

10515

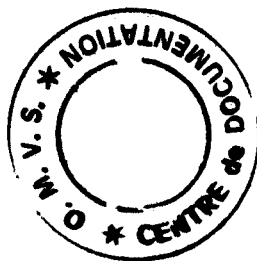
ORGANISATION POUR LA MISE EN VALEUR DU FLEUVE SENEGAL OMVS
DIRECTION DES INFRASTRUCTURES REGIONALES DIR
CELLULE EAUX SOUTERRAINES
PROJET OMVS/USAID 625-0958

REPERTOIRE HYDROGEOLOGIQUE

DOCUMENT ANNEXE

CARTE TOPOGRAPHIQUE 1:50,000
15 MATAM 4B

- * COUPES GEOLOGIQUES ET TECHNIQUES
- * COURBES GRANULOMETRIQUES
- * REPRESENTATIONS GRAPHIQUES DES ANALYSES D'EAU



PROJET OMVS/USAID
625-0958

ORGANISATION POUR LA MISE EN VALEUR DU FLEUVE SENEGAL OMVS
DIRECTION DES INFRASTRUCTURES REGIONALES DIR
CELLULE EAUX SOUTERRAINES
PROJET OMVS/USAID 625-0958

REPertoire HYDROGEOLOGIQUE

CARTE TOPOGRAPHIQUE 1:50,000
15 MATAM 4B

ANNEXE # 1

POUR CHACUN DES PIEZOMETRES

- * Coupes géologiques et techniques
- * Coupes géologiques avec les commentaires
- * Description stratigraphiques
- * Guide lexicologique

PROJET OMVS/USAID
625-0958

COMMENTAIRES UTILES

A) GENERAUX

Les représentations graphiques des coupes géologiques et techniques de cette annexe, accompagnées des tableaux explicitant les descriptions géologiques, sont issues de l'exploitation d'un progiciel GROUNDWATER.

Tous les fichiers résultant de l'exploitation de ce progiciel sont regroupés dans un répertoire maître appelé GWDATA. Le répertoire maître a été subdivisé en autant de sous/répertoire nommé par le nom de la carte topographique 1/50,000 qu'il y a de cartes topographiques 1/50,000 dans les limites de la zone à l'étude.

L'identification des fichiers est de type *.WLT et *.WLC.

Le symbole * correspond au numéro du piézomètre concerné et les extensions:

WLT: regroupent toutes les données géologiques relatives au piézomètre concerné,

WLC: regroupent toutes les données techniques relatives au piézomètre concerné.

Le lecteur trouvera ci-après, la liste exhaustive de tous les fichiers traités dans le cadre de cette annexe, correspondant à autant de piézomètres regroupés dans les limites de la carte topographique 1/50,000 concernée.

Tous les piézomètres, traités dans cette annexe, sont localisés sur la carte 1/50,000 accompagnant ce document.

La liste exhaustive des piézomètres relative à cette carte résulte de l'exploitation d'un logiciel utilitaire XTREE.

PROJET OMVS/USAID
625-0958

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38 tagged files using 27,904 bytes

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GA0351	.WLC	1,152	.a..	2-22-89	9:13 am
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ILLYF3	.WLT	384	.a..	7-03-89	3:17 pm
ILLYF4	.WLT	640	.a..	7-03-89	3:23 pm
ILLYF7	.WLT	1,152	.a..	7-03-89	4:01 pm
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ILLYK98	.WLT	384	.a..	7-03-89	3:00 pm

GUIDE LEXICOLOGIQUE

Toutes les représentations graphiques et le tableau caractérisant un piézomètre # ... , regroupés à l'annexe # 1, sont issus du logiciel GROUNDWATER/LITHOCON. D'origine anglophone, il peut être utile de préciser les traductions ci-après. La traduction n'est pas rigoureuse et tient compte de la spécificité des travaux réalisés par le projet.

LITHOLOGY
WELL CONSTRUCTION DETAILS
WELL CAP
CASING
LINER
DRILLED HOLE
WELL SCREEN
PLUG

GRAVEL PACK
STATIC WATER LEVEL

SCALE
PROJECT
FILE

LOCATION

WELL NO
DRILLER

ELEVATION (m)

DATE DRILLED
TYPE OF RIG
DEPTH
THICKNESS (m)

= DESCRIPTION LITHOSTRATIGRAPHIQUE
= COUPE TECHNIQUE DU PIEZOMETRE
= COUVERCLE DE PROTECTION
= TUBE D'ACIER PEINT EN ROUGE
= TUBE PVC PLEIN
= TROU DE FORAGE
= CREPINE EN PVC
= BOUCHON DE FERMETURE A LA BASE DU
PIEZOMETRE
= GRAVIER FILTRE
= NIVEAU STATIQUE MESURE PAR
RAPPORT AU SOL
= ECHELLE
= PROJET
= FICHER, CORRESPOND AU # DU
PROJET
= LOCALISATION, CORRESPOND AU NOM
DE LA CARTE 1/50.000
= NO DU PIEZOMETRE
= FOREUR, CORRESPONDANT AU NOM DE
L'ENTREPRISE RESPONSABLE DES
TRAVAUX DE FORAGE
= ELEVATION EXPRIMEE EN METRES PAR
RAPPORT AU ZERO IGN
= DATE D'EXECUTION DU FORAGE
= TECHNIQUE DE FORAGE
= PROFONDEUR
= EPAISSEUR EXPRIMEE EN METRES

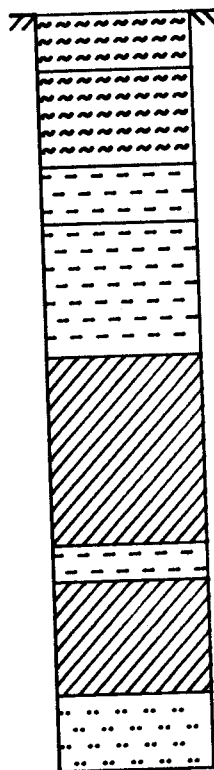
PROJET OMVS/USAID
625-0958

LEGEND

	ARG./PLAST.
	ARG./SABLE
	SILT
	SA. FIN
	SA. MOY.
	SA. GROS.
	GRAV. FIN
	GRAV. MOY.
	GRAV. GROS.
	SA. DUNAIRE
	SA. GRAVIL.
	GRES/SABLE
	GRES/SA/CALC
	CALCAIRE
	GRES FER.
	SA. COQUIL.
	MARNE
	SOL ORGAN.
	LATERITE
	SCHISTE

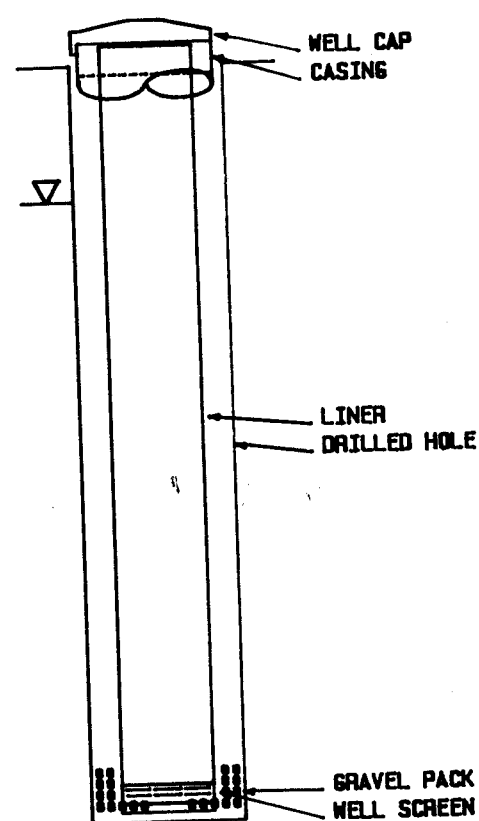
LITHOLOGY

0
3
6
9
12
15
18
21
24
27
30
33
36
39
42
45
48
51



SCALE: 1 CM = 3 M

WELL CONSTRUCTION DETAILS



M
0
3
6
9
12
15
18
21
24
27
30
33
36
39
42
45
48
51

▽ STATIC WATER LEVEL

PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: MATAM 48

COUPE GEOLOGIQUE ET TECHNIQUE

USAID/DAKAR/SENEGAL

FIGURE: DA238

WELL LITHOLOGY

PROJECT:OMVS/USAID
LOCATION:MATAM 4B
WELL NO.:DA238
DRILLER:SAFOR

FILE NO.:625-0958
ELEVATION (M): 15.254
DATE DRILLED:10/11/87
TYPE OF RIG:ROTARY

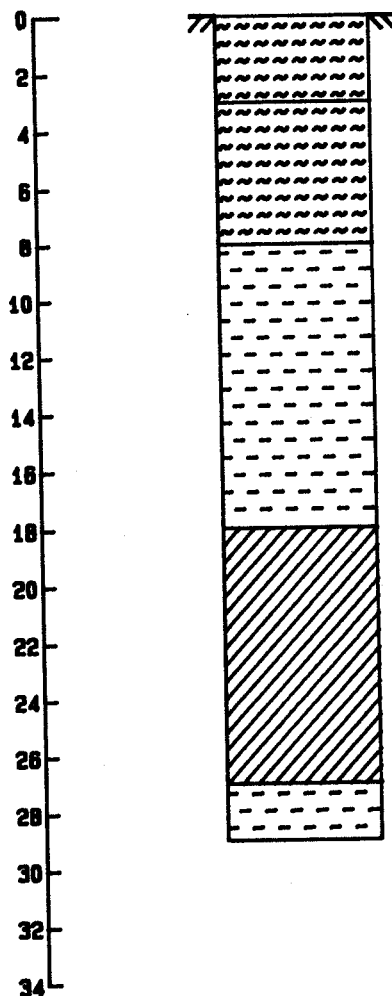
DEPTH (M)		ELEVATION (M)		THICKNESS	LITHOLOGY
FROM	TO	FROM	TO		
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3.00	8.00	12.25	7.25	5.00	SILT,QT; JA; ARGILEUX/S
8.00	11.00	7.25	4.25	3.00	SA. FIN,QT; JA.
11.00	18.00	4.25	-2.75	7.00	SA. FIN,EC; RD; ARGILEU
18.00	28.00	-2.75	-12.75	10.00	ARG./PLAST.,EC; JA.
28.00	30.00	-12.75	-14.75	2.00	SA. FIN,EC; ARGILEUX.
30.00	36.00	-14.75	-20.75	6.00	ARG./PLAST.,EC; JA.
36.00	40.00	-20.75	-24.75	4.00	SA. MOY.,EC; BLANC; SIL

USAID/DAKAR/SENEGAL

LEGEND

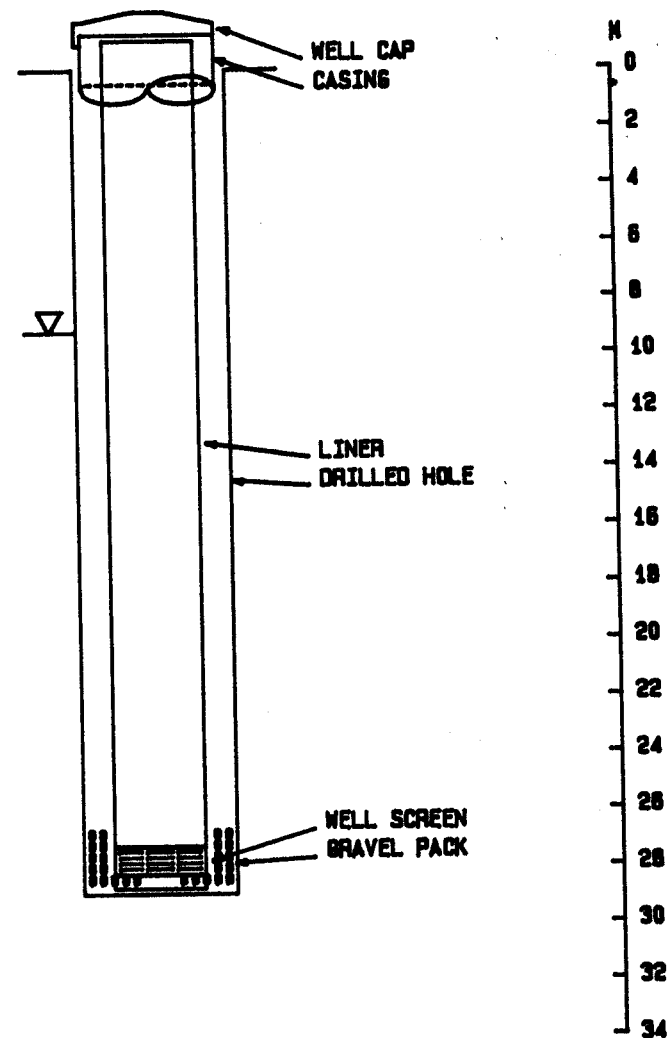
	ARG./PLAST.
	ARG./SABLE
	SILT
	SA. FIN
	SA. MOY.
	SA. GROS.
	GRAV. FIN
	GRAV. MOY.
	GRAV. GROS.
	SA. DUNAIRE
	SA. GRAVIL.
	GRES/SABLE
	GRES/SA/CALC
	CALCAIRE
	GRES FER.
	SA. COQUIL.
	MARNE
	SOL ORGAN.
	LATERITE
	SCHISTE

LITHOLOGY



SCALE: 1 CM = 2 M

WELL CONSTRUCTION DETAILS



△ STATIC WATER LEVEL

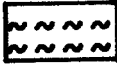
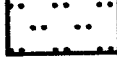
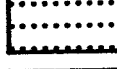
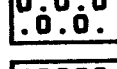
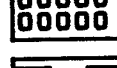
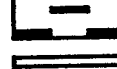
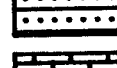
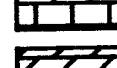
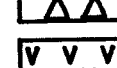
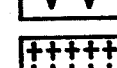
PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: MATAM 48

COUPE GEOLOGIQUE ET TECHNIQUE

USAID/DAKAR/SENEGAL

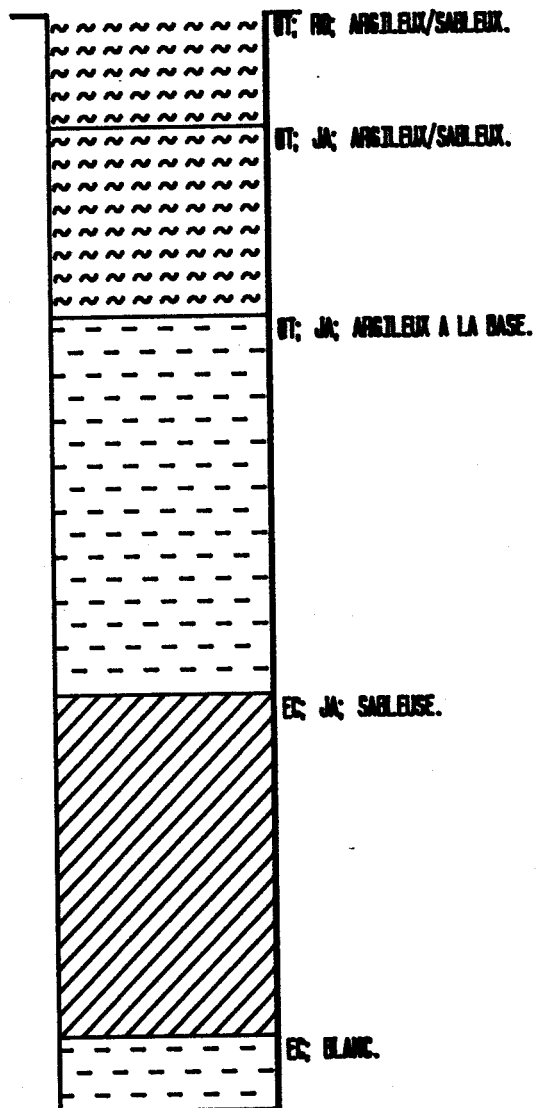
FIGURE: DA239

LEGEND

	ARG./PLAST.	0
	ARG./SABLE	2
	SILT	4
	SA. FIN	6
	SA. MOY.	8
	SA. GROS.	10
	GRAV. FIN	12
	GRAV. MOY.	14
	GRAV. GROS.	16
	SA. DUNAIRE	18
	SA. GRAVIL.	20
	GRES/SABLE	22
	GRES/SA/CALC	24
	CALCAIRE	26
	GRES FER.	28
	SA. COQUIL.	30
	MARNE	32
	SOL ORGAN.	34
	LATERITE	
	SCHISTE	

SCALE IN M

DA239



PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: MATAM 4A

LITHOLOGY

USAID/DAKAR/SENEGAL

FIGURE DA239

WELL LITHOLOGY

PROJECT: OMVS/USAID
 LOCATION: MATAM 4B
 WELL NO.: DA239
 DRILLER: SAFOR

FILE NO.: 625-0958
 ELEVATION (M): 15.176
 DATE DRILLED: 19/11/87
 TYPE OF RIG: ROTARY

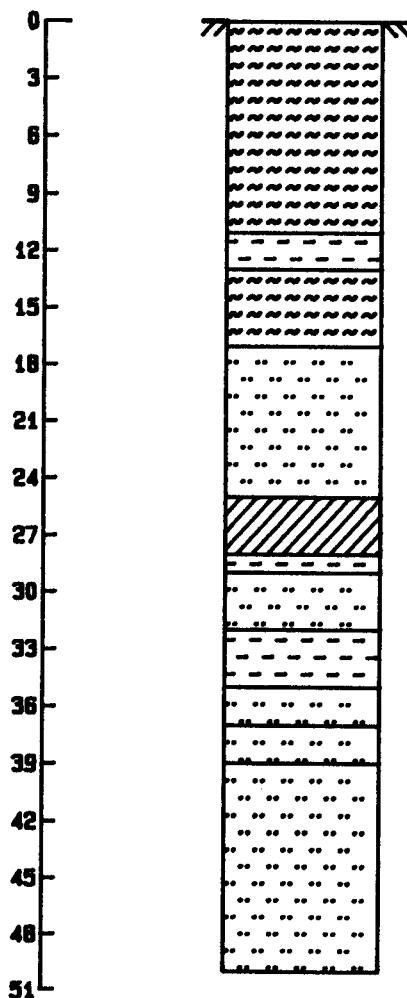
DEPTH (M)		ELEVATION (M)		THICKNESS	LITHOLOGY
FROM	TO	FROM	TO		
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3.00	8.00	12.18	7.18	5.00	SILT,GT; JA; ARGILEUX/S
8.00	18.00	7.18	-2.82	10.00	SA. FIN,GT; JA; ARGILEU
18.00	27.00	-2.82	-11.82	9.00	ARG./PLAST.,EC; JA; SAB
27.00	29.00	-11.82	-13.82	2.00	SA. FIN,EC; BLANC.

USAID/DAKAR/SENEGAL

LEGEND

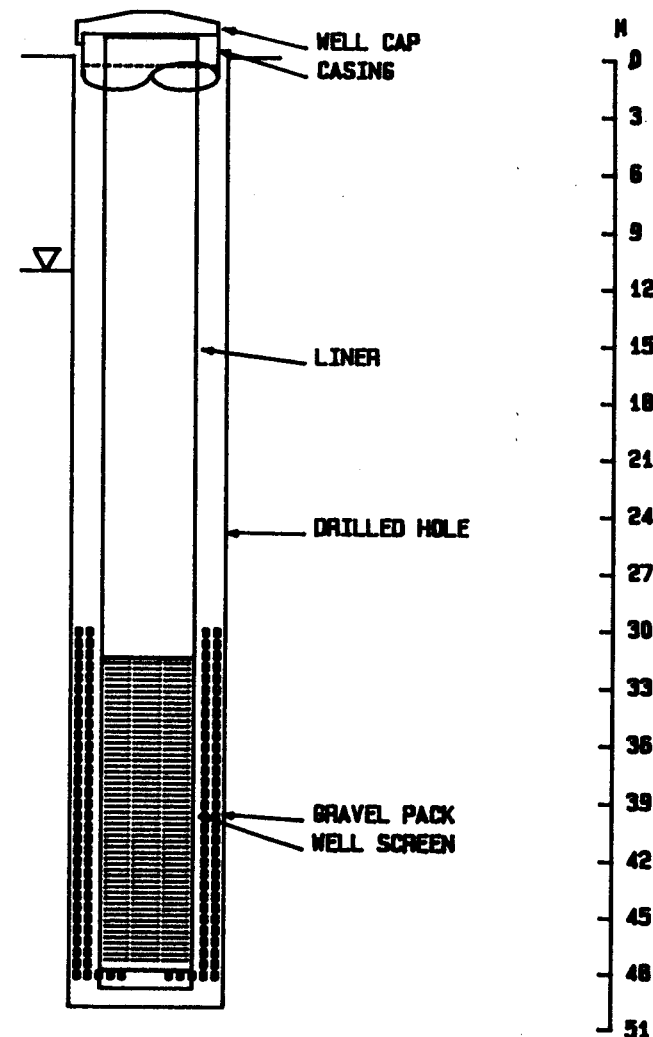
	ARG./PLAST.
	ARG./SABLE
	SILT
	SA. FIN
	SA. MOY.
	SA. GROS.
	GRAV. FIN
	GRAV. MOY.
	GRAV. GROS.
	SA. DUNAIRE
	SA. GRAVIL.
	GRES/SABLE
	GRES/SA/CALC
	CALCAIRE
	GRES FER.
	SA. COQUIL.
	MARNE
	SOL ORGAN.
	LATERITE
	SCHISTE

LITHOLOGY



SCALE: 1 CM = 3 M

WELL CONSTRUCTION DETAILS



▽ STATIC WATER LEVEL

PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: MATAM 48

COUPE GEOLOGIQUE ET TECHNIQUE

USAID/DAKAR/SENEGAL

FIGURE: DA241

WELL LITHOLOGY

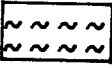
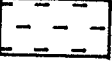
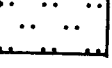
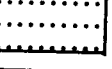
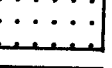
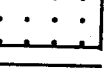
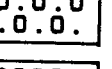
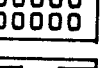
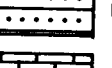
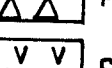
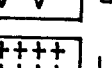
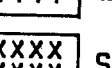
PROJECT:OMVS/USAID
LOCATION:MATAN 4B
WELL NO.:DA242
DRILLER:SAFOR

FILE NO.:625-0958
ELEVATION (M): 15.617
DATE DRILLED:13/11/87
TYPE OF RIG:ROTARY

DEPTH (M)		ELEVATION (M)		THICKNESS (M)	LITHOLOGY
FROM	TO	FROM	TO		
0.00	11.00	15.62	4.62	11.00	SILT,GT; ARGILEUX/SABLE
11.00	13.00	4.62	2.62	2.00	SA. FIN,GT; GR; ARGILEU
13.00	17.00	2.62	-1.38	4.00	SILT,GT; GR; SABLEUX.
17.00	25.00	-1.38	-9.38	8.00	SA. FIN,EC; GR; MOY. SI
25.00	29.00	-9.38	-13.38	4.00	SA. FIN,EC; GR; MOY. SI
29.00	30.00	-13.38	-14.38	1.00	ARG./PLAST.,EC; GR; +GR

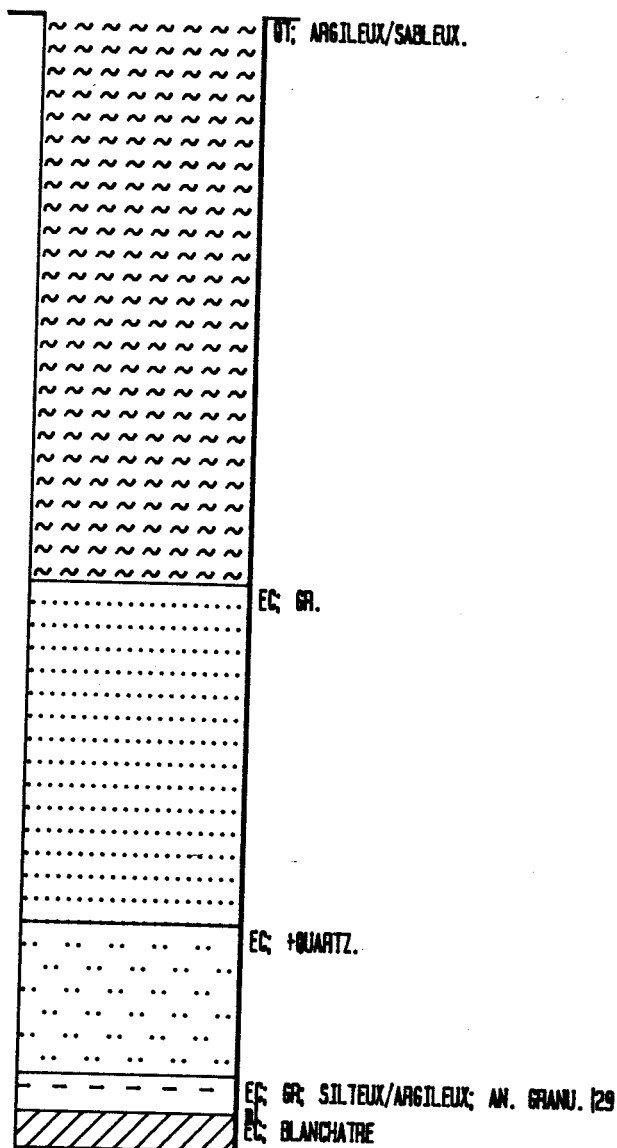
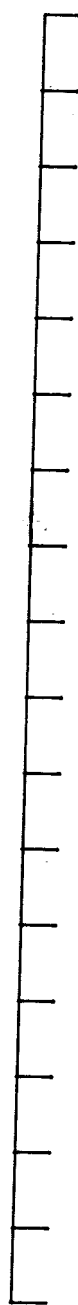
USAID/DAKAR/SENEGAL

LEGEND

	ARG./PLAST.
	ARG./SABLE
	SILT
	SA. FIN
	SA. MOY.
	SA. GROS.
	GRAV. FIN
	GRAV. MOY.
	GRAV. GROS.
	SA. DUNAIRE
	SA. GRAVIL.
	GRES/SABLE
	GRES/SA/CALC
	CALCAIRE
	GRES FER.
	SA. COQUIL.
	MARNE
	SOL ORGAN.
	LATERITE
	SCHISTE

SCALE IN M

DA244



PROJECT: OMVS

FILE:

LOCATION: MATAM 4B

LITHOLOGY

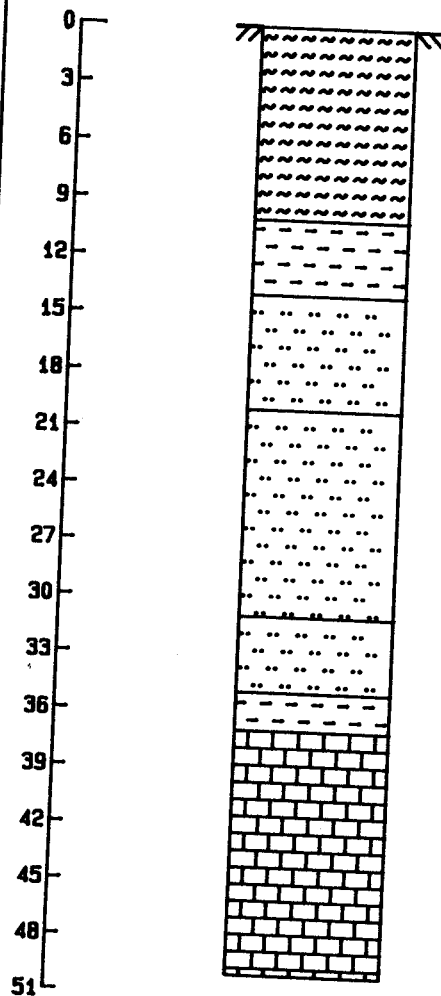
USAID/DAKAR/SENEGAL

FIGURE DA244

LEGEND

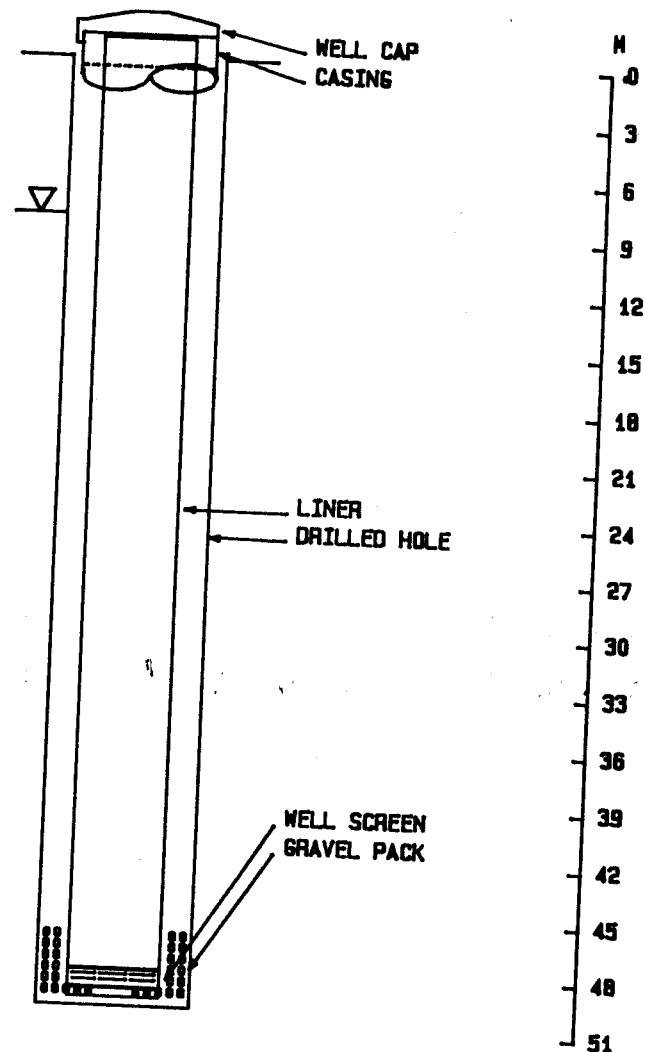
	ARG./PLAST.
	ARG./SABLE
	SILT
	SA. FIN
	SA. MOY.
	SA. GROS.
	GRAV. FIN
	GRAV. MOY.
	GRAV. GROS.
	SA. DUNAIRE
	SA. GRAVIL.
	GRES/SABLE
	GRES/SA/CALC
	CALCAIRE
	GRES FER.
	SA. COQUIL.
	MARNE
	SOL ORGAN.
	LATERITE
	SCHISTE

LITHOLOGY



SCALE: 1 CM = 3 M

WELL CONSTRUCTION DETAILS



△ STATIC WATER LEVEL

PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: MATAM 48

COUPE GEOLOGIQUE ET TECHNIQUE

USAID/DAKAR/SENEGAL

FIGURE: GA0340

WELL LITHOLOGY

PROJECT:OMVS/USAID
LOCATION:MATAM 4B
WELL NO.:GA0340
DRILLER:SAFOR

FILE NO.:625-0958
ELEVATION (M): 15.635
DATE DRILLED:13/12/87
TYPE OF RIG:ROTARY

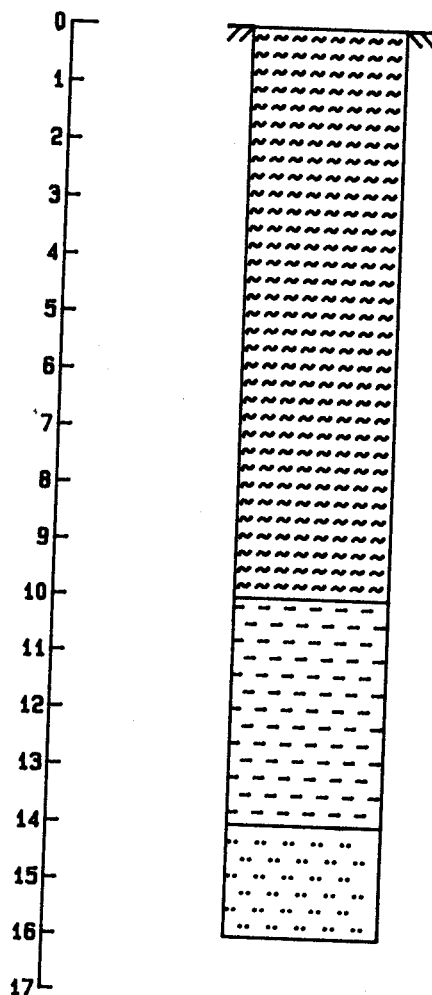
DEPTH (M)		ELEVATION (M)		THICKNESS	LITHOLOGY
FROM	TO	FROM	TO		
0.00	10.00	15.64	5.64	10.00	SILT,QT; BR; ARGILEUX;
10.00	14.00	5.64	1.64	4.00	SA. FIN,QT; GR; MOY. SI
14.00	20.00	1.64	-4.37	6.00	SA. MOY.,QT; GR; SILTED
20.00	31.00	-4.37	-15.37	11.00	SA. MOY.,QT; GR; GROSSI
31.00	35.00	-15.37	-19.37	4.00	SA. MOY.,QT; MO/VE; HET
35.00	37.00	-19.37	-21.37	2.00	SA. FIN,QT; BE.
37.00	50.00	-21.37	-34.36	13.00	CALCAIRE,EM; BLANC/OCRE

