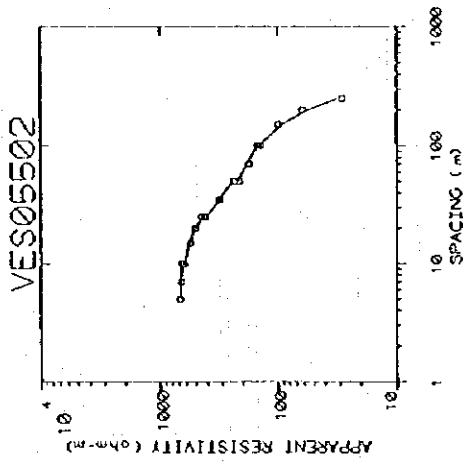
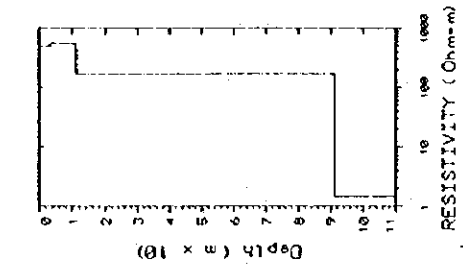


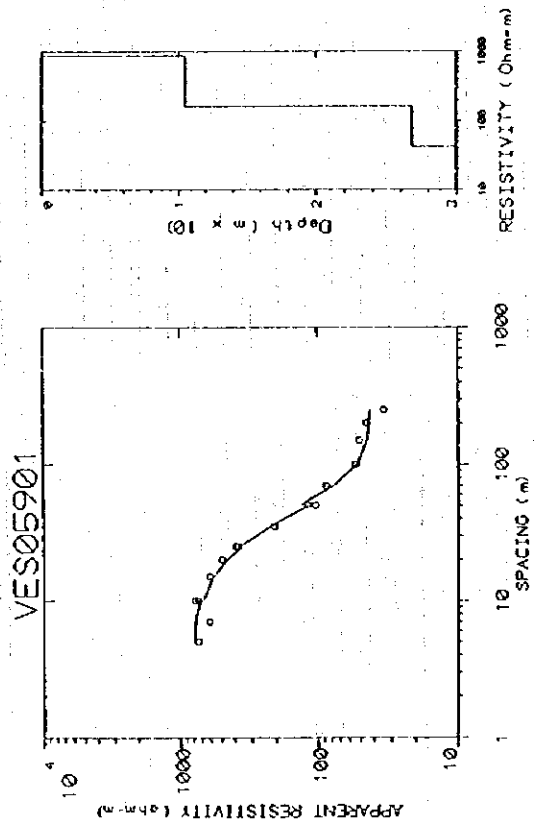
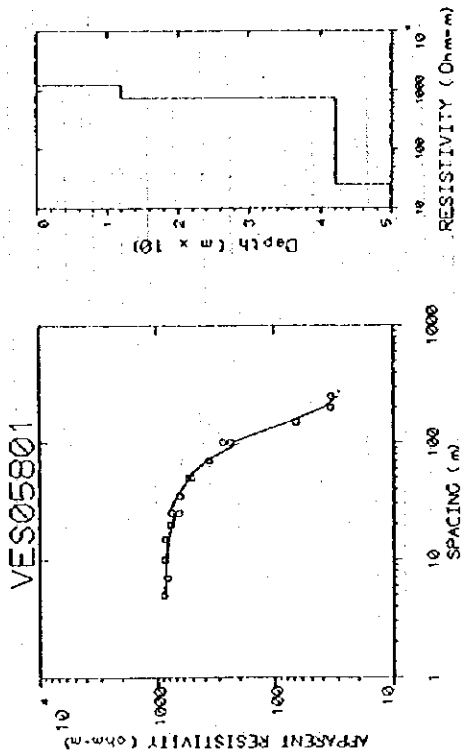
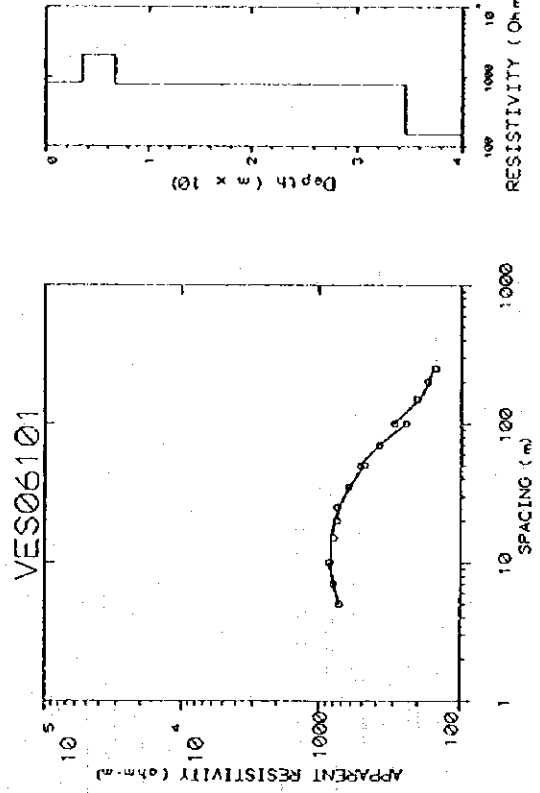
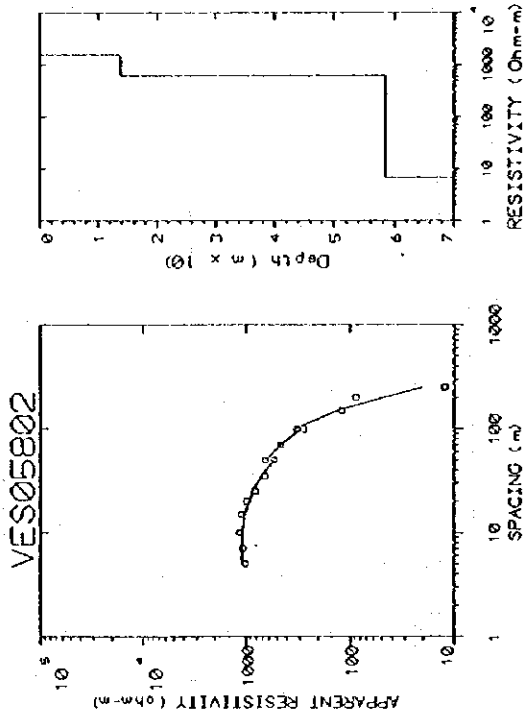
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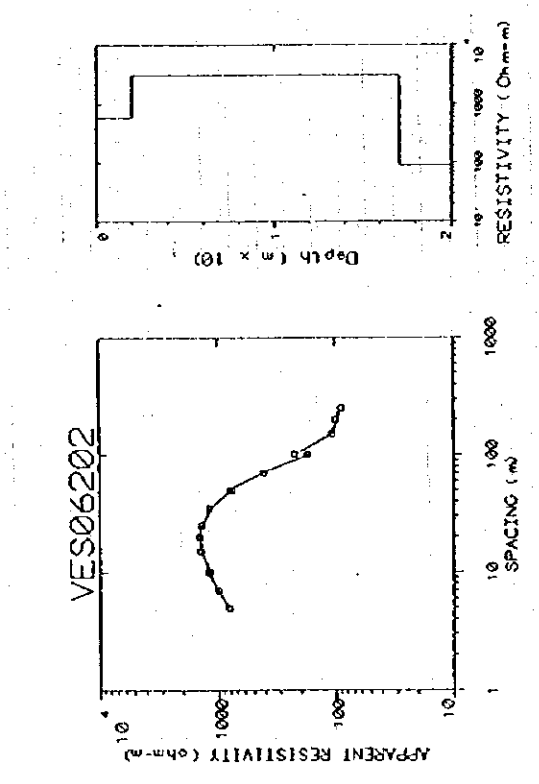
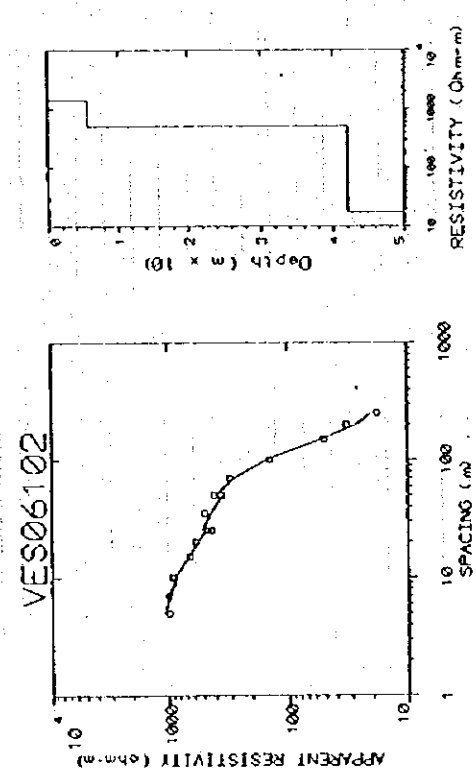
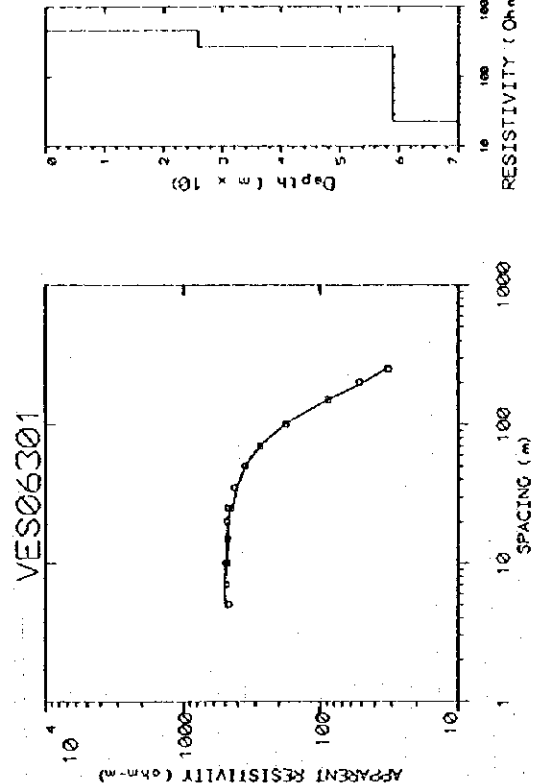
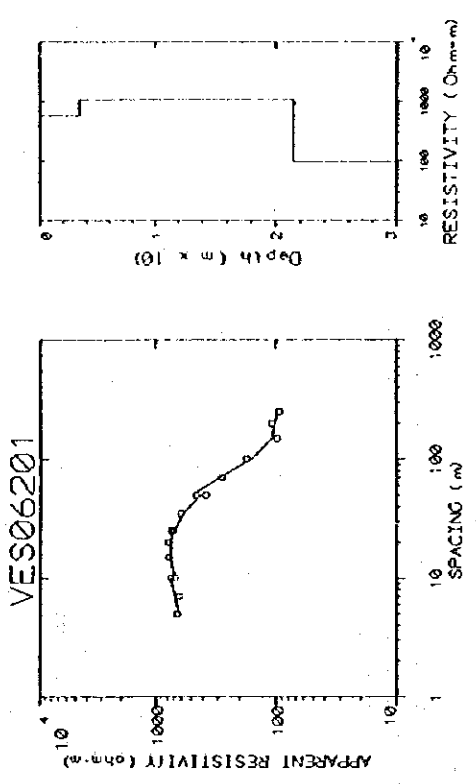


