



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

09 KAEDI 2A
09 KAEDI 2B

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

PROJET OMVS/USAID
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09 KAEDI 2A

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REPERTOIRE HYDROGEOLOGIQUE

CARTE TOPOGRAPHIQUE 1:50,000

09 KAEDI 2A

ANNEXE # 1

POUR CHACUN DES PIEZOMETRES

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

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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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11 tagged files using 7,552 bytes

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GROUNDWATER/CODIFICATION DES DESCRIPTIONS STRATIGRAPHIQUES

CODES	DESCRIPTIONS LITHOLOGIQUES	
	ABREGEES ⁷	COMPLETES
F1	ARG./PLAST.	argile plastique
F2	ARG./SABLE	argile avec sable
F3	SILT	silt
F4	SA. FIN	sable fin
F5	SA. MOY.	sable moyen
F6	SA. GROS.	sable grossier
F7	GRAV. FIN	gravier fin
F8	GRAV. MOY.	gravier moyen
F9	GRAV. GROS.	gravier grossier
F10	SA. DUNAIRE	sable dunaire
SHIFT F1	SA. GRAVIL.	sable avec gravillons
SHIFT F2	GRES/SABLE	grès et/ou sable
SHIFT F3	GRES/SA/CAL	grès et/ou sable avec calcaire
SHIFT F4	CALCAIRE	calcaire
SHIFT F5	GRES FER.	grès ferrugineux
SHIFT F6	SA COQUIL.	sable coquillier
SHIFT F7	MARNE	marne
SHIFT F8	SOL ORGAN.	sol organique
SHIFT F9	LATERITE	latérite
SHIFT F10	SCHISTE	schiste

⁷ La description abrégée est limitée à un maximum de 11 caractères pour des contraintes de représentations graphiques.

PROJET OMVS/USAID
625-0958





















GROUNDWATER/CODIFICATION GEOLOGIQUE^a

CODES	DESCRIPTIONS GEOLOGIQUES
CO	Primaire/ Cambrien ordovicien/ série de MBOUT/BAKEL.
CT	Tertiaire/ Continental terminal.
EC	Tertiaire/ Eocène à faciès continental.
EM	Tertiaire/ Eocène à faciès marin indifférencié.
EMI	Tertiaire/ Eocène inférieur à faciès marin.
EMH	Tertiaire/ Eocène moyen à faciès marin.
EMP	Tertiaire/ Eocène à faciès marin/ Paléocène.
IN	Quaternaire/ Inchirien indifférencié.
M	Secondaire/ Maestrichtien.
NK	Quaternaire/ Nouakchottien.
OG	Quaternaire/ Ogolien indifférencié.
QAM	Quaternaire moyen et ancien.
QT	Quaternaire indifférencié.

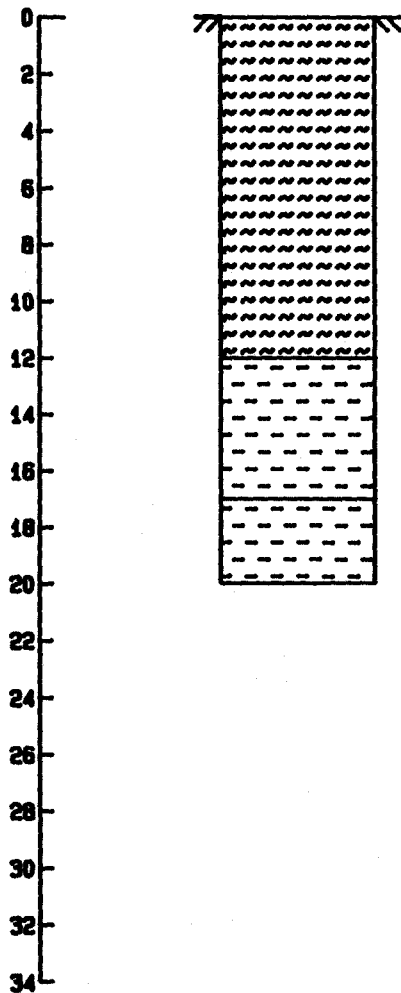
^a La codification géologique utilisée est rigoureusement celle utilisée par la banque GES.

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625-0958

LEGEND

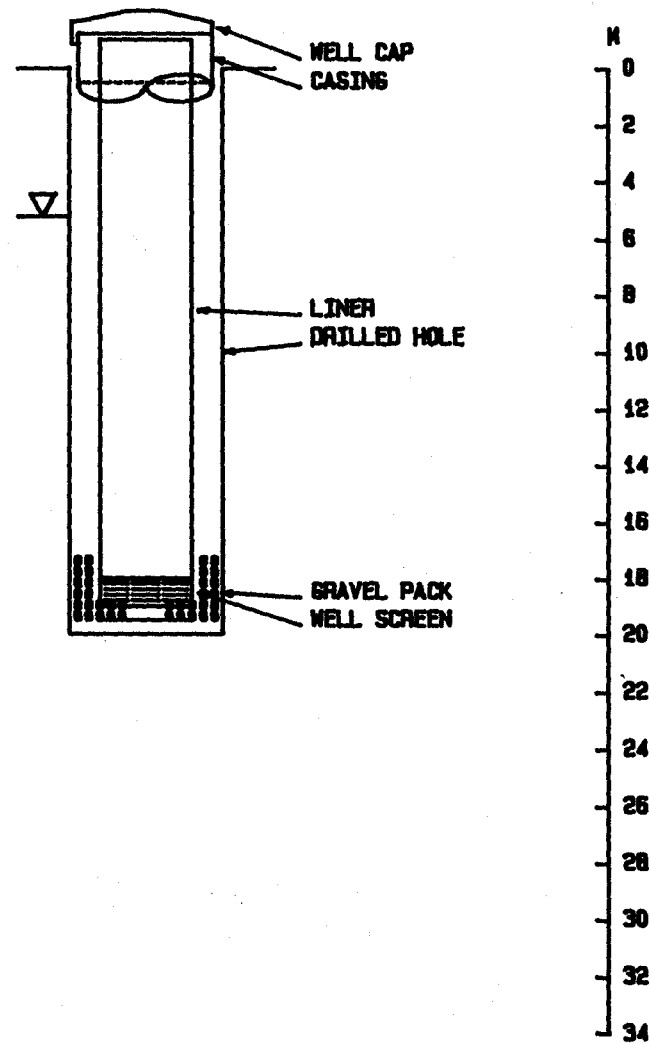
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-  ARG./SABLE
-  SILT
-  SA. FIN
-  SA. MOY.
-  SA. GROS.
-  GRAV. FIN
-  GRAV. MOY.
-  GRAV. GROS.
-  SA. DUNAIRE
-  SA. GRAVIL.
-  GRES/SABLE
-  GRES/SA/CALC
-  CALCAIRE
-  GRES FER.
-  SA. COQUIL.
-  MARNE
-  SOL ORGAN.
-  LATERITE
-  SCHISTE

LITHOLOGY



SCALE: 1 CM = 2 M

WELL CONSTRUCTION DETAILS



 STATIC WATER LEVEL



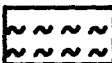
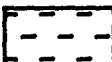
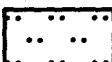
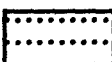


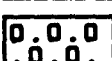





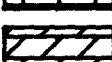
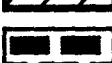

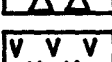
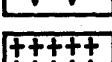
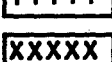
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 FILE: 625-0958
 LOCATION: KAEDI 2A

COUPE GEOLOGIQUE ET TECHNIQUE

USAID/DAKAR/SENEGAL

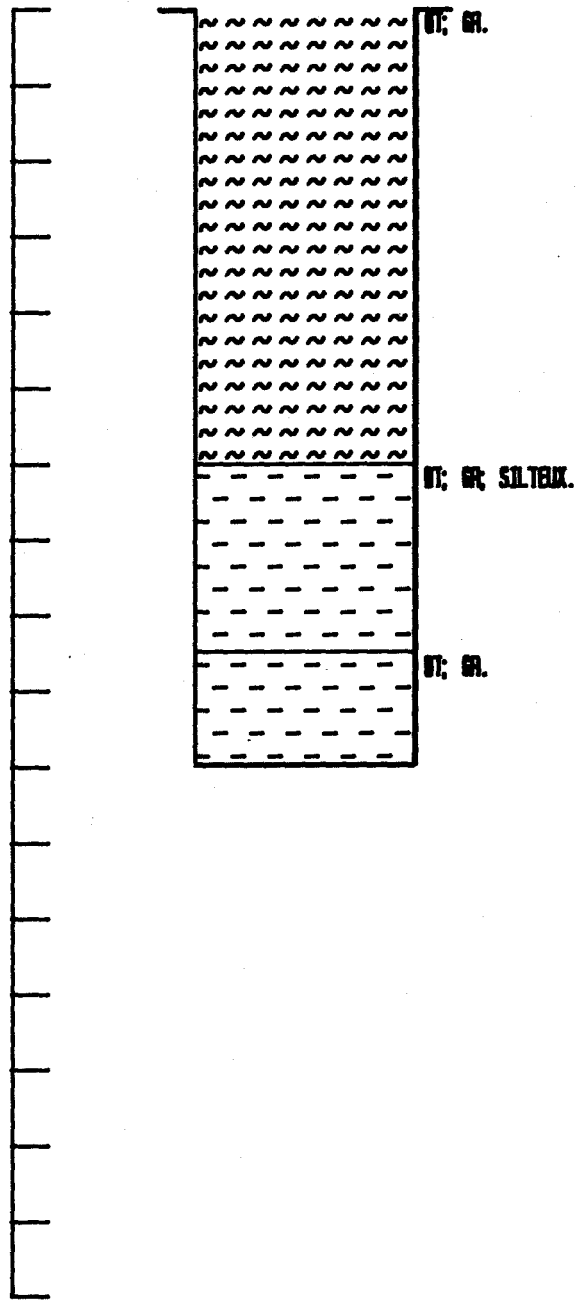
FIGURE: DA255

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

DA255



PROJECT: OMVS/USAID
 FILE: 625-0958
 LOCATION: KAEDI 2A

LITHOLOGY

USAID/DAKAR/SENEGAL

FIGURE DA255

WELL LITHOLOGY

PROJECT: OMVS/USAID
 LOCATION: KAEDI 2A
 WELL NO.: DA255
 DRILLER: SAFOR

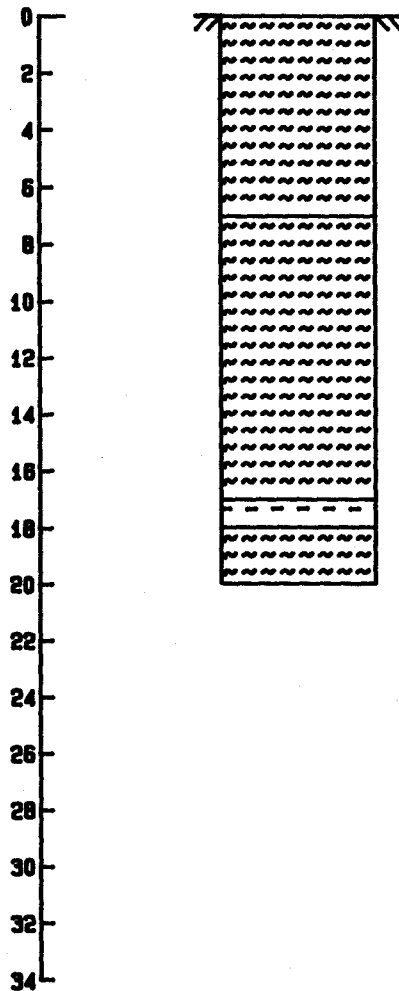
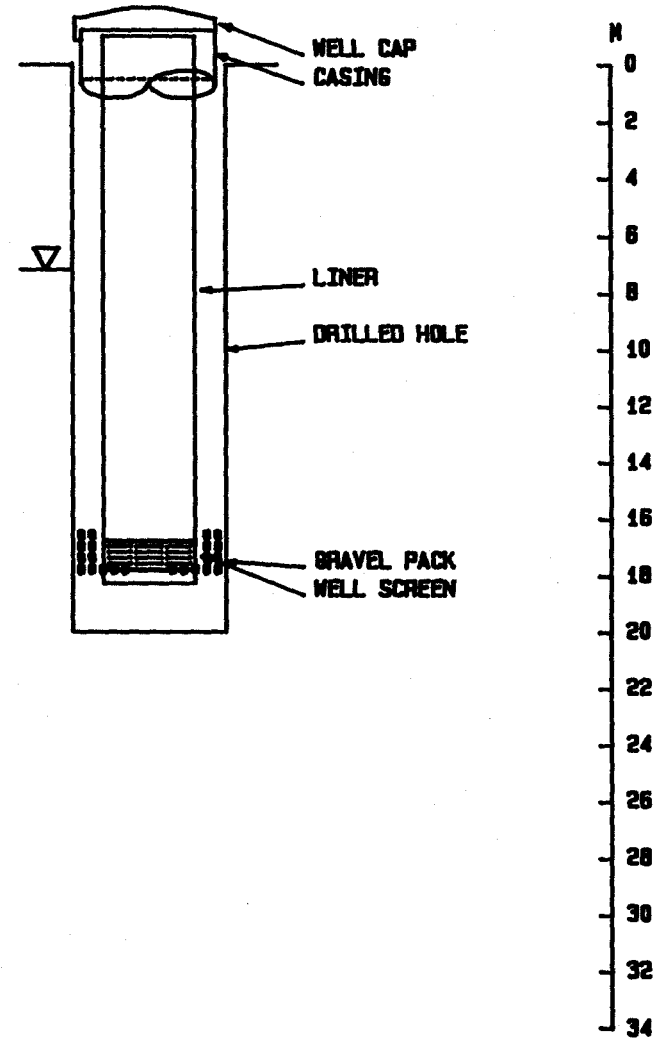
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 DATE DRILLED: 05/11/87
 TYPE OF RIG: ROTARY

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FROM	TO	FROM	TO		
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12.00	17.00	-0.17	-5.17	5.00	SA. FIN, QT; GR; SILTEUX
17.00	20.00	-5.17	-8.17	3.00	SA. FIN, QT; GR.