USAID/DAKAR/SENEGAL

LEGEND

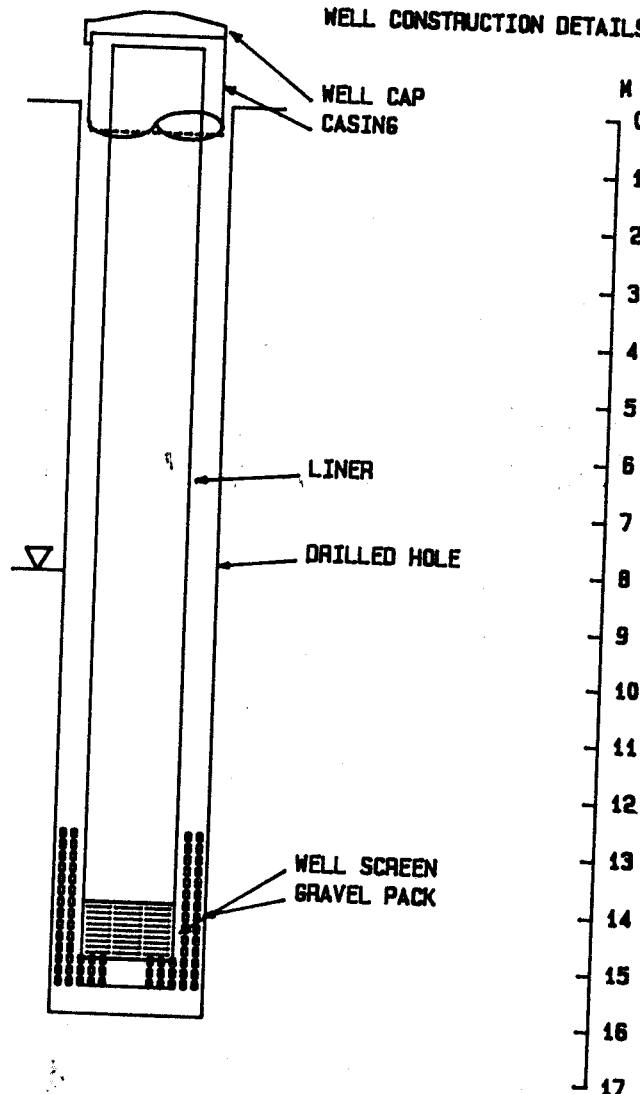
	ARG./PLAST.
	ARG./SABLE
	SILT
	SA. FIN
	SA. MOY.
	SA. GROS.
	GRAV. FIN
	GRAV. MOY.
	GRAV. GROS.
	SA. DUNAIRE
	SA. GRAVIL.
	GRES/SABLE
	GRES/SA/CALC
	CALCAIRE
	GRES FER.
	SA. COQUIL.
	MARNE
	SOL ORGAN.
	LATERITE
	SCHISTE

LITHOLOGY



SCALE: 1 CM = 1 M

WELL CONSTRUCTION DETAILS



△ STATIC WATER LEVEL

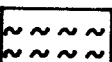
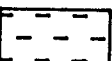
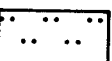
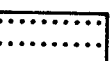
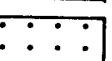
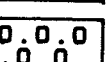
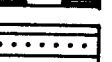
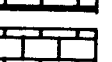
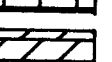
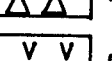
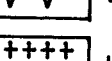
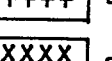
PROJECT: OMVS/USAID
FILE: 825-0958
LOCATION: MATAM 48

COUPE GEOLOGIQUE ET TECHNIQUE

USAID/DAKAR/SENEGAL

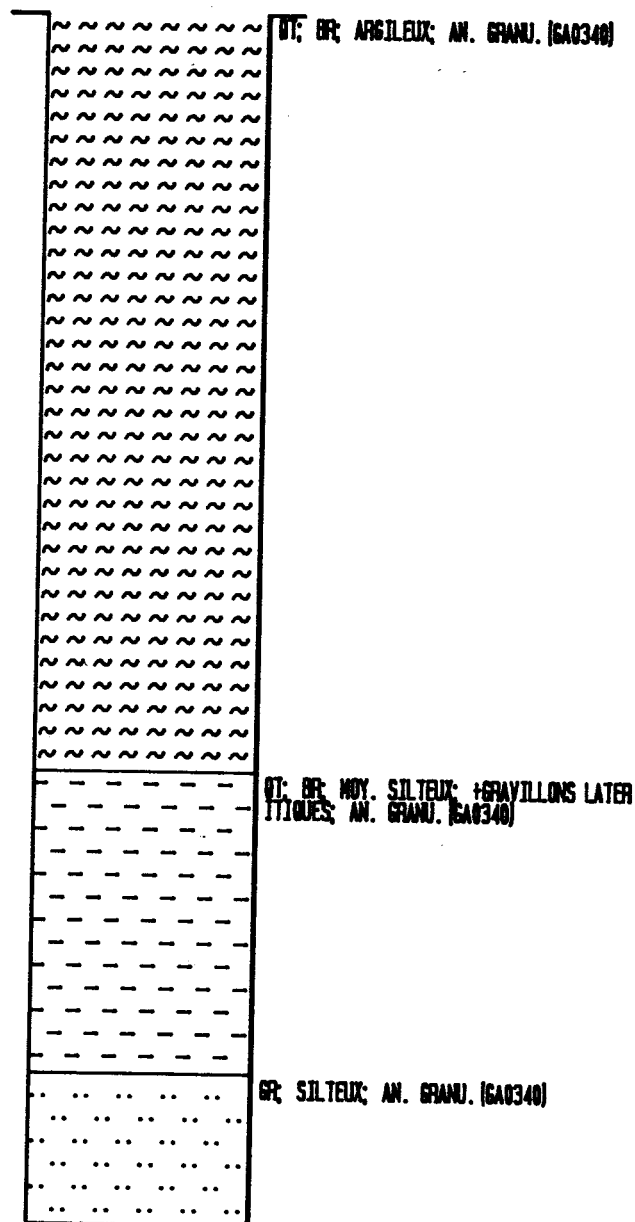
FIGURE: GA0342

LEGEND

	ARG./PLAST.	0
	ARG./SABLE	1
	SILT	2
	SA. FIN	3
	SA. MOY.	4
	SA. GROS.	5
	GRAV. FIN	6
	GRAV. MOY.	7
	GRAV. GROS.	8
	SA. DUNAIRE	9
	SA. GRAVIL.	10
	GRES/SABLE	11
	GRES/SA/CALC	12
	CALCAIRE	13
	GRES FER.	14
	SA. COQUIL.	15
	MARNE	16
	SOL ORGAN.	17
	LATERITE	
	SCHISTE	

SCALE IN M

GA0342



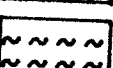
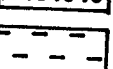
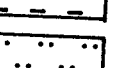
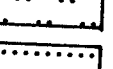
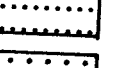
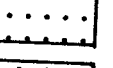
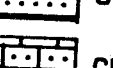
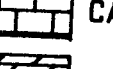
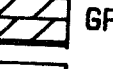
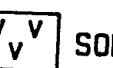
PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: MATAM 4B

LITHOLOGY

USAID/DAKAR/SENEGAL

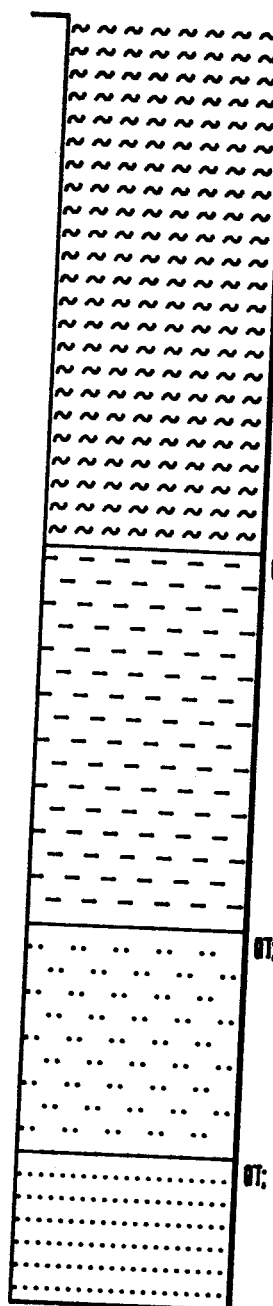
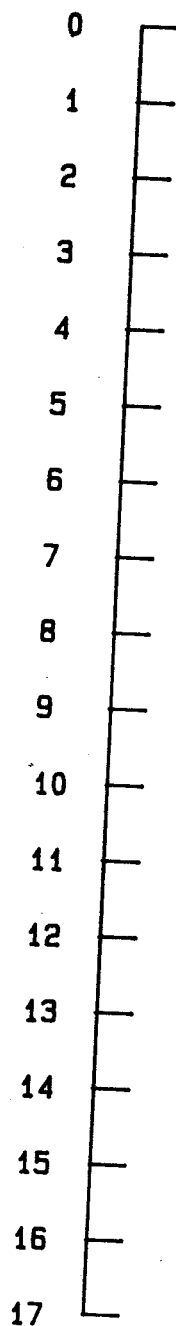
FIGURE GA0342

LEGEND

	ARG./PLAST.
	ARG./SABLE
	SILT
	SA. FIN
	SA. MOY.
	SA. GROS.
	GRAV. FIN
	GRAV. MOY.
	GRAV. GROS.
	SA. DUNAIRE
	SA. GRAVIL.
	GRES/SABLE
	GRES/SA/CALC
	CALCAIRE
	GRES FER.
	SA. COQUIL.
	MARNE
	SOL ORGAN.
	LATERITE
	SCHISTE

SCALE IN M

GA0344



OT; BE; ARGILEUX; SABLEUX A LA BASE.

OT; BE; SILTEUX.

OT; BE.

OT; BE; GRAINS DE QUARTZ.

PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: MATAM 4B

LITHOLOGY

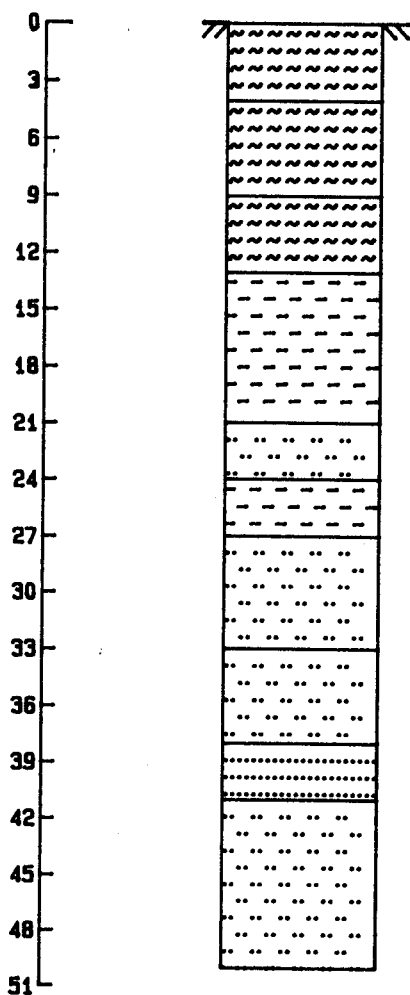
USAID/DAKAR/SENEGAL

FIGURE GA0344

LEGEND

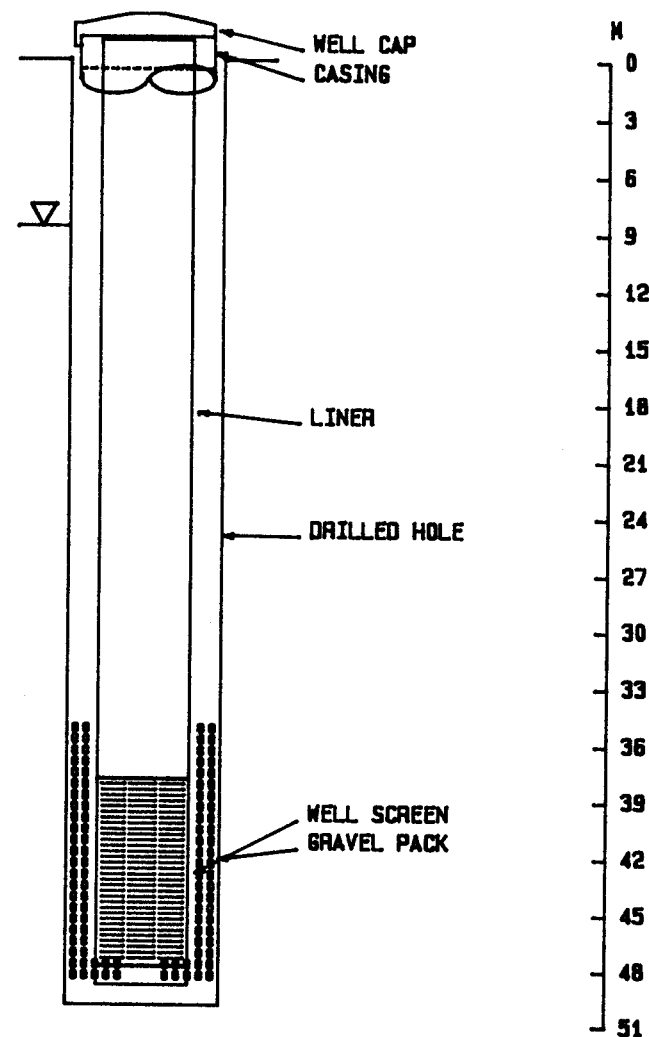
	ARG./PLAST.
	ARG./SABLE
	SILT
	SA. FIN
	SA. MOY.
	SA. GROS.
	GRAV. FIN
	GRAV. MOY.
	GRAV. GROS.
	SA. DUNAIRE
	SA. GRAVIL.
	GRES/SABLE
	GRES/SA/CALC
	CALCAIRE
	GRES FER.
	SA. COQUIL.
	MARNE
	SOL ORGAN.
	LATERITE
	SCHISTE

LITHOLOGY



SCALE: 1 CM = 3 M

WELL CONSTRUCTION DETAILS



PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: MATAM 48

COUPE GEOLOGIQUE ET TECHNIQUE

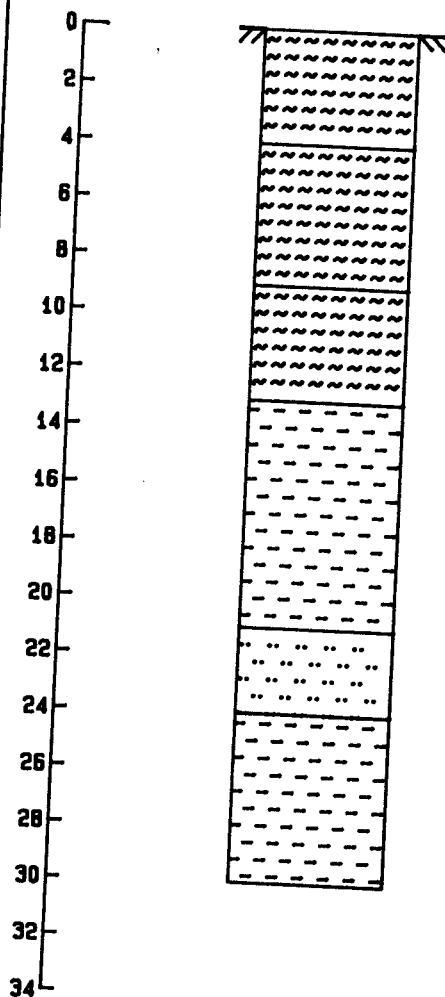
USAID/DAKAR/SENEGAL

FIGURE: GA0345

LEGEND

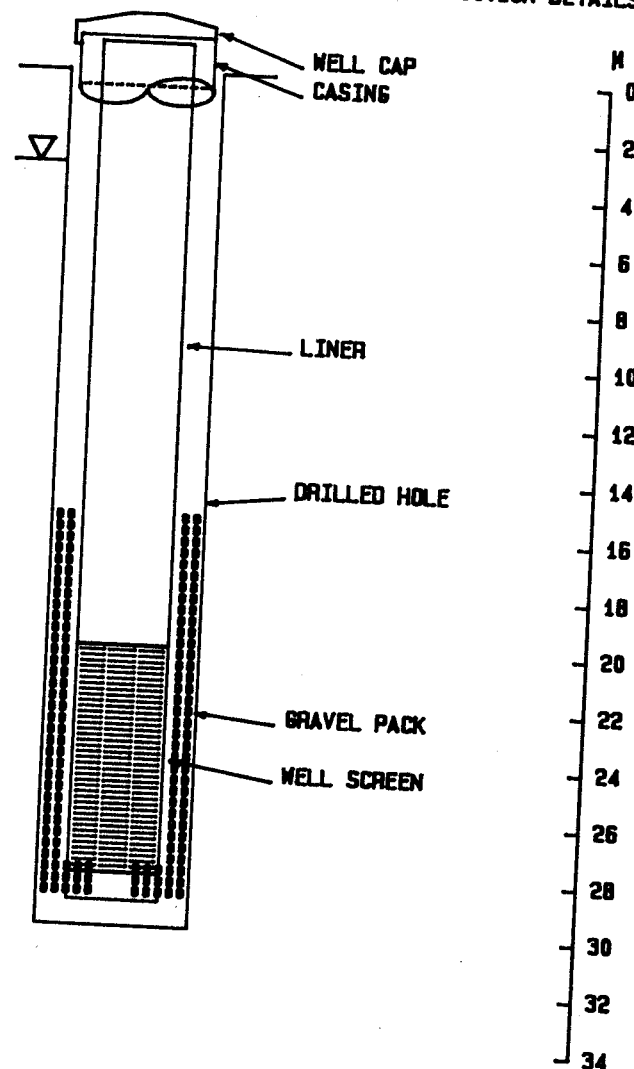
	ARG./PLAST.
	ARG./SABLE
	SILT
	SA. FIN
	SA. MOY.
	SA. GROS.
	GRAV. FIN
	GRAV. MOY.
	GRAV. GROS.
	SA. DUNAIRE
	SA. GRAVIL.
	GRES/SABLE
	GRES/SA/CALC
	CALCAIRE
	GRES FER.
	SA. COQUIL.
	MARNE
	SOL ORGAN.
	LATERITE
	SCHISTE

LITHOLOGY



SCALE: 1 CM = 2 M

WELL CONSTRUCTION DETAILS



▽ STATIC WATER LEVEL

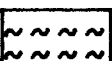
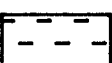
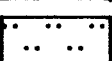
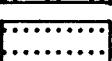
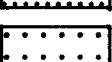
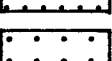
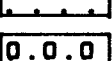
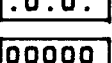
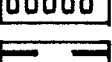
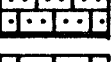
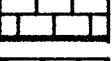
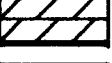
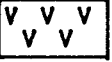
PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: MATAM 4B

COUPE GEOLOGIQUE ET TECHNIQUE

USAID/DAKAR/SENEGAL

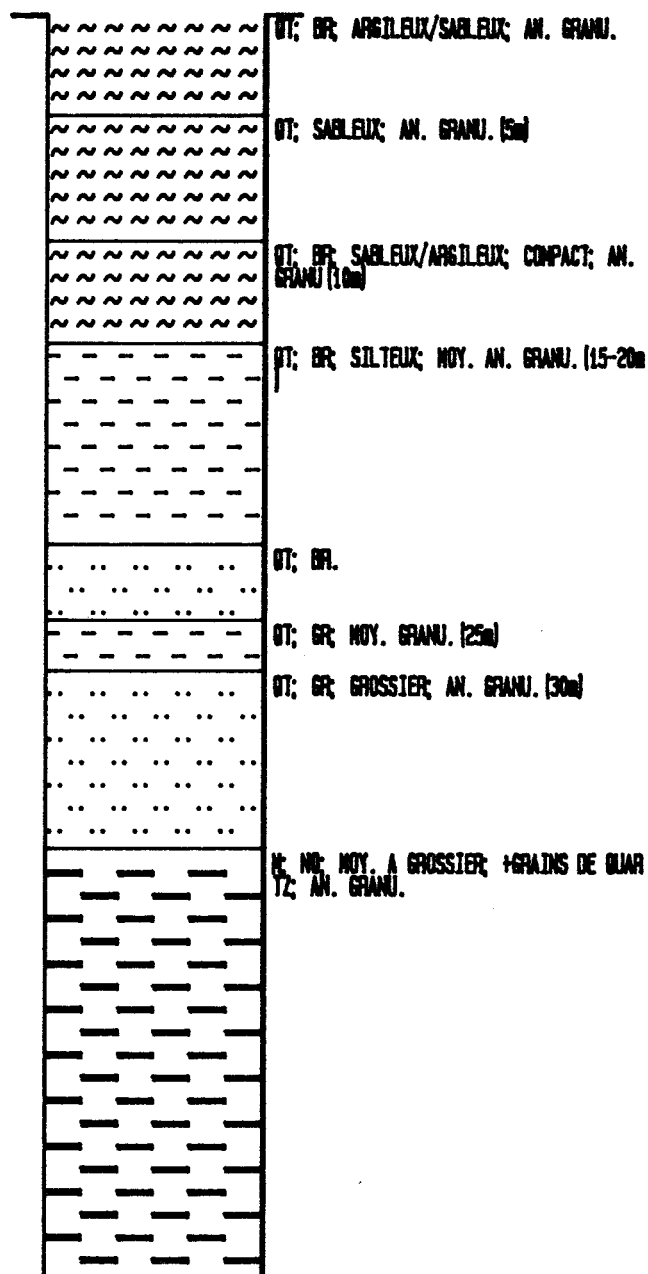
FIGURE: GA0346

LEGEND

	ARG./PLAST.	0
	ARG./SABLE	3
	SILT	6
	SA. FIN	9
	SA. MOY.	12
	SA. GROS.	15
	GRAV. FIN	18
	GRAV. MOY.	21
	GRAV. GROS.	24
	SA. DUNAIRE	27
	SA. GRAVIL.	30
	GRES/SABLE	33
	GRES/SA/CALC	36
	CALCAIRE	39
	GRES FER.	42
	SA. COQUIL.	45
	MARNE	48
	SOL ORGAN.	51
	LATERITE	
	SCHISTE	

SCALE IN M

GA0347



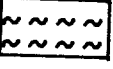
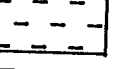
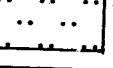
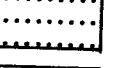
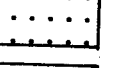
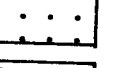
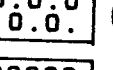
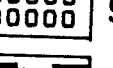
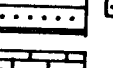
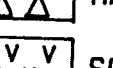
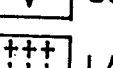
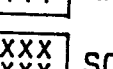
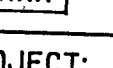
PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: MATAM 4B

LITHOLOGY

USAID/DAKAR/SENEGAL

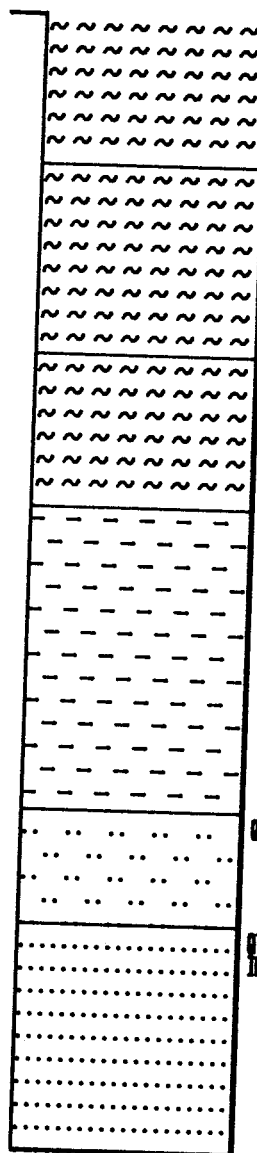
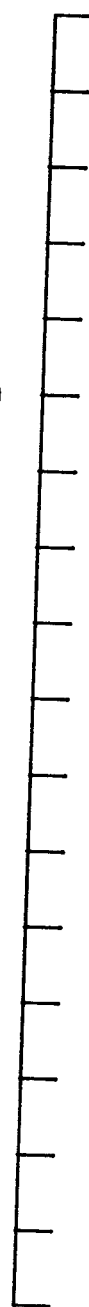
FIGURE GA0347

LEGEND

	ARG./PLAST.
	ARG./SABLE
	SILT
	SA. FIN
	SA. MOY.
	SA. GROS.
	GRAV. FIN
	GRAV. MOY.
	GRAV. GROS.
	SA. DUNAIRE
	SA. GRAVIL.
	GRES/SABLE
	GRES/SA/CALC
	CALCAIRE
	GRES FER.
	SA. COQUIL.
	MARNE
	SOL ORGAN.
	LATERITE
	SCHISTE

SCALE IN M

GA0348



UT; BR; ARGILEUX; AN. GRANU.

UT; SABLEUX; AN. GRANU (GA0347)

UT; SABLEUX/ARG. COMPACT; AN. GRANU. (GA0347)

UT; BR; SILTEUX.

UT; NO; SILTEUX.

UT; GRAINS DE QUARTZ; ET GRENAILLES NO IRES; AN. GRANU.

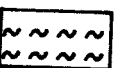
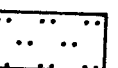
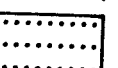
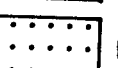
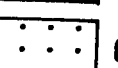
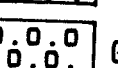
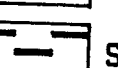
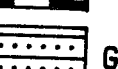
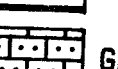
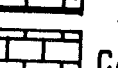
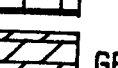
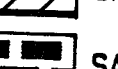
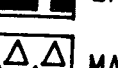
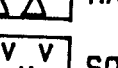
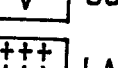
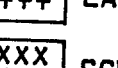
PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: MATAM 4B

LITHOLOGY

USAID/DAKAR/SENEGAL

FIGURE GA0348

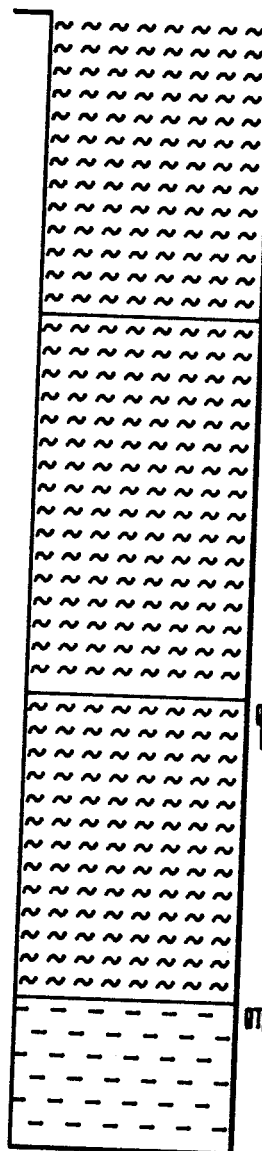
LEGEND

	ARG./PLAST.
	ARG./SABLE
	SILT
	SA. FIN
	SA. MOY.
	SA. GROS.
	GRAV. FIN
	GRAV. MOY.
	GRAV. GROS.
	SA. DUNAIRE
	SA. GRAVIL.
	GRES/SABLE
	GRES/SA/CALC
	CALCAIRE
	GRES FER.
	SA. COQUIL.
	MARNE
	SOL ORGAN.
	LATERITE
	SCHISTE

SCALE IN M

GA0349

0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17



UT; BR; ARGILEUX; AN. GRANU.

UT; BR; SABLEUX; AN. GRANU.

UT; BR; SABLEUX/ARG. COMPACT; AN. GRANU
(GA0347)

UT; BR; MOY. AN. GRANU.

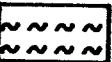
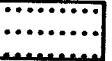
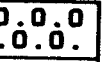
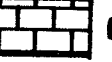
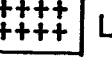
PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: MATAM 4B

LITHOLOGY

USAID/DAKAR/SENEGAL

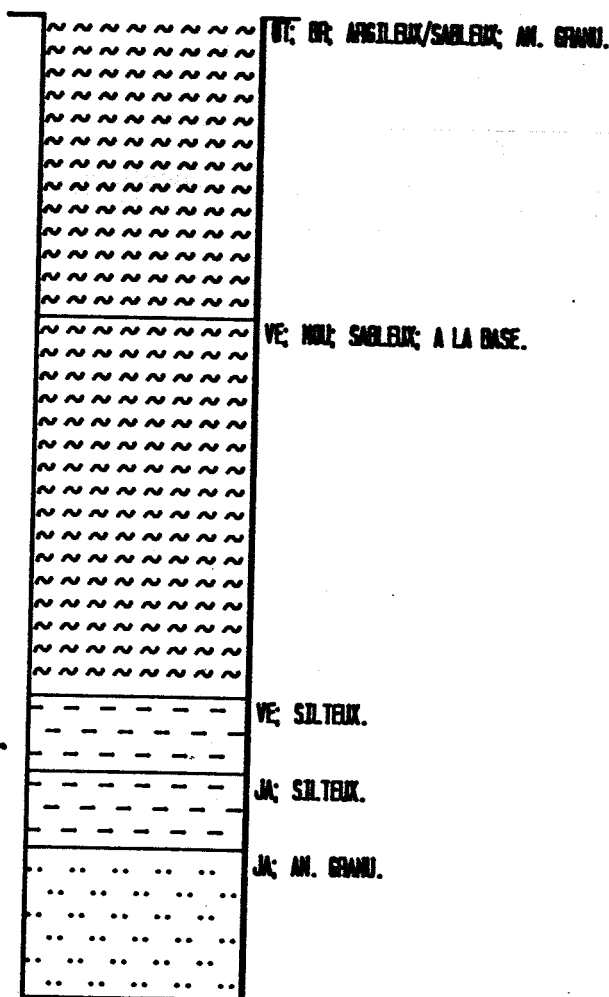
FIGURE GA0349

LEGEND

	ARG./PLAST.	0
	ARG./SABLE	1
	SILT	2
	SA. FIN	3
	SA. MOY.	4
	SA. GROS.	5
	GRAV. FIN	6
	GRAV. MOY.	7
	GRAV. GROS.	8
	SA. DUNAIRE	9
	SA. GRAVIL.	10
	GRES/SABLE	11
	GRES/SA/CALC	12
	CALCAIRE	13
	GRES FER.	14
	SA. COQUIL.	15
	MARNE	16
	SOL ORGAN.	17
	LATERITE	
	SCHISTE	

SCALE IN M

GA0351



PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: MATAM 4B

LITHOLOGY

USAID/DAKAR/SENEGAL

FIGURE GA0351

WELL LITHOLOGY

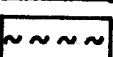
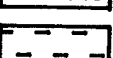
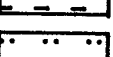
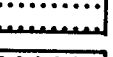
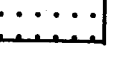
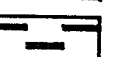
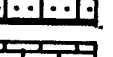
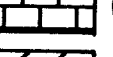
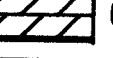
PROJECT: OMVS/USAID
LOCATION: MATAM 4B
WELL NO.: GA0351
DRILLER: SAFOR

FILE NO.: 625-0958
ELEVATION (M): 10.736
DATE DRILLED: 28/10/87
TYPE OF RIG: ROTARY

DEPTH (M)		ELEVATION (M)		THICKNESS	LITHOLOGY
FROM	TO	FROM	TO		
0.00	4.00	10.74	6.74	4.00	SILT, GT; BR; ARGILEUX/S
4.00	9.00	6.74	1.74	5.00	SILT, VE; MOU; SABLEUX;
9.00	10.00	1.74	0.74	1.00	SA. FIN, VE; SILTEUX.
10.00	11.00	0.74	-0.26	1.00	SA. FIN, JA; SILTEUX.
11.00	13.00	-0.26	-2.26	2.00	SA. MOY., JA; AN. GRANU.