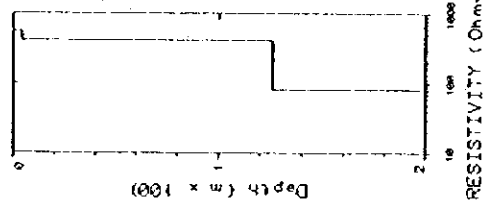
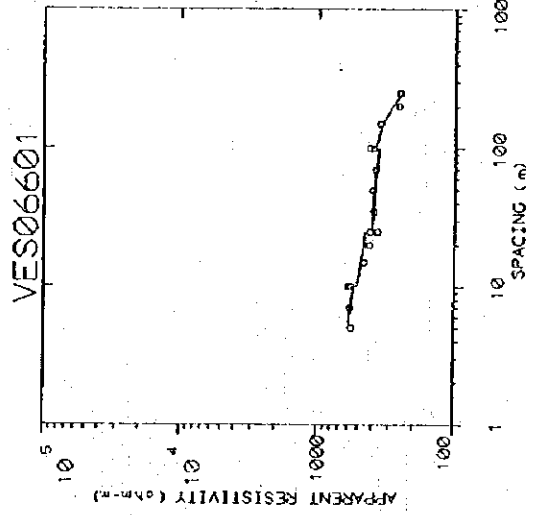
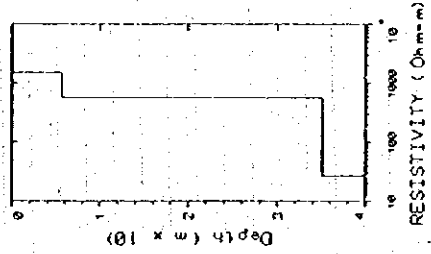
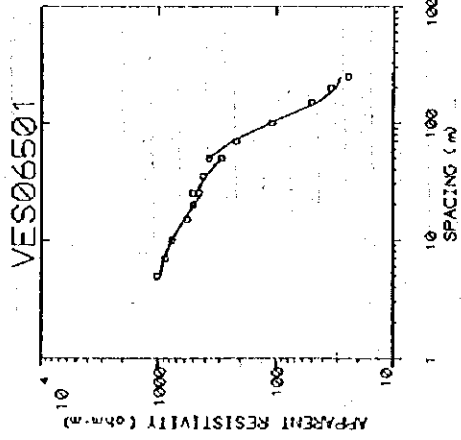
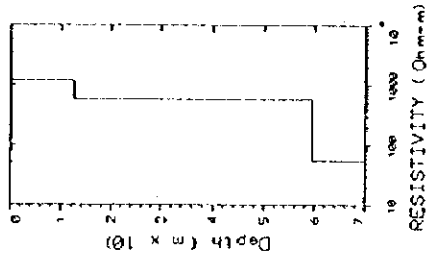
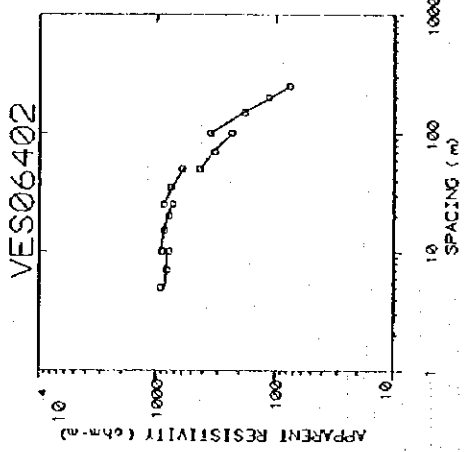
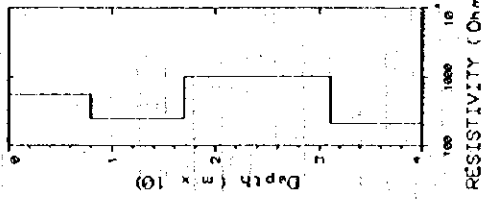
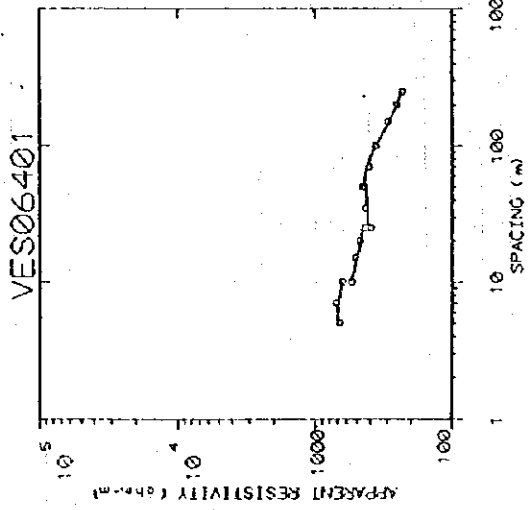