USAID/DAKAR/SENEGAL

WELL CONSTRUCTION DETAILS

LITHOLOGY



SCALE: 1 CM = 2 M

▽ STATIC WATER LEVEL

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



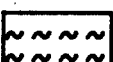

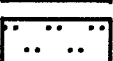
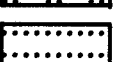
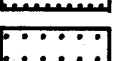
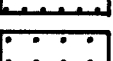
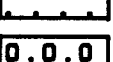




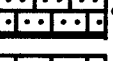
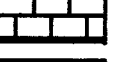





PROJECT: DMVS/USAID
 FILE: 825-0958
 LOCATION: KAEDI 2A

COUPE GEOLOGIQUE ET TECHNIQUE

USAID/DAKAR/SENEGAL

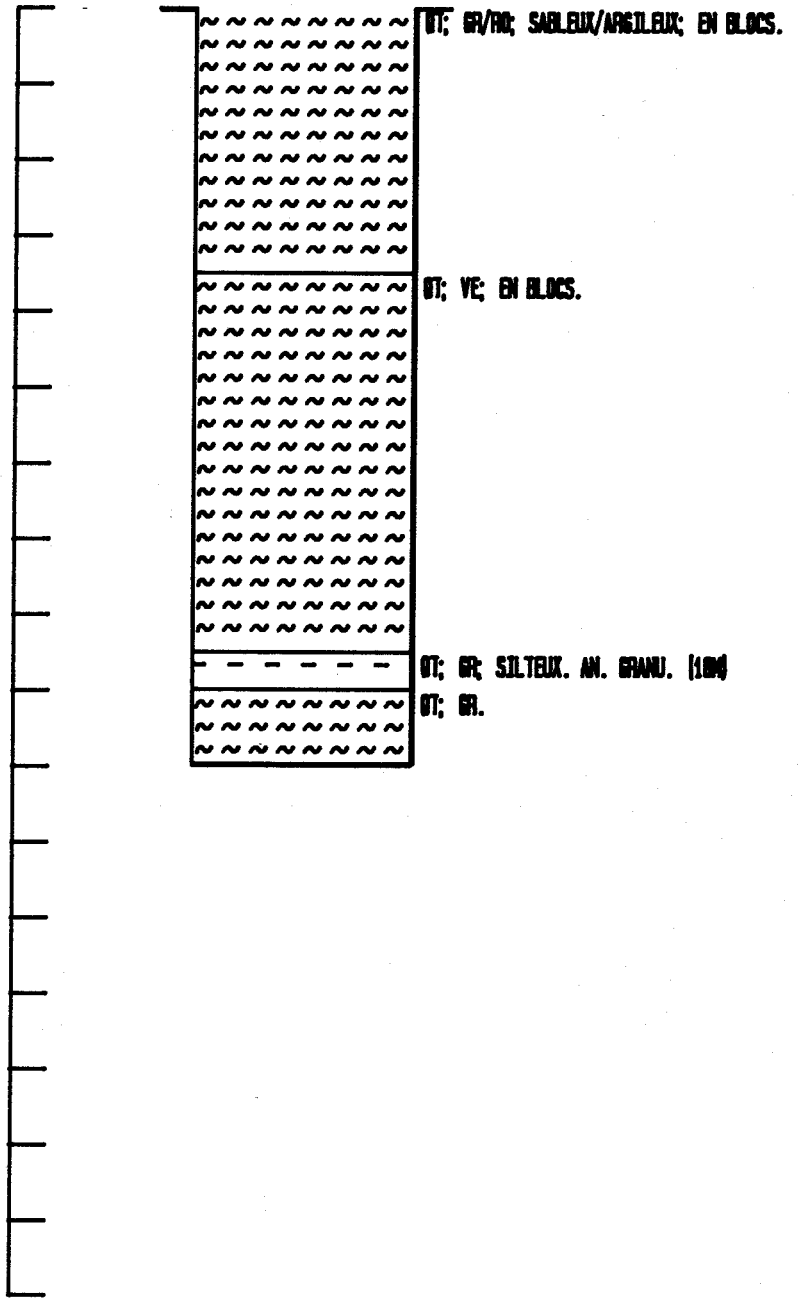
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LEGEND

-  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

DA256



PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: KAEDI 2A

LITHOLOGY

USAID/DAKAR/SENEGAL

FIGURE DA256

WELL LITHOLOGY













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 LOCATION: KAEDI 2A
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 DRILLER: SAFOR

FILE NO.: 625-0958
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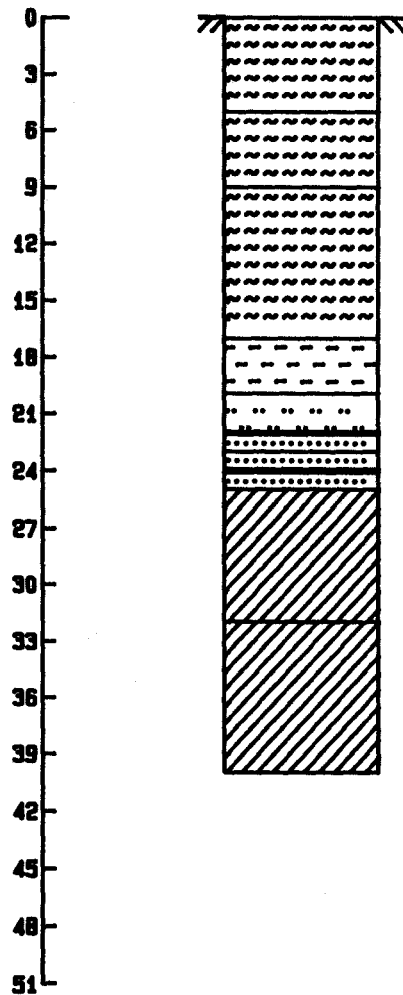
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FROM	TO	FROM	TO		
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7.00	17.00	3.33	-6.67	10.00	SILT, QT; VE; EN BLOCS.
17.00	18.00	-6.67	-7.67	1.00	SA. FIN, QT; GR; SILTEUX
18.00	20.00	-7.67	-9.67	2.00	SILT, QT; GR.

USAID/DAKAR/SENEGAL

LEGEND

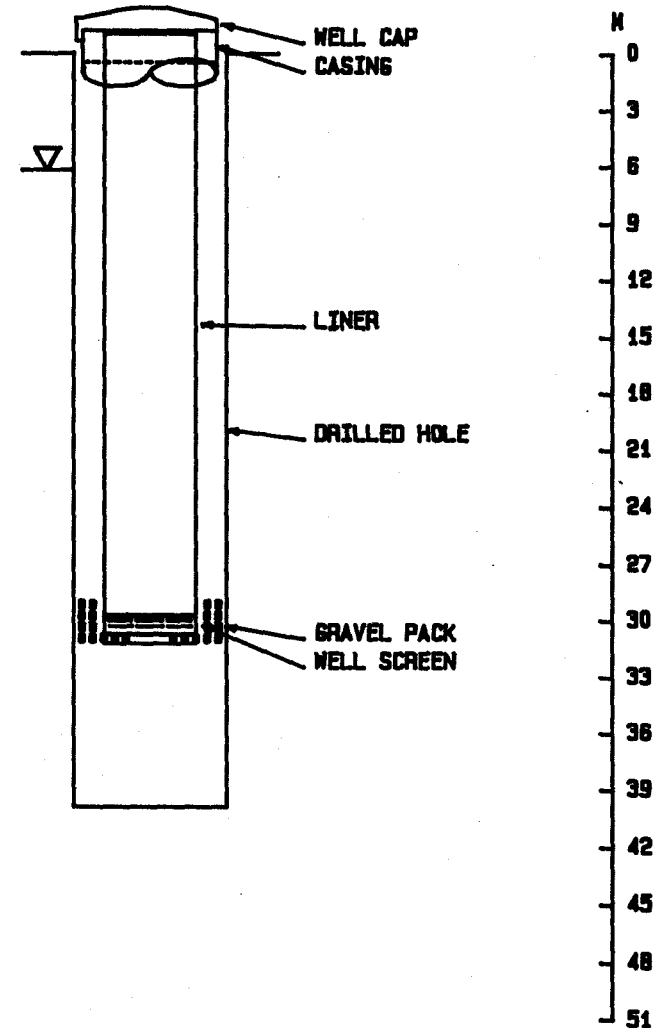
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-  ARG./SABLE
-  SILT
-  SA. FIN
-  SA. MOY.
-  SA. GROS.
-  GRAV. FIN
-  GRAV. MOY.
-  GRAV. GROS.
-  SA. DUNAIRE
-  SA. GRAVIL.
-  GRES/SABLE
-  GRES/SA/CALC
-  CALCAIRE
-  GRES FER.
-  SA. COQUIL.
-  MARNE
-  SOL ORGAN.
-  LATERITE
-  SCHISTE

LITHOLOGY



SCALE: 1 CM = 3 M

WELL CONSTRUCTION DETAILS



 STATIC WATER LEVEL



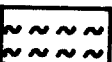
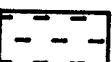
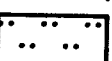
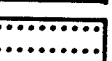
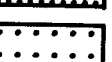
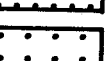
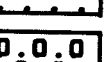
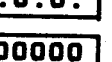
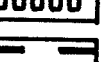
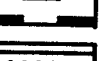


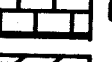
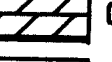