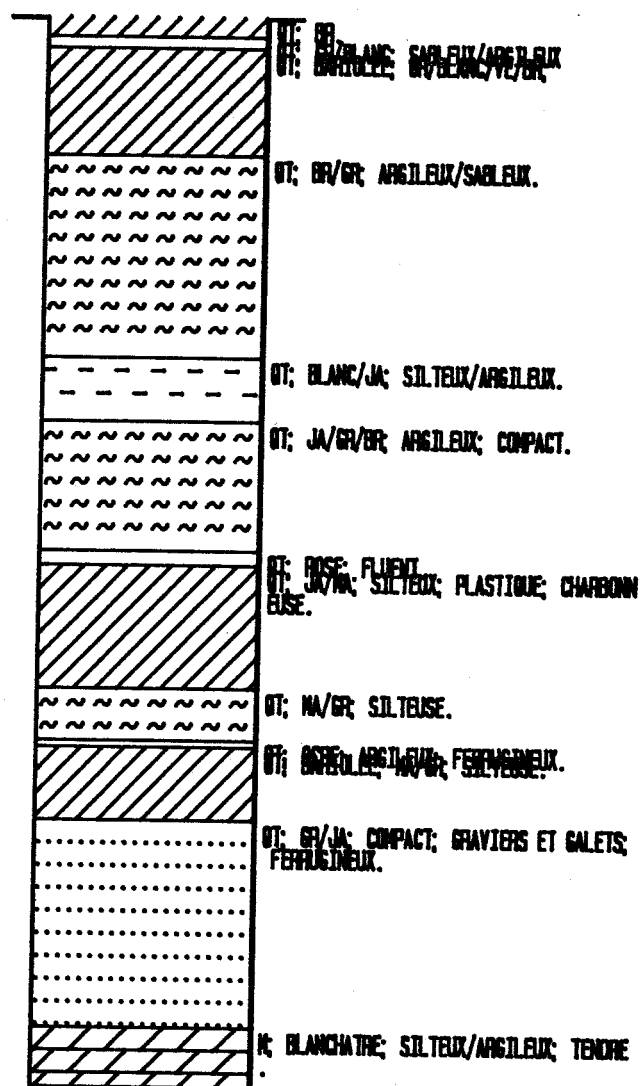
USAID/DAKAR/SENEGAL

LEGEND

	ARG./PLAST.	0
	ARG./SABLE	3
	SILT	6
	SA. FIN	9
	SA. MOY.	12
	SA. GROS.	15
	GRAV. FIN	18
	GRAV. MOY.	21
	GRAV. GROS.	24
	SA. DUNAIRE	27
	SA. GRAVIL.	30
	GRES/SABLE	33
	GRES/SA/CALC	36
	CALCAIRE	39
	GRES FER.	42
	SA. COQUIL.	45
	MARNE	48
	SOL ORGAN.	51
	LATERITE	
	SCHISTE	

SCALE IN M

ILLYF1F2



PROJECT: OMVS/USAID
 FILE: 625-0958
 LOCATION: MATAM 4B

LITHOLOGY

USAID/DAKAR/SENEGAL

FIGURE ILLYF1

WELL LITHOLOGY

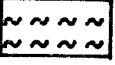
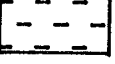
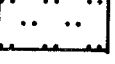
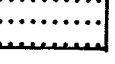
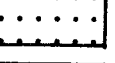
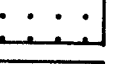
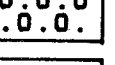
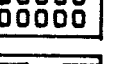
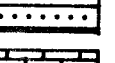
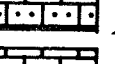
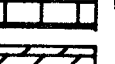
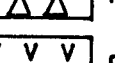
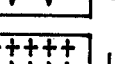
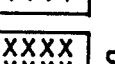
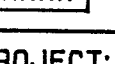
PROJECT: OMVS/USAID
LOCATION: MATAM 4B
WELL NO.: ILLYF1F2
DRILLER: SAFOR

FILE NO.: 625-0958
ELEVATION (M): 12.6
DATE DRILLED: 16/06/72
TYPE OF RIG: ROTARY

DEPTH (M)		ELEVATION (M)		THICKNESS (M)	LITHOLOGY
FROM	TO	FROM	TO		
0.00	0.80	12.60	11.80	0.80	ARG./PLAST.,QT; BR.
0.80	1.25	11.80	11.35	0.45	SILT,QT; GR/BLANC; SABL
1.25	5.50	11.35	7.10	4.25	ARG./PLAST.,QT; BARIOLE
5.50	13.50	7.10	-0.90	8.00	SILT,QT; BR/GR; ARGILEU
13.50	16.00	-0.90	-3.40	2.50	SA. FIN,QT; BLANC/JA; S
16.00	21.10	-3.40	-8.50	5.10	SILT,QT; JA/GR/BR; ARGI
21.10	21.70	-8.50	-9.10	0.60	SA. FIN,QT; ROSE; FLUEN
21.70	26.60	-9.10	-14.00	4.90	ARG./PLAST.,QT; JA/MA;
26.60	28.60	-14.00	-16.00	2.00	SILT,QT; MA/GR; SILTEUS
28.60	28.90	-16.00	-16.30	0.30	SA. FIN,QT; OCRE; ARGIL
28.90	31.80	-16.30	-19.20	2.90	ARG./PLAST.,QT; BARIOLE
31.80	40.00	-19.20	-27.40	8.20	SA. GROS.,QT; GR/JA; CO
40.00	42.45	-27.40	-29.85	2.45	GRES FER.,M; BLANCHATRE

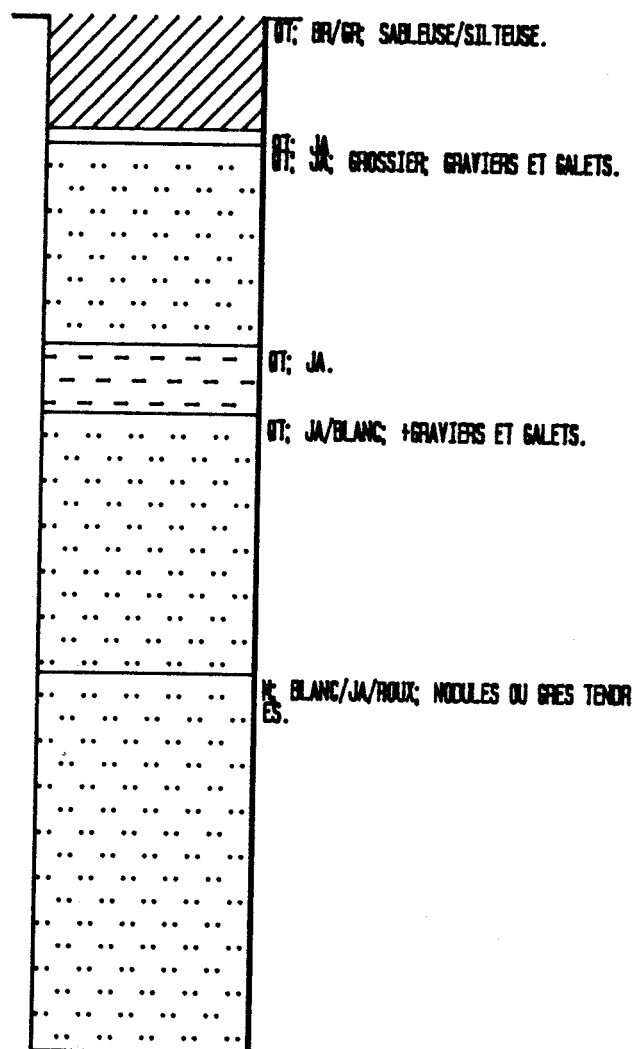
USAID/DAKAR/SENEGAL

LEGEND

	ARG./PLAST.	0
	ARG./SABLE	3
	SILT	6
	SA. FIN	9
	SA. MOY.	12
	SA. GROS.	15
	GRAV. FIN	18
	GRAV. MOY.	21
	GRAV. GROS.	24
	SA. DUNAIRE	27
	SA. GRAVIL.	30
	GRES/SABLE	33
	GRES/SA/CALC	36
	CALCAIRE	39
	GRES FER.	42
	SA. COQUIL.	45
	MARNE	48
	SOL ORGAN.	51
	LATERITE	
	SCHISTE	

SCALE IN M

ILLYF3



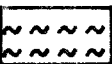
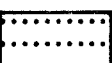
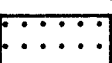
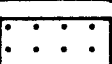
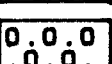
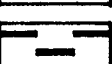
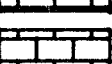
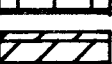
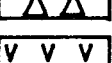
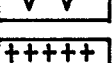
PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: MATAM 48

LITHOLOGY

USAID/DAKAR/SENEGAL

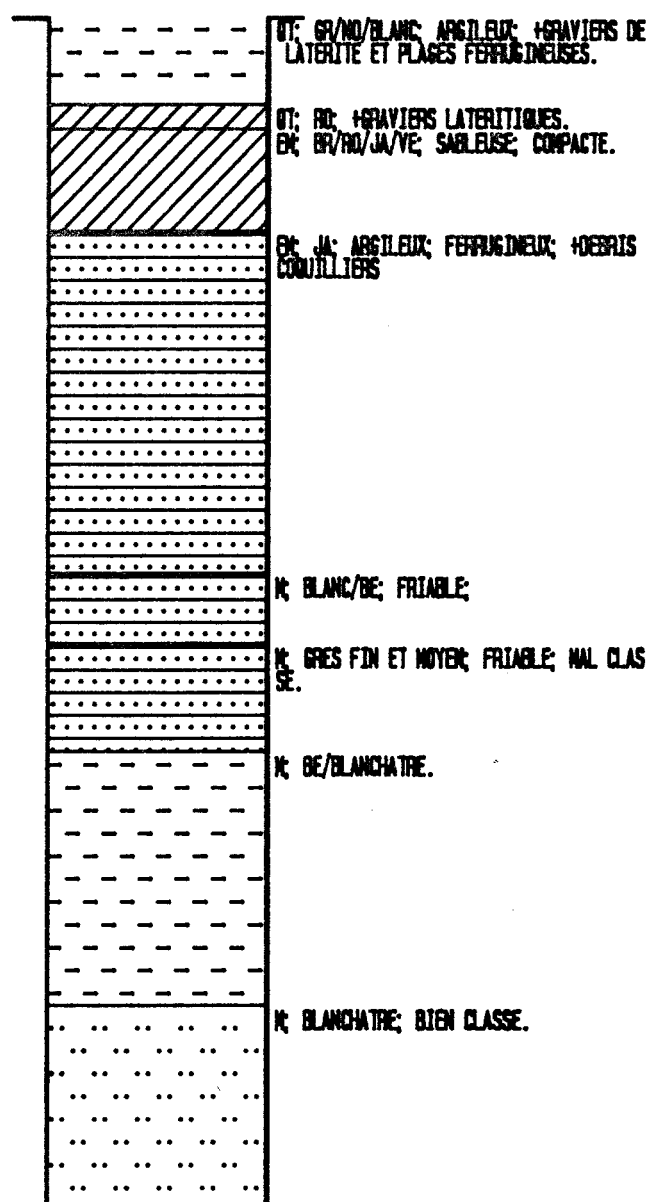
FIGURE ILLYF3

LEGEND

	ARG./PLAST.	0
	ARG./SABLE	3
	SILT	6
	SA. FIN	9
	SA. MOY.	12
	SA. GROS.	15
	GRAV. FIN	18
	GRAV. MOY.	21
	GRAV. GROS.	24
	SA. DUNAIRE	27
	SA. GRAVIL.	30
	GRES/SABLE	33
	GRES/SA/CALC	36
	CALCAIRE	39
	GRES FER.	42
	SA. COQUIL.	45
	MARNE	48
	SOL ORGAN.	51
	LATERITE	
	SCHISTE	

SCALE IN M

ILLYF4



PROJECT: OMVS/USAID
 FILE: 625-0958
 LOCATION: MATAM 4B

LITHOLOGY

USAID/DAKAR/SENEGAL

FIGURE ILLYF4

WELL LITHOLOGY

PROJECT: OMVS/USAID
LOCATION: MATAM 4B
WELL NO.: ILLYF8
DRILLER: SAFOR

FILE NO.: 625-0958
ELEVATION (M): 12.92
DATE DRILLED: 11/07/72
TYPE OF RIG: ROTARY

DEPTH (M)		ELEVATION (M)		THICKNESS (M)	LITHOLOGY
FROM	TO	FROM	TO		
0.00	2.70	12.92	10.22	2.70	ARG./PLAST.,GT; GR/BR;
2.70	4.00	10.22	8.92	1.30	SILT,GT; JA/BR; ARGILEU
4.00	7.00	8.92	5.92	3.00	SA. GROS.,GT; JA/ROSE;
7.00	9.00	5.92	3.92	2.00	SA. MOY.,GT; JA/ROSE.
9.00	11.00	3.92	1.92	2.00	SA. GROS.,GT; JA +GRAVI
11.00	12.00	1.92	0.92	1.00	SA. FIN,GT; +GRAVIER
12.00	22.00	0.92	-9.08	10.00	SA. FIN,GT; JA/ROSE; MO
22.00	27.00	-9.08	-14.08	5.00	GRES/SABLE,GT; BR/JA; +
27.00	27.80	-14.08	-14.88	0.80	SA. MOY.,GT;
27.80	30.80	-14.88	-17.88	3.00	ARG./PLAST.,M; BARIOLEE
30.80	32.60	-17.88	-19.68	1.80	GRES/SABLE,M; BARIOLE;
32.60	34.00	-19.68	-21.08	1.40	SA. FIN,M; JA; +GRES AR
34.00	36.00	-21.08	-23.08	2.00	SA. MOY.,M; JA; GROSSIE
36.00	40.00	-23.08	-27.08	4.00	SA. FIN,M; BLANC; +PASS
40.00	43.00	-27.08	-30.08	3.00	SA. MOY.,M; BLANC; +PAS

USAID/DAKAR/SENEGAL

WELL LITHOLOGY

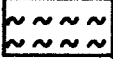
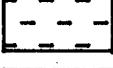
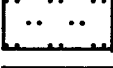
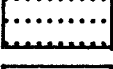
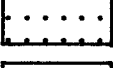
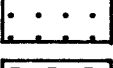
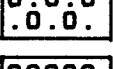
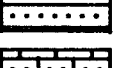
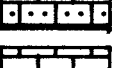
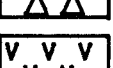
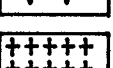
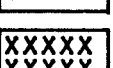
PROJECT: OMVS/USAID
LOCATION: MATAM 4B
WELL NO.: ILLYK1S
DRILLER: SAFOR

FILE NO.: 625-0958
ELEVATION (M): 16.63
DATE DRILLED: 12/06/72
TYPE OF RIG: ROTARY

DEPTH (M)		ELEVATION (M)		THICKNESS (M)	LITHOLOGY
FROM	TO	FROM	TO		
0.00	5.20	16.63	11.43	5.20	SILT,QT; JA/GR; ARGILEU
5.20	6.30	11.43	10.33	1.10	SA. FIN,QT; BE; SILTEUX
6.30	17.20	10.33	-0.57	10.90	SILT,QT; BR/NO; SABLO-A
17.20	20.30	-0.57	-3.67	3.10	SA. MOY.,QT; GROSSIER;
20.30	23.00	-3.67	-6.37	2.70	SA. GROS.,QT; +GRAVIERS

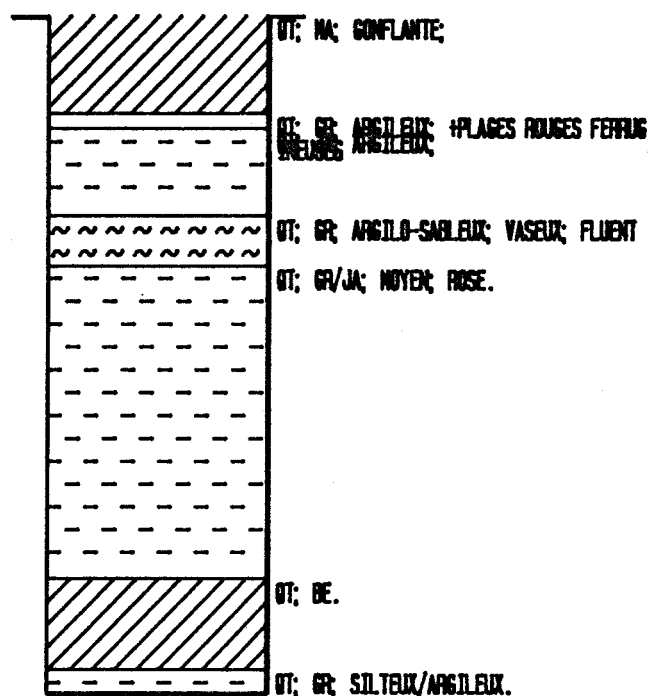
USAID/DAKAR/SENEGAL

LEGEND

	ARG./PLAST.	0
	ARG./SABLE	2
	SILT	4
	SA. FIN	6
	SA. MOY.	8
	SA. GROS.	10
	GRAV. FIN	12
	GRAV. MOY.	14
	GRAV. GROS.	16
	SA. DUNAIRE	18
	SA. GRAVIL.	20
	GRES/SABLE	22
	GRES/SA/CALC	24
	CALCAIRE	26
	GRES FER.	28
	SA. COQUIL.	30
	MARNE	32
	SOL ORGAN.	34
	LATERITE	
	SCHISTE	

SCALE IN M

ILLYK3S



PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: MATAM 4B

LITHOLOGY

USAID/DAKAR/SENEGAL

FIGURE ILLYK3

WELL LITHOLOGY

PROJECT: OMVS/USAID
LOCATION: MATAM 4B
WELL NO.: ILLYK3S
DRILLER: SAFOR

FILE NO.: 625-0958
ELEVATION (M): 12.37
DATE DRILLED: 08/06/72
TYPE OF RIG: ROTARY

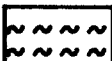
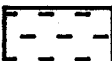
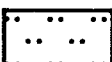
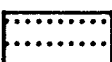
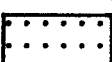
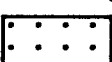
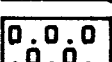
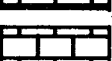
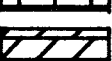
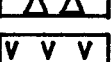
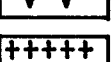
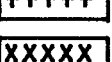
22

DEPTH (M)		ELEVATION (M)		THICKNESS (M)	LITHOLOGY
FROM	TO	FROM	TO		
0.00	2.60	12.37	9.77	2.60	ARG./PLAST.,QT; MA; GOM
2.60	3.00	9.77	9.37	0.40	SILT,QT; GR; ARGILEUX;
3.00	5.30	9.37	7.07	2.30	SA. FIN,QT; JA; ARGILEU
5.30	6.60	7.07	5.77	1.30	SILT,QT; GR; ARGILO-SAB
6.60	14.84	5.77	-2.47	8.24	SA. FIN,QT; GR/JA; MOYE
14.84	17.24	-2.47	-4.87	2.40	ARG./PLAST.,QT; BE.
17.24	17.89	-4.87	-5.52	0.65	SA. FIN,QT; GR; SILTEUX

2

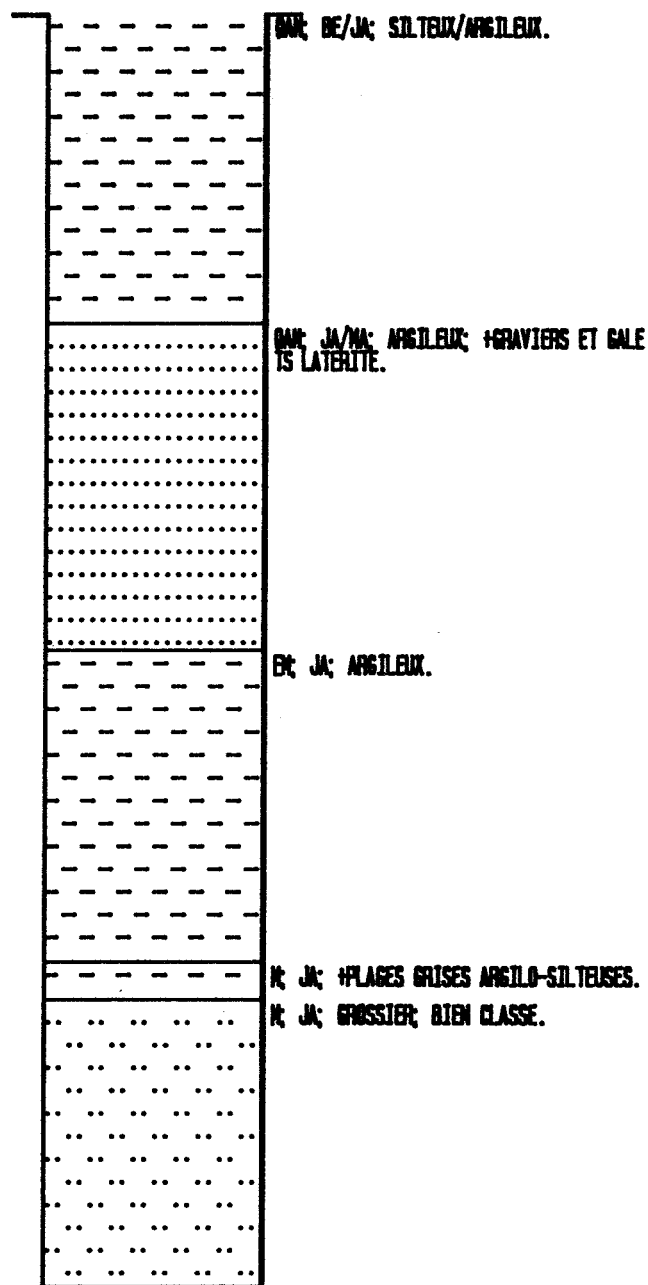
USAID/DAKAR/SENEGAL

LEGEND

	ARG./PLAST.	0
	ARG./SABLE	1
	SILT	2
	SA. FIN	3
	SA. MOY.	4
	SA. GROS.	5
	GRAV. FIN	6
	GRAV. MOY.	7
	GRAV. GROS.	8
	SA. DUNAIRE	9
	SA. GRAVIL.	10
	GRES/SABLE	11
	GRES/SA/CALC	12
	CALCAIRE	13
	GRES FER.	14
	SA. COQUIL.	15
	MARNE	16
	SOL ORGAN.	17
	LATERITE	
	SCHISTE	

SCALE IN M

ILLYK9S



PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: MATAM 4B

LITHOLOGY

USAID/DAKAR/SENEGAL

FIGURE ILLYK9

WELL LITHOLOGY

PROJECT: OMVS/USAID
LOCATION: MATAM 4B
WELL NO.: ILLYK9S
DRILLER: SAFOR

FILE NO.: 625-0958
ELEVATION (M): 16.18
DATE DRILLED: 19/06/72
TYPE OF RIG: ROTARY

DEPTH (M)		ELEVATION (M)		THICKNESS (M)	LITHOLOGY
FROM	TO	FROM	TO		
0.00	4.10	16.18	12.08	4.10	SA. FIN, GAM; BE/JA; SIL
4.10	8.40	12.08	7.78	4.30	SA. GROS., GAM; JA/MA; A
8.40	12.50	7.78	3.68	4.10	SA. FIN, EM; JA; ARGILEU
12.50	13.00	3.68	3.18	0.50	SA. FIN, M; JA; +PLAGES
13.00	16.80	3.18	-0.62	3.80	SA. MOY., M; JA; GROSSIE

USAID/DAKAR/SENEGAL

ORGANISATION POUR LA MISE EN VALEUR DU FLEUVE SENEGAL OMVS
DIRECTION DES INFRASTRUCTURES REGIONALES DIR
CELLULE EAUX SOUTERRAINES
PROJET OMVS/USAID 625-0958

REPERTOIRE HYDROGEOLOGIQUE

CARTE TOPOGRAPHIQUE 1:50,000

15 MATAM 4B

ANNEXE # 2

ANALYSES GRANULOMETRIQUES

- * Résultats des analyses granulométriques
- * Courbes granulométriques

PROJET OMVS/USAID
625-0958

RESULTATS DES ANALYSES GRANULOMETRIQUES

Responsable des prélèvements: SAFOR

Responsable des analyses: SAED/ Laboratoire de ROSS- BETHIO

Fichier: GRANULJ.FIC

Page .1. de .4.

PIEZO #	HORIZON B1/B2	% POIDS/ CLASSE GRANULOMETRIQUE					% POIDS TOTAL
		ARGILE	LIMON FIN	LIMON GROSSIER	SABLE FIN	SABLE GROSSIER	
GA 34Ø	B1	27,2Ø	17,5Ø	48,15	5,25	1,9Ø	1ØØ
GA 34Ø	B2	17,2Ø	1Ø,ØØ	19,45	43,35	1Ø,ØØ	1ØØ
GA 34Ø	10m	Ø,ØØ	2,2Ø	8,7Ø	58,3Ø	3Ø,8Ø	1ØØ
GA 34Ø	15m	Ø,ØØ	2,2Ø	9,2Ø	27,25	61,35	1ØØ
GA 34Ø	20m	Ø,ØØ	2,2Ø	3,55	18,95	75,3Ø	1ØØ
GA 34Ø	25m	Ø,ØØ	2,2Ø	6,95	15,9Ø	74,95	1ØØ
GA 34Ø	30m	Ø,ØØ	Ø,ØØ	8,55	6,95	84,5Ø	1ØØ
GA 34Ø	35m	Ø,ØØ	2,2Ø	4,25	23,45	7Ø,1Ø	1ØØ
GA 34Ø	40m	9,7Ø	5,ØØ	14,ØØ	46,1Ø	25,2Ø	1ØØ
GA 34Ø	45m	12,2Ø	7,5Ø	14,3Ø	38,75	27,25	1ØØ
GA 346	B1	4Ø,4Ø	4,3Ø	47,1Ø	7,4Ø	Ø,8Ø	1ØØ
GA 346	B2	2,9Ø	4,3Ø	4,5Ø	34,7Ø	53,6Ø	1ØØ
GA 347	B1	2Ø,4Ø	21,8Ø	43,15	13,ØØ	1,65	1ØØ
GA 347	B2	Ø,4Ø	1,4Ø	6,6Ø	11,5Ø	79,7Ø	99,6
GA 347	5m	7,9Ø	26,8Ø	31,65	31,4Ø	2,25	1ØØ
GA 347	10m	1Ø,4Ø	24,3Ø	38,Ø5	23,1Ø	4,15	1ØØ
GA 347	15m	2,9Ø	6,8Ø	14,95	31,3Ø	44,Ø5	1ØØ

RESULTATS DES ANALYSES GRANULOMETRIQUES

Responsable des prélèvements: SAFOR

Responsable des analyses: SAED/ Laboratoire de ROSS- BETHIO

Fichier: GRANULO.FIC

Page .2. de 4.

PIEZO #	HORIZON B1/B2	% POIDS/ CLASSE GRANULOMETRIQUE					% POIDS TOTAL
		ARGILE	LIMON FIN	LIMON GROSSIER	SABLE FIN	SABLE GROSSIER	
GA 347	20m	0,40	1,80	3,20	50,40	44,20	100
GA 347	25m	0,40	6,80	7,90	31,40	53,50	100
GA 347	30m	0,40	1,80	5,55	27,15	65,10	100
GA 347	35m	0,40	1,80	5,10	5,80	86,90	100
GA 347	40m	0,40	1,80	0,55	6,20	91,05	100
GA 347	45m	0,40	1,80	1,80	4,00	92,00	100
GA 348	B1	25,40	21,80	48,30	3,85	0,65	100
GA 348	B2	0,40	1,80	6,95	22,20	68,65	100
GA 349	B1	27,90	19,30	46,20	5,70	0,90	100
GA 349	B2	0,40	6,80	3,05	38,75	51,00	100
GA 349	5m	0,60	15,00	20,80	56,60	7,00	100
GA 351	B1	20,40	16,80	46,00	15,30	1,50	100
GA 351	B2	7,90	4,30	8,25	11,65	67,90	100
DA 238	B1	31,57	31,58	5,28	26,19	3,82	98,44
DA 238	39m - B2	9,30	13,28	5,11	31,41	39,30	98,4
DA 241	31m - B2	0,00	7,50	1,29	5,68	83,99	98,46
DA 241	32m - B2	9,89	17,89	3,88	21,22	45,46	98,34

RESULTATS DES ANALYSES GRANULOMETRIQUES

Responsable des prélèvements: SAFOR

Responsable des analyses: SAED/ Laboratoire de ROSS- BETHIO

Fichier: GRANULO.FIC

Page .3. de .4.

PIEZO #	HORIZON B1/B2	% POIDS/ CLASSE GRANULOMETRIQUE					% POIDS TOTAL
		ARGILE	LIMON FIN	LIMON GROSSIER	SABLE FIN	SABLE GROSSIER	
DA 241	33m- B2	13,46	25,47	4,95	34,18	20,18	98,24
DA 241	34m- B2	12,59	20,59	5,98	38,66	20,59	98,41
DA 241	35m- B2	4,00	33,30	10,20	35,14	15,90	98,54
DA 241	36m- B2	7,20	27,30	9,25	40,65	14,07	98,47
DA 241	37m- B2	0,00	17,45	3,28	16,65	61,03	98,41
DA 241	37m- B3	6,00	16,70	4,78	25,90	45,10	98,56
DA 241	38m- B2	0,00	7,60	1,97	18,36	70,39	98,32
DA 241	39m- B2	2,00	10,00	3,07	19,21	63,93	98,21
DA 241	40m- B2	2,00	11,65	4,86	26,33	53,64	98,48
DA 241	41m- B2	0,00	11,44	3,95	31,72	51,34	98,45
DA 241	42m- B2	0,00	6,00	1,57	19,13	71,20	97,9
DA 241	43m- B2	0,00	7,33	5,22	31,98	53,91	98,44
DA 241	44m- B2	0,00	7,75	4,60	41,92	44,31	98,58
DA 241	45m- B2	2,00	10,30	4,46	35,80	45,88	98,44
DA 241	45m- B3	0,00	6,98	0,41	9,77	81,36	98,52
DA 241	46m- B2	0,00	6,54	4,46	31,75	55,69	98,44
DA 241	47m- B2	0,00	11,80	4,24	31,70	48,67	98,41

RESULTATS DES ANALYSES GRANULOMETRIQUES

Responsable des prélèvements: SAFOR

Responsable des analyses: SAED/ Laboratoire de ROSS- BETHIO

Fichier: GRANULO.FIC

Page .4. de .4.

PIEZO #	HORIZON B1/B2	% POIDS/ CLASSE GRANULOMETRIQUE					% POIDS TOTAL
		ARGILE	LIMON FIN	LIMON GROSSIER	SABLE FIN	SABLE GROSSIER	
DA 241	48m-B2	0,00	6,71	2,40	40,05	49,30	98,46
DA 242	19m-B2	8,04	19,04	4,62	34,96	31,88	98,54
DA 242	20m-B2	4,00	14,78	4,61	35,29	39,82	98,5
DA 242	21m-B2	4,00	19,41	5,90	35,36	33,77	98,44
DA 242	22m-B2	2,00	17,39	4,47	38,84	35,70	98,4
DA 242	23m-B2	4,00	13,66	4,52	35,47	40,85	98,5
DA 242	24m-B2	2,00	15,60	5,25	36,03	39,60	98,48
DA 242	25m-B2	0,00	13,33	4,59	36,33	44,21	98,46
DA 242	26m-B2	12,00	17,52	6,29	36,82	25,79	98,42
DA 242	27m-B2	2,00	14,48	4,80	35,90	41,21	98,39
DA 242	28m-B2	10,00	12,80	5,72	36,05	33,82	98,39
DA 242	29m-B2	14,00	24,00	9,18	31,72	19,40	98,38
DA 244	29m-B2	15,60	11,64	7,63	61,09	1,74	98,5

RESULTATS DES ANALYSES GRANULOMETRIQUES

Responsable des prélèvements: SAFOR

Responsable des analyses: SAED/ Laboratoire de ROSS- BETHIO

Fichier: GRANULO.FIC

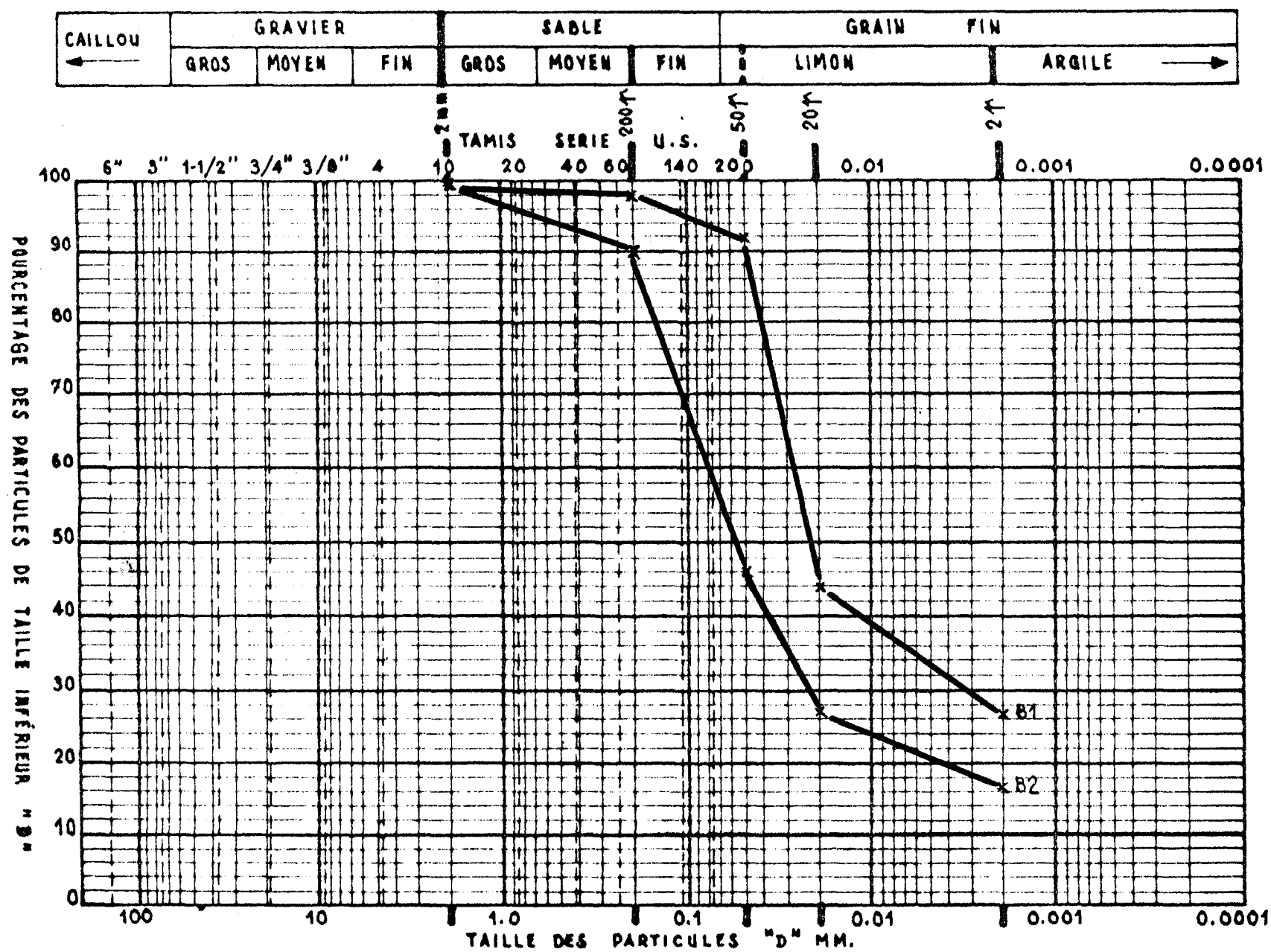
Page .4. de .4.

PIEZO #	HORIZON B1/B2	% POIDS/ CLASSE GRANULOMETRIQUE					% POIDS TOTAL
		ARGILE	LIMON FIN	LIMON GROSSIER	SABLE FIN	SABLE GROSSIER	
DA 241	48m-B2	0,00	6,71	2,40	40,05	49,30	98,46
DA 242	19m-B2	8,04	19,04	4,62	34,96	31,88	98,54
DA 242	20m-B2	4,00	14,78	4,61	35,29	39,82	98,5
DA 242	21m-B2	4,00	19,41	5,90	35,36	33,77	98,44
DA 242	22m-B2	2,00	17,39	4,47	38,84	35,70	98,4
DA 242	23m-B2	4,00	13,66	4,52	35,47	40,85	98,5
DA 242	24m-B2	2,00	15,60	5,25	36,03	39,60	98,48
DA 242	25m-B2	0,00	13,33	4,59	36,33	44,21	98,46
DA 242	26m-B2	12,00	17,52	6,29	36,82	25,79	98,42
DA 242	27m-B2	2,00	14,48	4,80	35,90	41,21	98,39
DA 242	28m-B2	10,00	12,80	5,72	36,05	33,82	98,39
DA 242	29m-B2	14,00	24,00	9,18	31,72	19,40	98,38
DA 244	29m-B2	15,60	11,64	7,63	61,89	1,74	98,5

COURBES GRANULOMETRIQUES

TYPE D'ECHANT. : 00 III

PAYS : SENE GAL
 PIÉZOMÈTRE N° : 15 48 61340 HP
 COORDONNÉES (MTU) : X : Y :

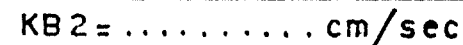


CLASSIFICATION M.I.T.