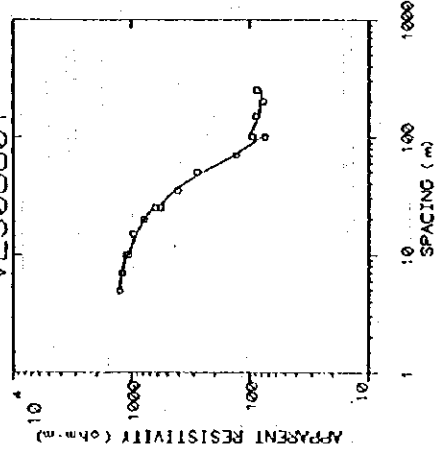
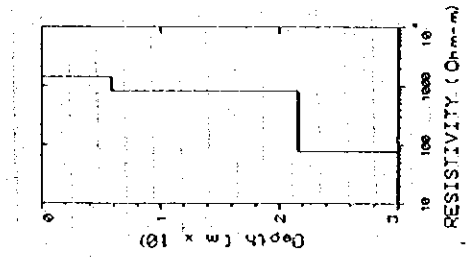
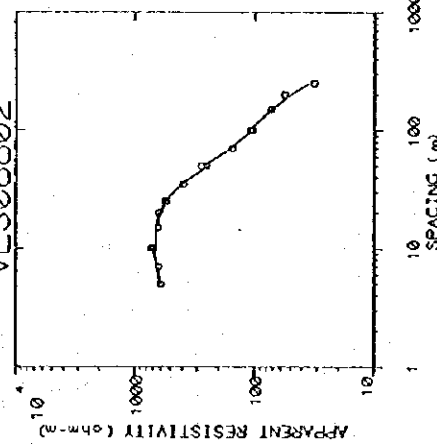
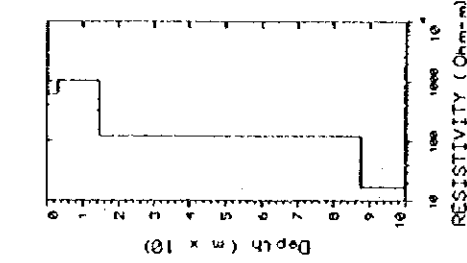
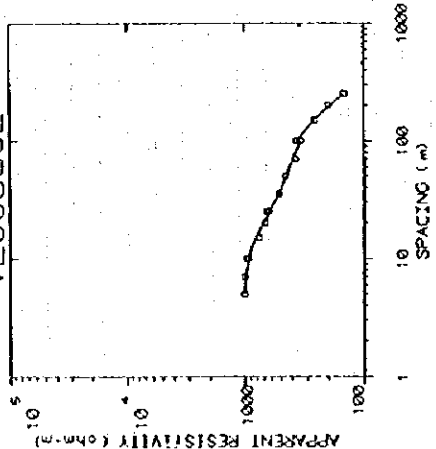
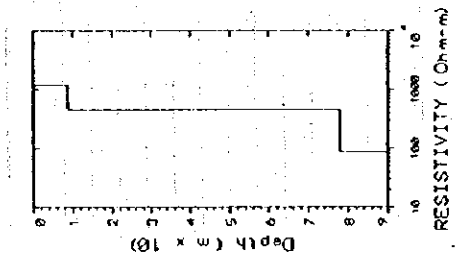
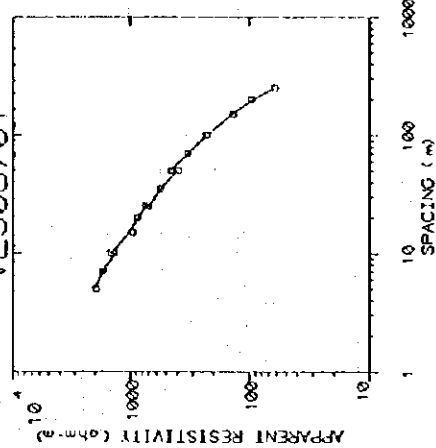
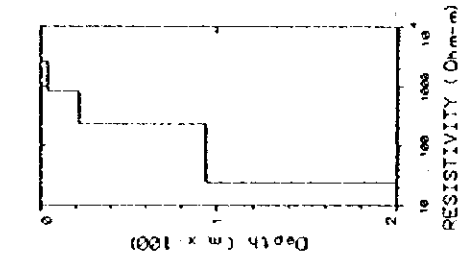


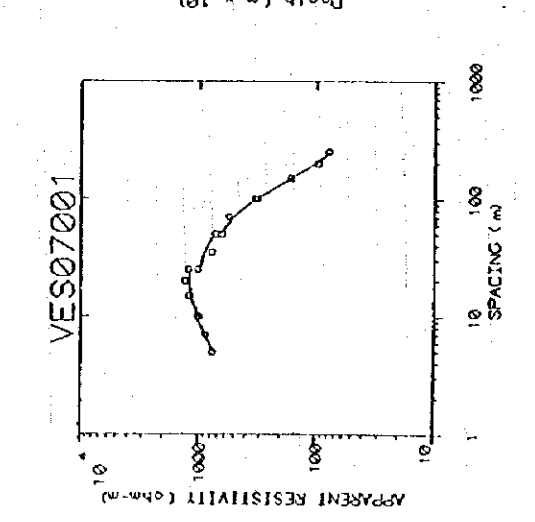
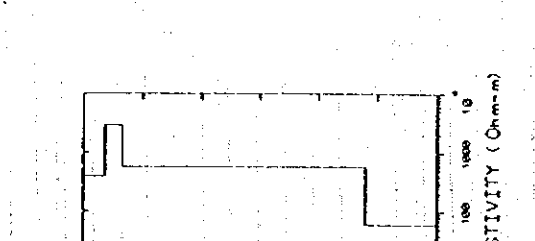
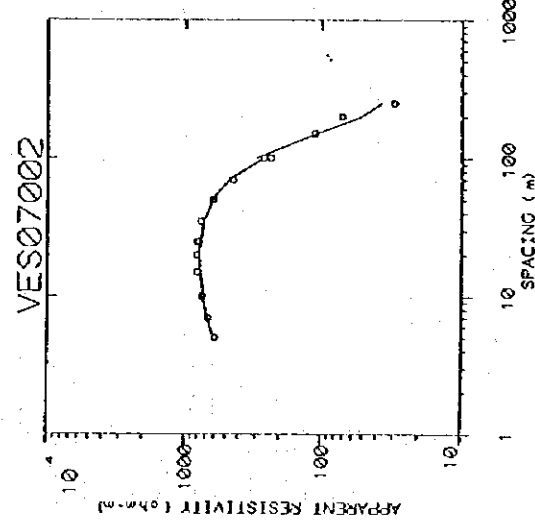
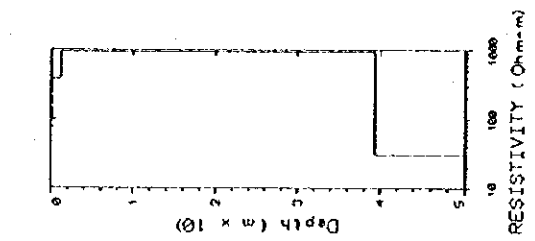
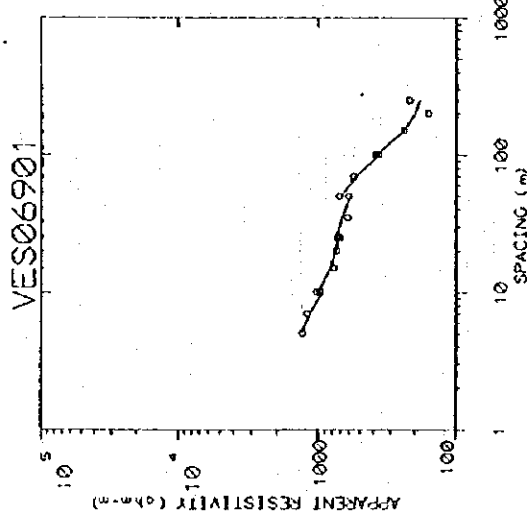
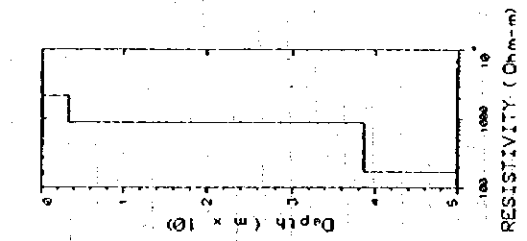
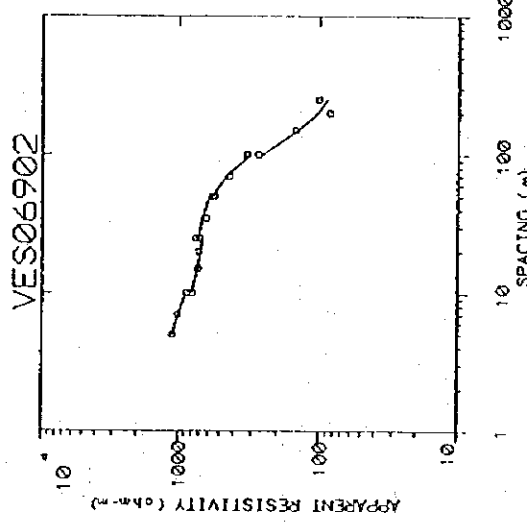
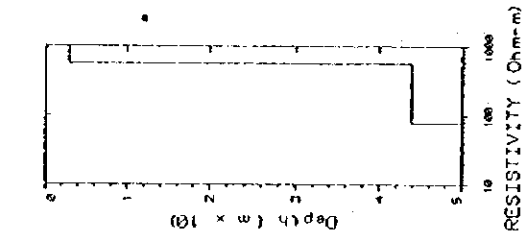