PROJECT: OMVS/USAID
 FILE: 825-0958
 LOCATION: KAEDI 2A

COUPE GEOLOGIQUE ET TECHNIQUE

USAID/DAKAR/SENEGAL

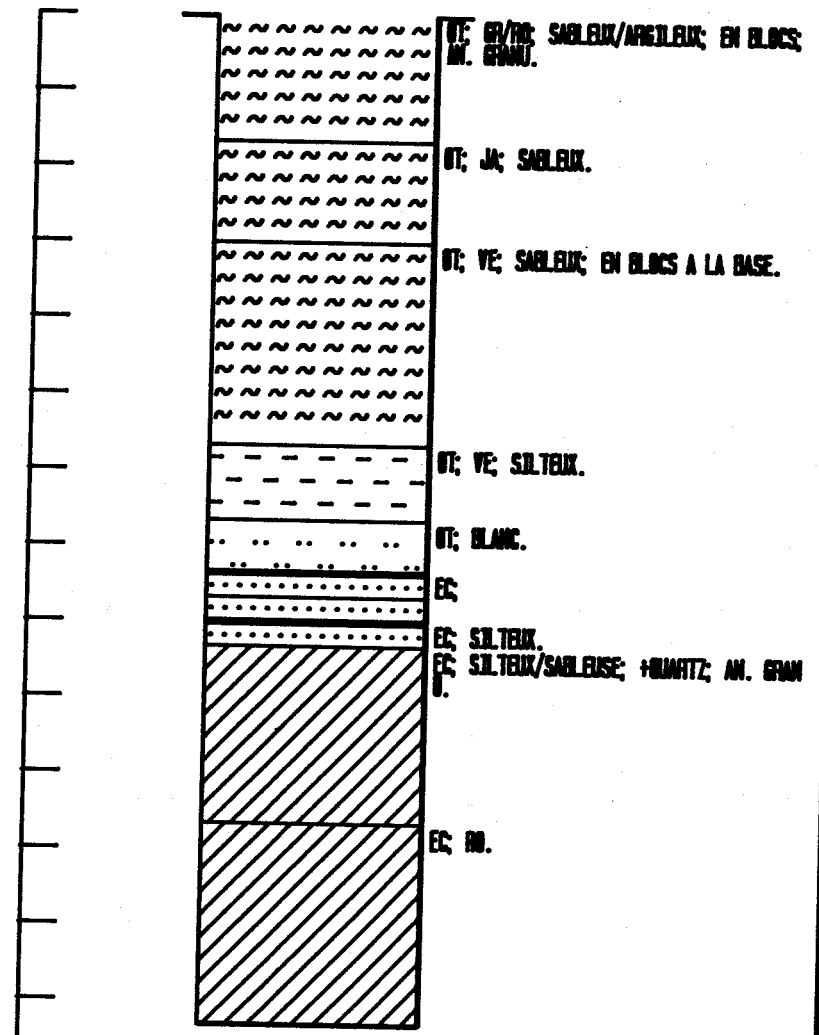
FIGURE: DA257

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

DA257



PROJECT: OMVS/USAID
 FILE: 625-0958
 LOCATION: KAEDI 2A

LITHOLOGY

USAID/DAKAR/SENEGAL

FIGURE DA257

WELL LITHOLOGY





















PROJECT:OMVS/USAID
 LOCATION:KAEDI 2A
 WELL NO.:DA257
 DRILLER:SAFOR

FILE NO.:625-0958
 ELEVATION (M): 10.25
 DATE DRILLED:06/11/87
 TYPE OF RIG:ROTARY

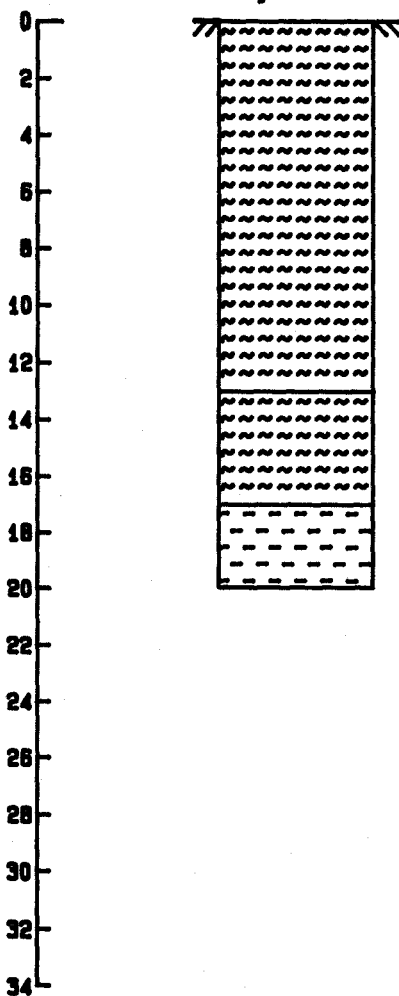
DEPTH (M)		ELEVATION (M)		THICKNESS (M)	LITHOLOGY
FROM	TO	FROM	TO		
0.00	5.00	10.25	5.25	5.00	SILT,QT; GR/RO; SABLEUX
5.00	9.00	5.25	1.25	4.00	SILT,QT; JA; SABLEUX.
9.00	17.00	1.25	-6.75	8.00	SILT,QT; VE; SABLEUX; E
17.00	20.00	-6.75	-9.75	3.00	SA. FIN,QT; VE; SILTEUX
20.00	22.00	-9.75	-11.75	2.00	SA. MOY.,QT; BLANC.
22.00	24.00	-11.75	-13.75	2.00	GRES/SABLE,EC;
24.00	25.00	-13.75	-14.75	1.00	GRES/SABLE,EC; SILTEUX.
25.00	32.00	-14.75	-21.75	7.00	ARG./PLAST.,EC; SILTEUX
32.00	40.00	-21.75	-29.75	8.00	ARG./PLAST.,EC; RO.

USAID/DAKAR/SENEGAL

LEGEND

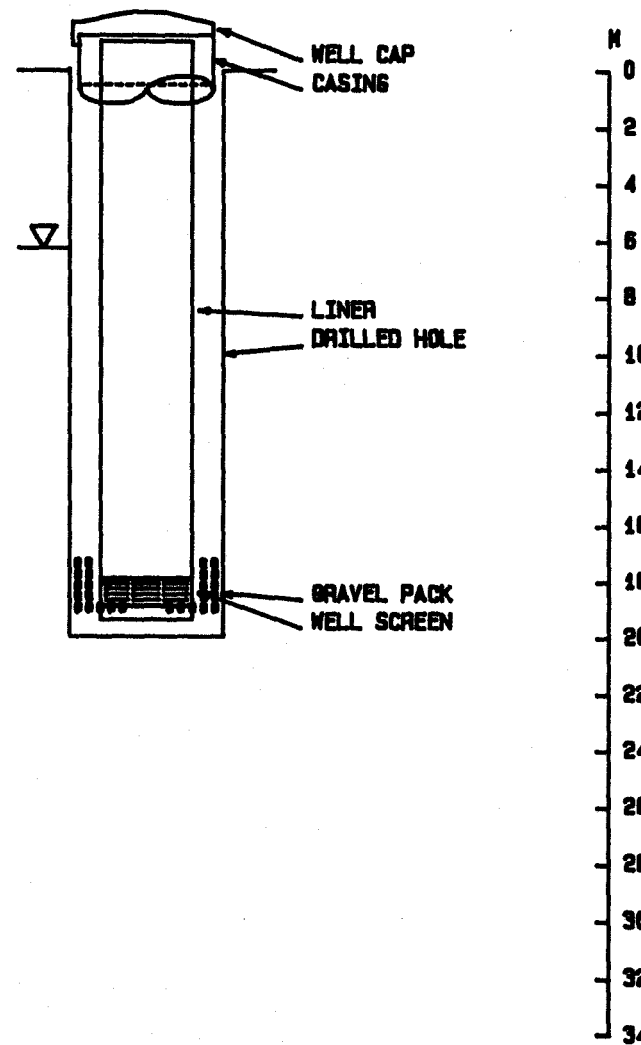
-  ARG./PLAST.
-  ARG./SABLE
-  SILT
-  SA. FIN
-  SA. MOY.
-  SA. GROS.
-  GRAV. FIN
-  GRAV. MOY.
-  GRAV. GROS.
-  SA. DUNAIRE
-  SA. GRAVIL.
-  GRES/SABLE
-  GRES/SA/CALC
-  CALCAIRE
-  GRES FER.
-  SA. COQUIL.
-  MAFNE
-  SOL ORGAN.
-  LATERITE
-  SCHISTE

LITHOLOGY



SCALE: 1 CM = 2 M

WELL CONSTRUCTION DETAILS



 STATIC WATER LEVEL



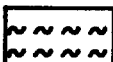

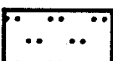
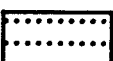
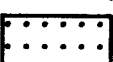
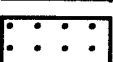
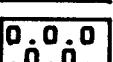

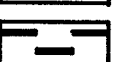


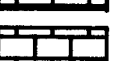
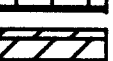


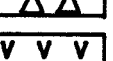
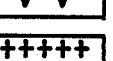
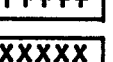
PROJECT: OMVS/USAID
 FILE: 825-0958
 LOCATION: KAEDI 2A

COUPE GEOLOGIQUE ET TECHNIQUE

USAID/DAKAR/SENEGAL

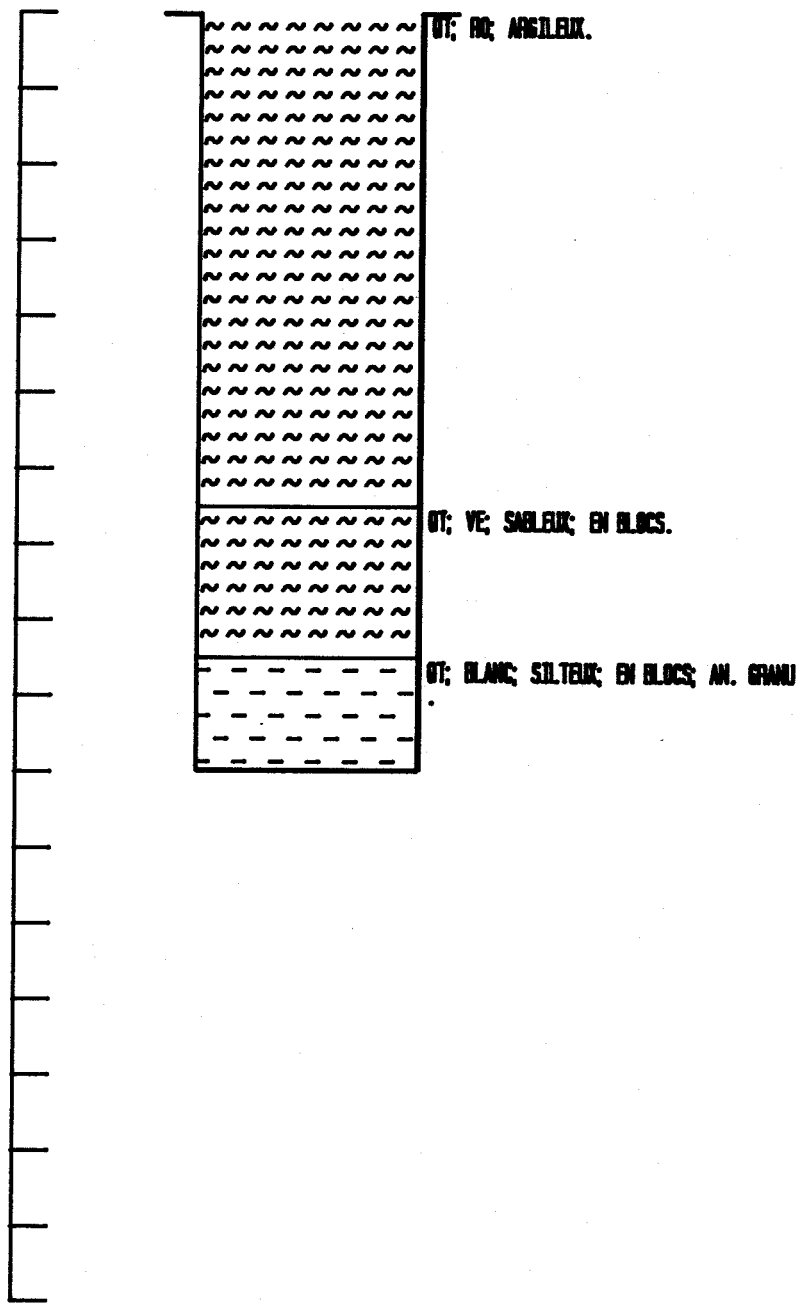
FIGURE: DA259

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

DA259



PROJECT: OMVS/USAID
 FILE: 625-0958
 LOCATION: KAEDI 2A

LITHOLOGY

USAID/DAKAR/SENEGAL

FIGURE DA259

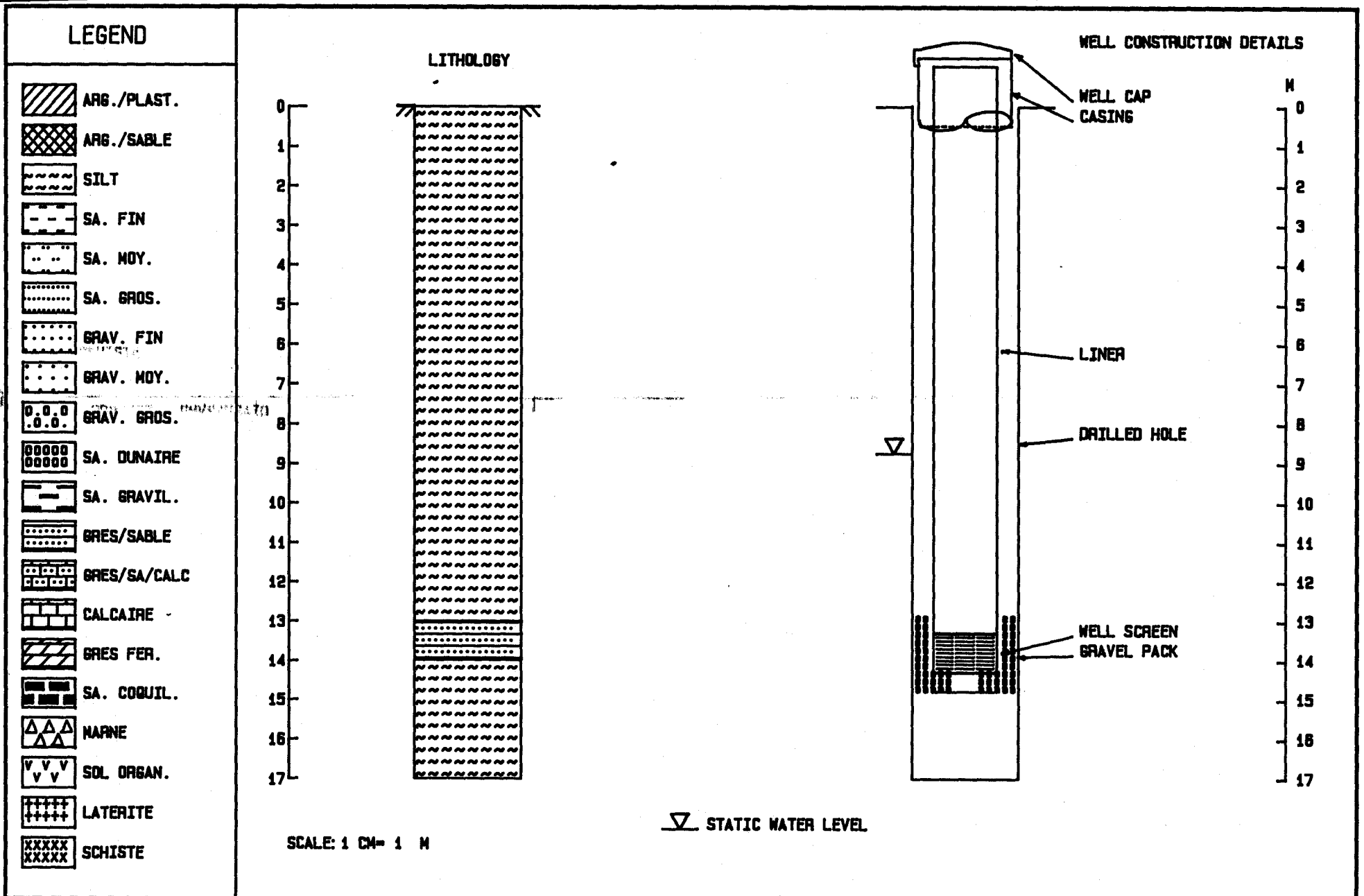
WELL LITHOLOGY

PROJECT: OMVS/USAID
 LOCATION: KAEDI 2A
 WELL NO.: DA259
 DRILLER: SAFOR

FILE NO.: 625-0958
 ELEVATION (M): 11.71
 DATE DRILLED: 07/11/87
 TYPE OF RIG: ROTARY

DEPTH (M)		ELEVATION (M)		THICKNESS (M)	LITHOLOGY
FROM	TO	FROM	TO		
0.00	13.00	11.71	-1.29	13.00	SILT, GT; RO; ARGILEUX.
13.00	17.00	-1.29	-5.29	4.00	SILT, GT; VE; SABLEUX; E
17.00	20.00	-5.29	-8.29	3.00	SA. FIN, GT; BLANC; SILT