KB1 = .N./A.... cm/sec

KB2 = .N./A.... cm/sec

TYPE D'ECHANT. : ou m



PIEZOMETRE № 1545 G A 3 4 Ø H P D

COORDONÉES (M T U) X : Y :

COORDONNÉES (MTU)

✕
..
|
|
|
|
|
|

Y

PIEZOMÈTRE N.º 15

4

G

A	3	1
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40

HP

L

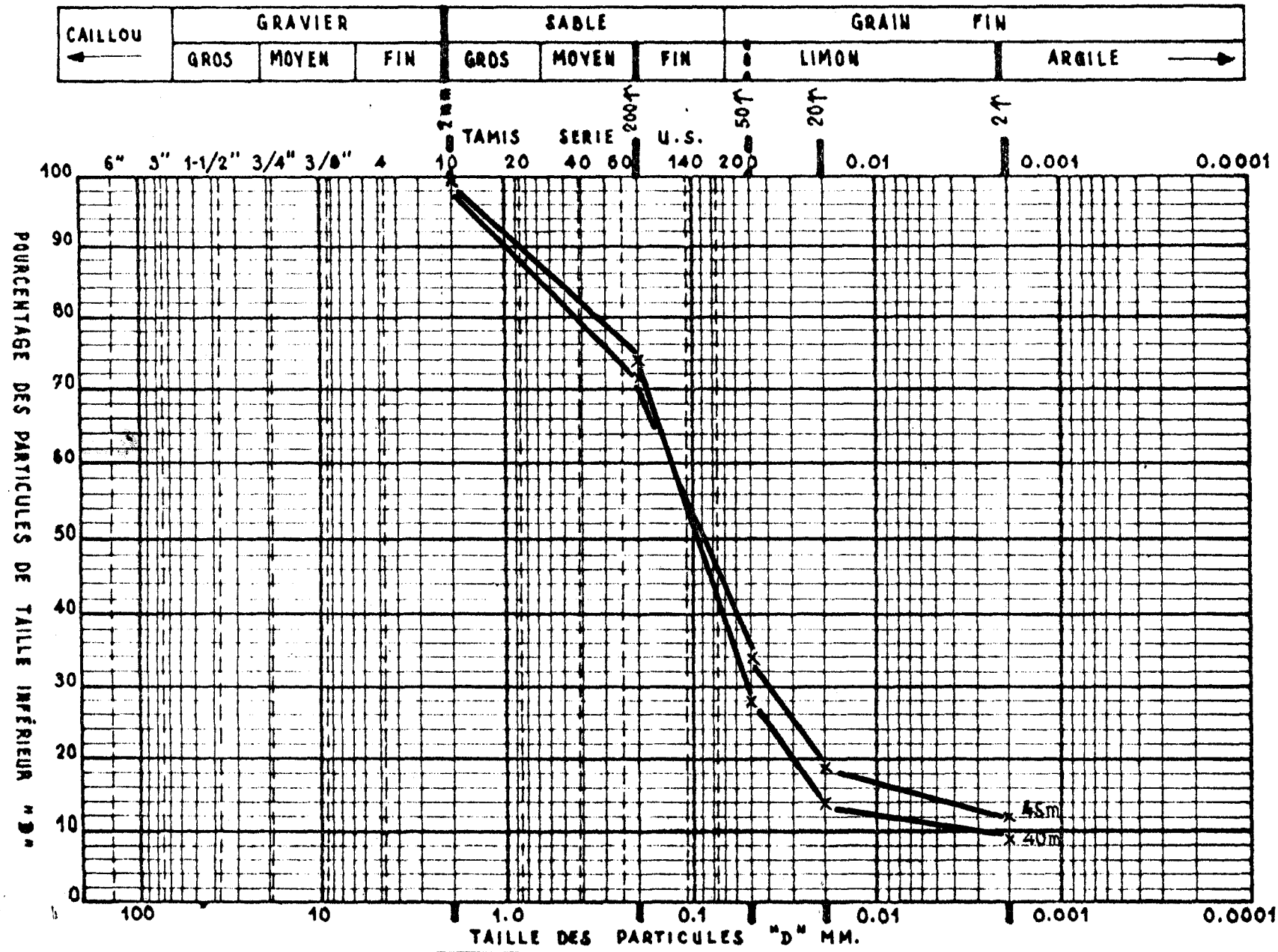
COURBES GRANULOMETRIQUES

TYPE D'ECHANT. : OU m

PAYS : SENEGAL

PIEZOMETRE N° : [A5] [4B] [GA340] [HP]

COORDONNEES (MTU) X: Y:



CLASSIFICATION M.I.T.

KB1 = cm/sec

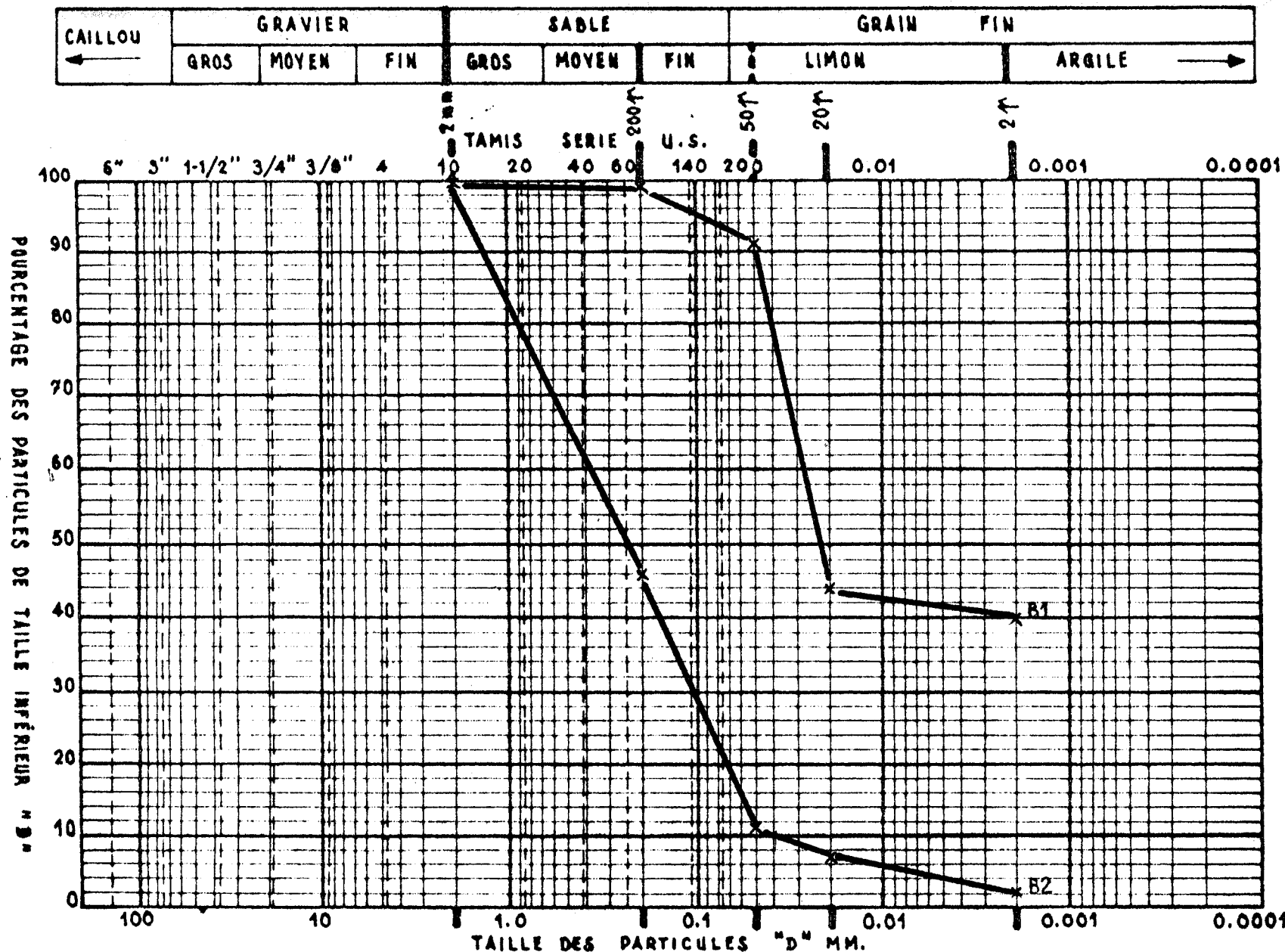
KB2 = cm/sec

COURBES GRANULOMETRIQUES

TYPE D'ECHANT. : OU M

PAYS
 SENEGAL

PIEZOMETRE N° 15 48 GA346 HP
 COORDONNEES (MTU) X: Y:



CLASSIFICATION M.I.T.

KB1 = N/A cm/sec

KB2 = .2 : 5 x 10⁻³ cm/sec

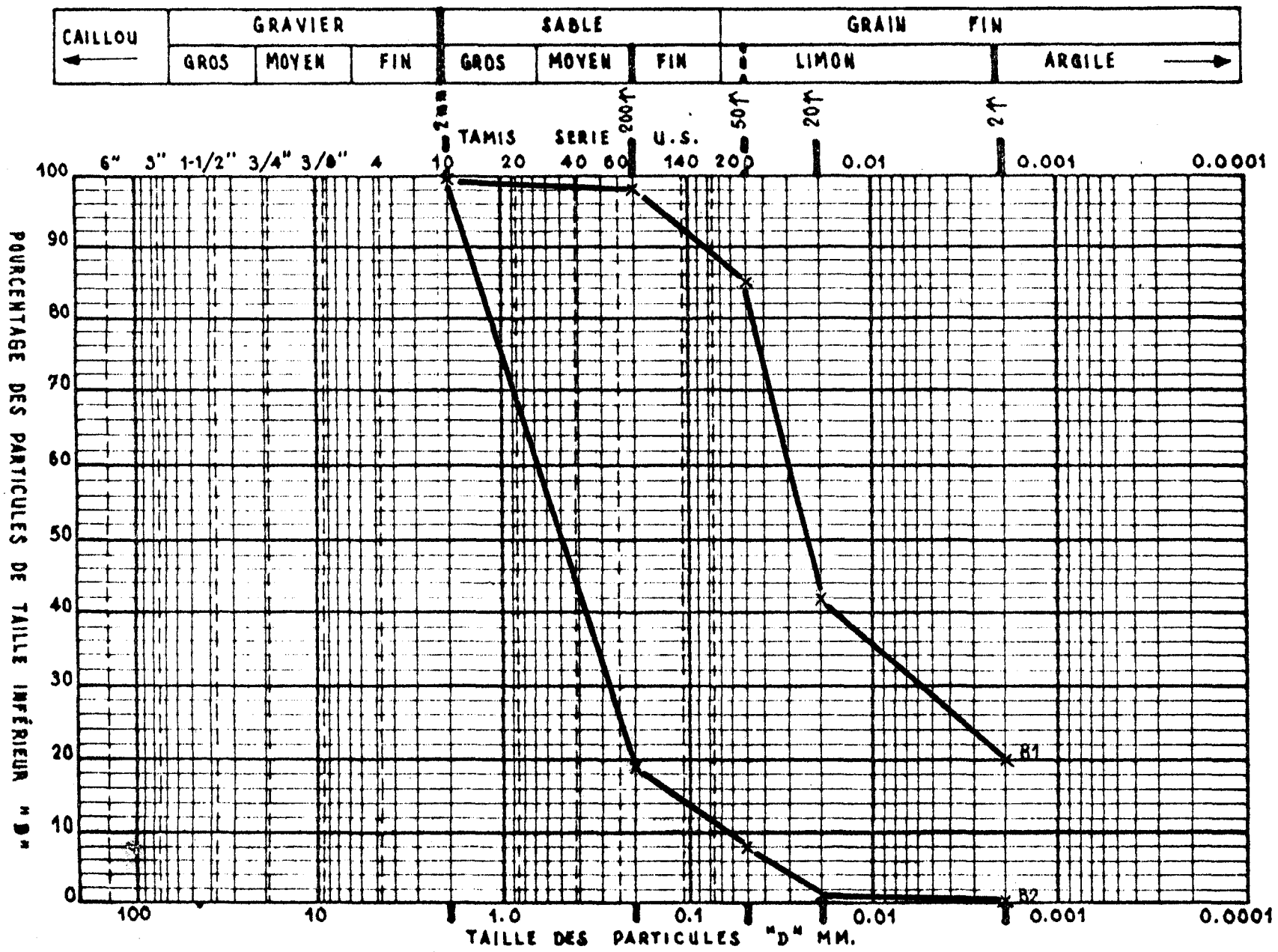
COURBES GRANULOMETRIQUES

TYPE D'ECHANT. : OU m

PAYS : SENEGAL

PIEZOMETRE N° : 15 48 6A347 HP

COORDONNEES (MTU) X : Y :



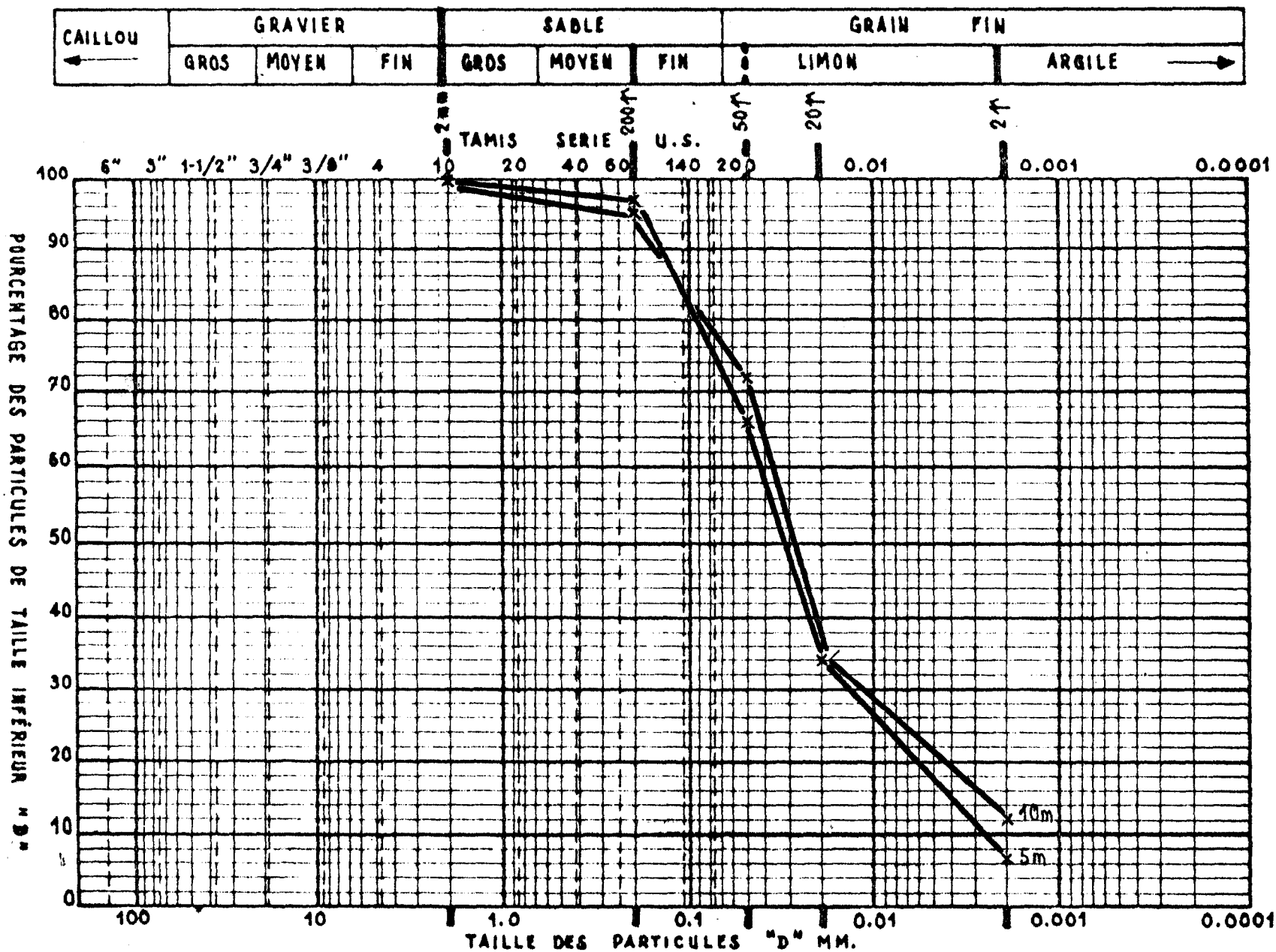
CLASSIFICATION M.I.T.

KB1 = $\frac{N}{A} \dots \text{cm/sec}$

KB2 = $4.225 \times 10^{-3} \text{cm/sec}$

COURBES GRANULOMÉTRIQUES

TYPE D'ECHANT. : OU m



CLASSIFICATION M.I.T.

KB1 = cm/sec

KB2 = cm/sec

PAYS : **SENEGAL**

PIEZOMÈTRE N° : **15 48 64347 HP**

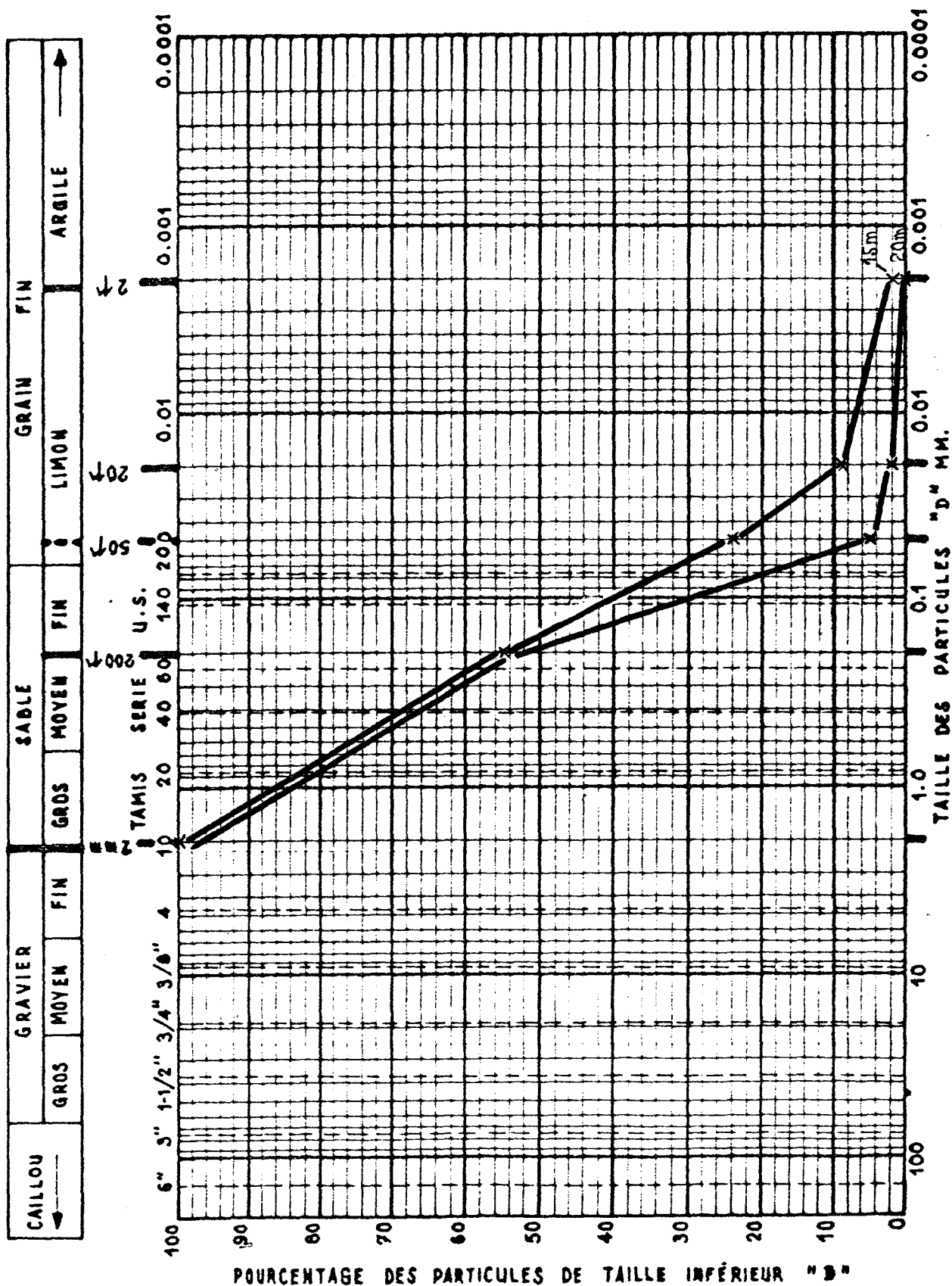
COORDONNÉES (MTU) X : Y :

ORGANISATION POUR LA MISE EN VALEUR DU FLEUVE SÉNÉGAL (O.M.V.S.)
 DIRECTION DE L'INFRASTRUCTURE RÉGIONALE (D.I.R.)
 PROJET 625-0958/U.S.A.I.D

TYPE D'ÉCHANT. : OU M

COURBES GRANULOMÉTRIQUES

PAYS ... SÉNÉGAL ...	PIEZOMÈTRE N°	15	48	GA347	HP
	COORDONNÉES (MTU)	X:		Y:	



KB1 = cm/sec KB2 = cm/sec

PAYS

SENEGAL

PIEZOMÈTRE N°

15

4B

GA347

HP

COORDONNÉES (MTU)

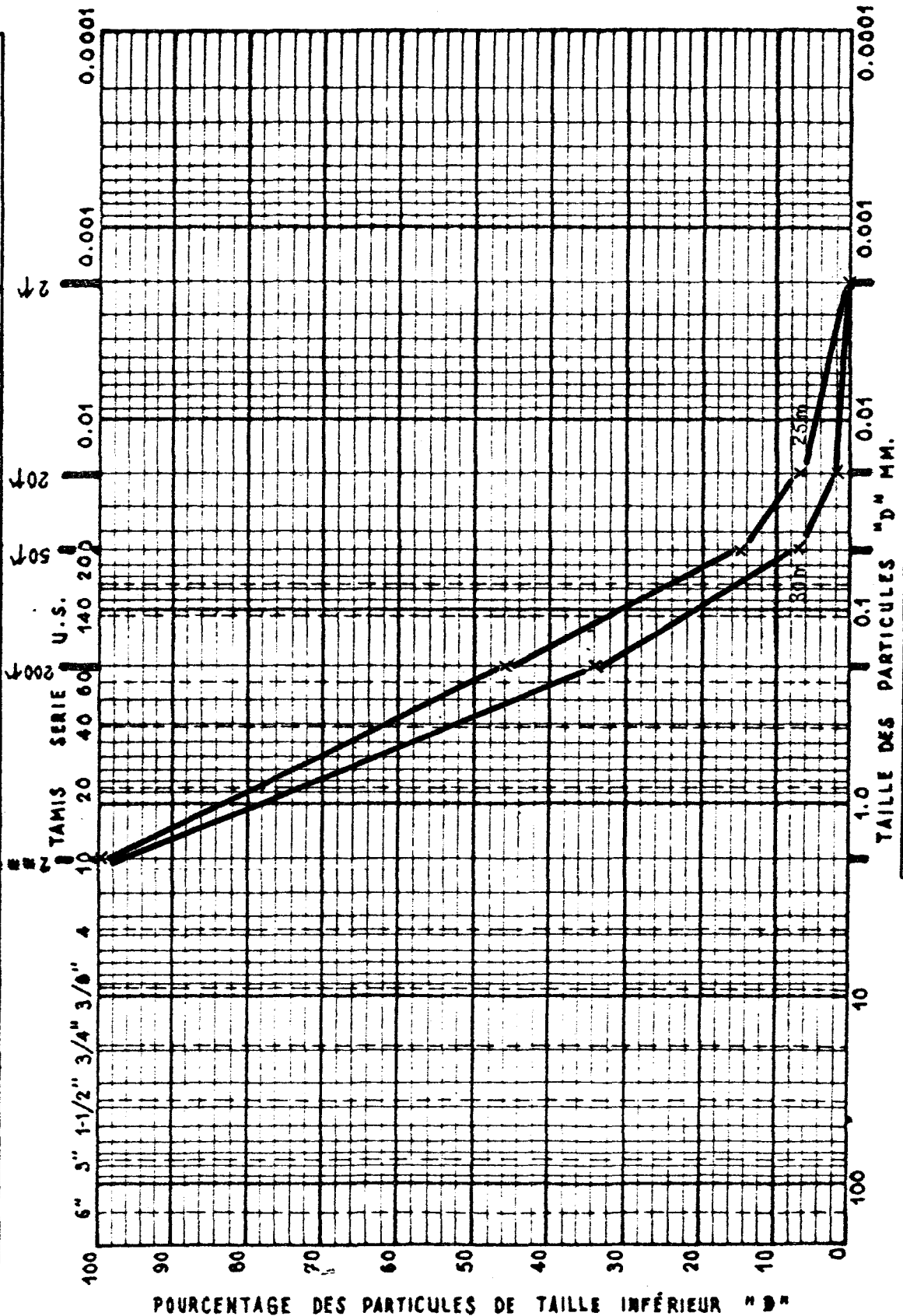
X:

Y:

TYPE D'ÉCHANT. : OU M

COURBES GRANULOMÉTRIQUES

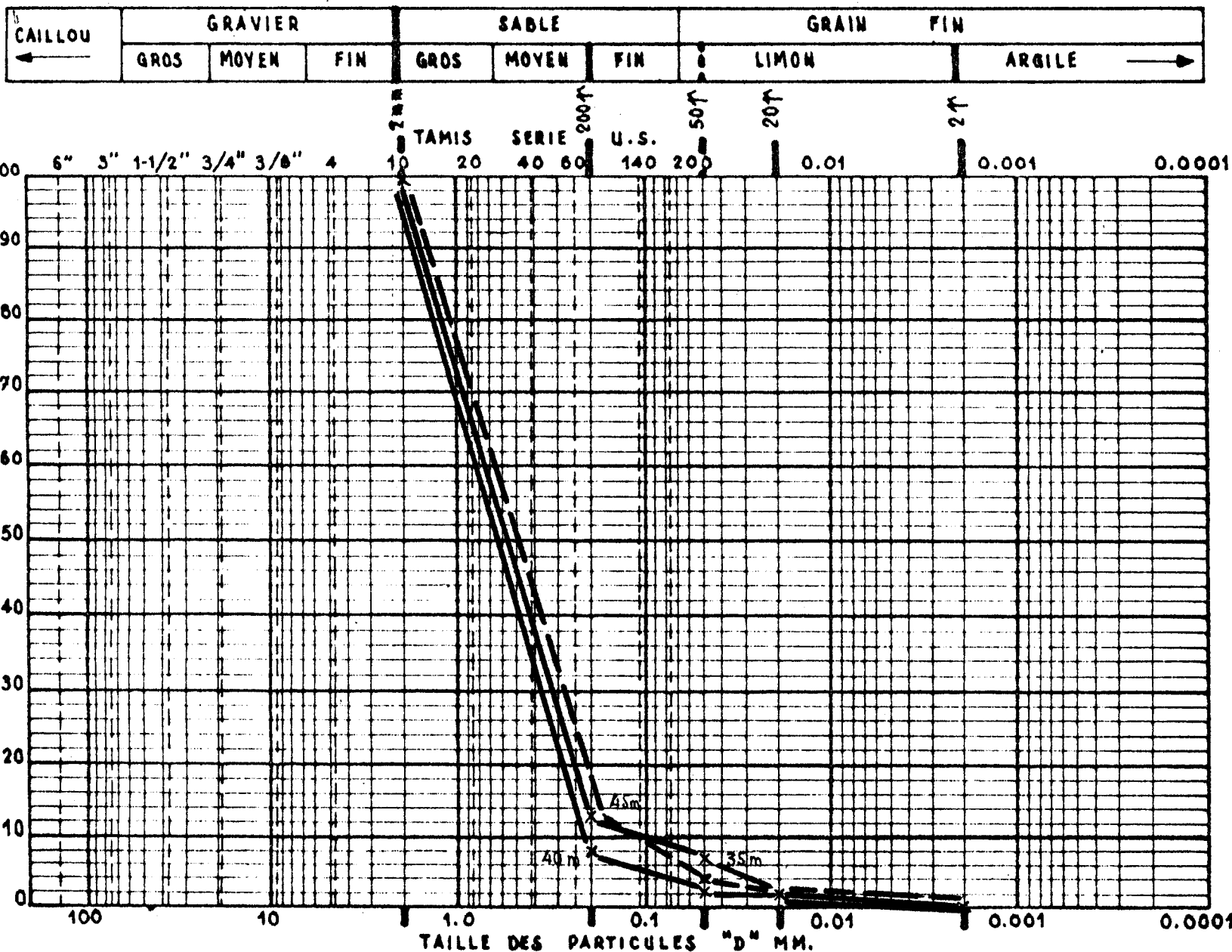
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	GRAND	MOYEN	FIN	GRAND	MOYEN	FIN	GRAND	MOYEN	FIN	



CLASSIFICATION M.I.T.

COURBES GRANULOMÉTRIQUES

TYPE D'ECHANT. : OU M



CLASSIFICATION M.I.T.

KB1 = cm/sec

KB2 = cm/sec

PAYS : **SENEGAL**

PIEZOMÈTRE N° : **15 4B GA347 HP**

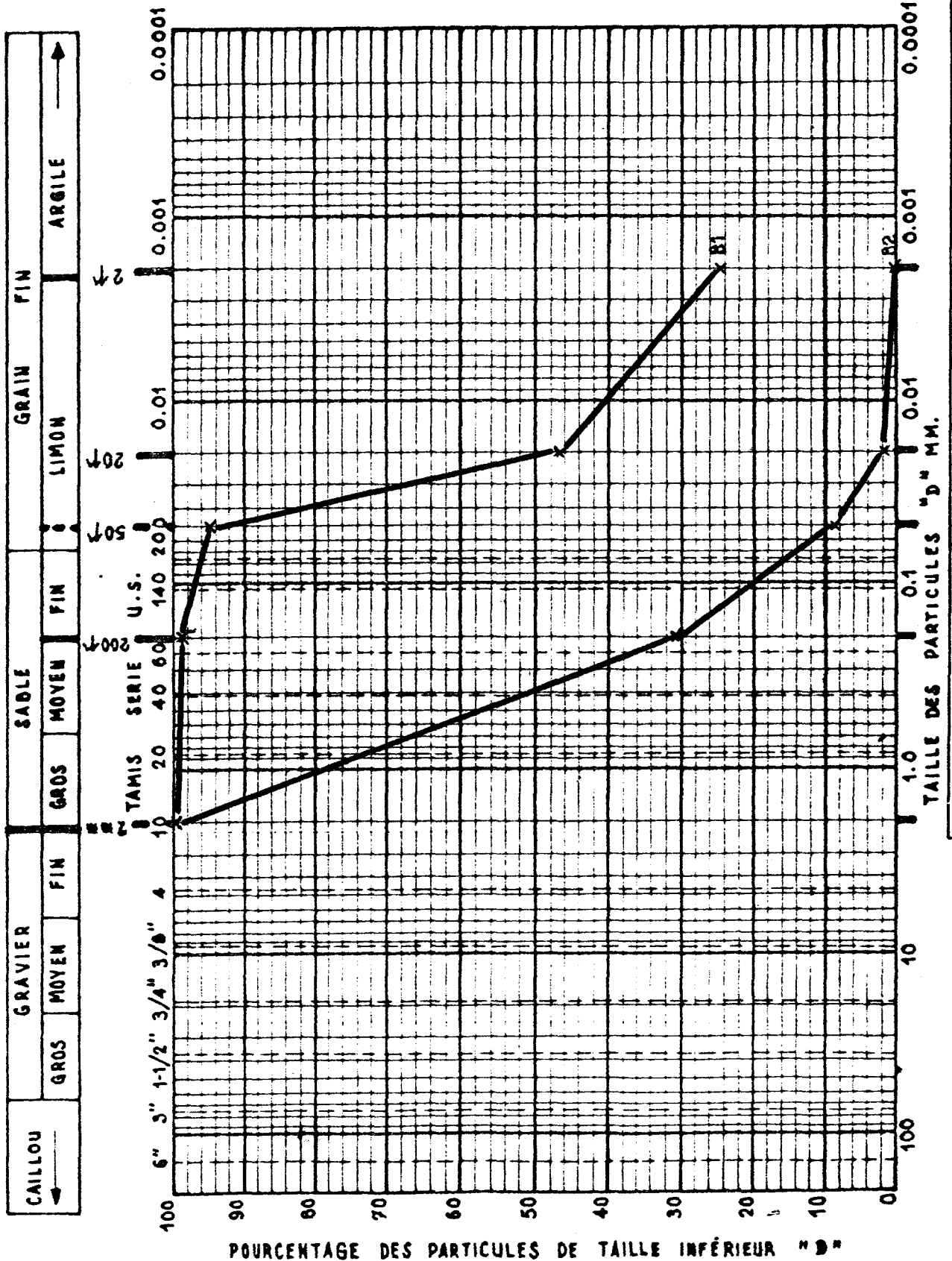
COORDONNÉES (MTU) X : Y :

ORGANISATION POUR LA MISE EN VALEUR DU FLEUVE SÉNÉGAL (O.M.V.S.)
 DIRECTION DE L'INFRASTRUCTURE RÉGIONALE (D.I.R.)
 PROJET 625-0958 / U.S.A.I.D

TYPE D'ECHANT. : OU M

COURBES GRANULOMETRIQUES

PAYS ... SENEGAL ...	PIEZOMETRE N°	15	4B	GA348	HP
	COORDONNEES (MTU)	X:		Y:	

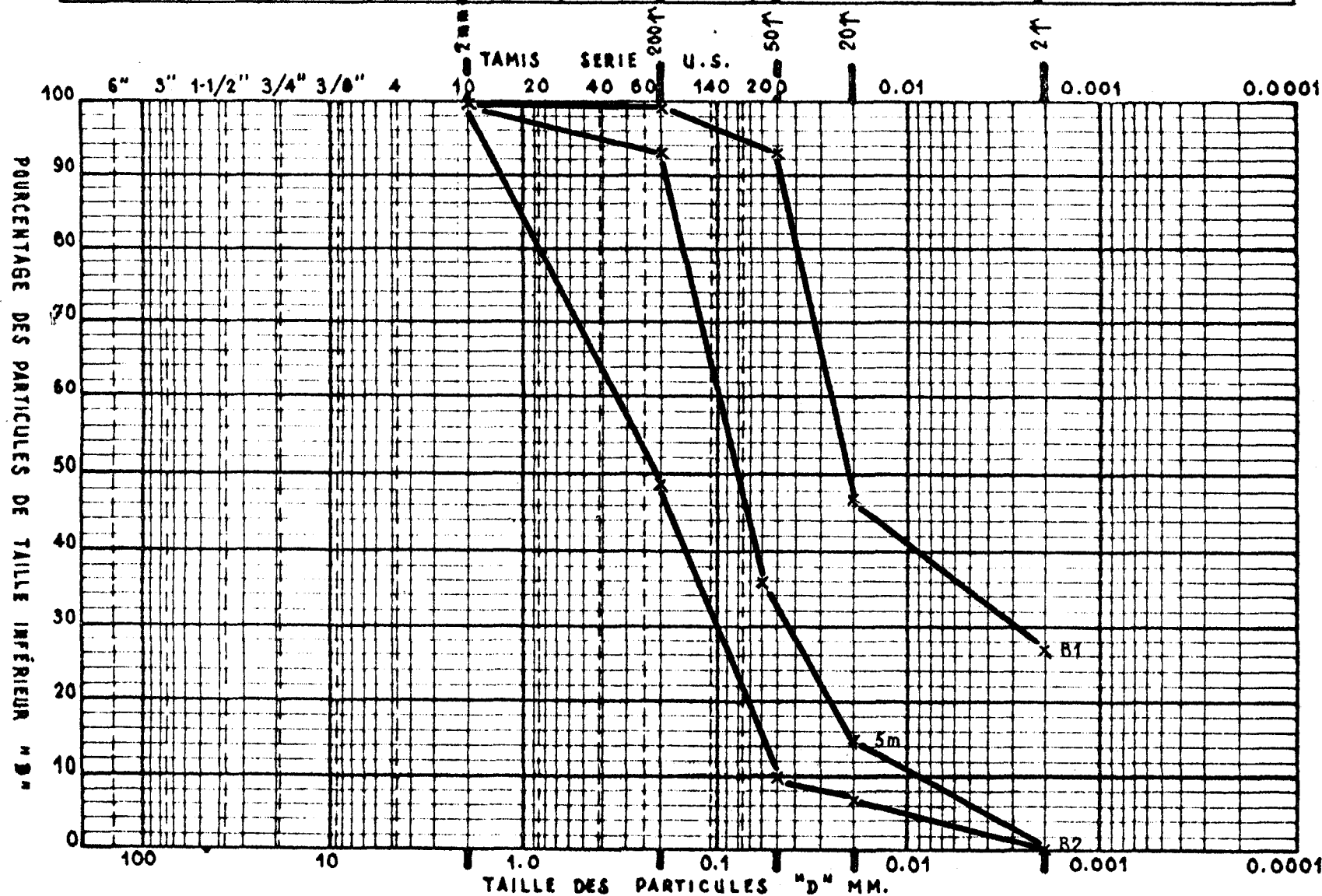


CLASSIFICATION M.I.T. KB1 = .N/A... cm/sec KB2 = 3.025 x 10⁻³ cm/sec

COURBES GRANULOMÉTRIQUES

TYPE D'ECHANT. : OU M

CAILLOU ←	GRAVIER			SABLE			GRAIN		FIN →
	GROS	MOYEN	FIN	GROS	MOYEN	FIN	LIMON	ARGILE	



CLASSIFICATION M.I.T.