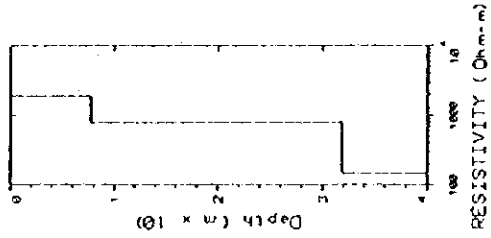
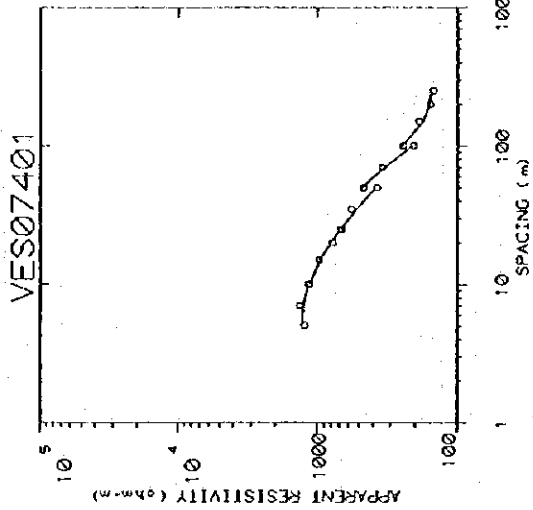
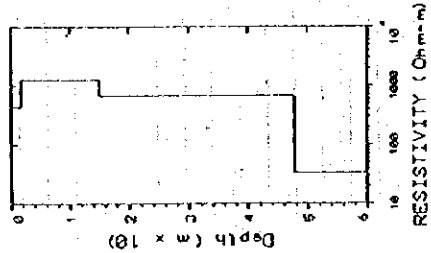
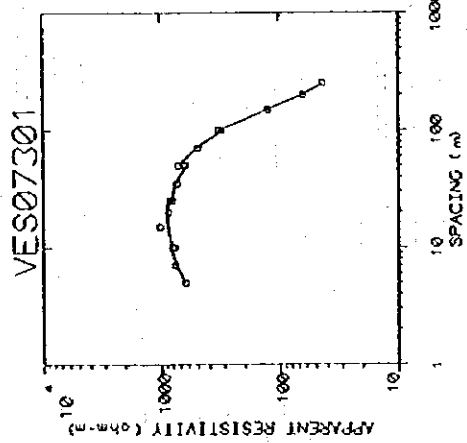
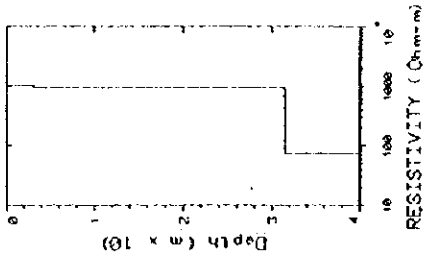
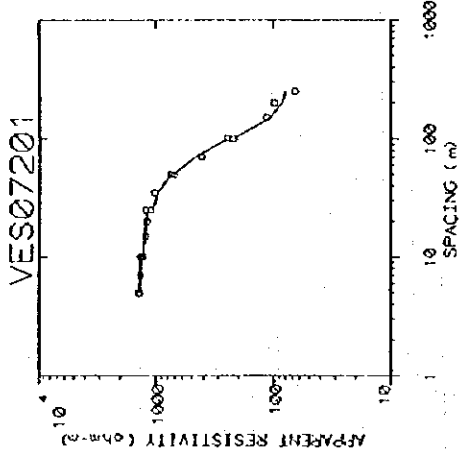
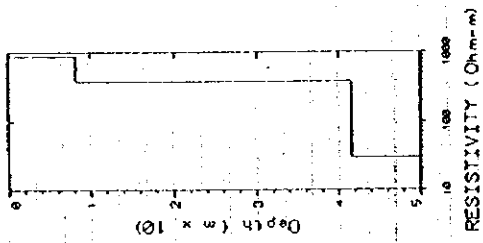
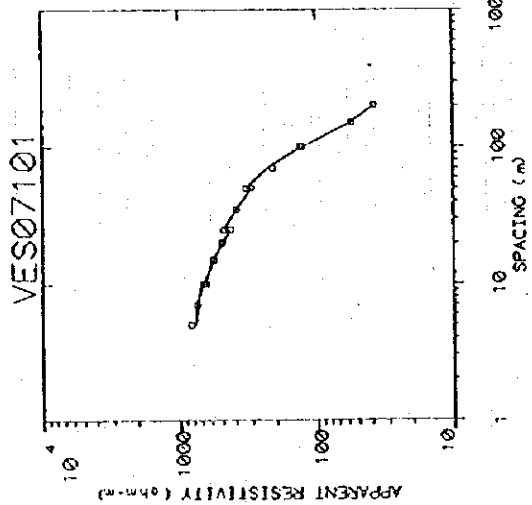


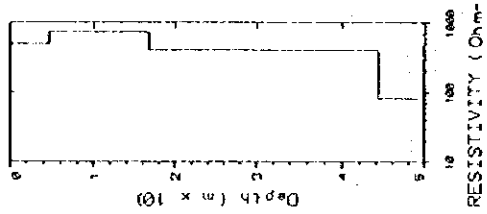
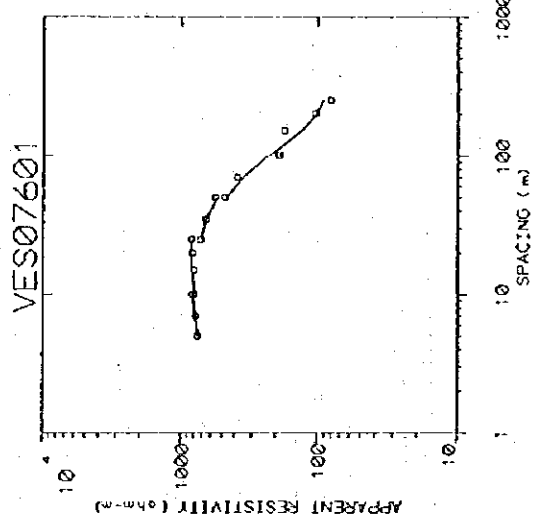
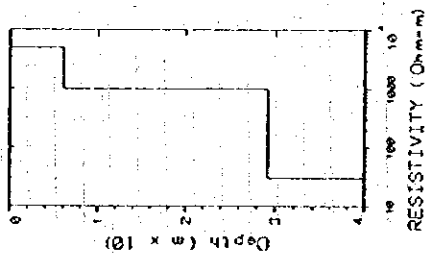
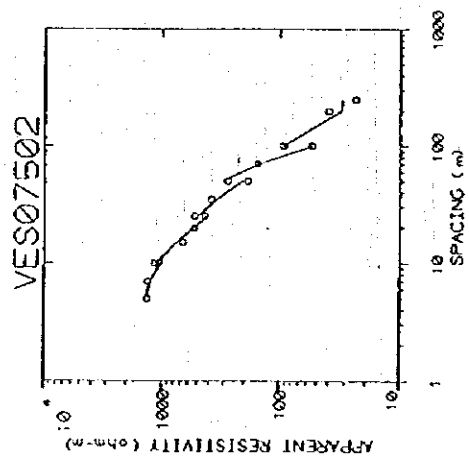
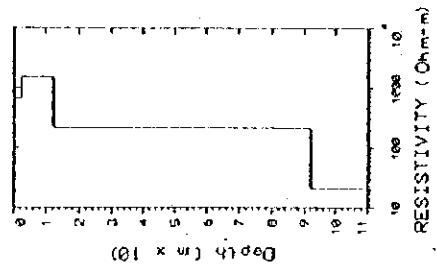
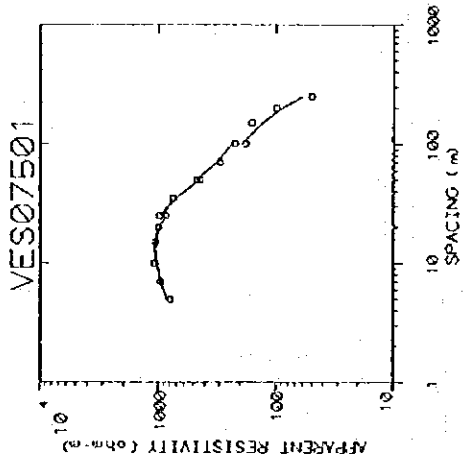
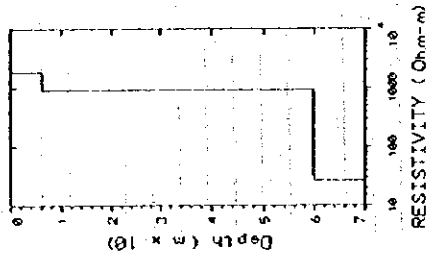
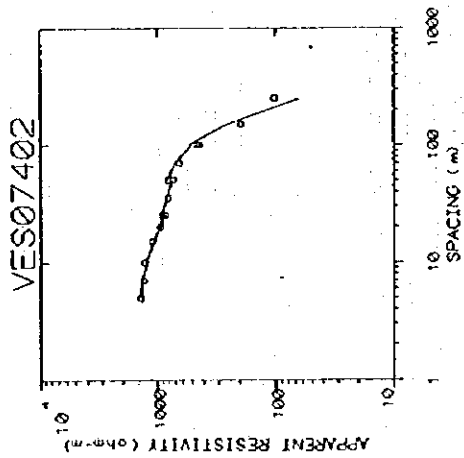




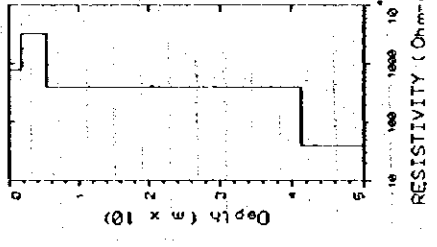
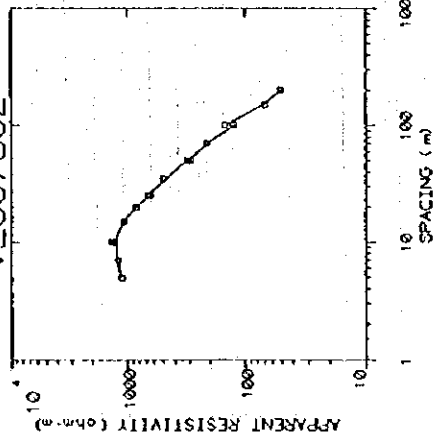