USAID/DAKAR/SENEGAL








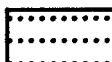
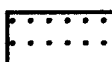
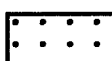


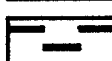


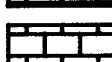

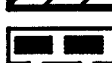

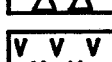
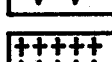
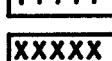
PROJECT: OMVS/USAID
 FILE: 625-0958
 LOCATION: KAEDI 2A

COUPE GEOLOGIQUE ET TECHNIQUE

USAID/DAKAR/SENEGAL

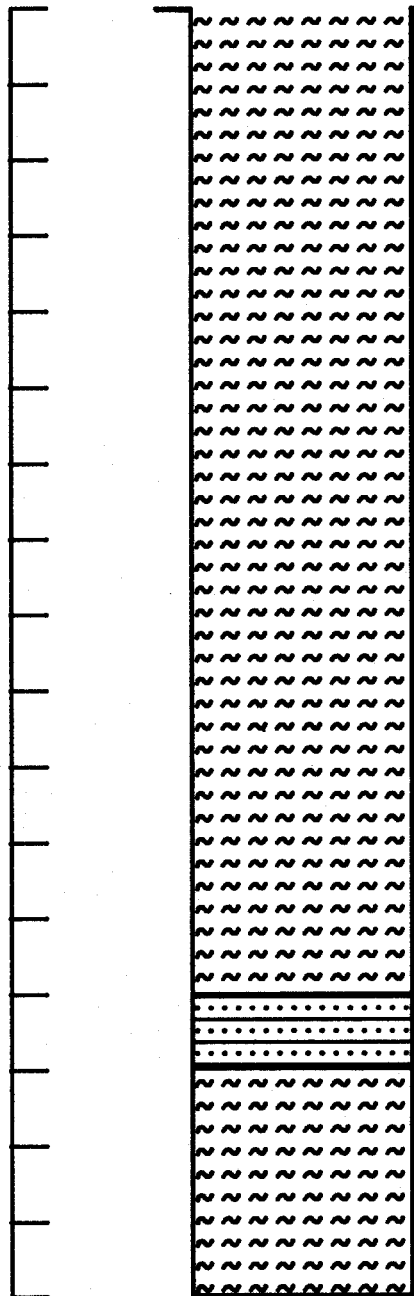
FIGURE: DA260

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

DA260



BT; RR; EN BLOCS.

EC; FIN A NOYER; +QUARTZ; AN. GRAND (1/4)

EC; JA; +QUARTZ.

PROJECT: OMVS/USAID
 FILE: 625-0958
 LOCATION: KAEDI 2A

LITHOLOGY

USAID/DAKAR/SENEGAL

FIGURE DA260

WELL LITHOLOGY



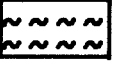





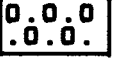




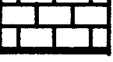
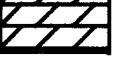


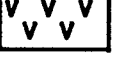
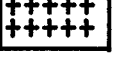
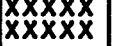
PROJECT: OMVS/USAID
 LOCATION: KAEDI 2A
 WELL NO.: DA260
 DRILLER: SAFOR

FILE NO.: 625-0958
 ELEVATION (M): 0
 DATE DRILLED: 07/11/87
 TYPE OF RIG: ROTARY

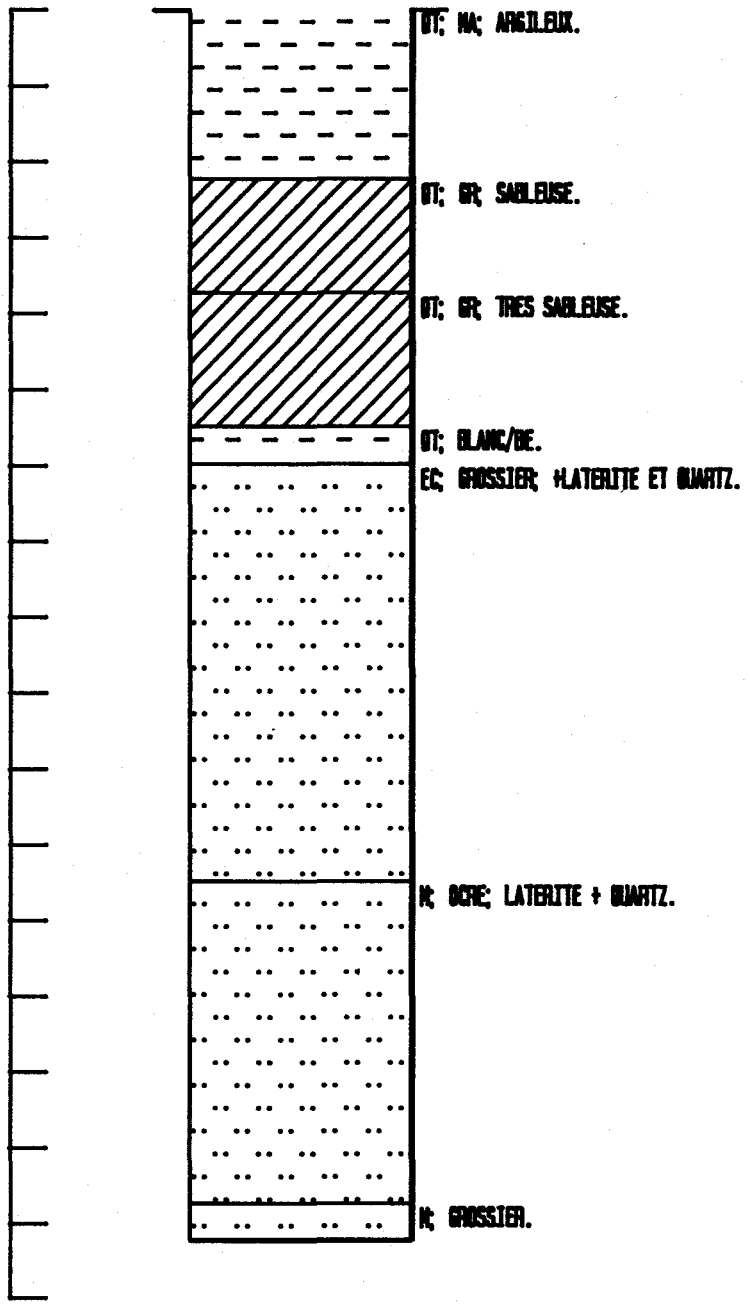
DEPTH (M)		ELEVATION (M)		THICKNESS (M)	LITHOLOGY
FROM	TO	FROM	TO		
0.00	13.00	0.00	-13.00	13.00	SILT, RT; RO; EN BLOCS.
13.00	14.00	-13.00	-14.00	1.00	GRES/SABLE, EC; FIN A MO
14.00	17.00	-14.00	-17.00	3.00	SILT, EC; JA; +QUARTZ.

USAID/DAKAR/SENEGAL

LEGEND

-  ARG./PLAST. 0
-  ARG./SABLE 4
-  SILT 8
-  SA. FIN 12
-  SA. MOY. 16
-  SA. GROS. 20
-  GRAV. FIN 24
-  GRAV. MOY. 28
-  GRAV. GROS. 32
-  SA. DUNAIRE 36
-  SA. GRAVIL. 40
-  GRES/SABLE 44
-  GRES/SA/CALC 48
-  CALCAIRE 52
-  GRES FER. 56
-  SA. COQUIL. 60
-  MARNE 64
-  SOL ORGAN. 68
-  LATERITE
-  SCHISTE

F49



SCALE IN M

PROJECT: OMVS/USAID
 FILE: 625-0958
 LOCATION: KAEDI 2A

LITHOLOGY

USAID/DAKAR/SENEGAL

FIGURE DONDOU

WELL LITHOLOGY

PROJECT: OMVS/USAID
 LOCATION: KAEDI 2A
 WELL NO.: F49
 DRILLER: SAFOR

FILE NO.: 625-0958
 ELEVATION (M): 14.798
 DATE DRILLED: 27/02/87
 TYPE OF RIG: ROTARY

DEPTH (M)		ELEVATION (M)		THICKNESS (M)	LITHOLOGY
FROM	TO	FROM	TO		
0.00	9.00	14.80	5.80	9.00	SA. FIN,QT; MA; ARGILEU
9.00	15.00	5.80	-0.20	6.00	ARG./PLAST.,QT; GR; SAB
15.00	22.00	-0.20	-7.20	7.00	ARG./PLAST.,QT; GR; TRE
22.00	24.00	-7.20	-9.20	2.00	SA. FIN,QT; BLANC/BE.
24.00	46.00	-9.20	-31.20	22.00	SA. MOY.,EC; GROSSIER;
46.00	63.00	-31.20	-48.20	17.00	SA. MOY.,M; OCRE; LATER
63.00	65.00	-48.20	-50.20	2.00	SA. MOY.,M; GROSSIER.

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

09 KAEDI 2A

ANNEXE # 2

ANALYSES GRANULOMETRIQUES

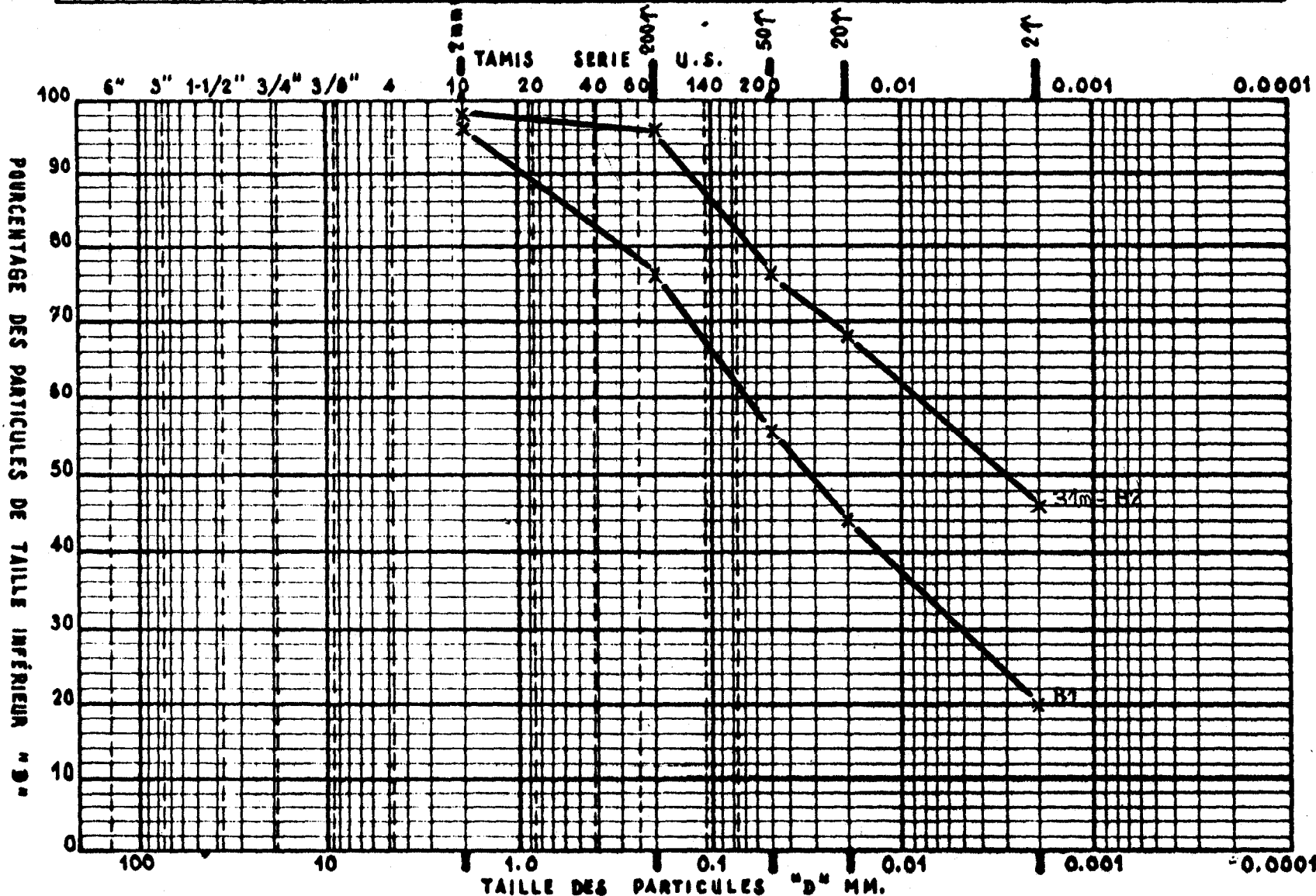
- * Résultats des analyses granulométriques
- * Courbes granulométriques

PROJET OMVS/USAID
625-0958

COURBES GRANULOMÉTRIQUES

TYPE D'ECHANT. : OU

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



CLASSIFICATION M.I.T.