KB1 = $\frac{N}{A}$ cm/sec

KB2 = 2.5×10^{-3} cm/sec

PAYS : SENEGAL

PIEZOMÈTRE N° : 15 48 GA349 HP

COORDONNÉES (MTU) X : Y :

ORGANISATION POUR LA MISE EN VALEUR DU FLEUVE SENEGAL (O.M.V.S.)
 DIRECTION DE L'INFRASTRUCTURE RÉGIONALE (D.I.R.)
 PROJET 625-0958/U.S.A.I.D.

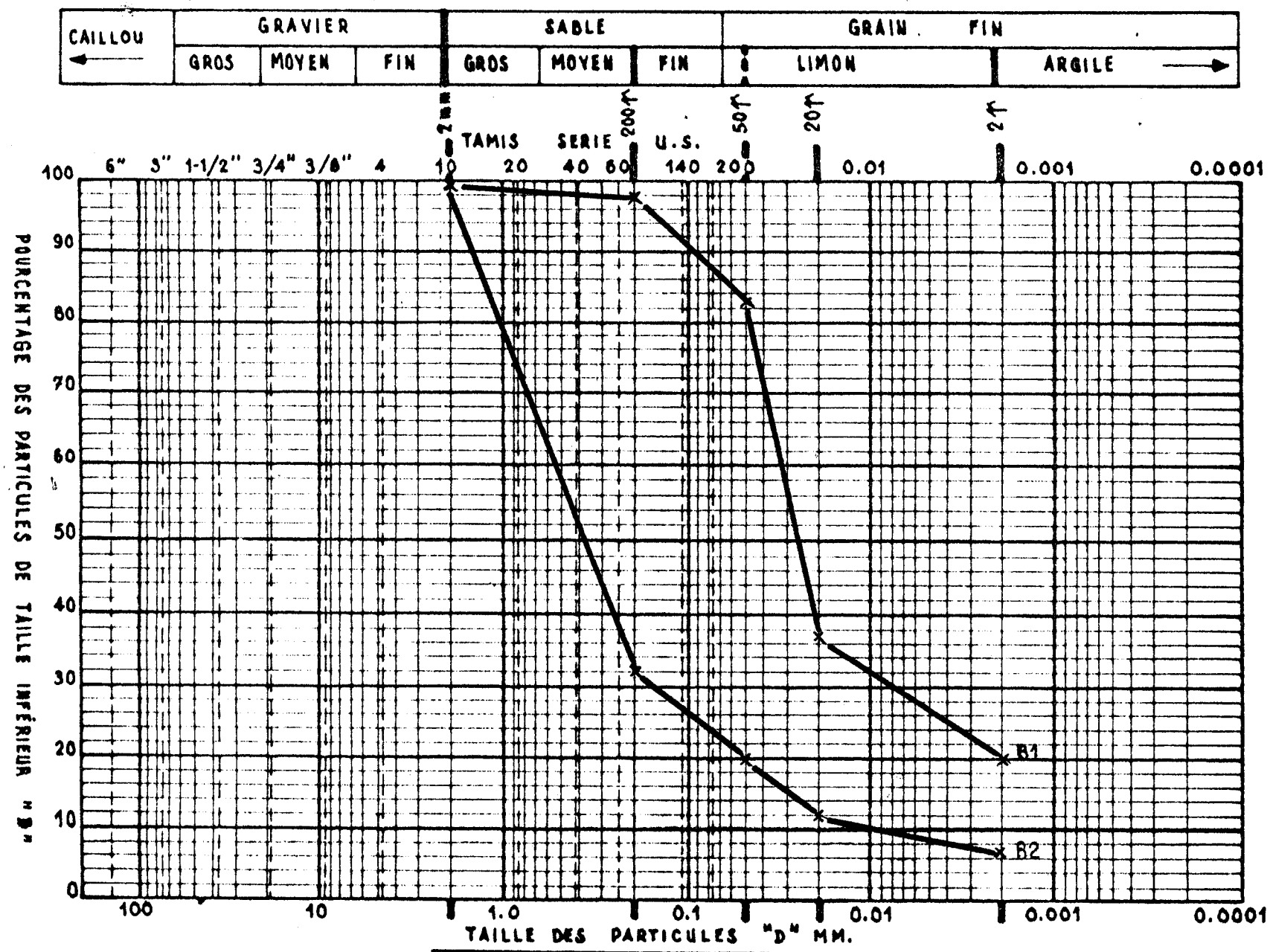
COURBES GRANULOMÉTRIQUES

TYPE D'ÉCHANT. : OU M

PAYS
 SÉNÉGAL

PIEZOMÈTRE N° 115 4B C1A351 4B

COORDONNÉES (MTU) X: Y:



CLASSIFICATION M.I.T.

KB1 = N/A cm/sec

KB2 = 4×10^{-4} ... cm/sec

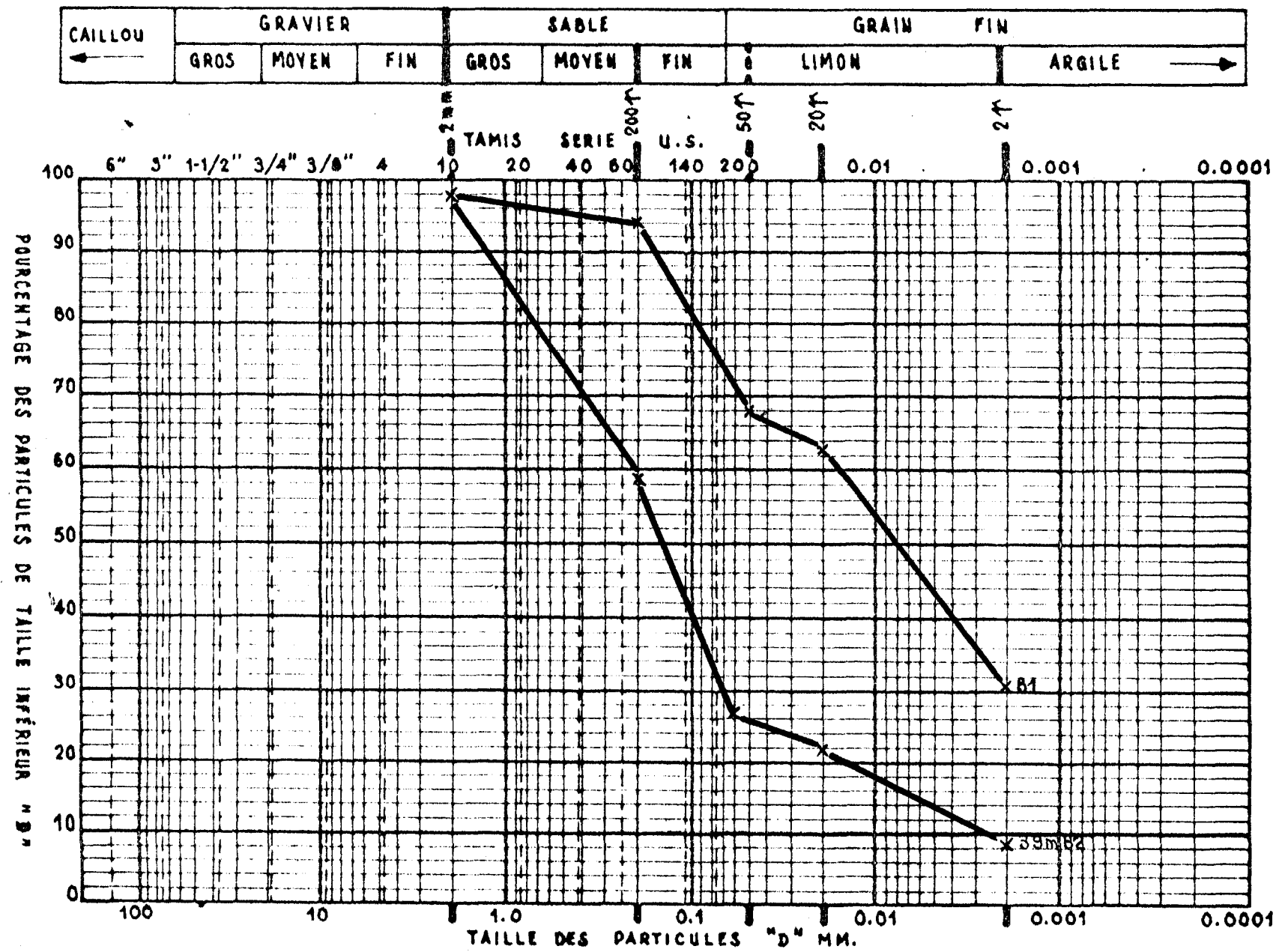
COURBES GRANULOMÉTRIQUES

TYPE D'ÉCHANT. : OU III

PAYS : MAURITANIE

PIEZOMÈTRE N° : 15 4B D4238 HP

COORDONNÉES (MTU) X : Y :



CLASSIFICATION M.I.T.

KB1 = N/A cm/sec KB2 = 6.3×10^{-6} cm/sec

PAYS
 MAURITANIE

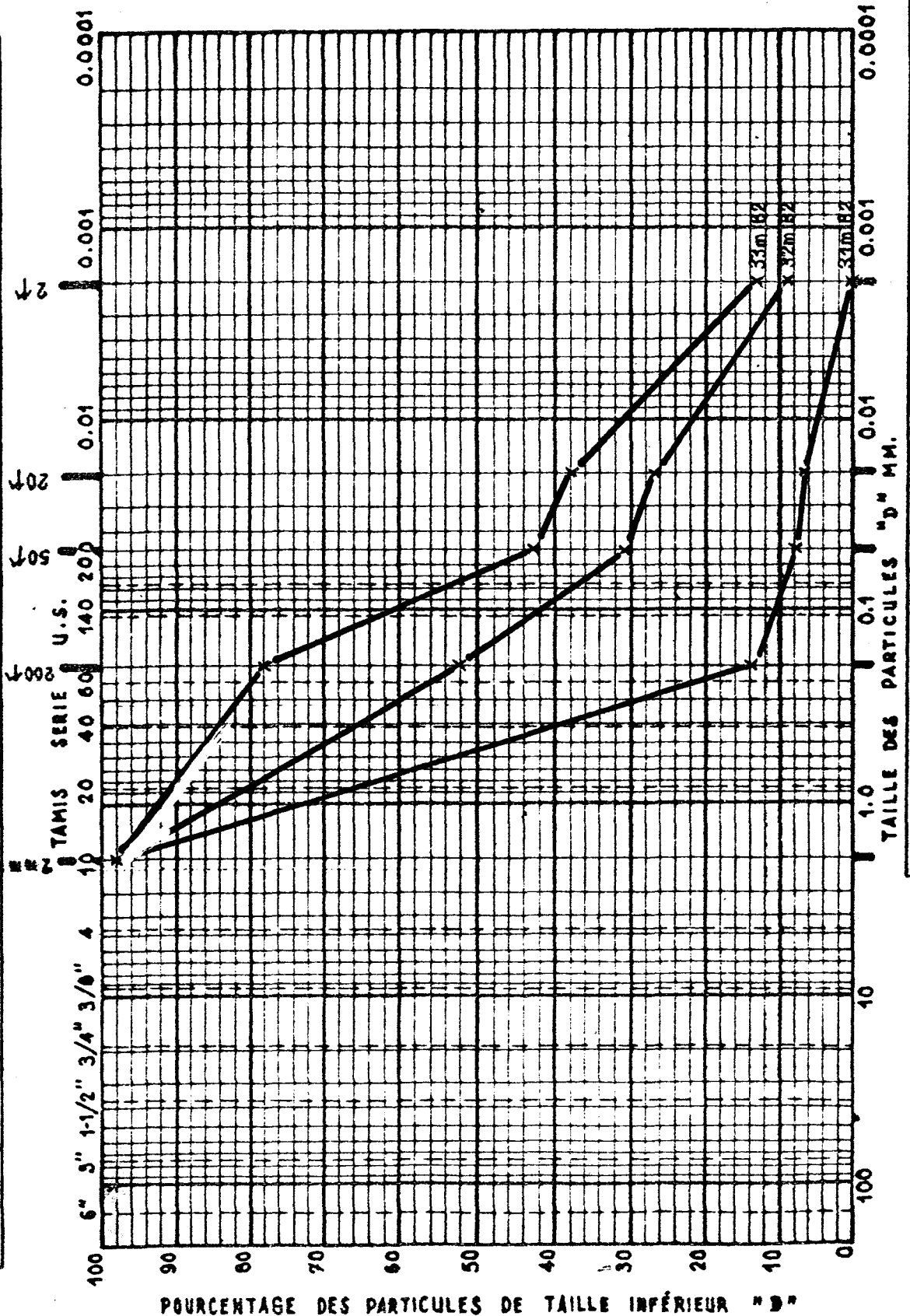
PIEZOMÈTRE N° 115 4B DA241 HP

COORDONNÉES (MTU) X: Y:

TYPE D'ÉCHANT : OU (M)

COURBES GRANULOMÉTRIQUES

CAILLOU			GRAVIER			SABLE			GRAIN FIN		
6"	3"	1-1/2"	3/4"	3/8"	4"	GROS	MOYEN	FIN	20"	50"	200"
↓									↑		

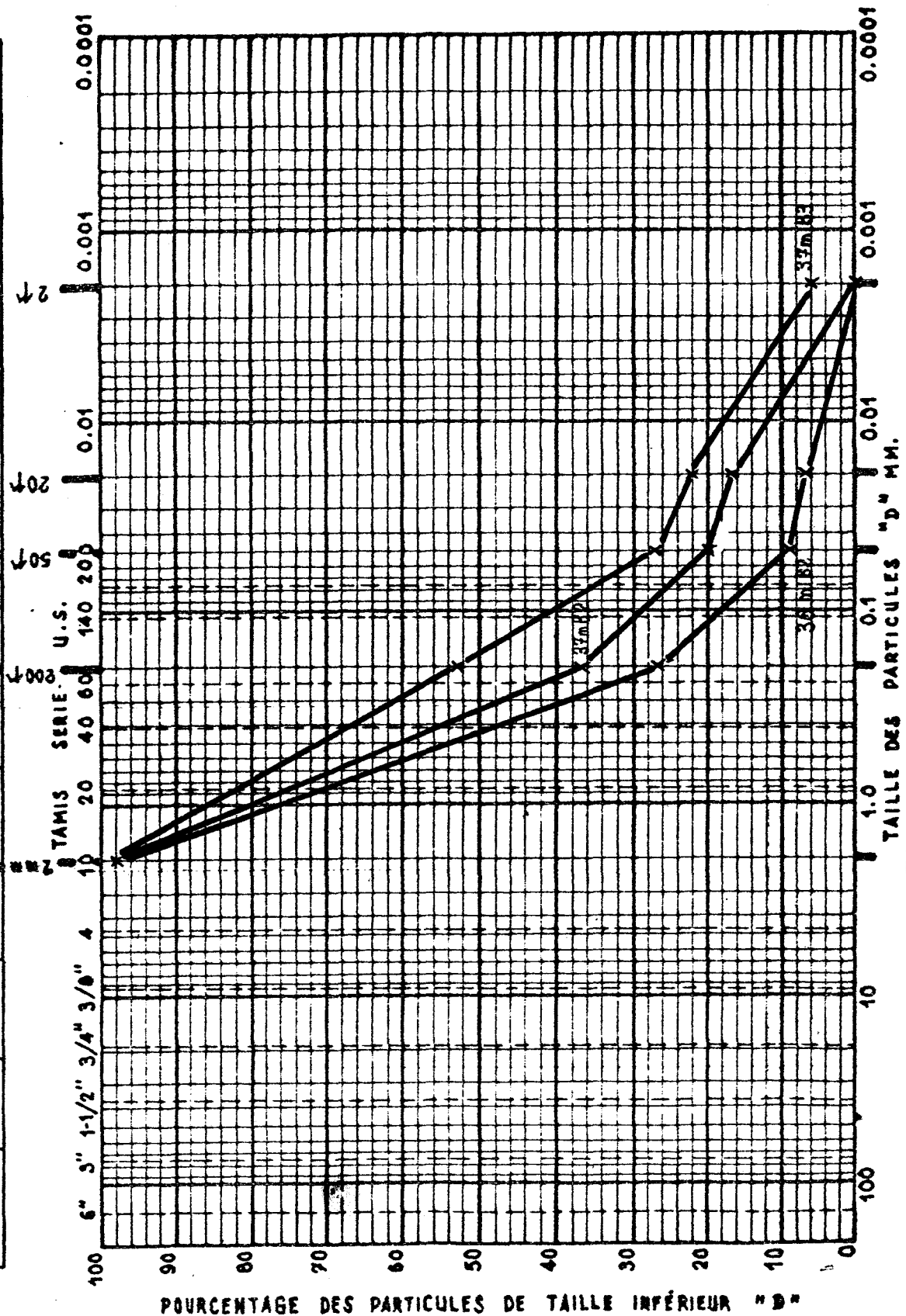


CLASSIFICATION M.I.T.

TYPE D'ÉCHANT. : OU M

COURBES GRANULOMÉTRIQUES

CAILLOU	GRAVIER			SABLE			GRAIN FIN		
	GROS	MOYEN	FIN	GROS	MOYEN	FIN	LIMON	ARGILE	



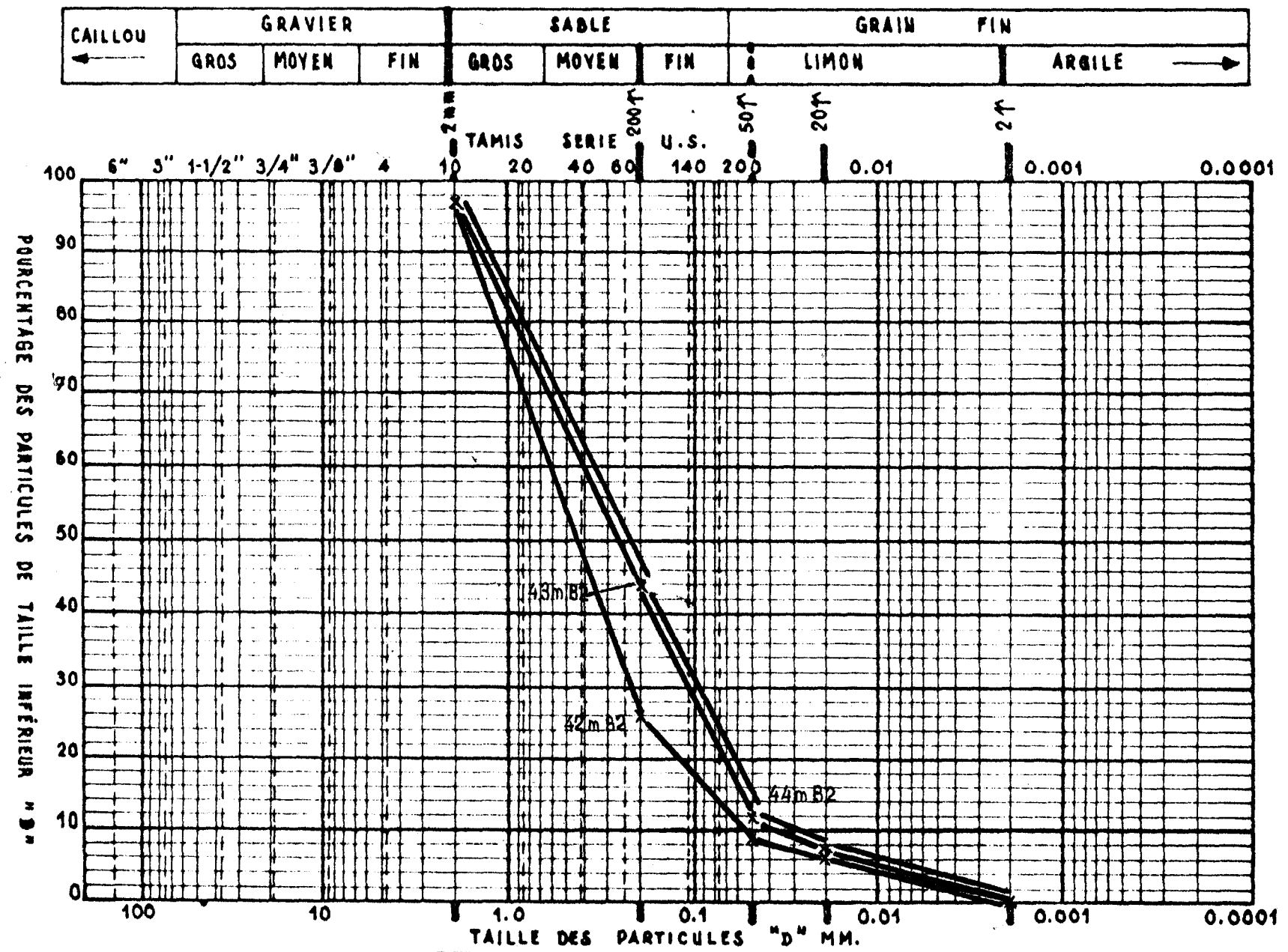
COURBES GRANULOMETRIQUES

TYPE D'ECHANT. : OU m

PAYS MAURITANIE

PIEZOMÈTRE N° 115 4B D1A241 HP

COORDONNÉES (MTU) X: Y:



CLASSIFICATION M.I.T.

KB1 = cm/sec KB2 = cm/sec

PAYS

MAURITANIE

PIEZOMÈTRE NO

45

48

D	A	2	4	1
---	---	---	---	---

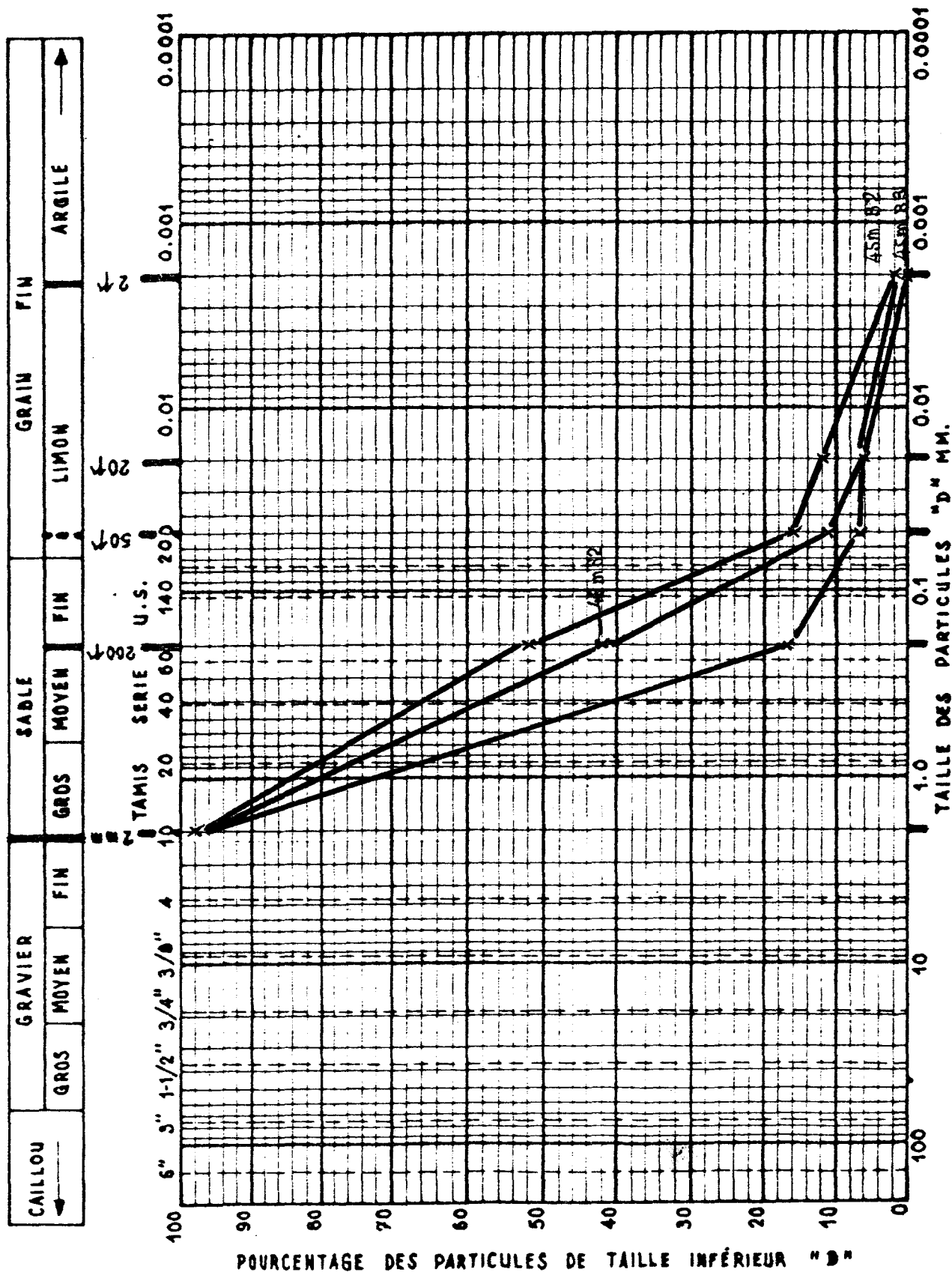
HP

COORDONNÉES (MTU)

X: _____ Y: _____

TYPE D'ECHANTIL. : OU M

COURBES DE VOLUMÉTRIQUE



CLASSIFICATION M.I.T.

KB1 = cm/sec

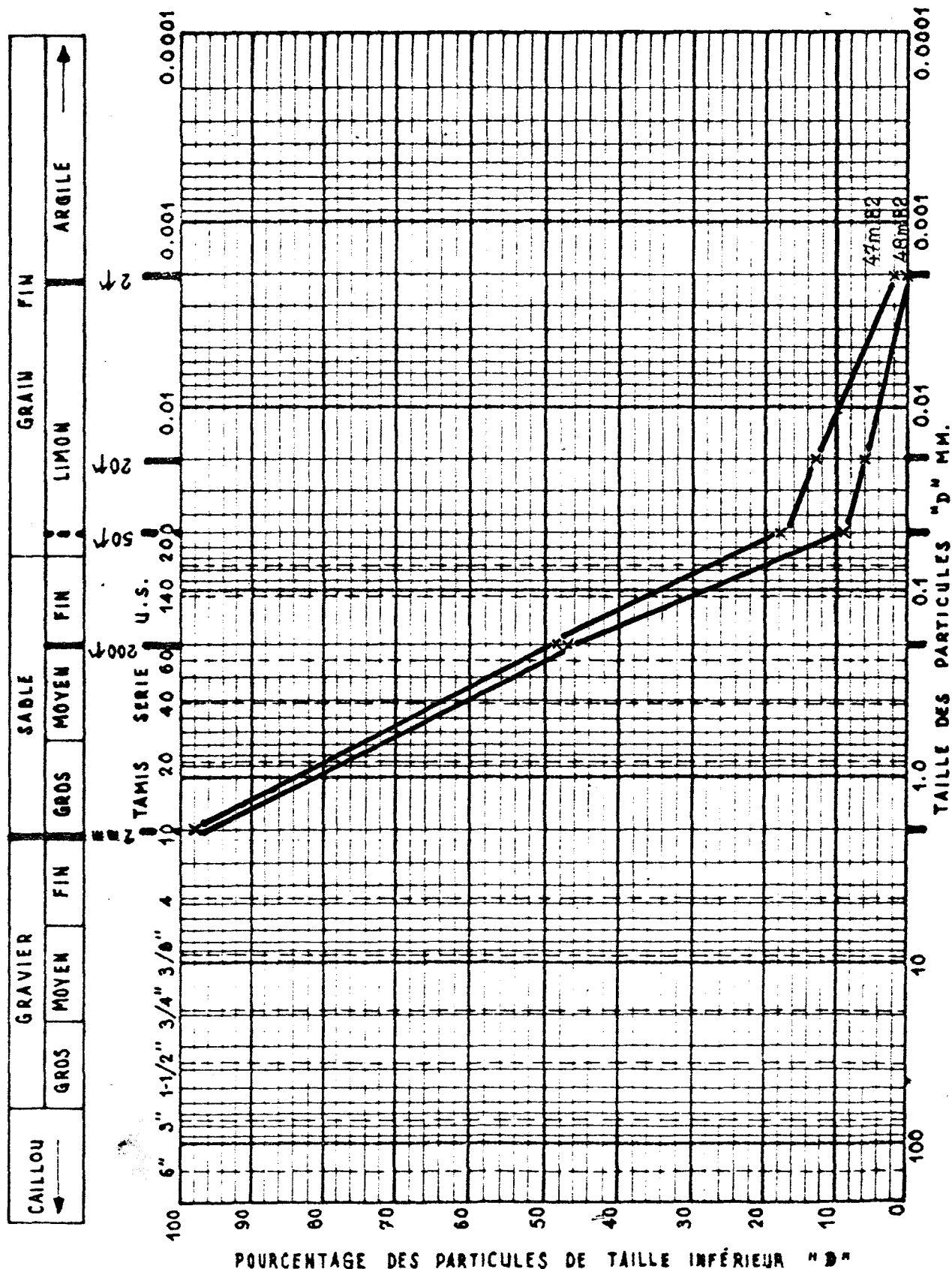
KB2 = cm/sec

TYPE D'ÉCHANT. : OU M

COURBES GRANULOMÉTRIQUES

PAYS
 MAURITANIE

PIEZOMÈTRE N° 115 48 DA241 HP
 COORDONNÉES (MTU) X: Y:



KB1 = .N/R... cm/sec

KB2 = 0.0001... cm/sec

CLASSIFICATION M.I.T.