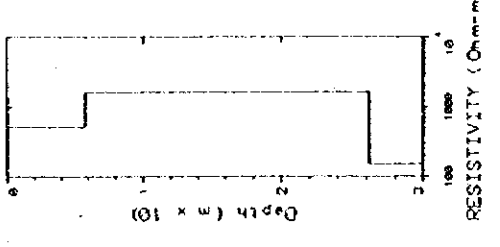
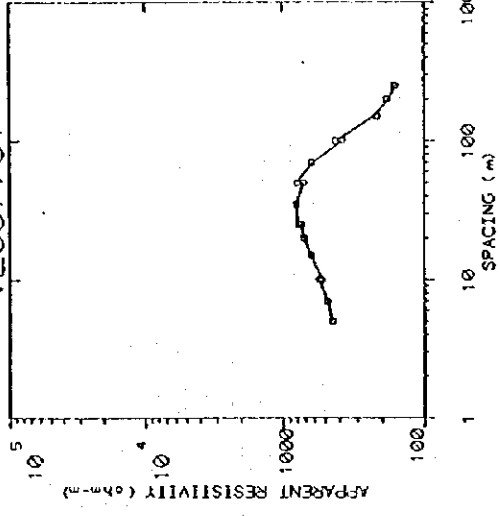




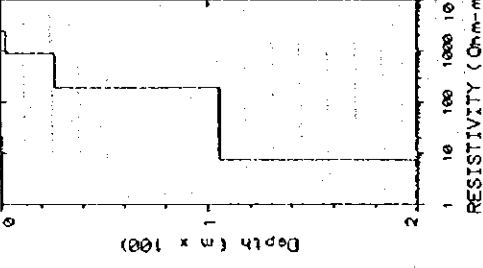
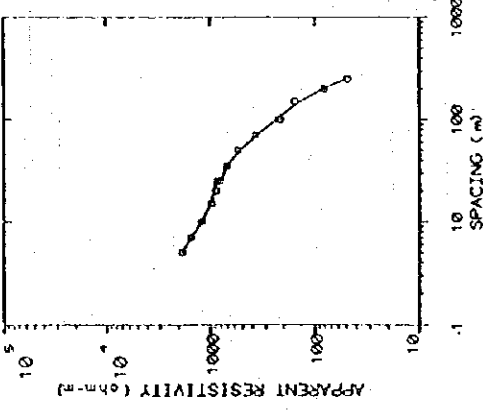
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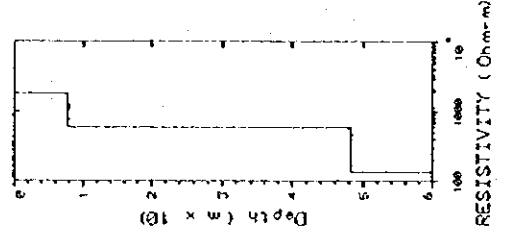
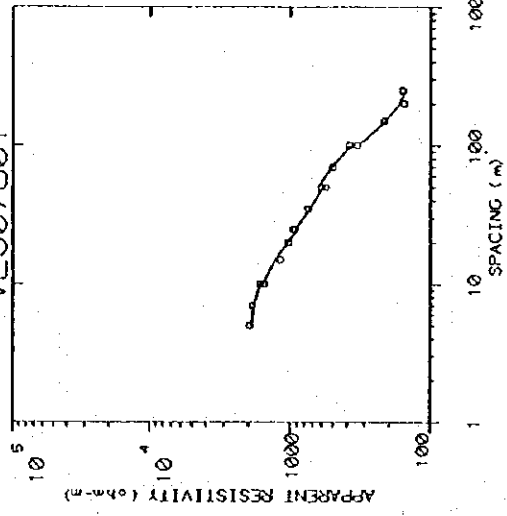
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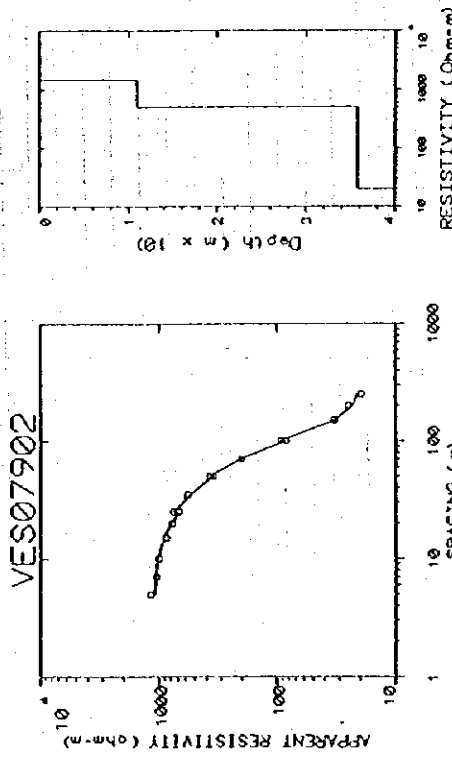
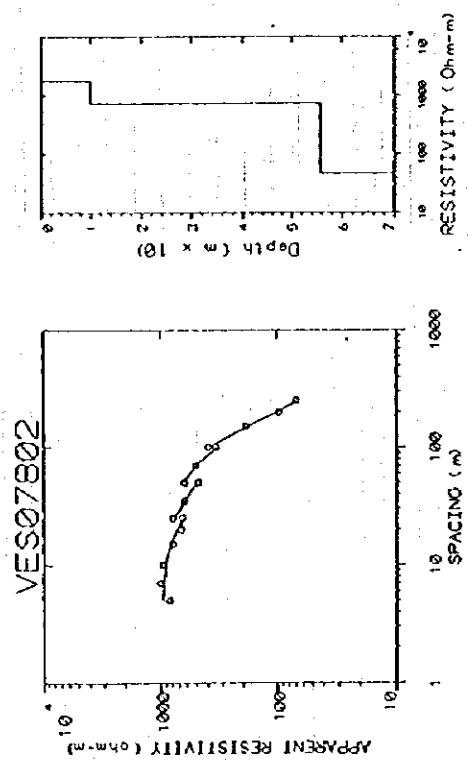
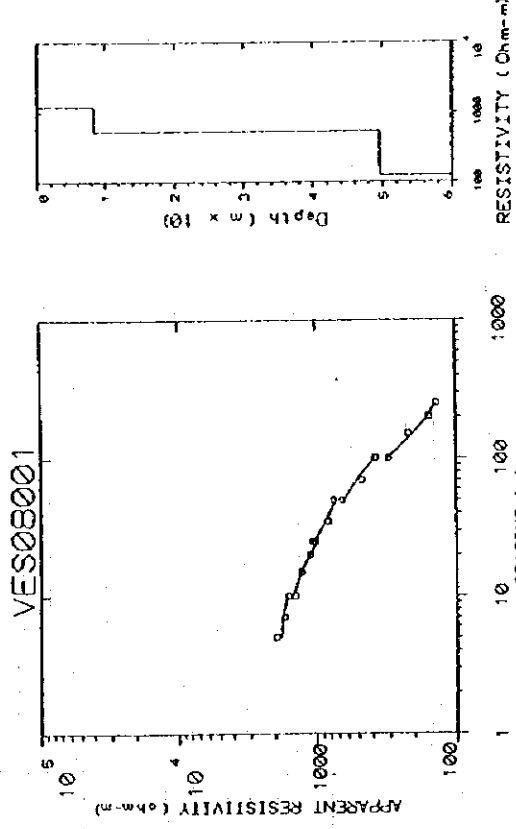
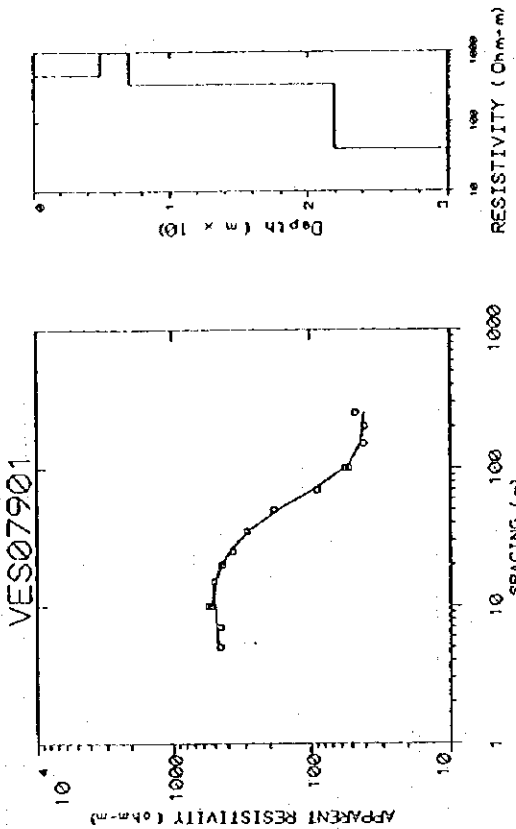