KB1 = N/A.... cm/sec. KB2 = N/A.... cm/sec

MARITANIE
PAYS

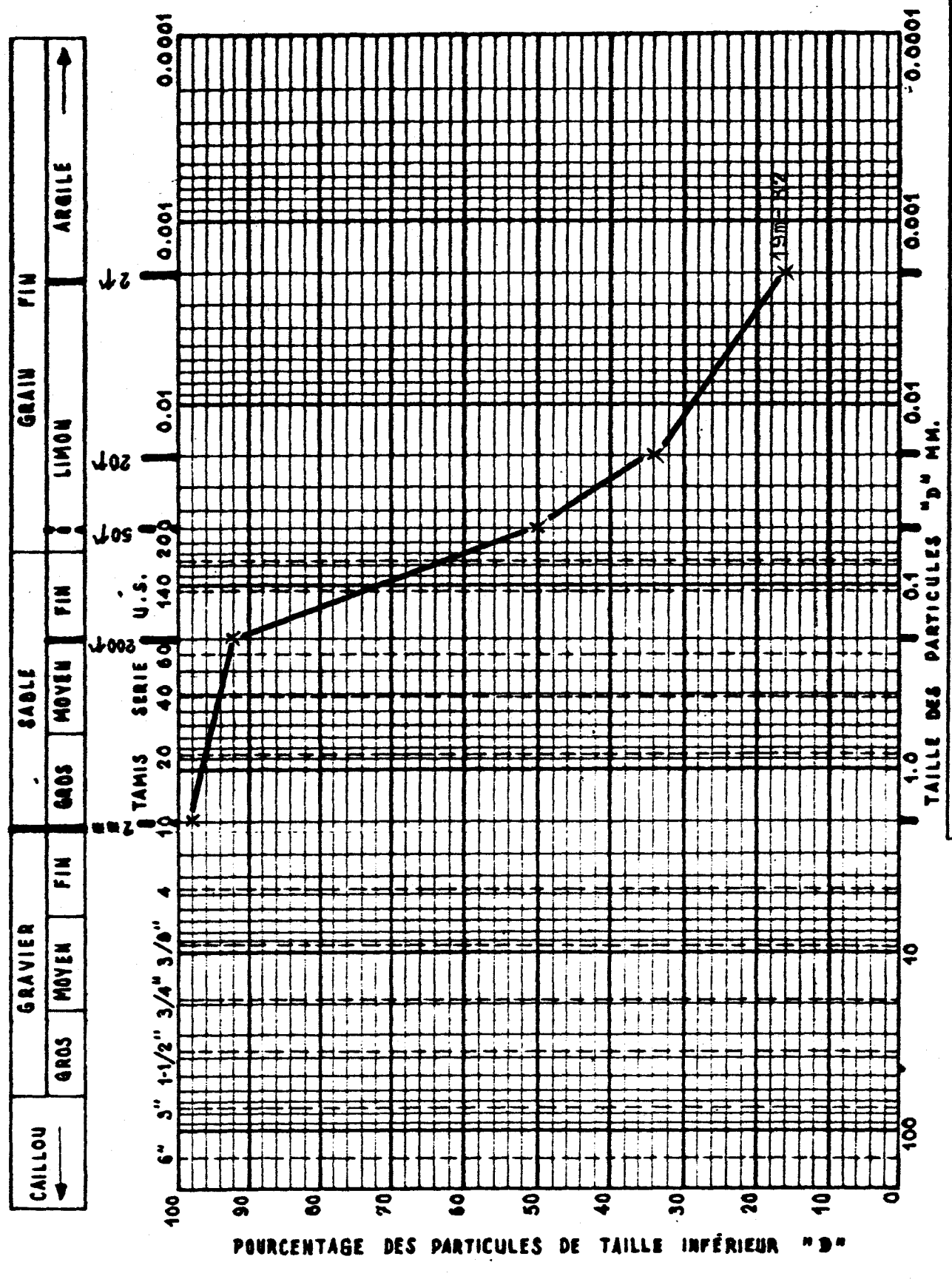
PIEZOMÈTRE N° 09 2A DIA 253 HP
COORDONNÉES (M T U) X: Y:

ORGANISATION POUR LA MISE EN VALEUR DU FLEUVE SENEGAL (O.M.V.S)
DIRECTION DE L'INFRASTRUCTURE RÉGIONALE (D.I.R)
PROJET 625-0950 / U.S.A.I.D

CELLULE - EAUX SOUTERRAINES / SAINT-LOUIS

PAYS
 MAURITANIE

PIEZOMÈTRE N° 09 2A DA259 HP
 COORDONNÉES (MTU) X:----- Y:-----



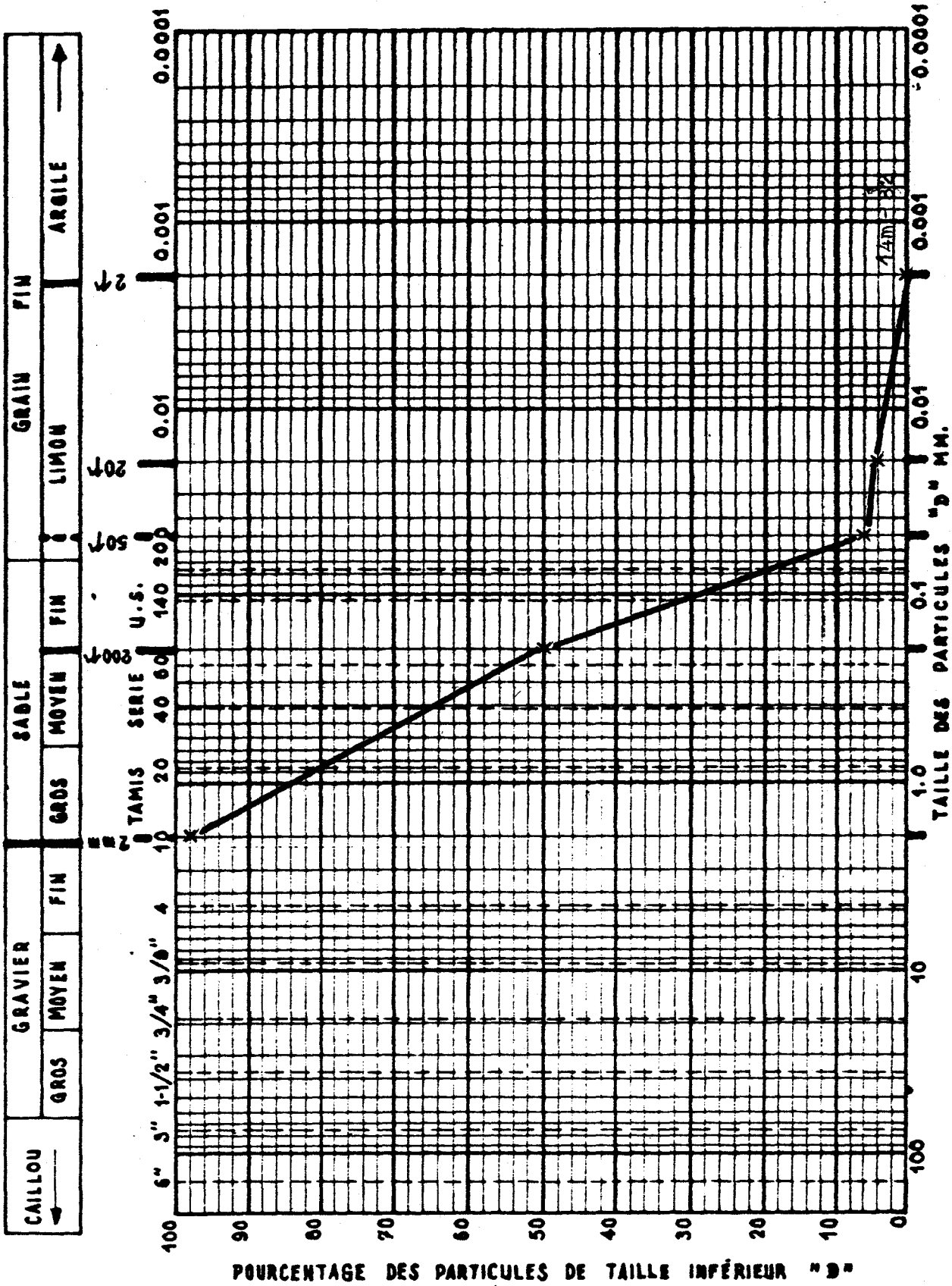
CLASSIFICATION M.I.T. KB1 = N/A... cm/sec. KB2 = N/A... cm/sec.

COURBES GRANULOMETRIQUES

TYPE D'ECHANT. : OU M

PAYS
 MAURITANIE.

PIEZOMETRE N° 09 2A DA260 LP
 COORDONNEES (MTU) X: Y:



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

09 KAEDI 2A

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.

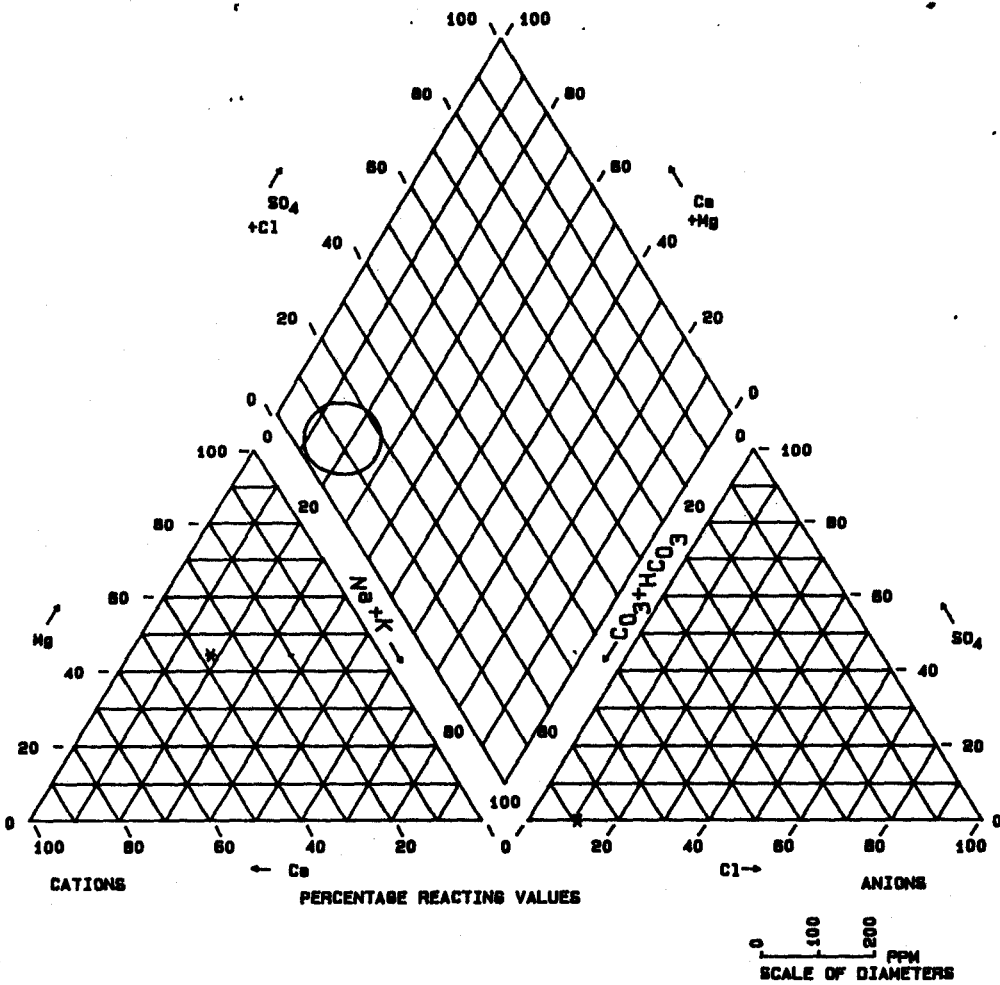
PROJET OMVS/USAID
625-0958

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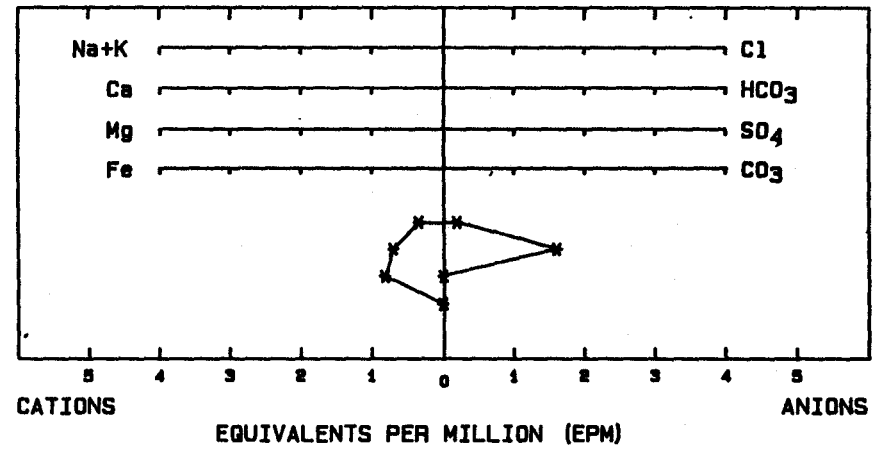
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GB0970	.CHM	128	.a..	3-21-89	5:07	pm