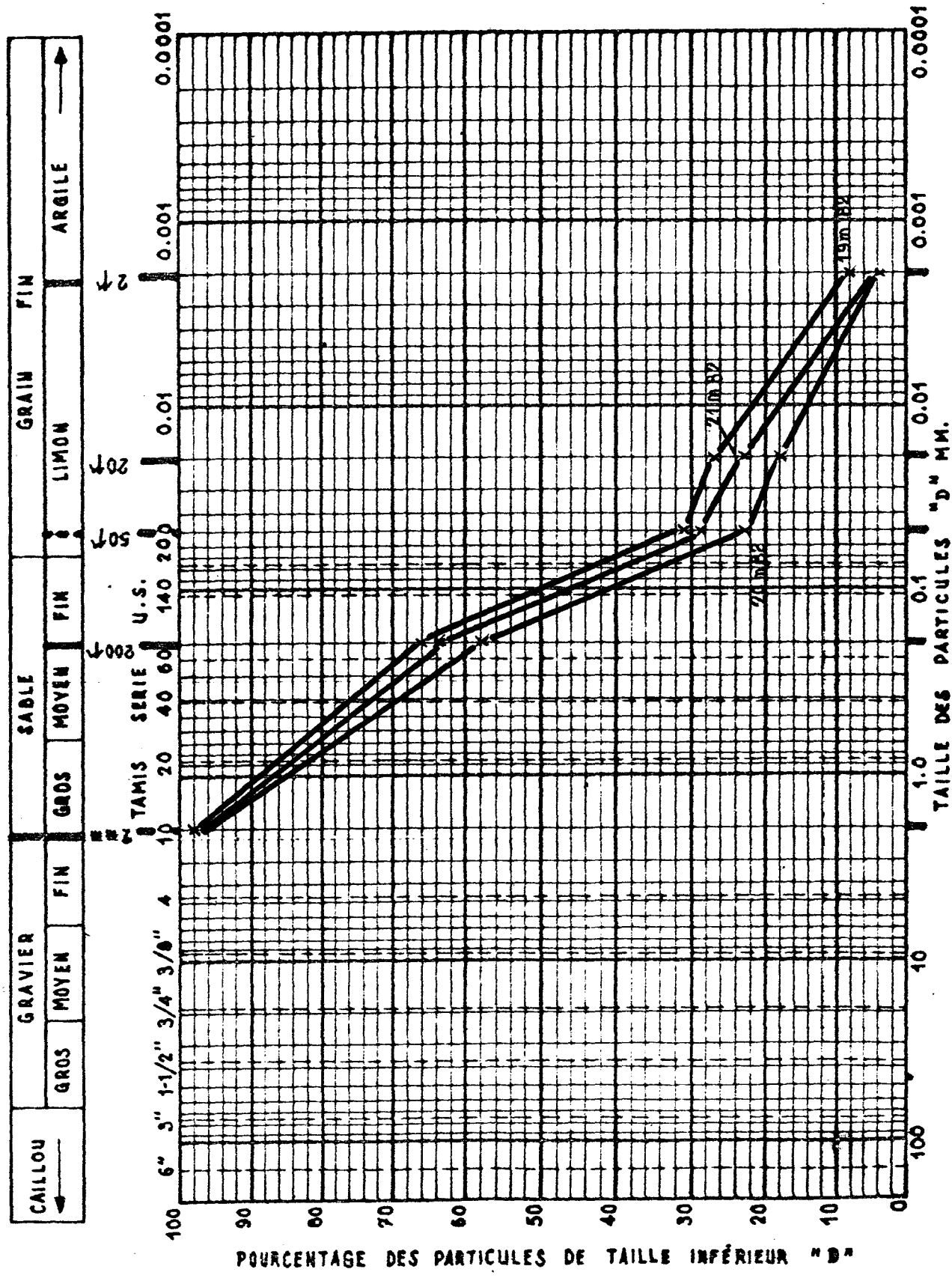
TYPE D'ÉCHANT. : OU M

COURBES GRANULOMÉTRIQUES

PAYS : MAURITANIE

PIEZOMÈTRE N° : 15 48 DA242 HP

COORDONNÉES (MTU) X: Y:

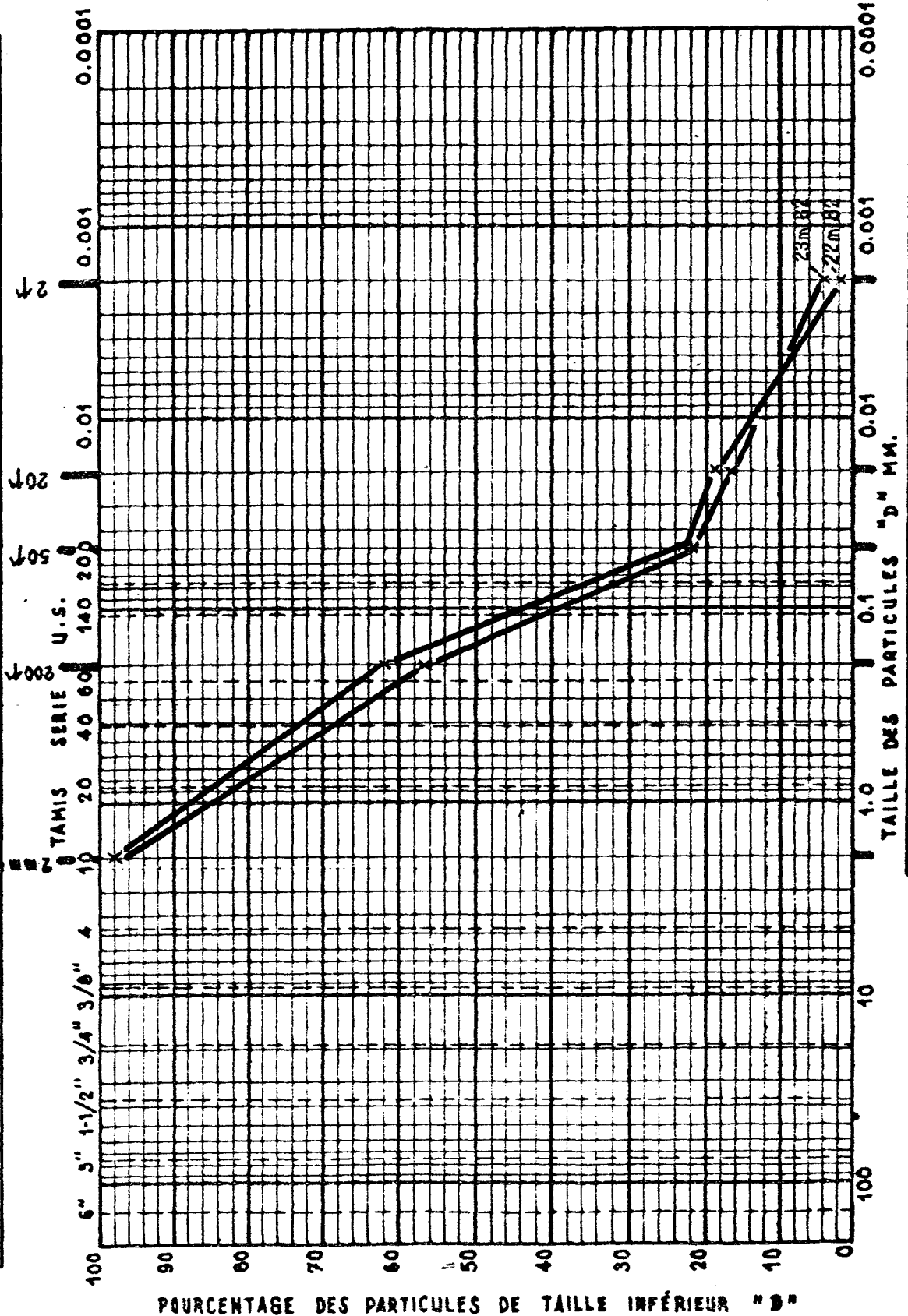


CLASSIFICATION M.I.T. KB1 = cm/sec. KB2 = cm/sec.

TYPE D'ÉCHANT. : OU M

COURBES GRANULOMÉTRIQUES

CAILLOUX	GRAVIER			SABLE			GRAIN FIN		
	GROS	MOYEN	FIN	GROS	MOYEN	FIN	LIMON	ARGILE	→



CLASSIFICATION M.I.T.

KB1 = cm/sec

KB2 = cm/sec

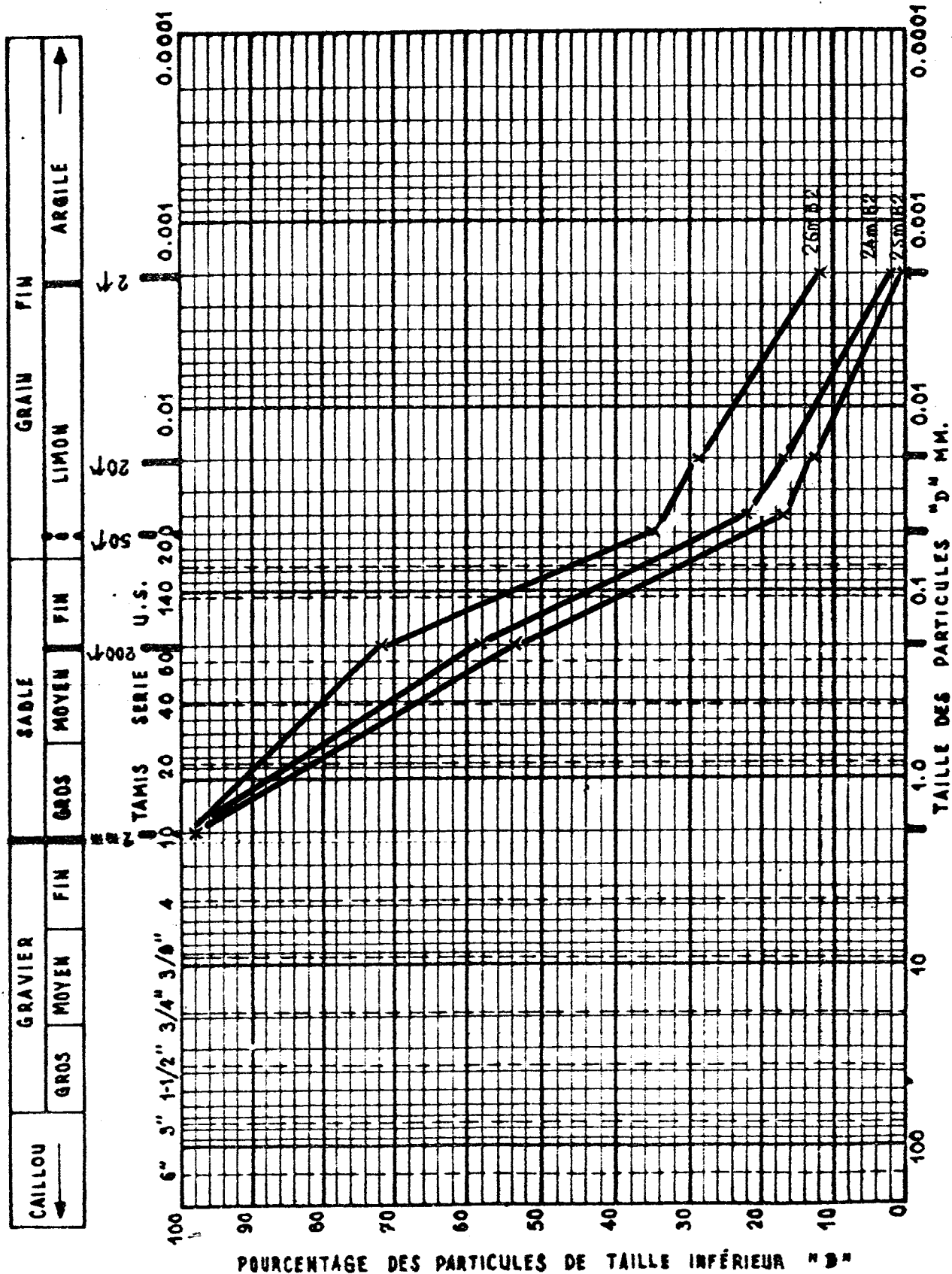
PAYS
MAURITANIE

PIEZOMÈTRE N° 15 4B DIA242 HP
 COORDONNÉES (MTU) X: Y:

PAYS MAURITANIE PIÉZOMÈTRE N° 15 4B DA242 HP
COORDONNÉES (MTU) X:----- Y:-----

TYPE D'ÉCHANT. :.....OU.....m

COURBES GRANULOMÉTRIQUES



KB2=.....cm/sec

KB1=.....cm/sec

CLASSIFICATION M.I.T.

COURBES GRANULOMETRIQUES

TYPE D'ECHANT. : OU m

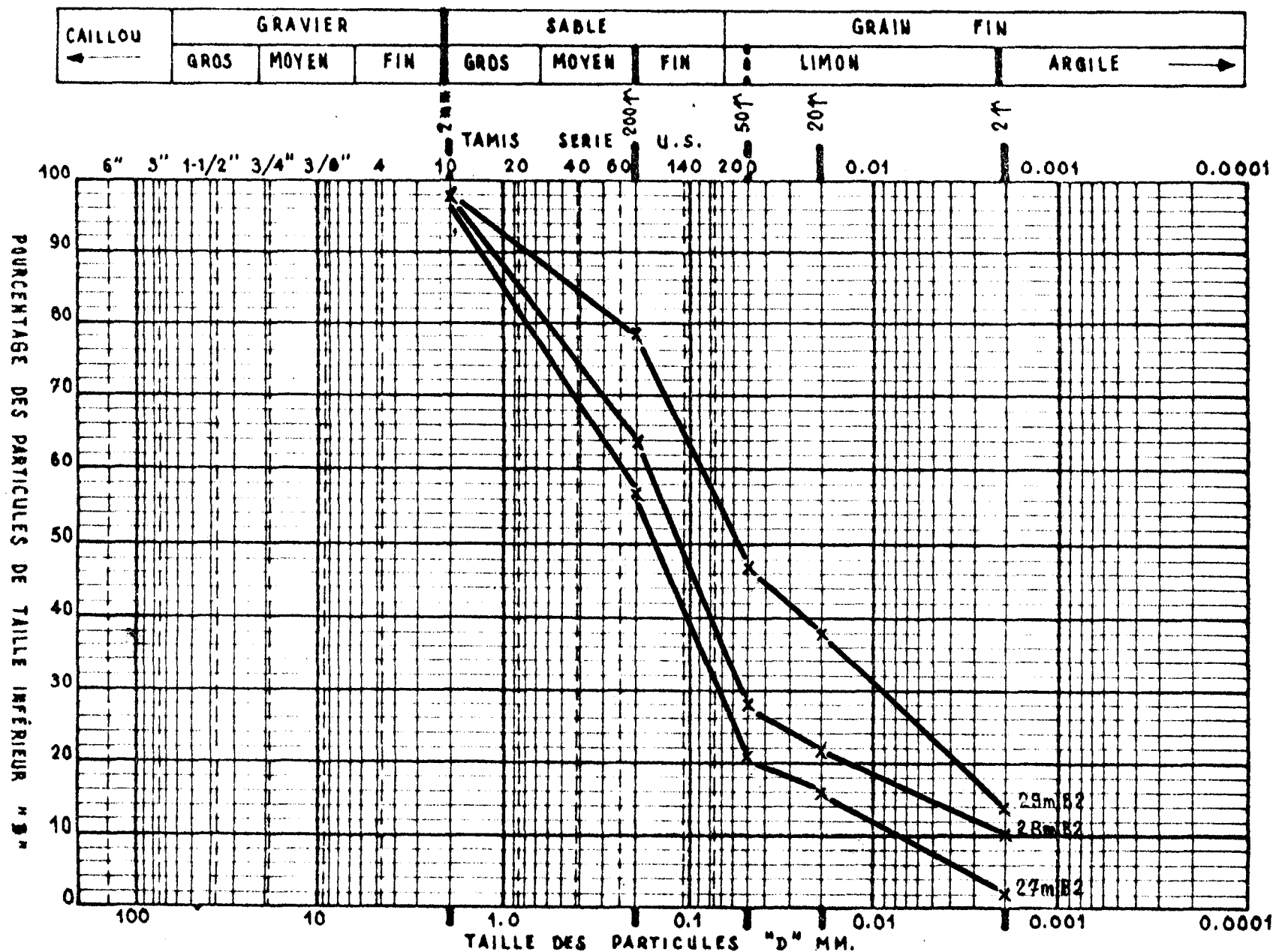
MAURITANIE

PAYS

PIEZOMETRE N° [15] [48] [D1A242] [HP]

COORDONNEES (MTU) X: Y:

ORGANISATION POUR LA MISE EN VALEUR DU FLEUVE SENEGAL (O.M.V.S.)
DIRECTION DE L'INFRASTRUCTURE REGIONALE (D.I.R.)
PROJET 625-0958/U.S.A.I.D.



CLASSIFICATION M.I.T.

KB1 = N/R cm/sec

KB2 = $(28N) \cdot 4 \times 10^{-6}$ cm/sec

ORGANISATION POUR LA MISE EN VALEUR DU FLEUVE SENEGAL OMVS
DIRECTION DES INFRASTRUCTURES REGIONALES DIR
CELLULE EAUX SOUTERRAINES
PROJET OMVS/USAID 625-0958

REPERTOIRE HYDROGEOLOGIQUE

CARTE TOPOGRAPHIQUE 1:50,000

15 MATAM 4B

ANNEXE # 3

ANALYSES D'EAU

- * Commentaires pratiques
- * Résultats des analyses/ fiches signalétiques
- * Représentations graphiques

PROJET OMVS/USAID
625-0958

GUIDE PRATIQUE

Toutes les représentations graphiques des résultats des analyses chimiques des eaux et les tableaux présentant les résultats sont issus du logiciel GROUNDWATER/CHEMISTRY. Malgré son origine anglophone, il n'est pas apparu nécessaire de développer un guide lexicologique pour la lecture des graphiques.

Le système GES peut imprimer la fiche signalétique relative aux résultats d'analyses d'eau pour un piézomètre spécifique. Cette fiche, plus complète, regroupe des résultats d'analyses inutilisés dans les représentations graphiques.

Le lecteur notera que le numéro de la figure des représentations graphiques correspond au numéro du piézomètre ou du puits sur lequel l'échantillon d'eau a été prélevé ou la proximité du lieu où un échantillon de surface a été prélevé.

Le lecteur trouvera ci-après, la liste exhaustive de tous les fichiers traités dans le cadre de cette annexe, correspondant à autant de piézomètres et de puits regroupés dans les limites de la carte topographique 1/50,000 concernée.

Tous les piézomètres et les puits, traités dans cette annexe, sont localisés sur la carte 1/50,000 accompagnant ce document.

La liste exhaustive des piézomètres relative à cette carte résulte de l'exploitation d'un logiciel utilitaire XTREE.

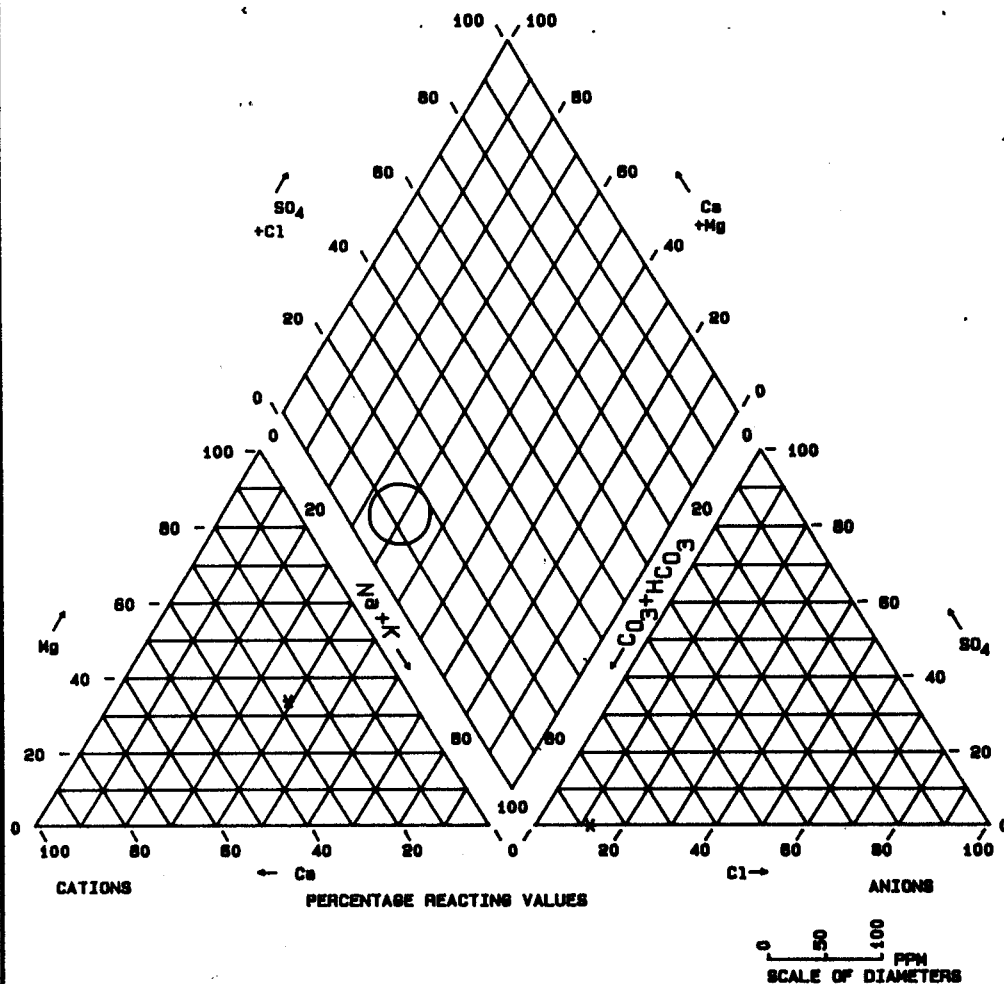
PROJET OMVS/USAID
625-0958

Path: C:\GWDATA\15-48

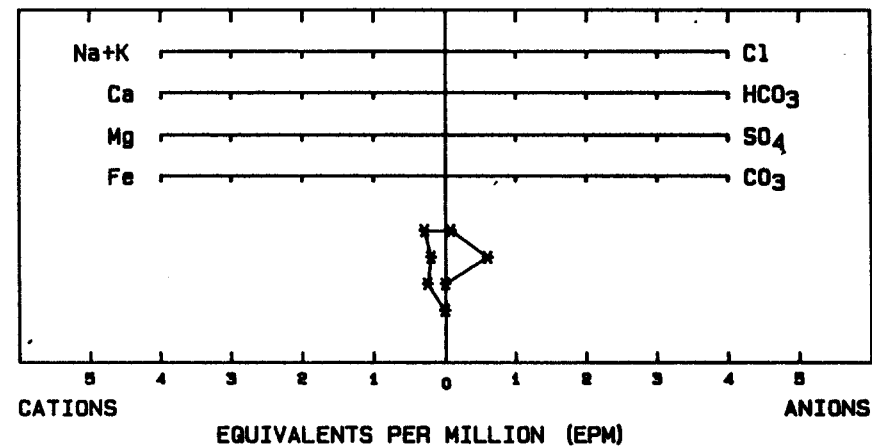
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DA239	.CHM	128	.a..	2-24-89	3:33	pm
DA241	.CHM	256	.a..	3-20-89	12:10	pm
DA242	.CHM	256	.a..	3-20-89	12:12	pm
GA0345	.CHM	256	.a..	3-20-89	12:13	pm
GA0346	.CHM	256	.a..	2-24-89	3:23	pm
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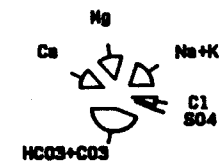
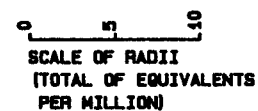
PIPER TRILINEAR DIAGRAM



STIFF GRAPH



PIE DIAGRAM



NOTE: ERROR (IF ANY) IN CATION/ANION
BALANCE HAS BEEN REMOVED

PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: MATAM 4B

SAMPLE: DA238 19/11/87

CHEMICAL GRAPHS

USAID/DAKAR/SENEGAL

FIGURE: DA238

CHEMISTRY ANALYSIS

PROJECT: OMVS/USAID

FILE: 625-0958

LOCATION: NATAM 4B

WELL NO.: DA238 19/11/87

CATIONS	PPM	EPM	% EPM
Ca	4.00	0.20	27.23
Mg	3.00	0.25	33.60
Na+K	7.00	0.29	39.10

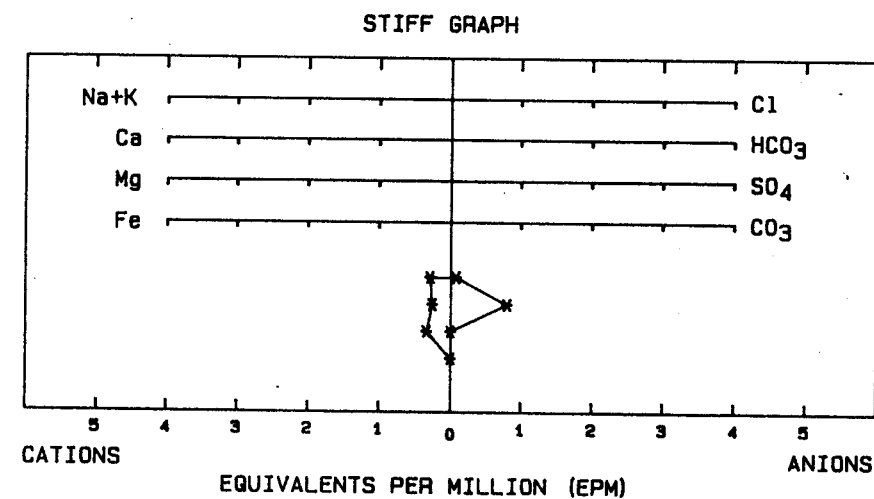
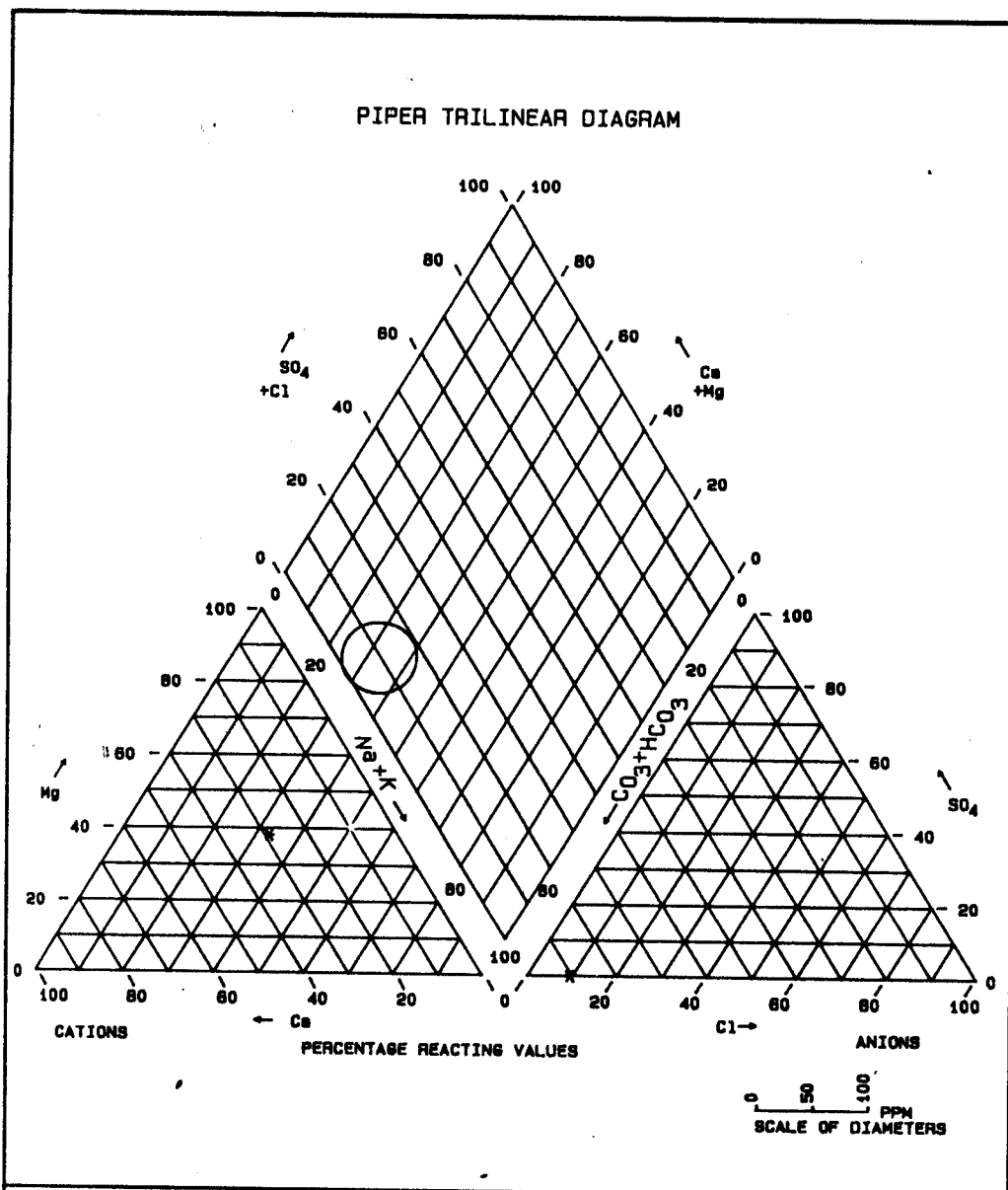
ANIONS	PPM	EPM	% EPM
HCO3+CO3	37.00	0.61	67.76
SO4	0.00	0.00	0.00
Cl	3.00	0.08	12.24

TOTAL DISSOLVED SOLIDS: 90

ERROR IN CATION/ANION BALANCE: 3.16 %

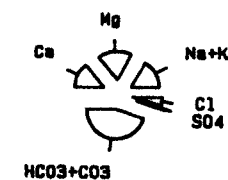
SODIUM ABSORPTION RATION (S.A.R.): 0.55

USAID/DAKAR/SENEGAL



PIE DIAGRAM

SCALE OF RADII
(TOTAL OF EQUIVALENTS
PER MILLION)



NOTE ERROR (IF ANY) IN CATION/ANION
BALANCE HAS BEEN REMOVED

PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: MATAM 4B

SAMPLE: DA239 19/11/87

CHEMICAL GRAPHS

USAID/DAKAR/SENEGAL

FIGURE: DA239

CHEMISTRY ANALYSIS

PROJECT: OMVS/USAID
LOCATION: MATAM 4B

FILE: 625-0958

WELL NO.: DA239 19/11/87

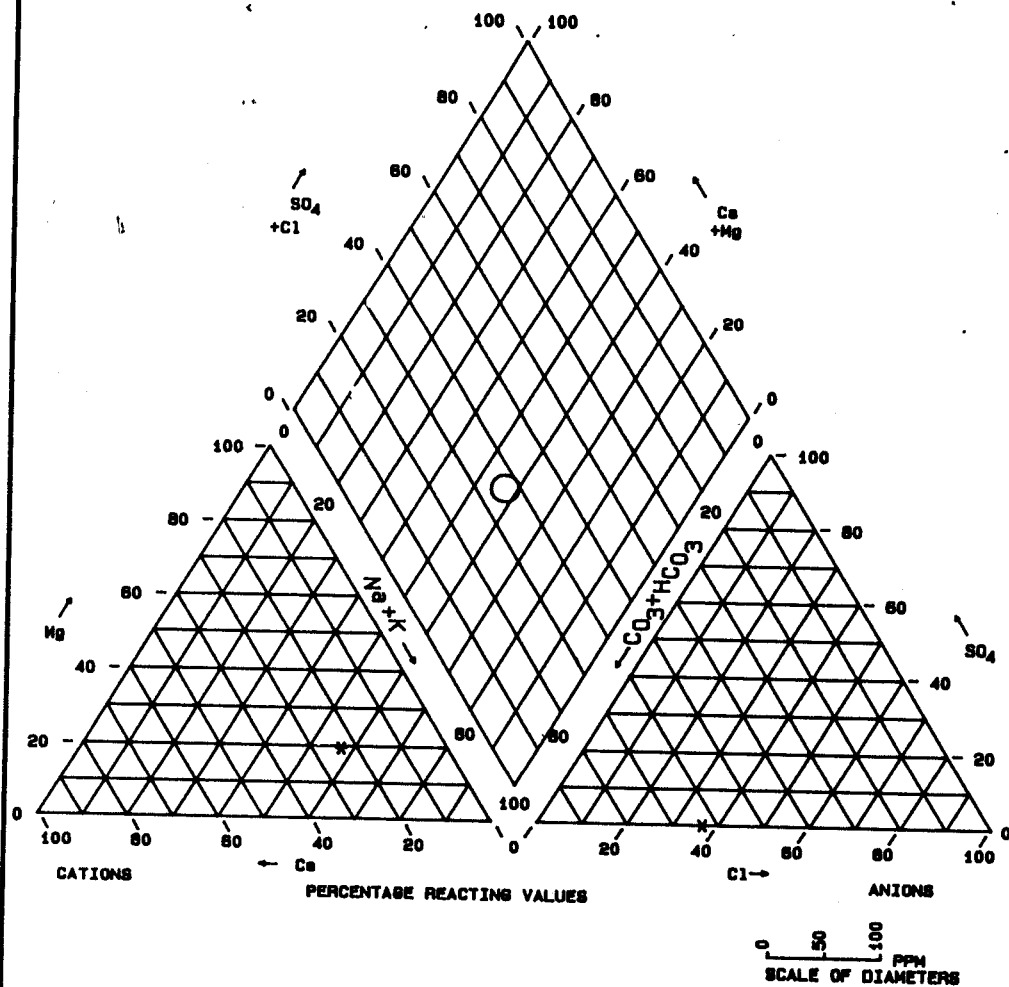
CATIONS	PPM	EPM	% EPM
Ca	5.00	0.25	28.84
Mg	4.00	0.33	38.03
Na+K	7.00	0.29	33.13

ANIONS	PPM	EPM	% EPM
HCO3+CO3	49.00	0.80	90.47
SO4	0.00	0.00	0.00
Cl	3.00	0.08	9.53

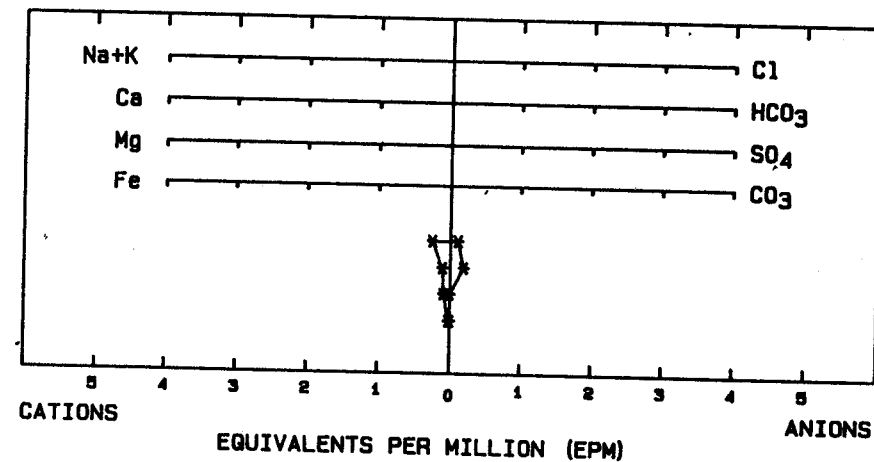
TOTAL DISSOLVED SOLIDS: 80
ERROR IN CATION/ANION BALANCE: 1.29 %
SODIUM ABSORPTION RATION (S.A.R.): 0.49

USAID/DAKAR/SENEGAL

PIPER TRILINEAR DIAGRAM

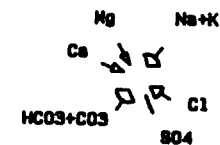


STIFF GRAPH



PIE DIAGRAM

SCALE OF RADII
(TOTAL OF EQUIVALENTS
PER MILLION)