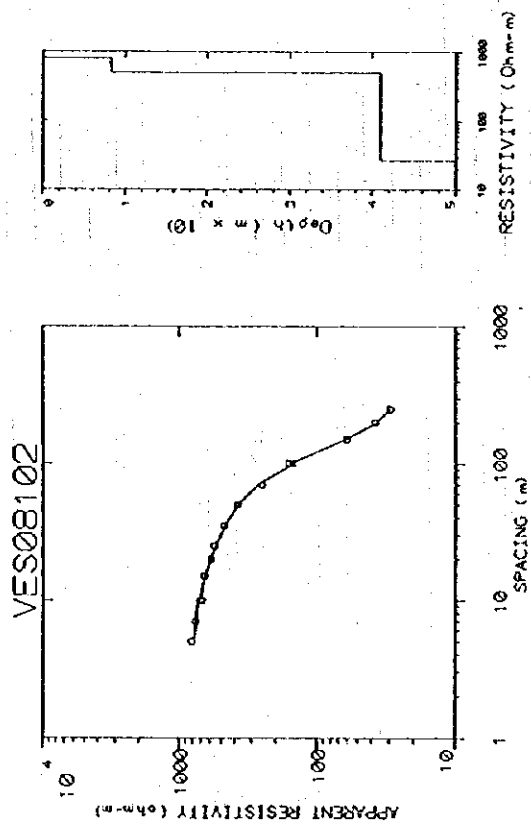
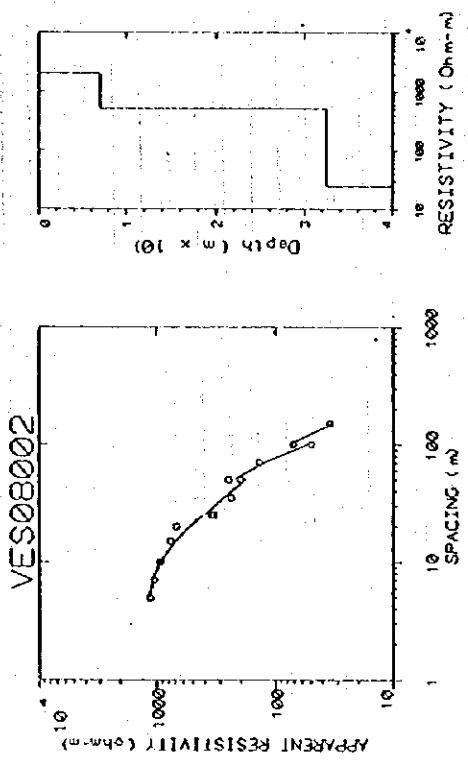
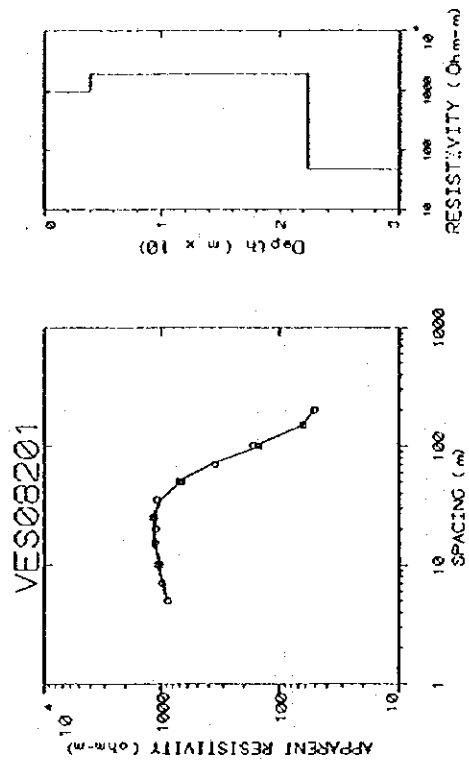
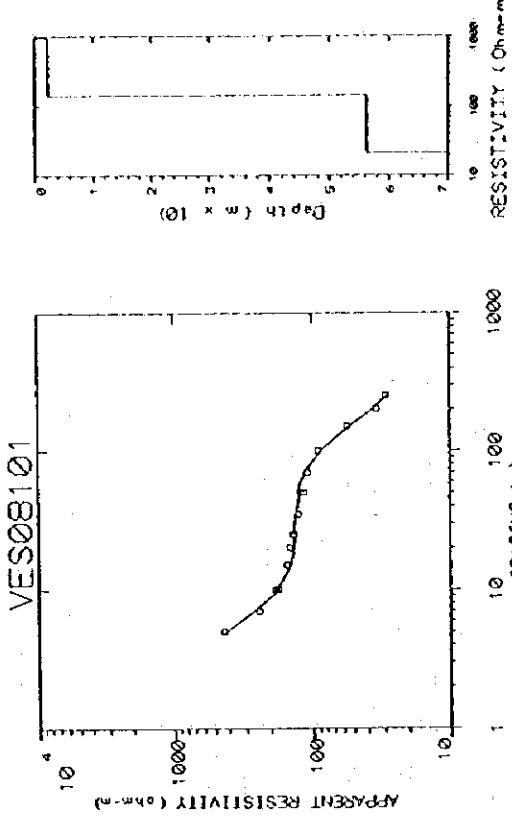
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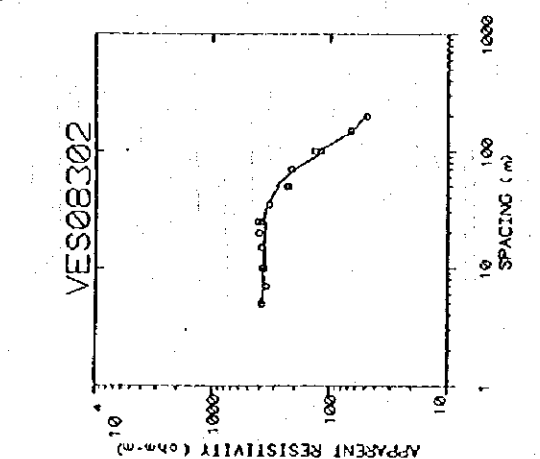
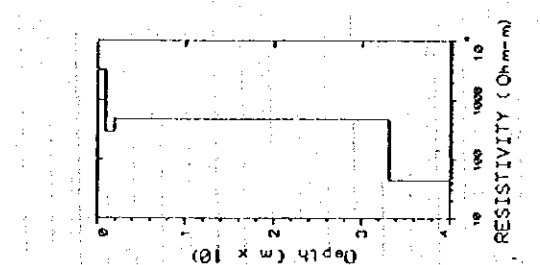
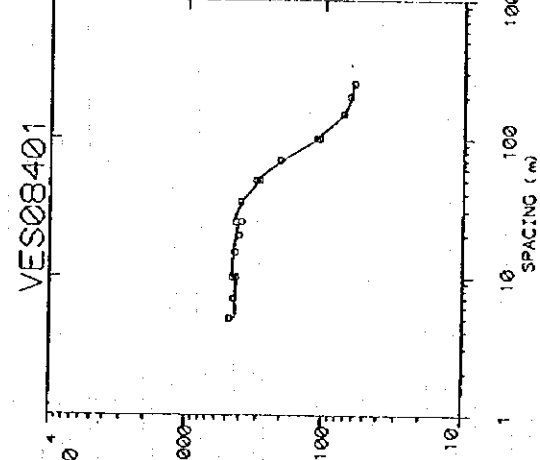
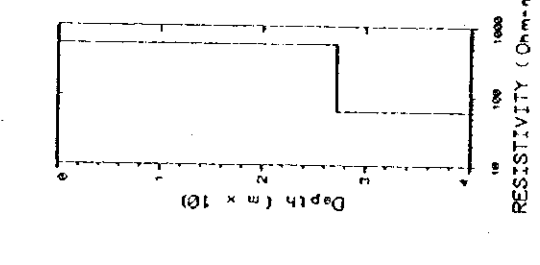
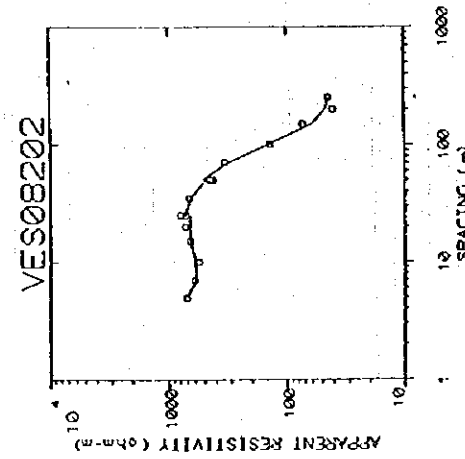
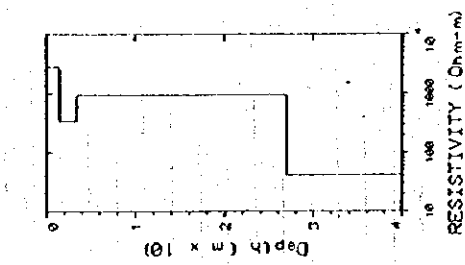
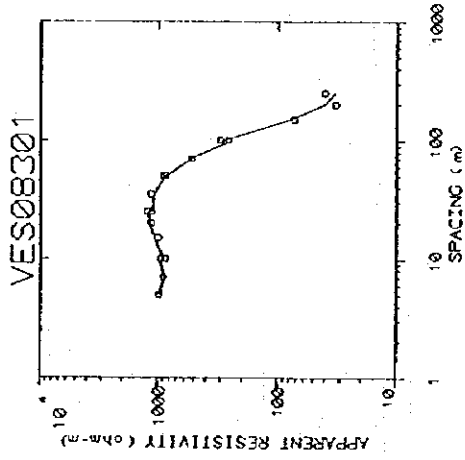
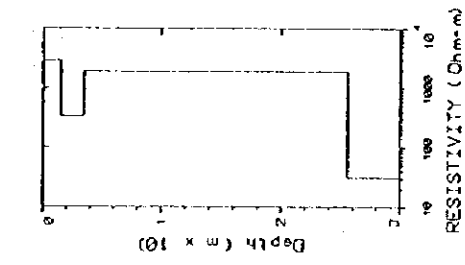