PIPER TRILINEAR DIAGRAM

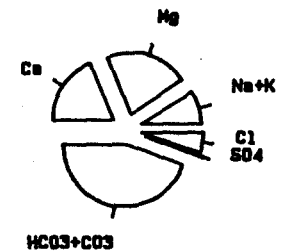


STIFF GRAPH



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: KAEDI 2A

SAMPLE: DA257 08/11/87

CHEMICAL GRAPHS

USAID/DAKAR/SENEGAL

FIGURE: DA257

CHEMISTRY ANALYSIS

PROJECT: OMVS/USAID
 LOCATION: KAEDI BA

FILE: 625-0956

WELL NO.: DA257 08/11/87

CATIONS	PPM	EPM	% EPM
Ca	14.00	0.70	37.58
Mg	10.00	0.32	44.25
Na+K	9.00	0.34	18.17

ANIONS	PPM	EPM	% EPM
HCO ₃ +CO ₃	98.00	1.61	89.06
SO ₄	0.00	0.00	0.00
Cl	7.00	0.20	10.94

TOTAL DISSOLVED SOLIDS: 165

ERROR IN CATION/ANION BALANCE: 1.53 %

SODIUM ABSORPTION RATION (S.A.R.): 0.30

USAID/DAKAR/SENEGAL

CHEMISTRY ANALYSIS

PROJECT: OMVS/USAID
LOCATION: KAEDI

FILE: 625-0958

WELL NO.: DA260 08/11/87

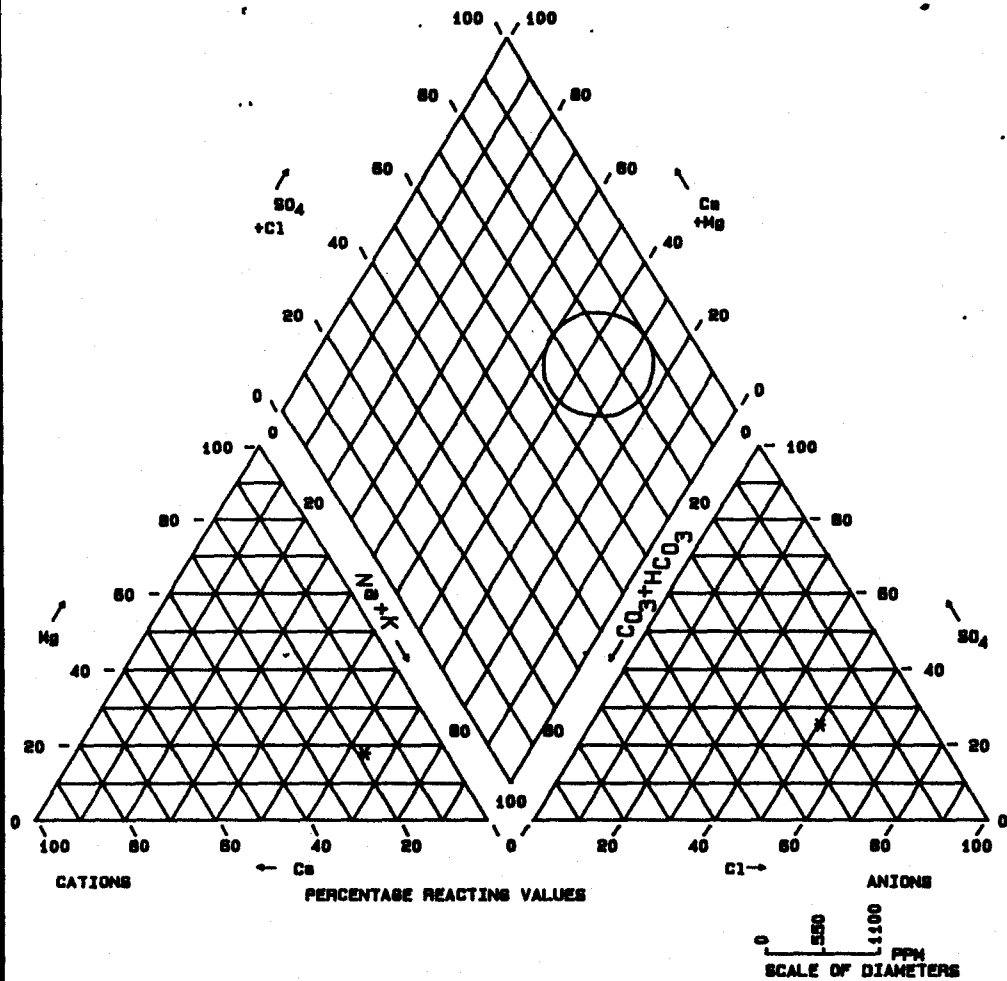
CATIONS	PPM	EPM	% EPM
Ca	5.00	0.25	36.81
Mg	3.00	0.25	36.40
Na+K	5.00	0.18	26.80

ANIONS	PPM	EPM	% EPM
HCO3+CO3	24.00	0.39	69.92
SO4	0.00	0.00	0.00
Cl	6.00	0.17	30.08

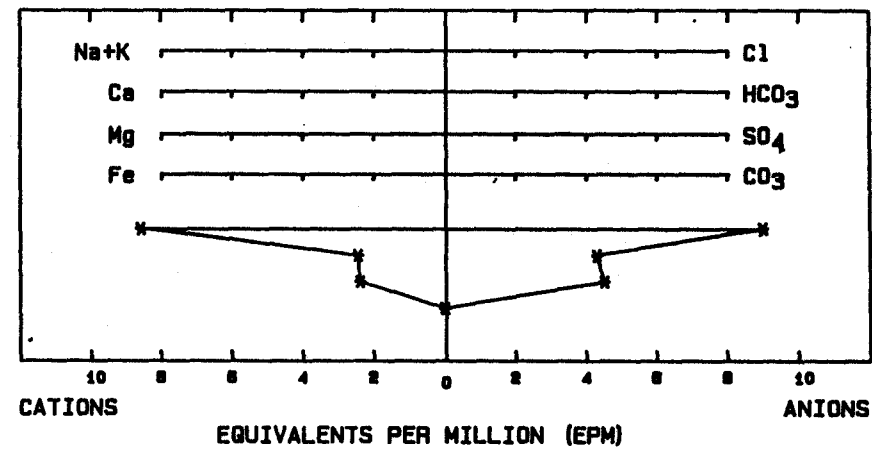
TOTAL DISSOLVED SOLIDS: 85
ERROR IN CATION/ANION BALANCE: 9.30 %
SODIUM ABSORPTION RATION (S.A.R.): 0.26

USAID/DAKAR/SENEGAL

PIPER TRILINEAR DIAGRAM

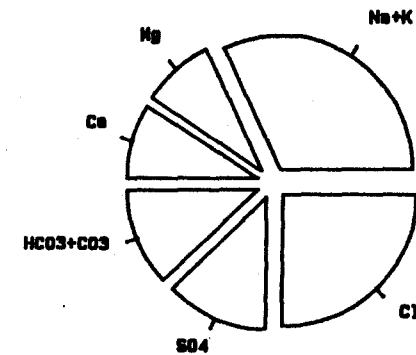


STIFF GRAPH



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: KAEDI 2A

SAMPLE: 6B0970 21/04/88

CHEMICAL GRAPHS

USAID/DAKAR/SENEGAL

FIGURE: GB0970

CHEMISTRY ANALYSIS

PROJECT: OMVS/USAID
 LOCATION: KAEDI 2A

FILE: 625-0958

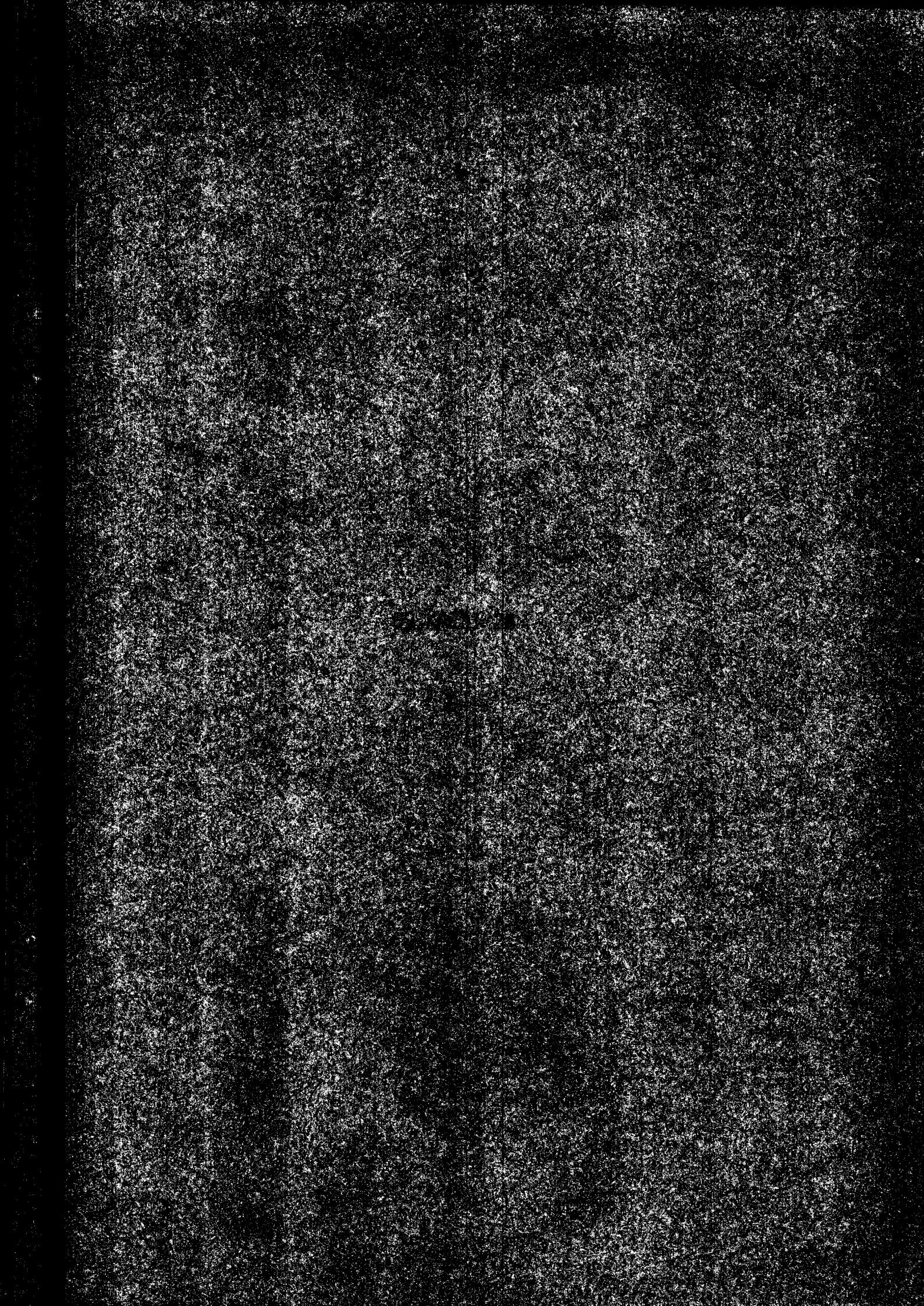
WELL NO.: GH0970 21/04/88

CATIONS	PPM	EPM	% EPM
Ca	49.00	2.45	18.24
Mg	29.00	2.38	17.79
Na+K	200.00	8.57	63.97

ANIONS	PPM	EPM	% EPM
HCO3+CO3	262.00	4.29	24.14
SO4	216.00	4.50	25.28
Cl	319.00	9.00	50.57

TOTAL DISSOLVED SOLIDS: 1267
 ERROR IN CATION/ANION BALANCE: 14.04 %
 SODIUM ABSORPTION RATION (S.A.R.): 5.40

USAID/DAKAR/SENEGAL



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PROJET OMVS/USAID 625-0958

REPERTOIRE HYDROGEOLOGIQUE

DOCUMENT ANNEXE

CARTE TOPOGRAPHIQUE 1:50,000

09 KAEDI 2B

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

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625-0958

ORGANISATION POUR LA MISE EN VALEUR DU FLEUVE SENEGAL OMVS
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REPERTOIRE HYDROGEOLOGIQUE

CARTE TOPOGRAPHIQUE 1:50,000

09 KAEDI 2B

ANNEXE # 1

POUR CHACUN DES PIEZOMETRES

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

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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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DA221	.WLT	128	.a..	6-16-89	8:42	am
DA223	.WLC	1,152	.a..	2-09-89	2:54	pm
DA223	.WLT	256	.a..	6-16-89	8:44	am
DA225	.WLC	1,152	.a..	2-09-89	2:56	pm
DA225	.WLT	256	.a..	6-16-89	8:46	am
DA227	.WLC	1,152	.a..	2-09-89	2:57	pm
DA227	.WLT	384	.a..	6-20-89	11:23	am
DA228	.WLC	1,152	.a..	2-09-89	2:59	pm
DA228	.WLT	384	.a..	6-16-89	8:53	am

B) OBSERVATIONS SUR LA COLONNE "COMMENTAIRES GEOLOGIQUES"

L'utilisation du progiciel GROUNDWATER impose certaines contraintes de saisie liées à l'impression des différents rapports:

- * la coupe géologique
- * le tableau de synthèse.

L'espace alloué à l'impression des commentaires dans le tableau de synthèse est limité à 22 caractères. Toutefois, cette limite (22 caractères) peut être débordée lors du tracé de la coupe géologique.

Par conséquent, dans la pratique afin d'assurer la lisibilité des tableaux de synthèse et des coupes géologiques, le principe de codification suivant a été adopté:

.....

XXXX 22 caractères XXXX style libre

███ SEQ 1: limitée à 4 caractères.

██████ SEQ 2: limitée à 6 caractères.

██████████ SEQ 3: limitée à 10 caractères.

DEFINITION DES SEQUENCES + CODES UTILISES

SEQ 1: Formation géologique. Les codes géologiques utilisés sont ceux de la banque GES (voir ci-après).