NOTE ERROR (IF ANY) IN CATION/ANION
BALANCE HAS BEEN REMOVED

PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: MATAM 48

SAMPLE: DA241 18/11/87

CHEMICAL GRAPHS

USAID/DAKAR/SENEGAL

FIGURE: DA241

CHEMISTRY ANALYSIS

PROJECT: OMVS/USAID

FILE: 625-0958

LOCATION: MATAM 4B

WELL NO.: DA241 18/11/87

CATIONS	PPM	EPM	% EPM
Ca	2.00	0.10	23.48
Mg	1.00	0.08	19.35
Na+K	6.00	0.24	57.18

ANIONS	PPM	EPM	% EPM
HCO3+CO3	12.00	0.20	63.55
SO4	0.00	0.00	0.00
Cl	4.00	0.11	36.45

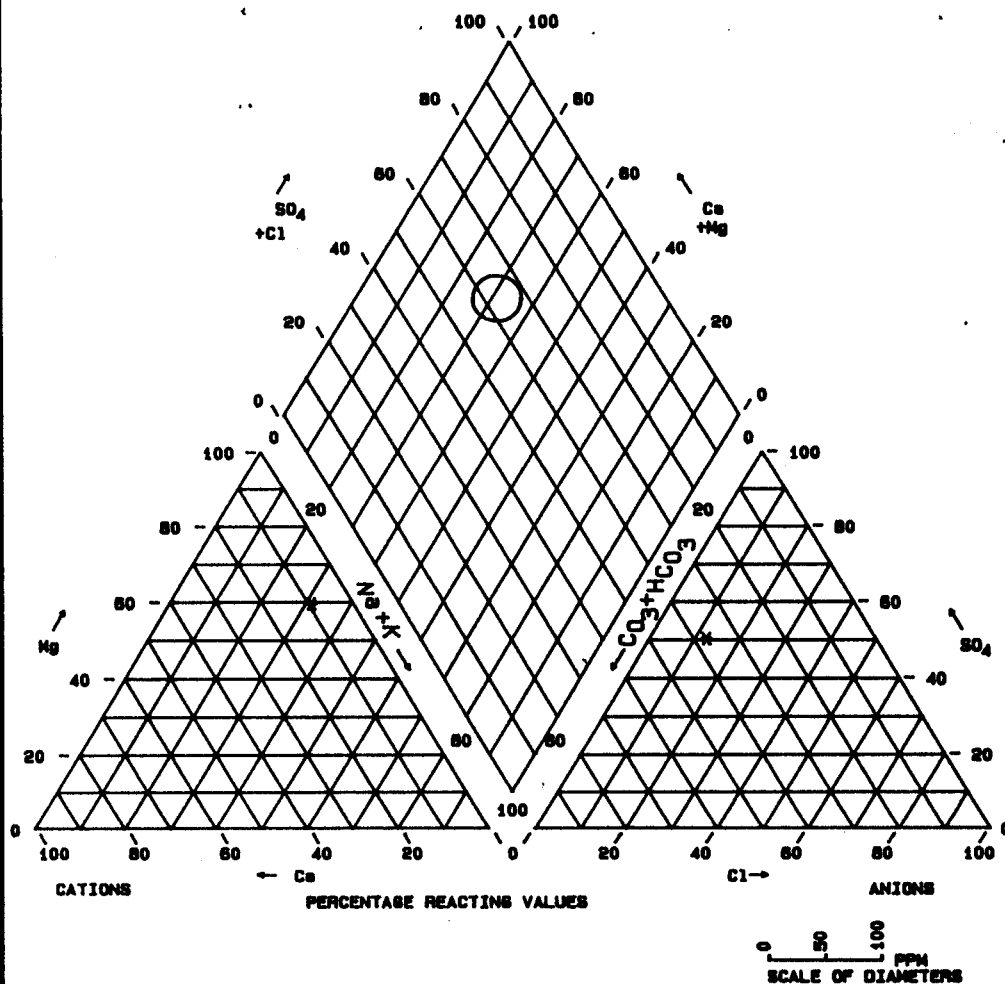
TOTAL DISSOLVED SOLIDS: 90

ERROR IN CATION/ANION BALANCE: 16.92 %

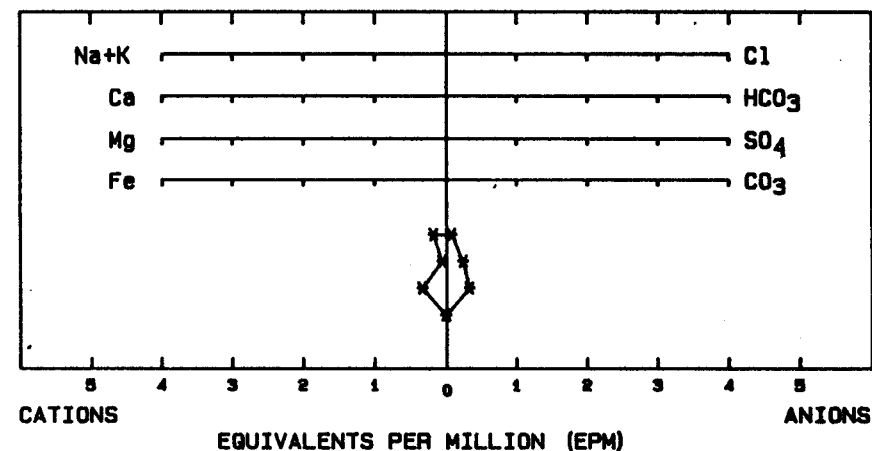
SODIUM ABSORPTION RATION (S.A.R.): 0.72

USAID/DAKAR/SENEGAL

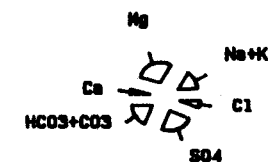
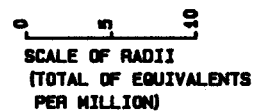
PIPER TRILINEAR DIAGRAM



STIFF GRAPH



PIE DIAGRAM



NOTE ERROR (IF ANY) IN CATION/ANION BALANCE HAS BEEN REMOVED

PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: MATAM 4B

SAMPLE: DA241 27/02/88

CHEMICAL GRAPHS

USAID/DAKAR/SENEGAL

FIGURE: DA241

CHEMISTRY ANALYSIS

PROJECT: OMVS/USAID
LOCATION: MATAM 4B

FILE: 625-0958

WELL NO.: DA241 27/02/88

CATIONS	PPM	EPM	% EPM
Ca	1.00	0.05	9.03
Mg	4.00	0.33	59.50
Na+K	4.00	0.17	31.47

ANIONS	PPM	EPM	% EPM
HCO3+CO3	15.00	0.25	37.05
SO4	16.00	0.33	50.20
Cl	3.00	0.08	12.75

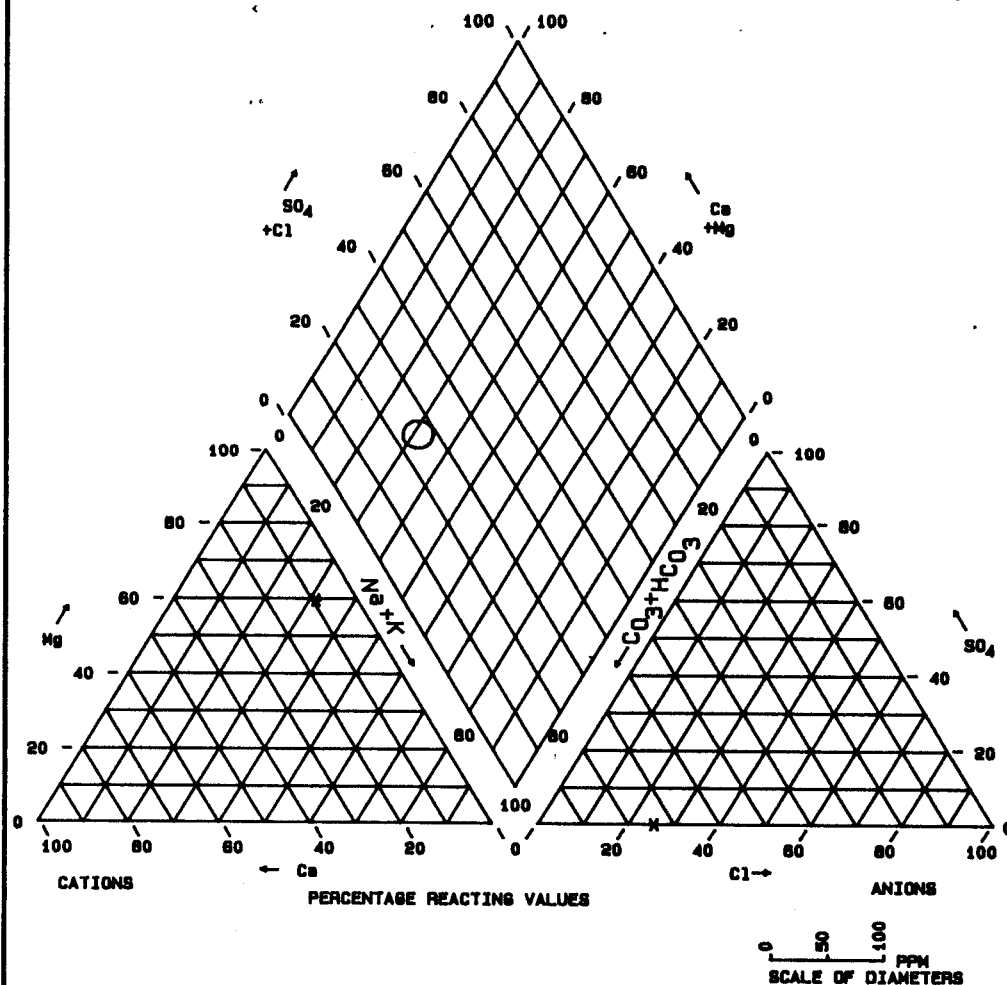
TOTAL DISSOLVED SOLIDS: 20

ERROR IN CATION/ANION BALANCE: 8.88 %

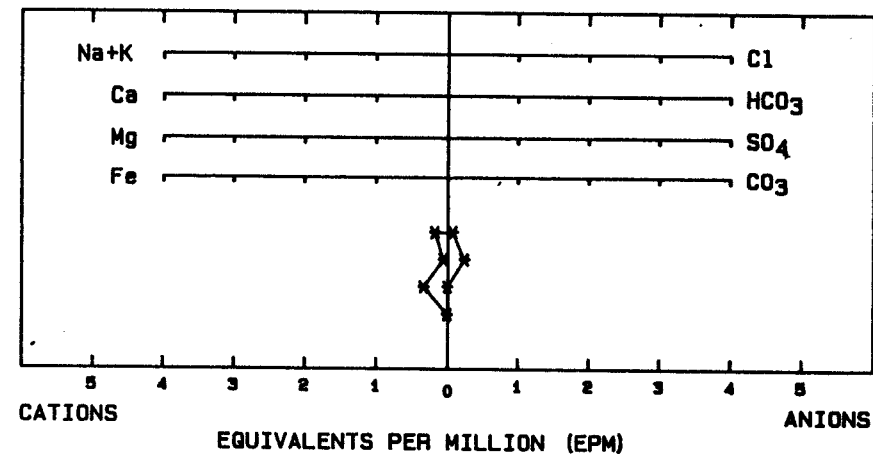
SODIUM ABSORPTION RATION (S.A.R.): 0.40

USAID/DAKAR/SENEGAL

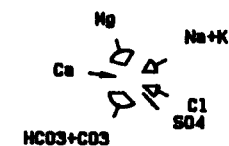
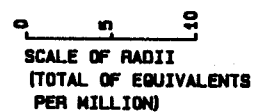
PIPER TRILINEAR DIAGRAM



STIFF GRAPH



PIE DIAGRAM



NOTE ERROR (IF ANY) IN CATION/ANION BALANCE HAS BEEN REMOVED

PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: MATAM 4B

SAMPLE: DA241 28/02/88

CHEMICAL GRAPHS

USAID/DAKAR/SENEGAL

FIGURE: DA241

CHEMISTRY ANALYSIS

PROJECT: DRUGS/USAID
LOCATION: MATAM 4B

FILE: 625-0958

WELL NO.: DA241 28/02/88

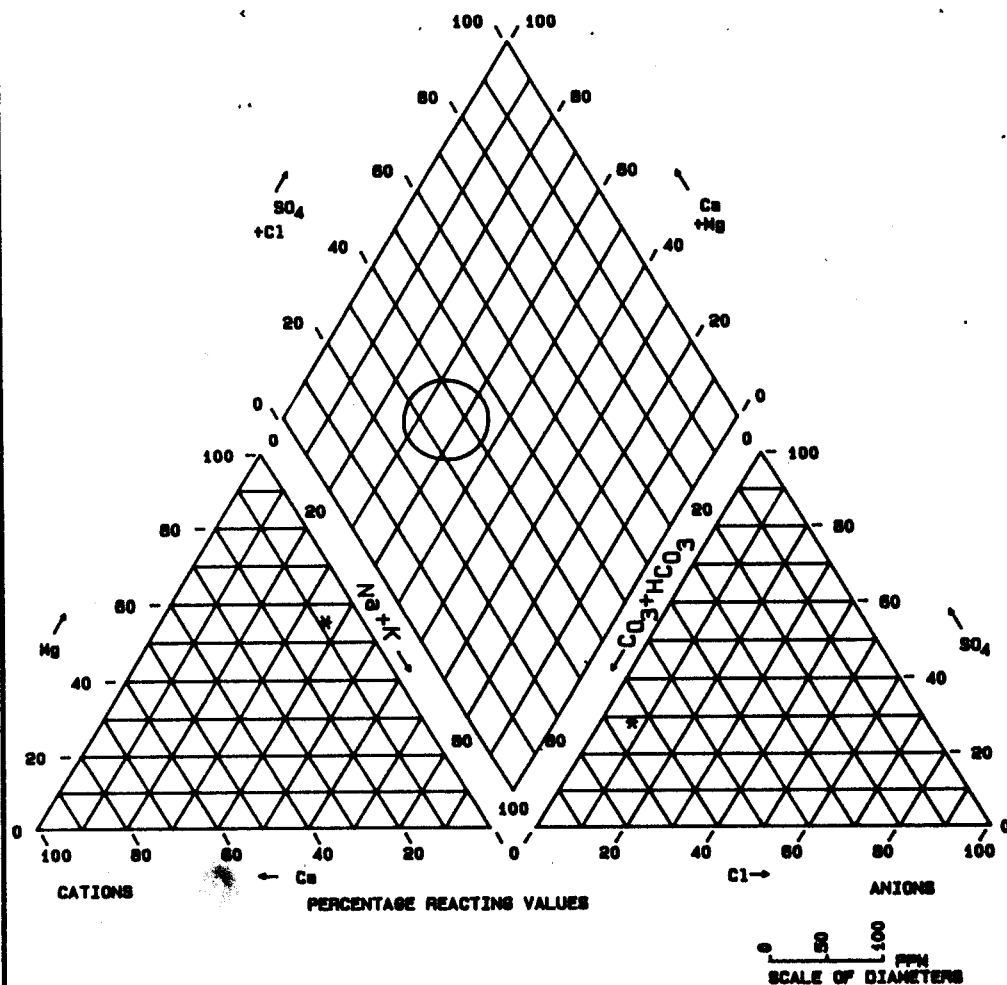
CATIONS	PPM	EPM	% EPM
Ca	1.00	0.05	9.03
Mg	4.00	0.33	59.50
Na+K	4.00	0.17	31.47

ANIONS	PPM	EPM	% EPM
HCO3+CO3	13.00	0.25	74.40
SO4	0.00	0.00	0.00
Cl	3.00	0.08	25.60

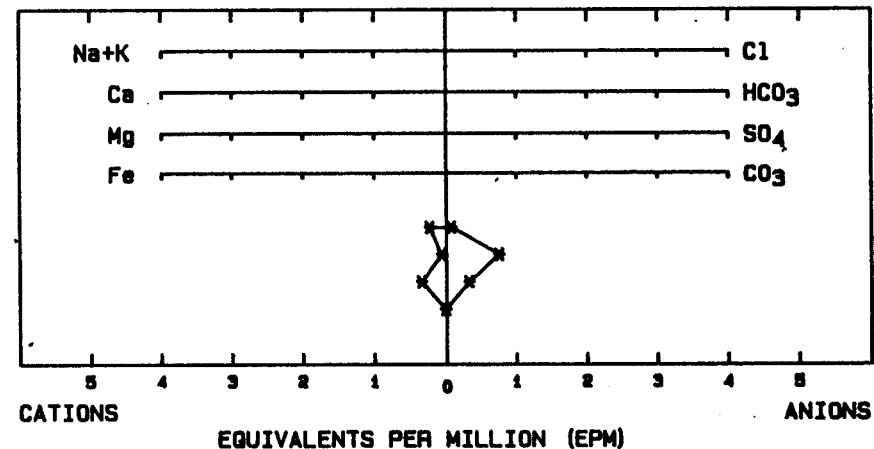
TOTAL DISSOLVED SOLIDS: 20
ERROR IN CATION/ANION BALANCE: 25.36 %
SODIUM ABSORPTION RATION (S.A.R.): 0.40

USAID/DAKAR/SENEGAL

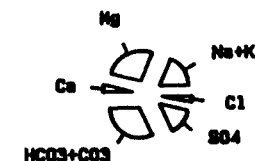
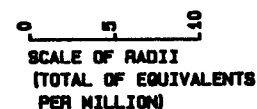
PIPER TRILINEAR DIAGRAM



STIFF GRAPH



PIE DIAGRAM



NOTE ERROR (IF ANY) IN CATION/ANION
BALANCE HAS BEEN REMOVED

PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: MATAM 4B

SAMPLE: DA242 04/03/88

CHEMICAL GRAPHS

USAID/DAKAR/SENEGAL

FIGURE: DA242

CHEMISTRY ANALYSIS

PROJECT: OMVS/USAID
LOCATION: MATAM 4B

FILE: 625-0958

WELL NO.: DA242 04/03/88

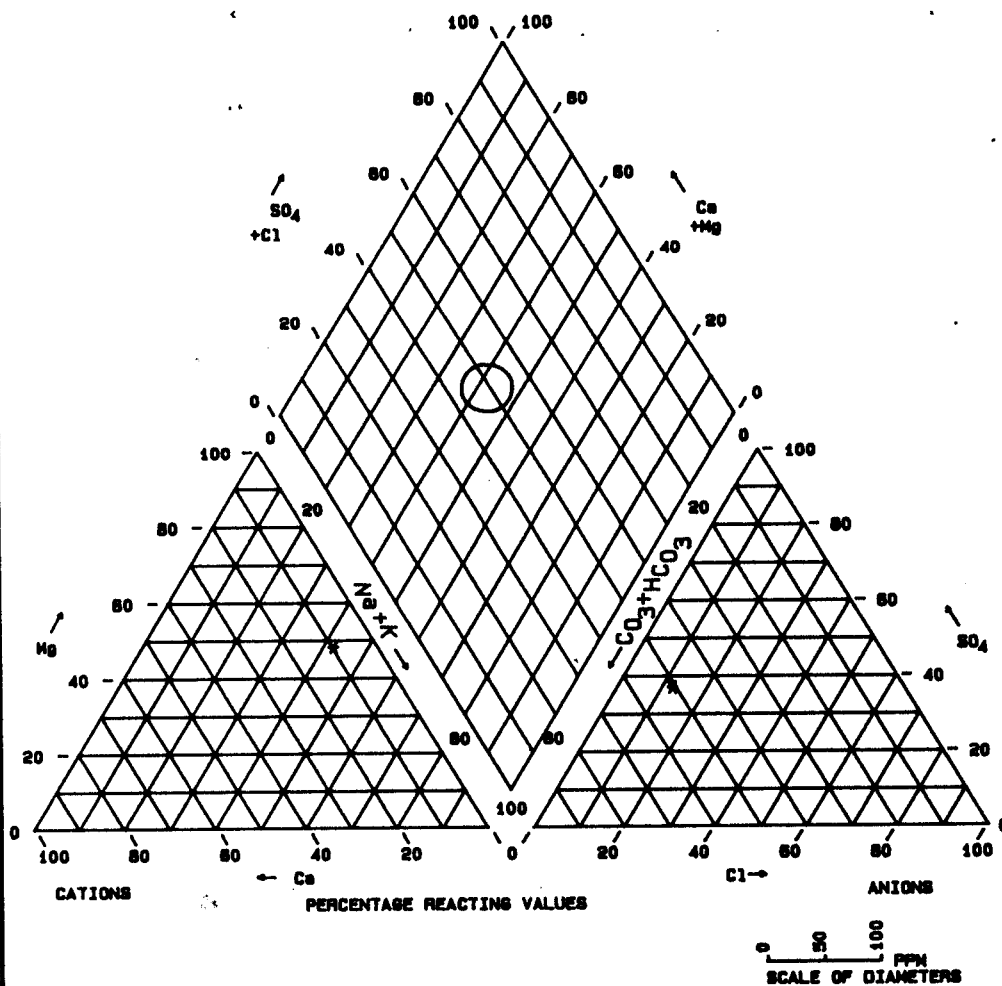
CATIONS	PPM	EPM	% EPM
Ca	1.00	0.05	8.37
Mg	4.00	0.33	55.16
Na+K	5.00	0.22	36.47

ANIONS	PPM	EPM	% EPM
HCO3+CO3	46.00	0.75	64.35
SO4	16.00	0.33	28.43
Cl	3.00	0.08	7.22

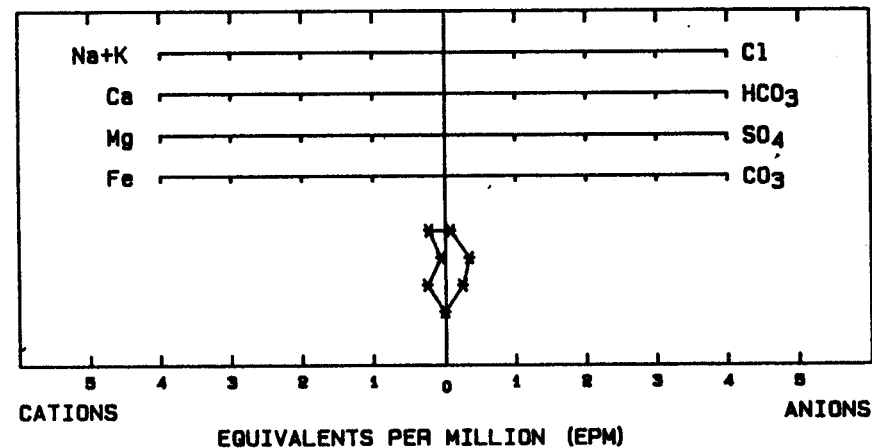
TOTAL DISSOLVED SOLIDS: 30
ERROR IN CATION/ANION BALANCE: 31.98 %
SODIUM ABSORPTION RATION (S.A.R.): 0.50

USAID/DAKAR/SENEGAL

PIPER TRILINEAR DIAGRAM

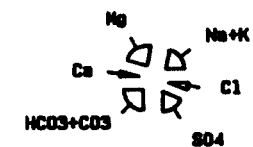


STIFF GRAPH



PIE DIAGRAM

SCALE OF RADII
(TOTAL OF EQUIVALENTS
PER MILLION)



NOTE ERROR (IF ANY) IN CATION/ANION
BALANCE HAS BEEN REMOVED

PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: MATAM 4B

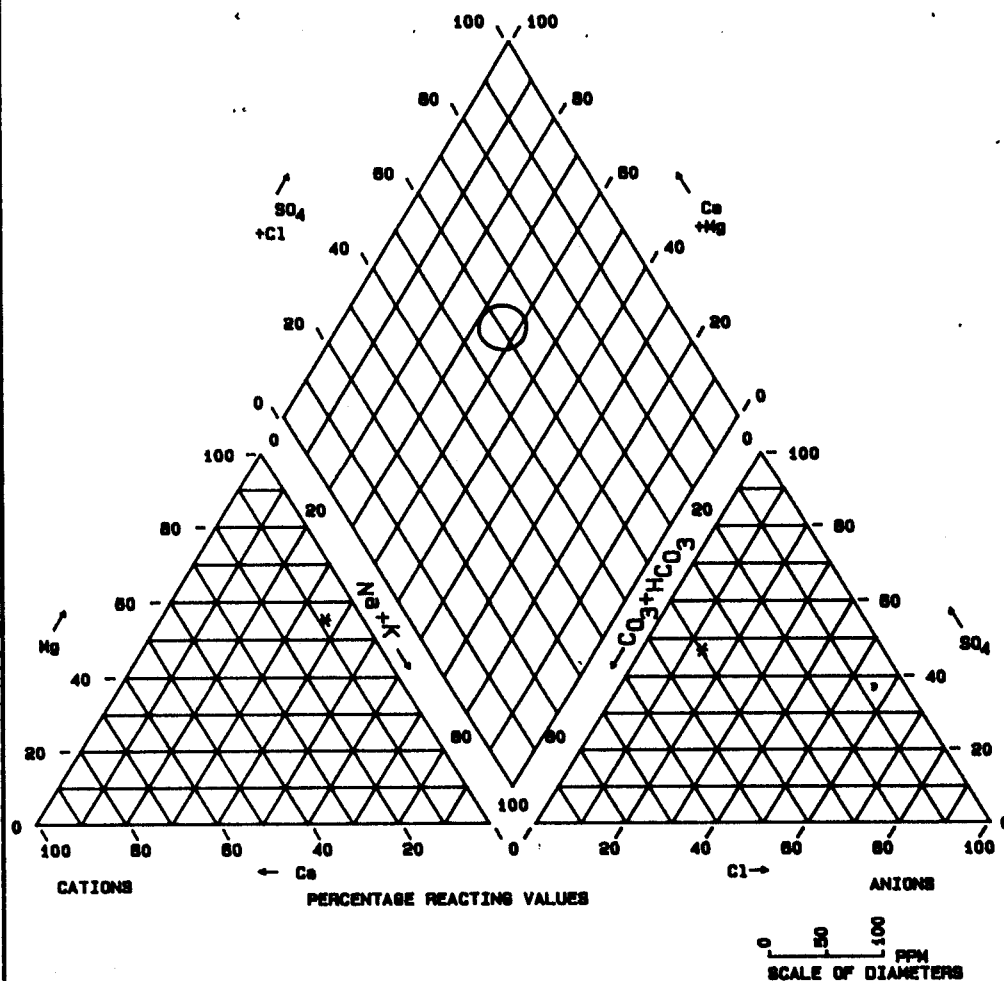
SAMPLE: DA242 05/03/88

CHEMICAL GRAPHS

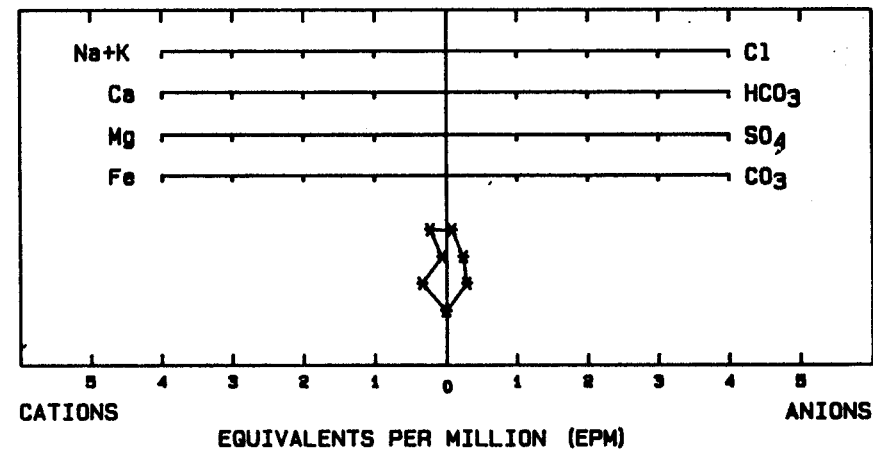
USAID/DAKAR/SENEGAL

FIGURE: DA242

PIPER TRILINEAR DIAGRAM

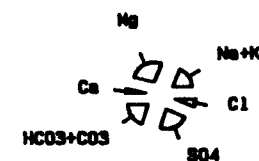


STIFF GRAPH



PIE DIAGRAM

SCALE OF RADII
(TOTAL OF EQUIVALENTS
PER MILLION)



NOTE ERROR (IF ANY) IN CATION/ANION
BALANCE HAS BEEN REMOVED

PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: MATAM 4B

SAMPLE: DA242 06/03/88

CHEMICAL GRAPHS

USAID/DAKAR/SENEGAL

FIGURE: DA242

CHEMISTRY ANALYSIS

PROJECT: DMVS/USAID
LOCATION: MATAM 48

FILE: 625-0958

WELL NO.: DA242 06/03/88

CATIONS	PPM	EPM	% EPM
Ca	1.00	0.05	8.37
Mg	4.00	0.33	55.16
Na+K	5.00	0.22	36.47

ANIONS	PPM	EPM	% EPM
HCO3+CO3	15.00	0.25	39.53
SO4	14.00	0.29	46.87
Cl	3.00	0.08	13.60

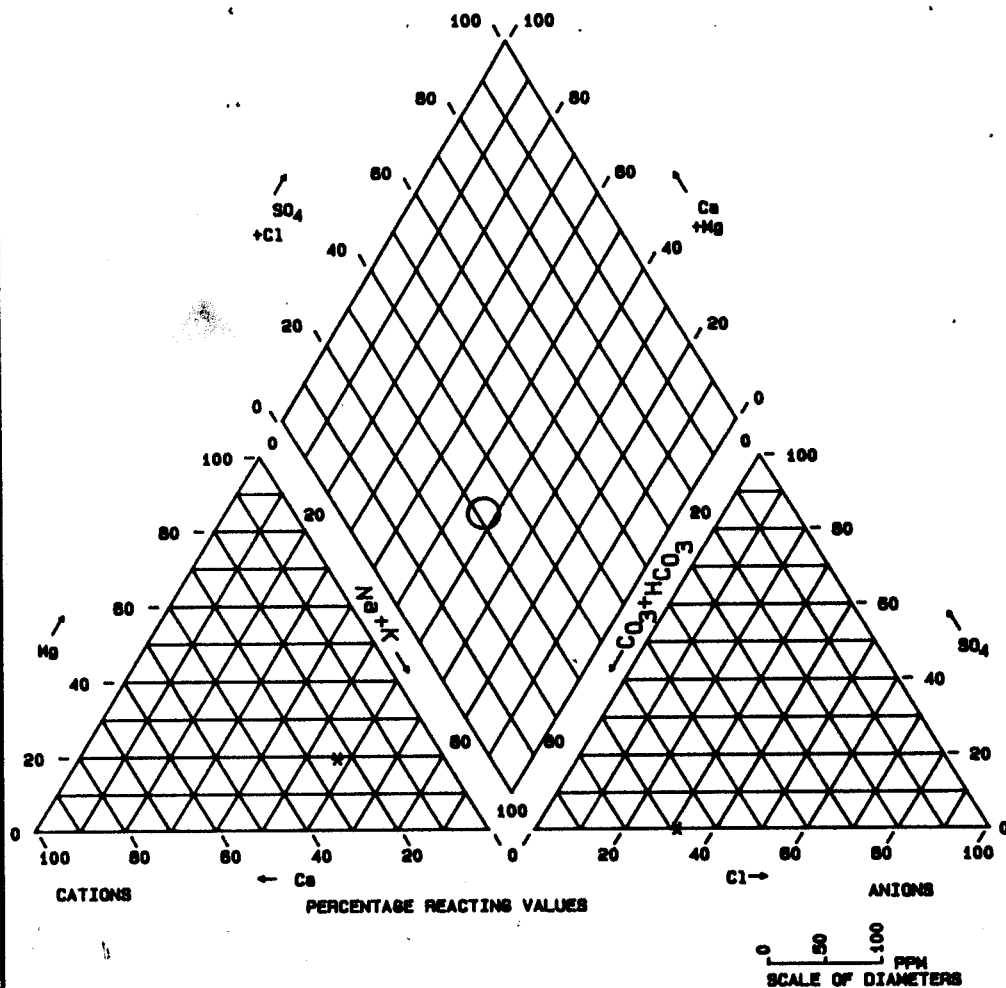
TOTAL DISSOLVED SOLIDS: 20

ERROR IN CATION/ANION BALANCE: 1.71 %

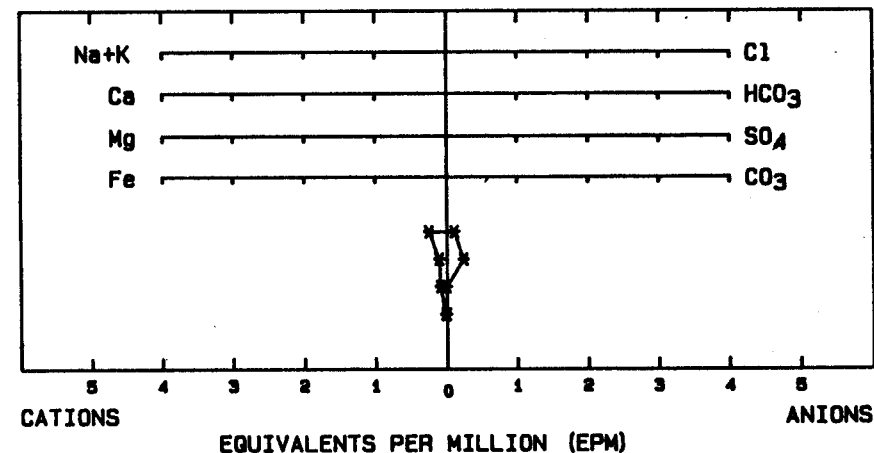
SODIUM ABSORPTION RATION (S.A.R.): 0.50

USAID/DAKAR/SENEGAL

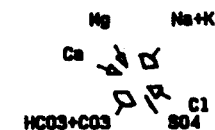
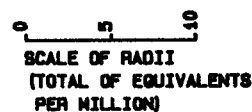
PIPER TRILINEAR DIAGRAM



STIFF GRAPH



PIE DIAGRAM



NOTE ERROR (IF ANY) IN CATION/ANION
BALANCE HAS BEEN REMOVED

PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: MATAM 4B

SAMPLE: DA242 18/11/87

CHEMICAL GRAPHS

USAID/DAKAR/SENEGAL

FIGURE: DA242

CHEMISTRY ANALYSIS

PROJECT: OMVS/USAID
LOCATION: MATAM 4B

FILE: 625-0958

WELL NO.: DA242 18/11/87

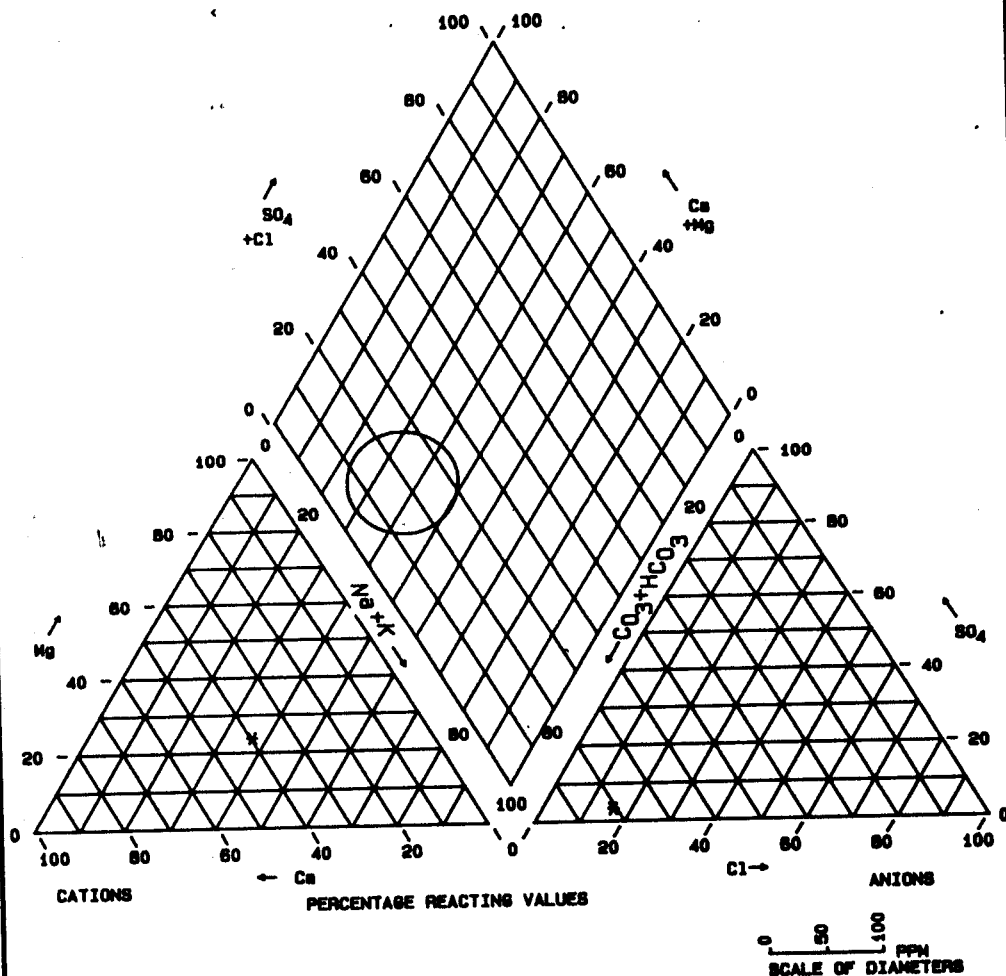
CATIONS	PPM	EPM	X EPM
Ca	2.00	0.10	23.48
Mg	1.00	0.08	19.35
Na+K	6.00	0.24	57.18