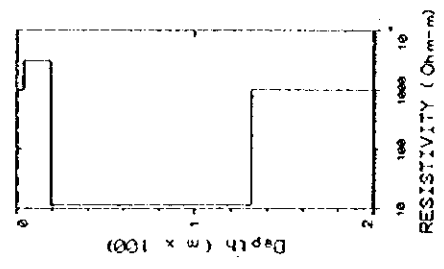
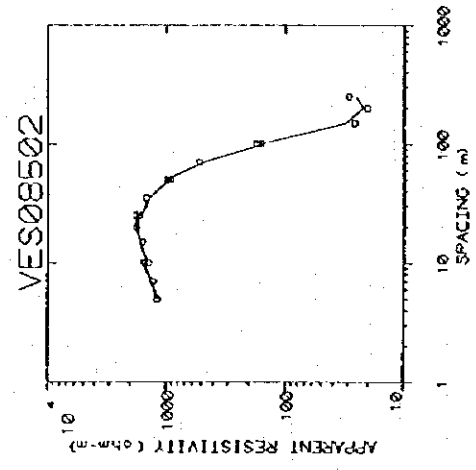
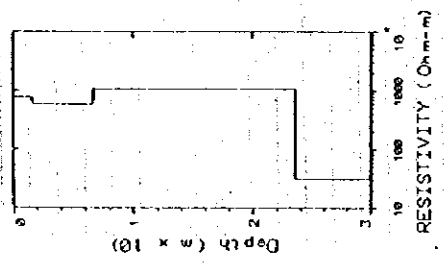
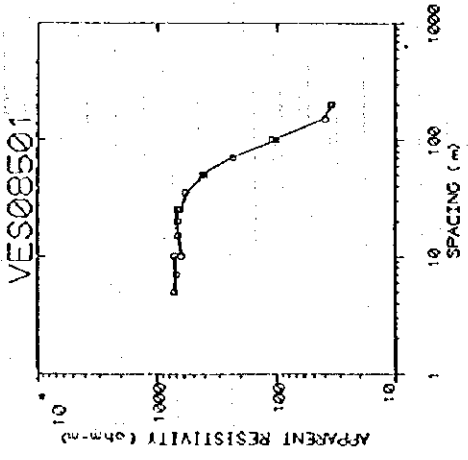
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Results of Interview Surveys (1/4)

District	No.	Area/Village	Surveyed Population	Present Water Sources and Wells		Water Quality	Availability	Activities, etc.
				Existing Wells	Working Wells			
Bilene	1	Ximhambanne	758	0	0	Lake (500 m)		
	2	Nhagome	240	0	0			
	3	Chimacho	759	1	1	Lake	Available	
	4	Chilenge	1,257	3	2		Available	Cleaning and protection of well
	5	Dzimbene	9,463	2	1		Available	Enlightenment or use of well
	6	Fulano	6,872	1	1		Available	Cleaning and maintenance of wells
	7	Manzari	3,379	6	3		Available	Cleaning and maintenance of wells
	8	Mutlabe	5,357	6	5		Available	Cleaning and maintenance of wells
	9	Chimungo	1,580	1	1			
	10	Matangjine	993	0	0		Available	Cleaning, maintenance and repairing of wells
	11	Chissano	3,256	2	2		Available	Cleaning, maintenance and repairing of wells
	12	Liano	757	1	1		Available	Cleaning of wells
	13	Loane	4,563	6	3		Available	
	14	Chimonzo	2,788	1	1		Available	
	15	Boloene	1,260	0	0			
Chibuto	16							
	17	Mubochua	1,907	0	0	Lake (7 km)		
	18	Mahungo	3,035	0	0	Lake (8 km)		
	19	Nwamate	560	0	0	Lake		
	20	Funguare	362	0	0	Lake (4 km)		
	21	Cocane	2,169	1	0	Lake	Available	Guidance on sanitation, W/charge: 1,000 Mt./household-
	22	Waximixo	108	0	0	Lake (25 km)		
	23	Maticuane	2,060	1	1	Lake (9 km)		
	24	Muxuquete	2,076	3	1	Lake	Available	Maintenance and repairing of wells, W/charge: 1,000 Mt./mon
	25	Bueucha	1,257	1	1		Available	Maintenance and repairing of wells, W/charge: 1,000 Mt./mon
	26	Chiconelane	2,998	3	3		Available	
	27	7 de Setembro	4,662	5	1		Available	Cleaning, protection and operation of well
	28	Chegua	2,788	6	2	Lake (500 m)	Available	Cleaning, protection and operation of well
	29	Coca-Missawa	2,250	7	2		Available	Cleaning, protection and operation of well
	30	Ngungunhane	9,420	3	1			
	31	Tatlene	1,379	0	0	Lake and Ponds		
	32	Wahamuza	3,836	2	2	Lake		
33								
Cholewe	34	25 de Setembro	2,202	5	1		Alkaline: 3 wells	Cleaning and protection of well, W/charge: 1,000 Mt./mon
	35	Diodjo	1,201	0	0	Limpopo River		Cleaning and protection of well, W/charge: 1,000 Mt./mon
	36	Machua	2,351	0	0	River and Lake		
	37	Machimbe	2,453	3	3	Limpopo River and lakes are also used.	Available	Cleaning and protection of well, W/charge: 500 Mt./mon
	38	Chate	1,779	0	0	Chate Lake		
	39	Chiguidela	5,447	3	3	Rivers and irrigation canals are also used.		
	40	Chicolane	1,917	4	2			
	41	1 de Maio	16,135	3	3	Irrigation canal is also used.	Alkaline: 3 wells	
	42	Lionde	10,362	5	5	Irrigation canal is also used.	Available	Maintenance and cleaning of wells
	43	Bombofo	1,672	1	1	Lake		
	44	Matatu	1,550	1	0	Lake		
	45	Carapotoso	374	0	0	Irrigation canals		
	46	Marrambôjane	400	0	0	Rivers		
	47	Chiduschine	6,012	1	1	River (1 km)		

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Results of Interview Surveys (2/4)

District	No.	Area/Village	Access to the Village		Intention to Pay 1,000 Mt./mon	Remarks	
			Road Condition	Dist. from Main Road (km)			
Bilene	1	Xinhambanine			Yes		
	2	Nhagome	The bridge on the way is not passable.	0.5	Yes	They have to cross the highway to get lake water at present.	
	3	Chihacho		14.0		Agreement by the community is required.	
	4	Chilengue		0.5	Yes	Agreement by the community is required.	
	5	Dzimbene	Along the paved road	-	Yes	No W/charge is applied for the existing wells.	
	6	Fulano		1.5			
	7	Manzar	Along the paved road	-	Yes		
	8	Mutiabse	Along the paved road	-	Yes		
	9	Chimungo		-		Paying W/charge of 5,000 Mt./mon for private well.	
	10	Manandjine		-	Yes		
	11	Chissano	Along the paved road	-	Yes		
	12	Jirano		3.0	Yes		
	13	Loane		-	Yes		
	14	Chimonzo	Along the paved road	-	Yes	Paying W/charge of 200 Mt./tank for private wells	
	15	Bolobene		1.0	Yes		
Chibuto	16			-			
	17	Mubochua	Sandy and bumpy road from Chibuto	3.0	Yes		
	18	Mahungo	Sandy and bumpy road from Chibuto	1.0			
	19	Nwamate	Sandy and bumpy road from Chibuto	0.5			
	20	Funguane	Sandy road from Chibuto-Chokwe road	1.0	Yes		
	21	Cocane	Sandy and bumpy road from Chibuto	2.0	Yes		
	22	Waximixo	Sandy and bumpy road from Chibuto	-			
	23	Mallecuane	Sandy and bumpy road from Chibuto	1.0	Yes		
	24	Muxuque		1.0	Yes		
	25	Bucucha		5.0	Yes		
	26	Chiconelane		10.0			
	27	de Setembro		-	Yes		
	28	Chigua		-	Yes		
	29	Coca-Missawa		-	Yes		
	30	Ngungumbane		-			
	31	Talene		-	Yes		
	32	Wahamuza		-	Yes		
	33			-			
	Chokwe	34	de Setembro	Muddy road from Barragem	5.0	Yes	
		35	Djedjo	Muddy road from Barragem	10.0	Yes	
		36	Machua	Muddy road from Barragem	39.0		
		37	Machinhe	Muddy road from Barragem	3.0	Yes	
38		Chate		1.0	Yes		
39		Chiguidela		-	Yes		
40		Chicovane	Muddy road form main road	3.0			
41		de Maio		-	Yes		
42		Luonde		-	Yes		
43		Bombofo	Muddy road form main road	4.0	Yes	The Block 1 (piped water supply system is available) is excluded.	
44		Malau	Muddy road form main road	7.0	Yes	Payable up to 30,000 Mt./mon	
45		Carapatoso		8.0	Yes	Payable up to 1,500 Mt./mon	
46		Marrabajane		-			
47		Chiduachine		-	Yes		