SEQ 2: Couleur. La définition des couleurs utilisera les deux premières lettres de la couleur concernée.
EX.: un échantillon brun sera codifié: BR;
un échantillon brun gris sera codifié: BR/GR;

SEQ 3: Analyse granulométrique. Cette séquence indique la présence d'une analyse granulométrique associée à l'échantillon décrit. L'abréviation utilisée est:
AN. GRANU.

N.B.: Au-delà de la SEQ 3, les commentaires sont en style libre. Ceux-ci apparaîtront seulement à l'impression de la coupe géologique détaillée.

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625-0958

GROUNDWATER/CODIFICATION DES DESCRIPTIONS STRATIGRAPHIQUES

CODES	DESCRIPTIONS LITHOLOGIQUES	
	ABREGEES [*]	COMPLETES
	
F1	ARG./PLAST.	argile plastique
F2	ARG./SABLE	argile avec sable
F3	SILT	silt
F4	SA. FIN	sable fin
F5	SA. MOY.	sable moyen
F6	SA. GROS.	sable grossier
F7	GRAV. FIN	gravier fin
F8	GRAV. MOY.	gravier moyen
F9	GRAV. GROS.	gravier grossier
F10	SA. DUNAIRE	sable dunaire
SHIFT F1	SA. GRAVIL.	sable avec gravillons
SHIFT F2	GRES/SABLE	grès et/ou sable
SHIFT F3	GRES/SA/CAL	grès et/ou sable avec calcaire
SHIFT F4	CALCAIRE	calcaire
SHIFT F5	GRES FER.	grès ferrugineux
SHIFT F6	SA COQUIL.	sable coquillier
SHIFT F7	MARNE	marne
SHIFT F8	SOL ORGAN.	sol organique
SHIFT F9	LATERITE	latérite
SHIFT F10	SCHISTE	schiste

* La description abrégée est limitée à un maximum de 11 caractères pour des contraintes de représentations graphiques.

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GROUNDWATER/CODIFICATION GEOLOGIQUE ¹⁰

CODES	DESCRIPTIONS GEOLOGIQUES
CO	Primaire/ Cambrien ordovicien/ série de MBOUT/BAKEL.
CT	Tertiaire/ Continental terminal.
EC	Tertiaire/ Eocène à faciès continental.
EM	Tertiaire/ Eocène à faciès marin indifférencié.
EMI	Tertiaire/ Eocène inférieur à faciès marin.
EMM	Tertiaire/ Eocène moyen à faciès marin.
EMP	Tertiaire/ Eocène à faciès marin/ Paléocène.
IN	Quaternaire/ Incharien indifférencié.
M	Secondaire/ Maestrichtien.
NK	Quaternaire/ Nouakchottien.
OG	Quaternaire/ Ogolien indifférencié.
QAM	Quaternaire moyen et ancien.
QT	Quaternaire indifférencié.

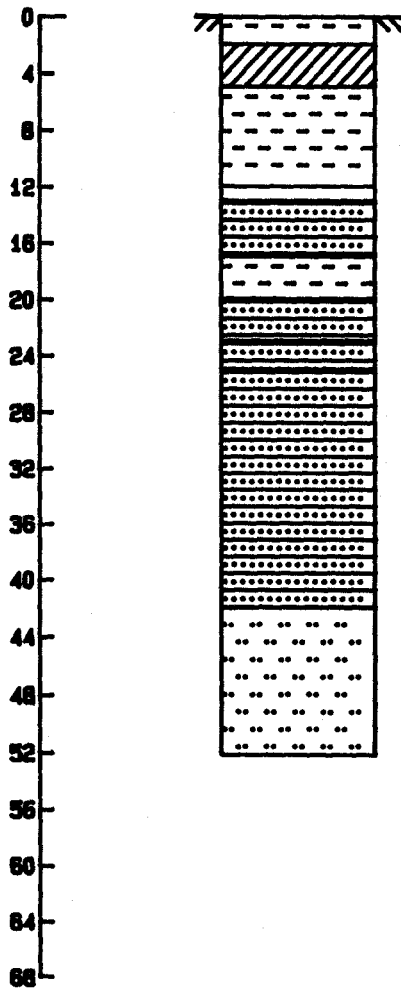
¹⁰ La codification géologique utilisée est rigoureusement celle utilisée par la banque GES.

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625-0958

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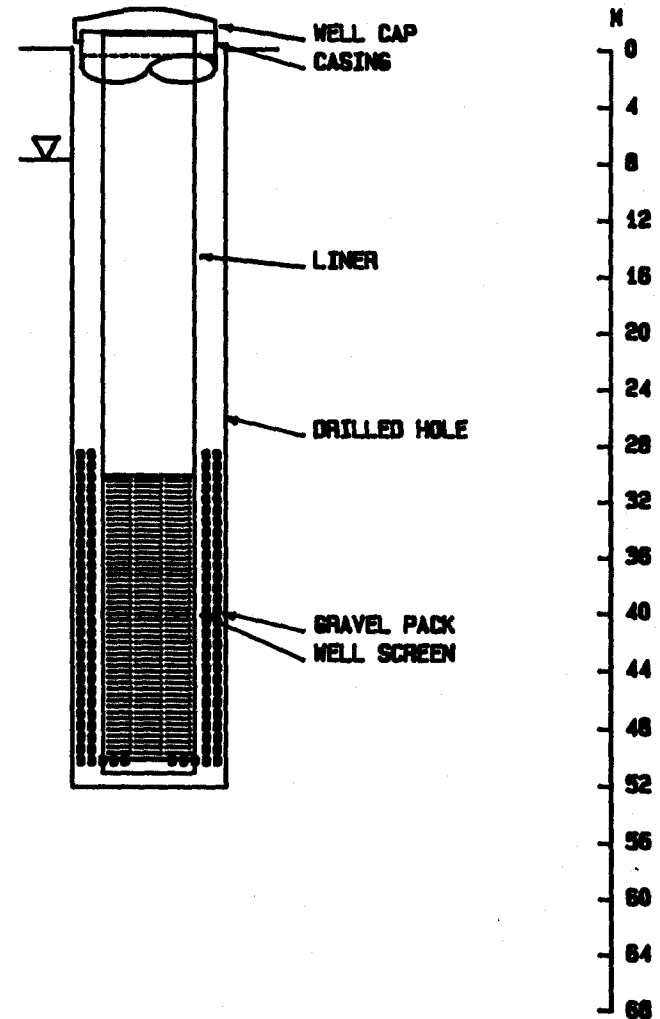
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-  ARG./SABLE
-  SILT
-  SA. FIN
-  SA. MOY.
-  SA. GROS.
-  GRAV. FIN
-  GRAV. MOY.
-  GRAV. GROS.
-  SA. DUNAIRE
-  SA. GRAVIL.
-  GRES/SABLE
-  GRES/SA/CALC
-  CALCAIRE
-  GRES FER.
-  SA. COQUIL.
-  MARNE
-  SOL ORGAN.
-  LATERITE
-  SCHISTE

LITHOLOGY



SCALE: 1 CM = 4 M

WELL CONSTRUCTION DETAILS



 STATIC WATER LEVEL



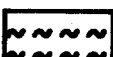
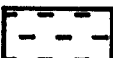
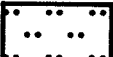












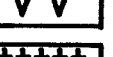

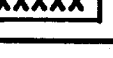
PROJECT: OMVS/USAID
 FILE: 625-0958
 LOCATION: KAEDI 28

COUPE GEOLOGIQUE ET TECHNIQUE

USAID/DAKAR/SENEGAL

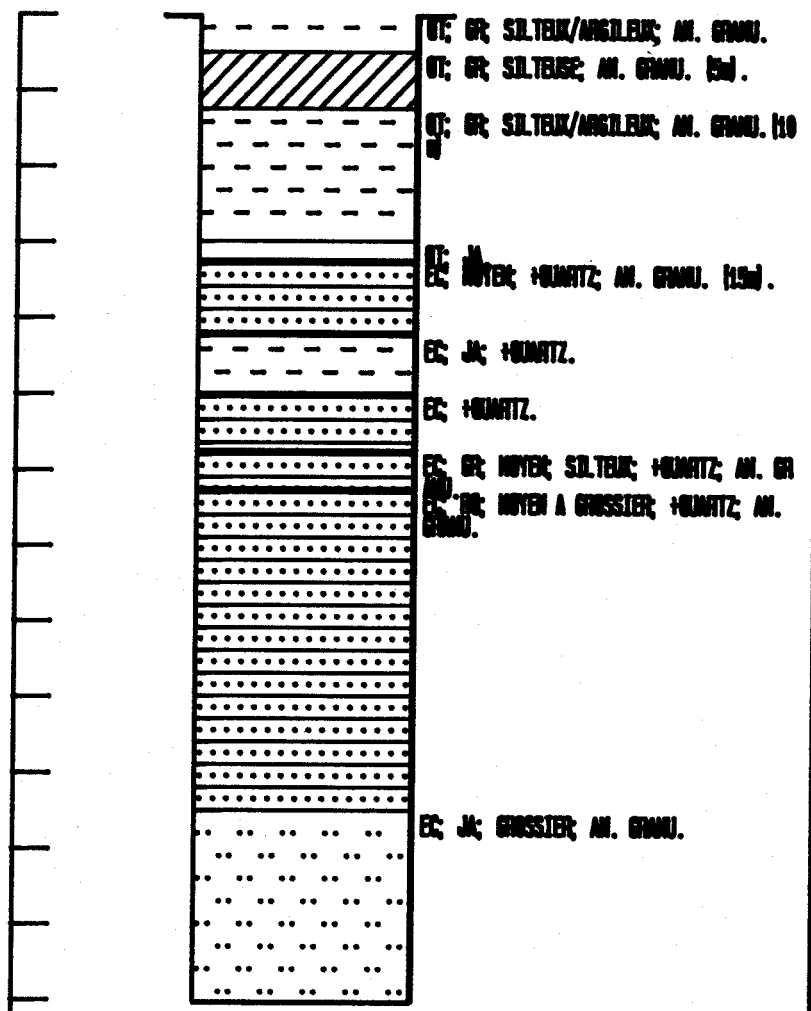
FIGURE: DA220

LEGEND

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	ARG./SABLE	4
	SILT	8
	SA. FIN	12
	SA. MOY.	16
	SA. GROS.	20
	GRAV. FIN	24
	GRAV. MOY.	28
	GRAV. GROS.	32
	SA. DUNAIRE	36
	SA. GRAVIL.	40
	GRES/SABLE	44
	GRES/SA/CALC	48
	CALCAIRE	52
	GRES FER.	56
	SA. COQUIL.	60
	MARNE	64
	SOL ORGAN.	68
	LATERITE	
	SCHISTE	

SCALE IN M

DA220



PROJECT: OMVS/USAID
 FILE: 625-0958
 LOCATION: KAEDI 2B

LITHOLOGY

USAID/DAKAR/SENEGAL

FIGURE DA220

WELL LITHOLOGY




















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 TYPE OF RIG: ROTARY

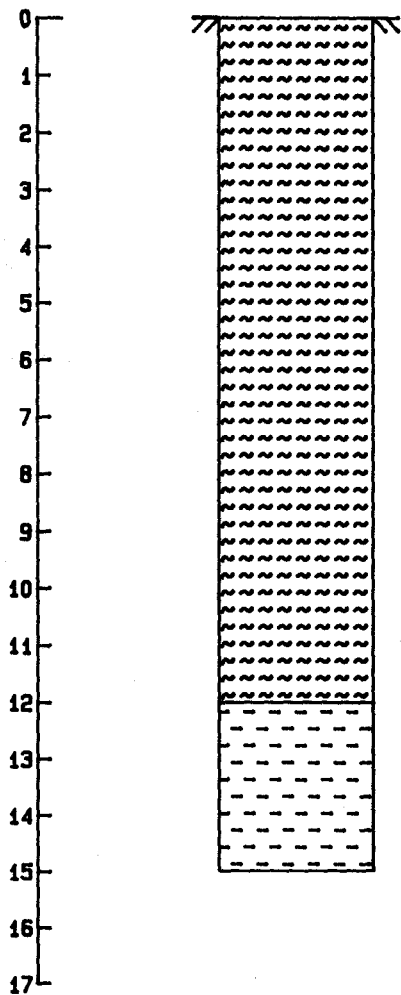
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2.00	5.00	10.15	7.15	3.00	ARG./PLAST.,QT; GR; SIL
5.00	12.00	7.15	0.15	7.00	SA. FIN,QT; GR; SILTEUX
12.00	13.00	0.15	-0.85	1.00	SA. FIN,QT; JA.
13.00	17.00	-0.85	-4.85	4.00	GRES/SABLE,EC; MOYEN; +
17.00	20.00	-4.85	-7.85	3.00	SA. FIN,EC; JA; +QUARTZ
20.00	23.00	-7.85	-10.85	3.00	GRES/SABLE,EC; +QUARTZ.
23.00	25.00	-10.85	-12.85	2.00	GRES/SABLE,EC; GR; MOYE
25.00	42.00	-12.85	-29.85	17.00	GRES/SABLE,EC; RO; MOYE
42.00	52.20	-29.85	-40.05	10.20	SA. MOY.,EC; JA; GROSSI