ANIONS	PPM	EPM	X EPM
HCO3+CO3	15.00	0.25	68.55
SO4	0.00	0.00	0.00
Cl	4.00	0.11	31.45

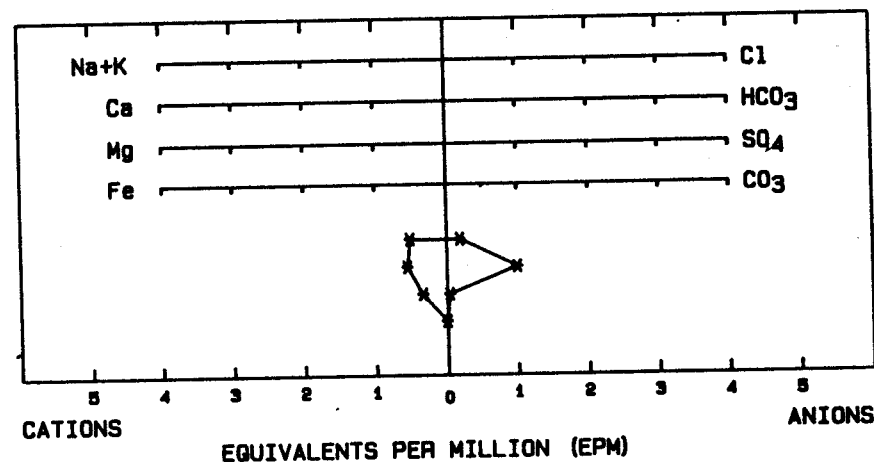
TOTAL DISSOLVED SOLIDS: 85
ERROR IN CATION/ANION BALANCE: 9.72 %
SODIUM ABSORPTION RATION (S.A.R.): 0.72

USAID/DAKAR/SENEGAL

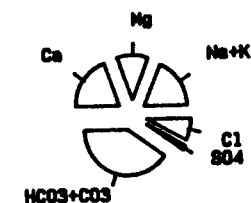
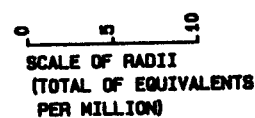
PIPER TRILINEAR DIAGRAM



STIFF GRAPH



PIE DIAGRAM



NOTE: ERROR (IF ANY) IN CATION/ANION BALANCE HAS BEEN REMOVED

PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: MATAM 4B

SAMPLE: 6A0345 15/03/88

CHEMICAL GRAPHS

USAID/DAKAR/SENEGAL

FIGURE: GA0345

CHEMISTRY ANALYSIS

PROJECT: OMVS/USAID
LOCATION: NATAM 4B

FILE: 625-0958

WELL NO.: GA0345 15/03/88

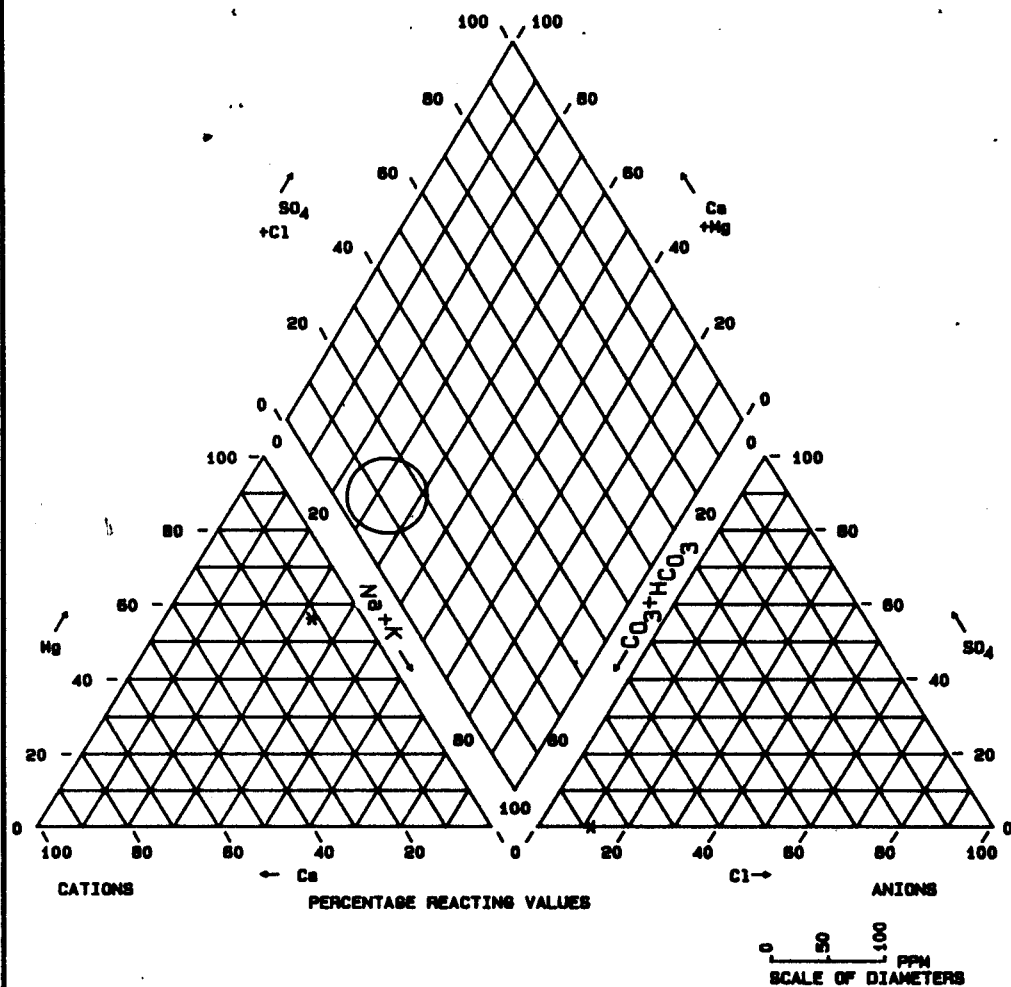
CATIONS	PPM	EPM	% EPM
Ca	11.00	0.55	39.50
Mg	4.00	0.33	23.67
Na+K	13.00	0.51	36.83

ANIONS	PPM	EPM	% EPM
HCO3+CO3	61.00	1.00	80.70
SO4	2.00	0.04	3.36
Cl	7.00	0.20	15.93

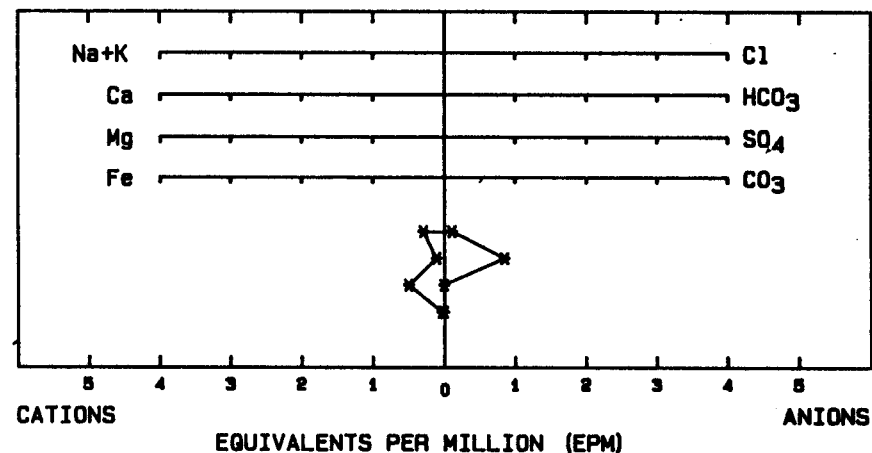
TOTAL DISSOLVED SOLIDS: 110
ERROR IN CATION/ANION BALANCE: 5.74 %
SODIUM ABSORPTION RATION (S.A.R.): 0.66

USAID/DAKAR/SENEGAL

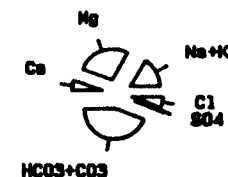
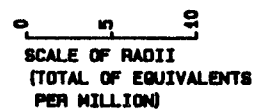
PIPER TRILINEAR DIAGRAM



STIFF GRAPH



PIE DIAGRAM



NOTE ERROR (IF ANY) IN CATION/ANION
BALANCE HAS BEEN REMOVED

PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: MATAM 4B

SAMPLE: GA0345 18/07/88

CHEMICAL GRAPHS

USAID/DAKAR/SENEGAL

FIGURE: GA0345

CHEMISTRY ANALYSIS

PROJECT: OMVS/USAID
LOCATION: NATAM 4B

FILE: 625-0958

WELL NO.: GA0345 20/07/88

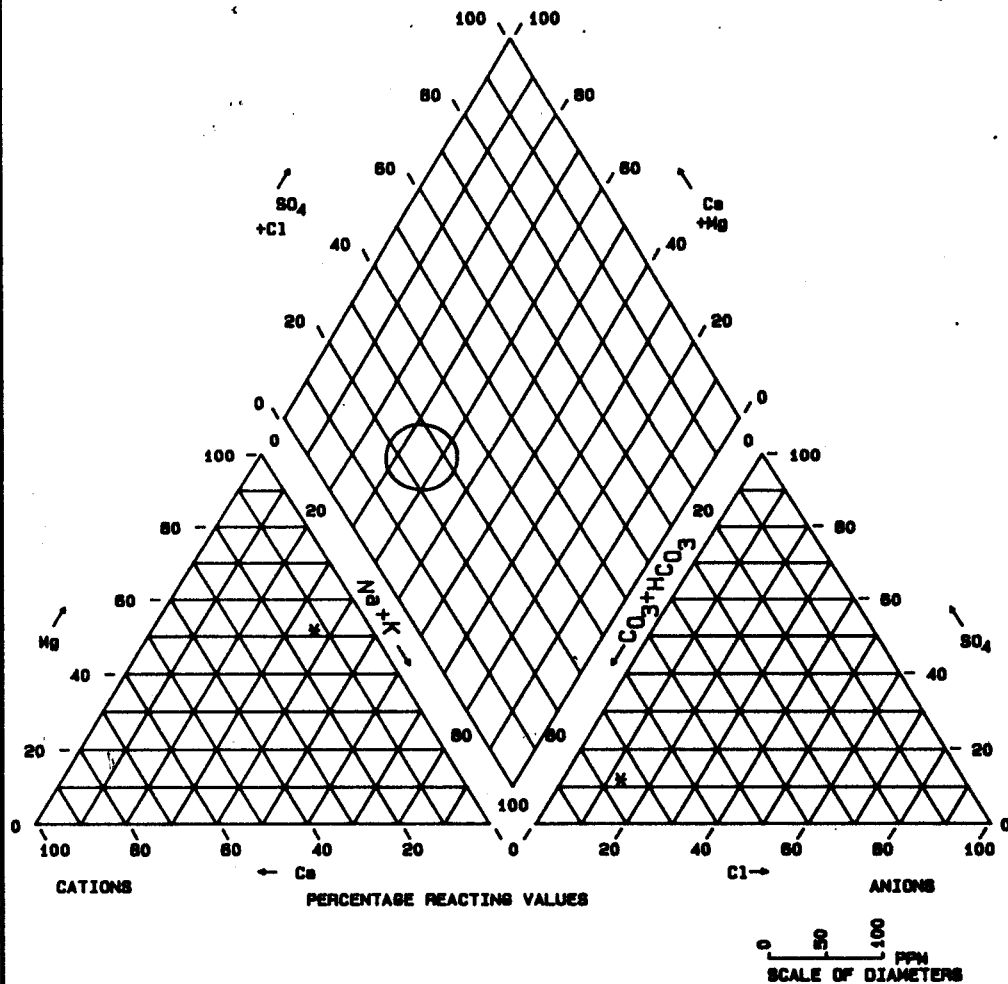
CATIONS	PPM	EPM	% EPM
Ca	2.00	0.10	12.51
Mg	5.00	0.41	51.56
Na+K	7.00	0.29	35.93

ANIONS	PPM	EPM	% EPM
HCO3+CO3	40.00	0.66	75.14
SO4	5.00	0.10	11.93
Cl	4.00	0.11	12.93

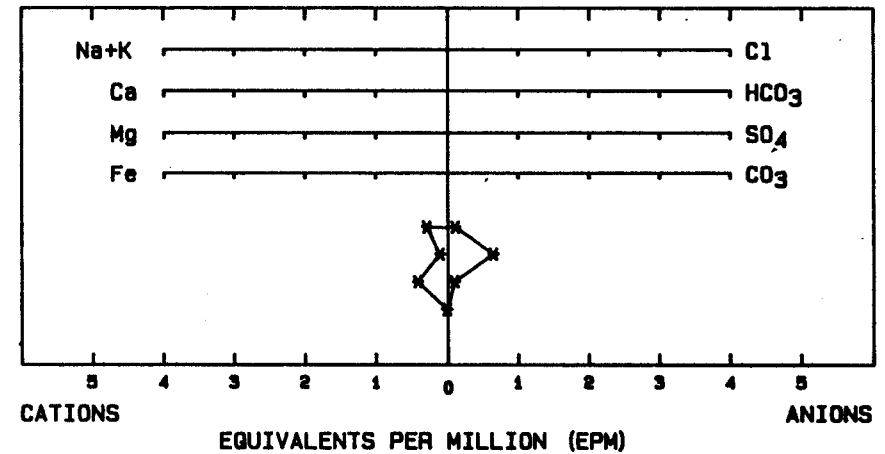
TOTAL DISSOLVED SOLIDS: 80
ERROR IN CATION/ANION BALANCE: 4.15 %
SODIUM ABSORPTION RATION (S.A.R.): 0.52

USAID/DAKAR/SENEGAL

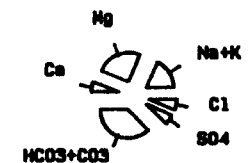
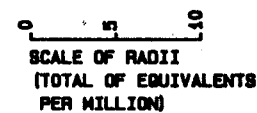
PIPER TRILINEAR DIAGRAM



STIFF GRAPH



PIE DIAGRAM



NOTE ERROR (IF ANY) IN CATION/ANION
BALANCE HAS BEEN REMOVED

PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: MATAM 4B

SAMPLE: GA0345 21/07/88

CHEMICAL GRAPHS

USAID/DAKAR/SENEGAL

FIGURE: GA0345

CHEMISTRY ANALYSIS

PROJECT: OMVS/USAID

FILE: 625-0958

LOCATION: MATAM 4B

WELL NO.: GA0345 21/07/88

CATIONS	PPM	EPM	X EPM
Ca	2.00	0.10	12.51
Mg	5.00	0.41	51.56
Na+K	7.00	0.29	35.93

ANIONS	PPM	EPM	X EPM
HCO3+CO3	40.00	0.66	75.14
SO4	5.00	0.10	11.93
Cl	4.00	0.11	12.93

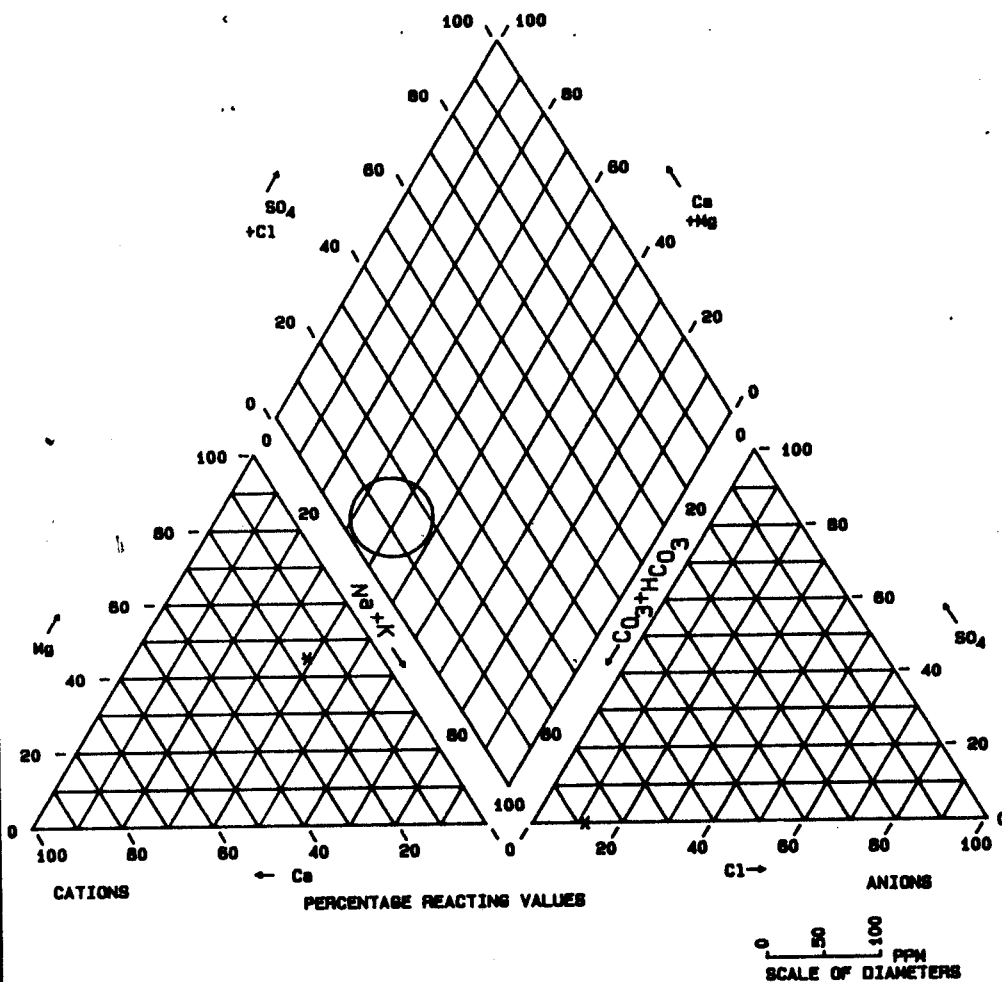
TOTAL DISSOLVED SOLIDS: 80

ERROR IN CATION/ANION BALANCE: 4.22 %

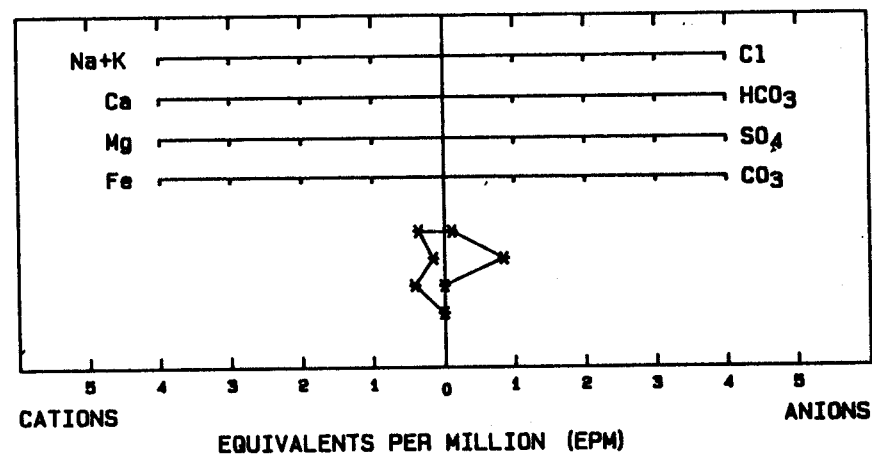
SODIUM ABSORPTION RATION (S.A.R.): 0.52

USAID/DAKAR/SENEGAL

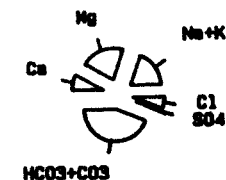
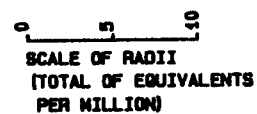
PIPER TRILINEAR DIAGRAM



STIFF GRAPH



PIE DIAGRAM



NOTE ERROR (IF ANY) IN CATION/ANION
BALANCE HAS BEEN REMOVED

PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: MATAM 4B

SAMPLE: GA0346 30/07/88

CHEMICAL GRAPHS

USAID/DAKAR/SENEGAL

FIGURE: GA0346

CHEMISTRY ANALYSIS

PROJECT: OMVS/USAID

FILE: 625-0958

LOCATION: NATAM 48

WELL NO.: GA0346 30/07/88

CATIONS	PPM	EPM	% EPM
Ca	3.00	0.15	16.33
Mg	5.00	0.41	44.86
Na+K	9.00	0.36	38.80

ANIONS	PPM	EPM	% EPM
HCO3+CO3	52.00	0.85	88.31
SO4	0.00	0.00	0.00
Cl	4.00	0.11	11.69

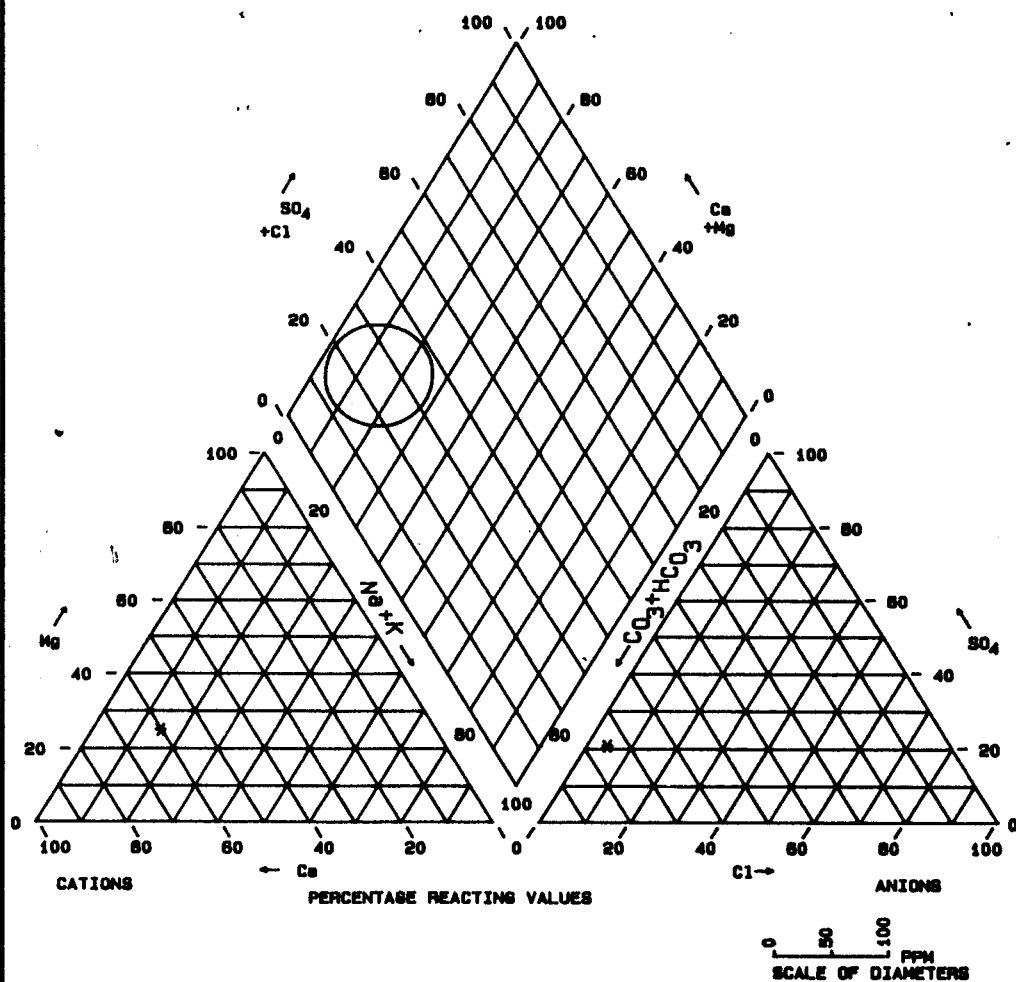
TOTAL DISSOLVED SOLIDS: 100

ERROR IN CATION/ANION BALANCE: 2.38 %

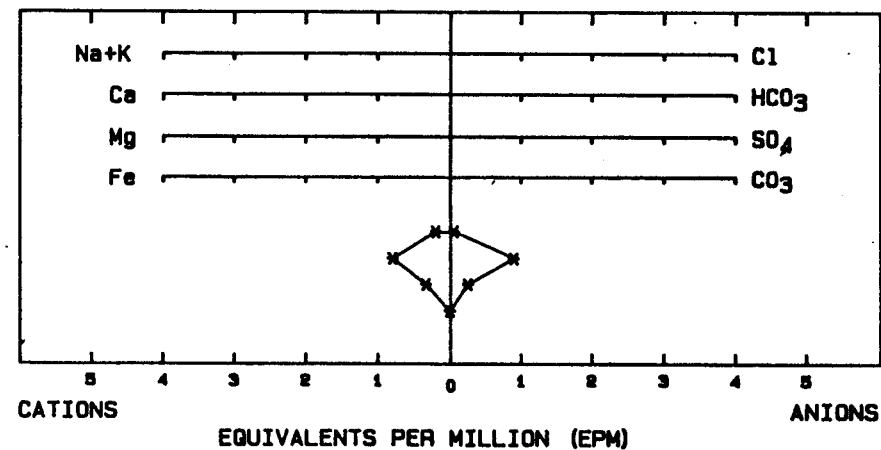
SODIUM ABSORPTION RATION (S.A.R.): 0.57

USAID/DAKAR/SENEGAL

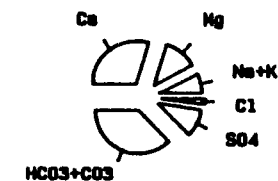
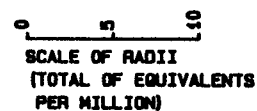
PIPER TRILINEAR DIAGRAM



STIFF GRAPH



PIE DIAGRAM



NOTE: ERROR (IF ANY) IN CATION/ANION BALANCE HAS BEEN REMOVED

PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: MATAM 4B

SAMPLE: GB0641 22/04/88

CHEMICAL GRAPHS

USAID/DAKAR/SENEGAL

FIGURE: GB0641

CHEMISTRY ANALYSIS

PROJECT: OMVS/USAID
LOCATION: MATAM 4B

FILE: 625-0958

WELL NO.: GB0641 22/04/88

CATIONS	PPM	EPM	% EPM
Ca	16.00	0.80	60.17
Mg	4.00	0.33	24.79
Na+K	5.00	0.20	15.04

ANIONS	PPM	EPM	% EPM
HCO3+CO3	55.00	0.90	74.64
SO4	12.00	0.25	20.69
Cl	2.00	0.06	4.67

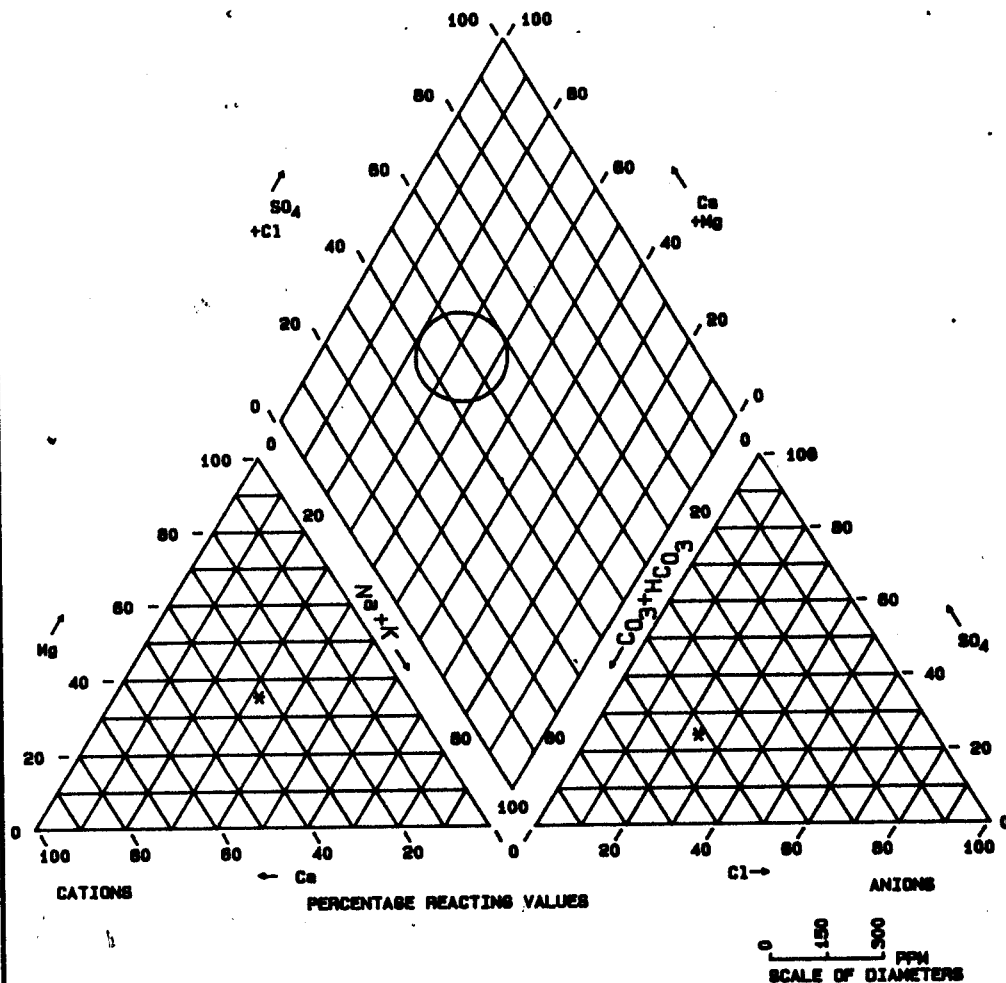
TOTAL DISSOLVED SOLIDS: 70

ERROR IN CATION/ANION BALANCE: 4.77 %

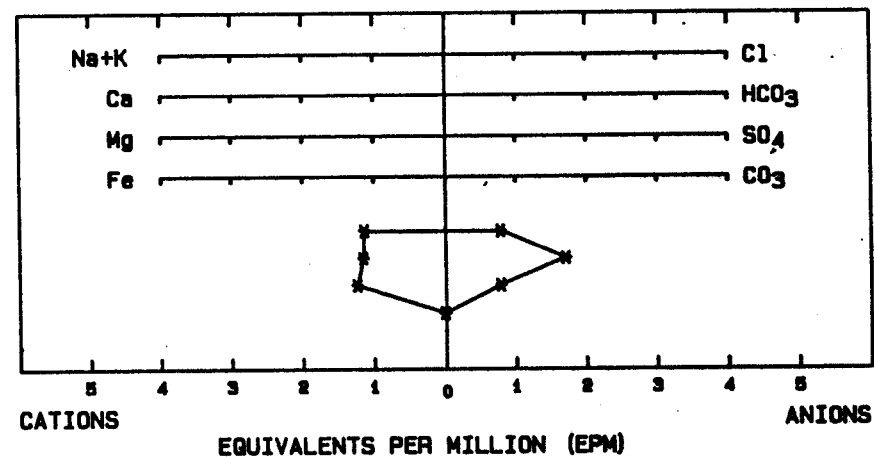
SODIUM ABSORPTION RATION (S.A.R.): 0.23

USAID/DAKAR/SENEGAL

PIPER TRILINEAR DIAGRAM

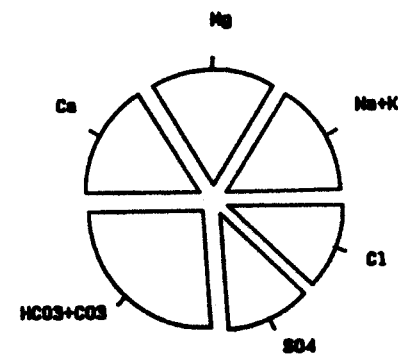


STIFF GRAPH



PIE DIAGRAM

SCALE OF RADII
(TOTAL OF EQUIVALENTS
PER MILLION)



NOTE: ERROR (IF ANY) IN CATION/ANION
BALANCE HAS BEEN REMOVED

PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: MATAM 4B

SAMPLE: GB0980 21/04/88

CHEMICAL GRAPHS

USAID/DAKAR/SENEGAL

FIGURE: GB0980

CHEMISTRY ANALYSIS

PROJECT: OMVS/USAID

FILE: 625-0958

LOCATION: MATAM 4B

WELL NO.: GB0980 21/04/88

CATIONS	PPM	EPM	% EPM
Ca	23.00	1.15	32.70
Mg	15.00	1.23	35.15
Na+K	35.00	1.13	32.15

ANIONS	PPM	EPM	% EPM
HCO3+CO3	104.00	1.70	51.88
SO4	38.00	0.79	24.08
Cl	28.00	0.79	24.03

TOTAL DISSOLVED SOLIDS: 168

ERROR IN CATION/ANION BALANCE: 3.33 %

SODIUM ABSORPTION RATION (S.A.R.): 0.52

USAID/DAKAR/SENEGAL