Results of Interview Surveys (3/4)

District	No.	Area/Village	Surveyed Population	Present Water Sources and Wells		Water Quality	Availability	Activities, etc.	
				Existing Wells	Working Wells				
Majacaze	48	Ponjane	385	0	0	Lake, river (rainy season)	Available	Maintenance and cleaning of wells	
	49	Chiducane	1,761	0	1		Available	Cleaning of well every 3 months	
	50	Cufaqueza	446	0	0	0 River and Lake (1.5 km)	Available	Cleaning of well, Guidance on use of well (twice a month)	
	51					0 Rivers (1.4 km)			
	52	N'dolene	1,756	2	1		Available		
	53	Mazilene	860	1	1		Available		
	54	Madender	1,758	0	0	0 River and Lake (1.5 km)			
	55	Chiziane	1,125	0	0	0 Rivers (1.4 km)			
	56								
	57	Chibangue	665	0	0	0 River (12 km)			
	58	Magumete	800	1	1	0 Lake (1 km)	Available	Cleaning wells every week	
	59	Nhachtengo	1,726	2	2	2 Lake (1.5 km)	Available	Cleaning wells	
	60	Madede	786	0	0	0 River (12 km)			
	61	Caune	927	0	0	0 River (14 km), Storing water in the house	Available	Cleaning of well with Mangrove village	
	62	Matimbe	922	1	1	0 Washing in Macucue River (1.5 km)	Available	Cleaning, maintenance and repairing of wells	
	63	Matimale	2,249	1	1		Available	Cleaning of well in Matimbe village	
	64	Mungone	1,000	0	0	0 Well in adjacent Matimale village			
	65	Nharzilo	893	0	0				
	66	Inadine	794	1	0	0 Well in adjacent Matimale village (1.8 km)			
	67	Ruco	536	1	0		Available	Cleaning of well by beneficiaries	
	68	Chizavane	4,353	3	2				
	Xai-Xai	69	Cavelene	1,500	2	1	0 Lake (4 km)		
		70	Pumulene	1,255	1	1			
		71	Venhene	800	1	0	0 Lake and wells in adjacent village		
		72	Cumine	2,164	1	1	1 Lake (7 km)	Available	Cleaning and maint. of wells, W/charge: 950,000 Mt./Year
		73	Nharavila	2,525	2	1	1 Lake and wells in adjacent village	Available	Since 1994
		74	Nhabequene	6,830	1	0	0 Washing in lake	Available	Cleaning, maintenance and repairing of wells
		75	Nharouse	10,175	12	9	5 Spring	Available	Cleaning, maintenance and repairing of wells
76		Poiombo	4,099	7	5	4 Irrigation canals	Available	Cleaning, maintenance and repairing of wells	
77		A. Iwane	3,580	4	0	0 Wells in adjacent village (6.5 km)			
78		Balune	1,085	0	0	0 Lake(washing) and spring (4 km)			
79		Bungane	9,880	2	1	1 Lake	Available	Cleaning of well under the Secretary's supervision	
80		Bango	2,927	3	1		Available	Cleaning, maintenance and repairing of wells	
81		Chicozela	3,378	2	1		Available	Cleaning, repairing etc. of wells, W/charge: 200 Mt./Year	
82		Chupenhe	3,457	4	3		Available	Cleaning, repairing etc. of wells, W/charge: 10,000 Mt./Year	
83		Ngueliene	2,722	3	3		Available	Cleaning, maintenance and repairing of wells	
84		de Juho	6,738	2	2	2 River (1 km)	Available	Cleaning, repairing etc. of wells, W/charge: 2,000 Mt./Year	
85		Nuvunguene	8,214	4	4		Available		
	Total	233,130	153	97					

Results of Interview Surveys (4/4)

District	No.	Area/Village	Access to the Village		Intension to Pay 1,000 Mt./mon	Remarks
			Road Condition	Dist. from Main Road (km)		
Majacaze	48	Ponjane	Sandy road from Manjacaze	-	Yes	
	49	Chiducane	Sandy road from Manjacaze	-	Yes	
	50	Cufaqueza	Sandy road from Manjacaze	-	Yes	
	51			-	-	
	52	N'golene		-	-	Sometimes dry up
	53	Mafelene		-	-	Sometimes dry up
	54	Madenfer		-	-	Alternative water source is as far as 15 km
	55	Chiziane		-	-	
	56			-	-	
	57	Chibangue		-	-	
	58	Magumete		-	-	
	59	Nhachengo		-	-	
	60	Madede		-	-	
	61	Caunre		-	-	
	62	Matimbine	Along the paved road	-	-	
	63	Matrule	Along the paved road	-	Yes	
	64	Mungoine		-	-	
	65	Nharzilo		-	Yes	
	66	Incadine	Along the paved road	-	-	
	67	Ruso		-	Yes	Serious water shortage, sometimes only 2.5 l/household available
	68	Chizavane	Along the paved road	-	-	
	69	Cavelene		-	Yes	
	70	Pumulene		-	Yes	
	71	Venhene		-	Yes	
	72	Cumrime		-	Yes	
	73	Nhamavila	Along the paved road	-	Yes	Payable up to 2,000 Mt./mon
	74	Nhapquene		-	Yes	
	75	Nhancuse		-	Yes	
	76	Poiombo		-	Yes	
	77	A. Tivane		-	Yes	
	78	Baunre		3.0	Yes	
	79	Bungane		-	Yes	
	80	Bango		-	Yes	
	81	Chiconela		1.0	Yes	
	82	Chipente	Along the paved road	-	Yes	
83	Ngulene	Along the paved road	-	Yes		
84	24 de Julho		-	Yes		
85	Navunguene	Along the paved road	-	Yes	Payable up to 2,000 Mt./mon	
	Total			59		

ATTACHMENT VII. REFERENCES

1. Maps

1.1 Topographic Maps

1.1.1 1:50,000

1.1.2 1:100,000

1.2 Atlas Geografico

1.3 Carta Hidrogeologica de Mocambique, 1987 (1:1,000,000)

2. General

2.1 Anuario Estatistico, 1994, DNE

2.2 Programa do Governo, 1995

2.3 Country Report, 2nd. Quarter 1994, Mozambique Malawi

2.4 Present and Perspectives, Universidade Eduardo Mondlane, 1991

2.5 Development Co-operation Activities, 1984

2.6 Plan de Reconstrucao Nacional, Provincia de Gaza

2.7 Industrial Minerals of Mozambique, Vaclav Cilek

2.8 Mocambique: Panorama Demografico e Socio-economico, 1995

2.9 Plano Economico e Social, 1994

2.10 Forca de Trabalho e Sua Utilizacao em Mozambique, 1991

2.11 Principais Fontes de Informacao Estatistica Sobre Aspectos Sociais, Economicos e Demograficos da Populacao de Mozambique, 1991

2.12 Pobreza, Empregoe a Questao Demografica nas Cidades Capitais de Mocambique, 1994

3. Rural Water Supply and Sanitation

3.1 Water and Sanitation Section, Section and Sectoral Activities, 1993, UNICEF

3.2 Present situation of Water Resources Management in Mozambique, 1984, National Directorate of Water

3.3 Politica Nacional de Aguas

3.4 Programa Nacional de Agua Rural, 1995, DNA

3.5 Action Plan on the Implementation of the National Water Policy, Portfolio of Project Areas, Preliminary Version 1

- 3.6 National Rural Water Supply Program, Groundwater Development for Rural Drinkwater Supply, Gaza Province, Project Proposal
- 3.7 List of Existing Wells in Gaza Province, DRH
- 3.8 Water and Environmental Sanitation Section, Section and Sectoral Activities, 1995, Briefing document, UNICEF
- 3.9 Manual de Instalacao da Bomba Manual AFRIDEV, 1993, PRONAR

JICA