USAID/DAKAR/SENEGAL

LEGEND

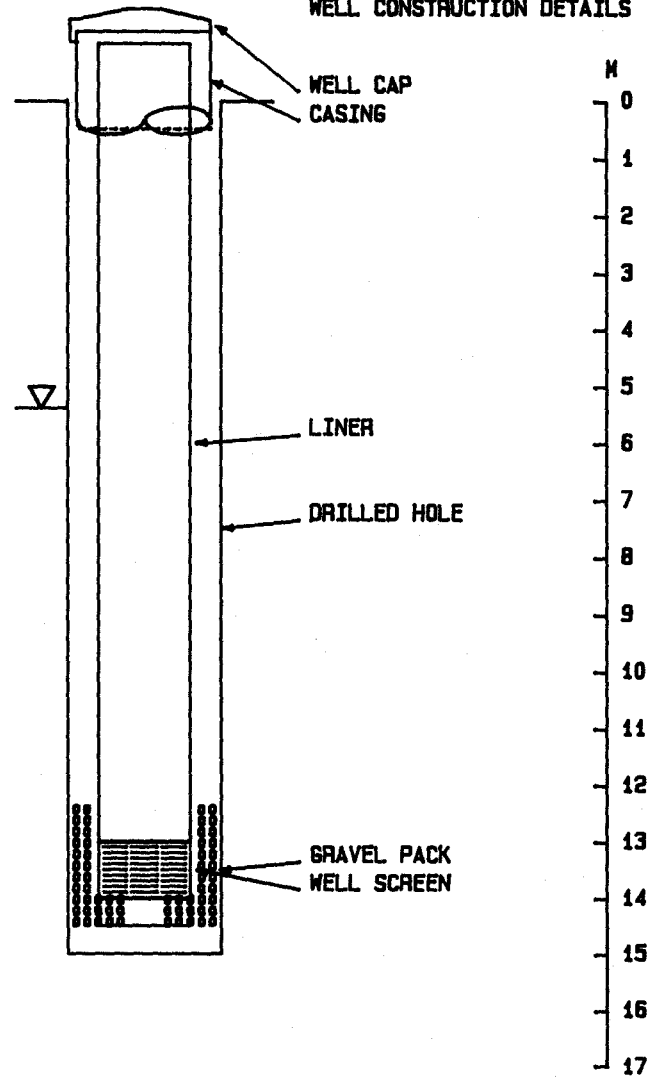
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-  ARG./SABLE
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-  SA. MOY.
-  SA. GROS.
-  GRAV. FIN
-  GRAV. MOY.
-  GRAV. GROS.
-  SA. DUNAIRE
-  SA. GRAVIL.
-  GRES/SABLE
-  GRES/SA/CALC
-  CALCAIRE
-  GRES FER.
-  SA. COQUIL.
-  MARNE
-  SOL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

LITHOLOGY



SCALE: 1 CM= 1 M

WELL CONSTRUCTION DETAILS



▽ STATIC WATER LEVEL




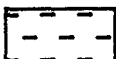
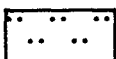
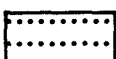
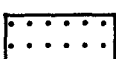
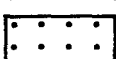
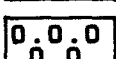
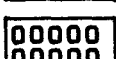
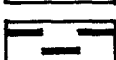



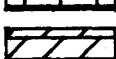
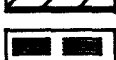

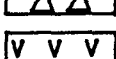
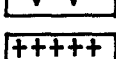
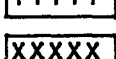
PROJECT: OMVS/USAID
 FILE: 625-0958
 LOCATION: KAEDI 28

COUPE GEOLOGIQUE ET TECHNIQUE

USAID/DAKAR/SENEGAL

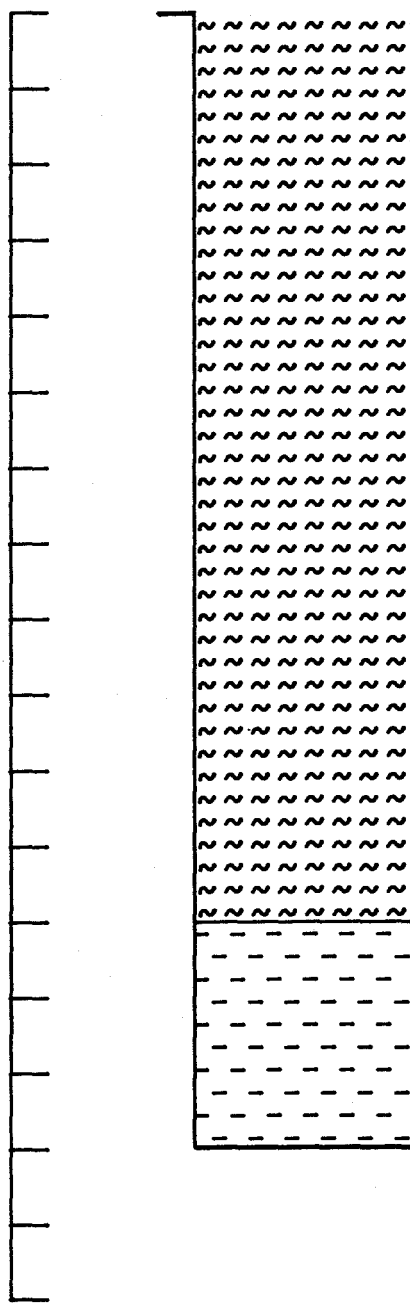
FIGURE: DA221

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

DA221



BT: GF/JA; ARGILEUX/SABLEUX.

BT: JA; SILTEUX/ARGILEUX; AN. GRANU. 14

PROJECT: OMVS/USAID
 FILE: 625-0958
 LOCATION: KAEDI 2B

LITHOLOGY

USAID/DAKAR/SENEGAL

FIGURE DA221

WELL LITHOLOGY





















PROJECT:OMVS/USAID
 LOCATION:KAEDI 2B
 WELL NO.:DA221
 DRILLER:SAFOR

FILE NO.:625-0958
 ELEVATION (M): 11.583
 DATE DRILLED:11/11/87
 TYPE OF RIG:ROTARY

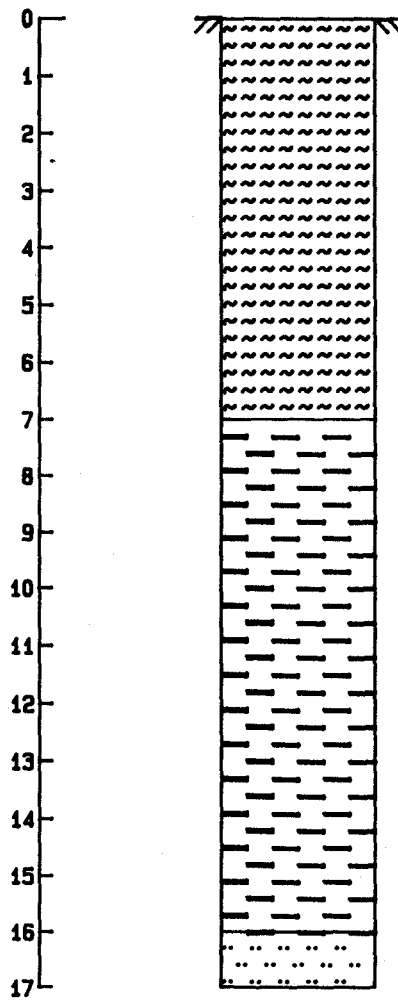
DEPTH (M)		ELEVATION (M)		THICKNESS (M)	LITHOLOGY
FROM	TO	FROM	TO		
0.00	12.00	11.58	-0.42	12.00	SILT,GT; GR/JA; ARGILEU
12.00	15.00	-0.42	-3.42	3.00	SA. FIN,GT; JA; SILTEUX

USAID/DAKAR/SENEGAL

LEGEND

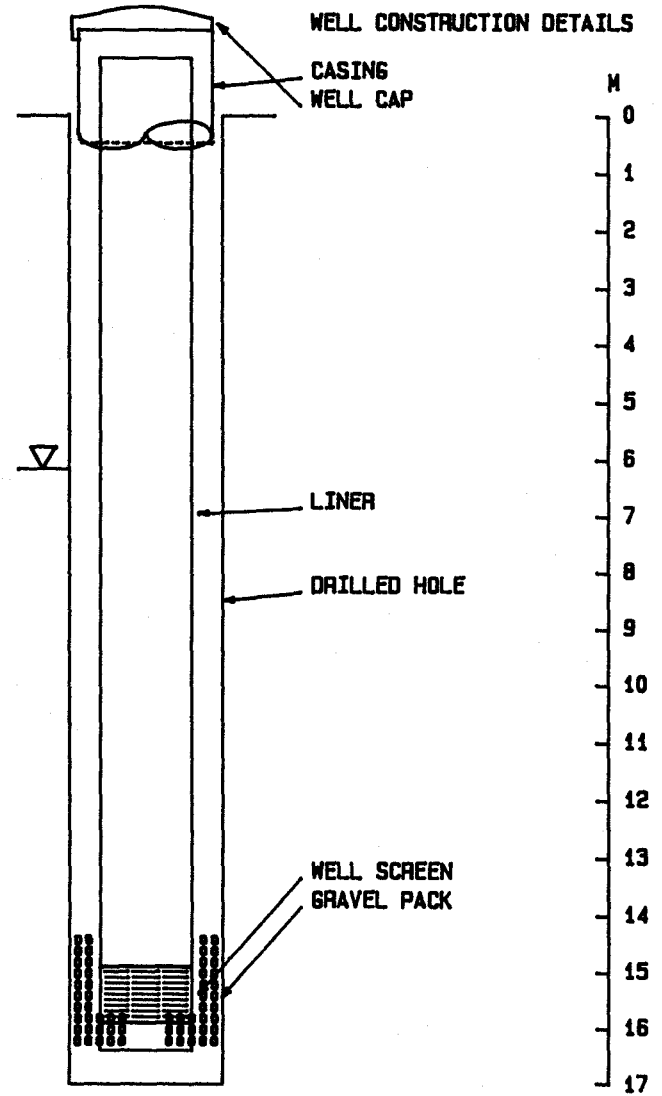
-  ARG./PLAST.
-  ARG./SABLE
-  SILT
-  SA. FIN
-  SA. MOY.
-  SA. GROS.
-  GRAV. FIN
-  GRAV. MOY.
-  GRAV. GROS.
-  SA. DUNAIRE
-  SA. GRAVIL.
-  GRES/SABLE
-  GRES/SA/CALC
-  CALCAIRE
-  GRES FER.
-  SA. COQUIL.
-  MARNE
-  SOL ORGAN.
-  LATERITE
-  SCHISTE

LITHOLOGY



SCALE: 1 CM = 1 M

WELL CONSTRUCTION DETAILS



▽ STATIC WATER LEVEL



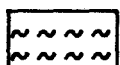
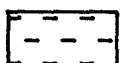
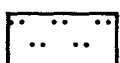

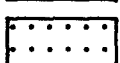
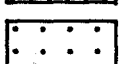
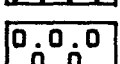




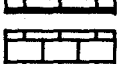
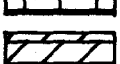


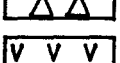
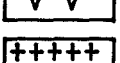

PROJECT: OMVS/USAID
 FILE: 625-0958
 LOCATION: KAEDI 28

COUPE GEOLOGIQUE ET TECHNIQUE

USAID/DAKAR/SENEGAL

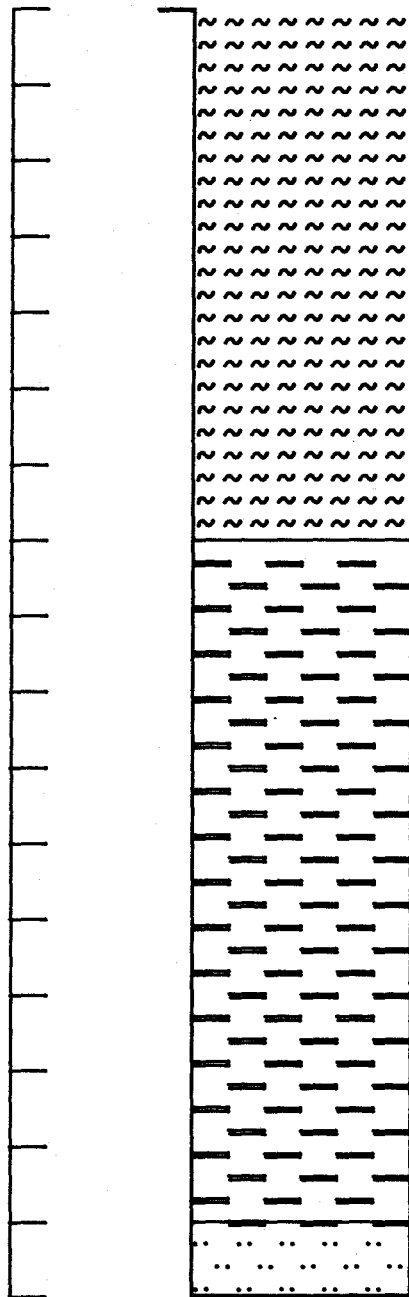
FIGURE: DA223

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

DA223



OT: ARGILEUX/SABLEUX; AN. GRANU.

OT: GRAVIER +QUARTZ.

OT: GROSSIER; AN. GRANU.

PROJECT: OMVS/USAID
 FILE: 625-0958
 LOCATION: KAEDI 2B

LITHOLOGY

USAID/DAKAR/SENEGAL

FIGURE DA223

WELL LITHOLOGY





















PROJECT: OMVS/USAID
 LOCATION: KAEDI 2B
 WELL NO.: DA223
 DRILLER: SAFOR

FILE NO.: 625-0958
 ELEVATION (M): 11.507
 DATE DRILLED: 11/11/87
 TYPE OF RIG: ROTARY

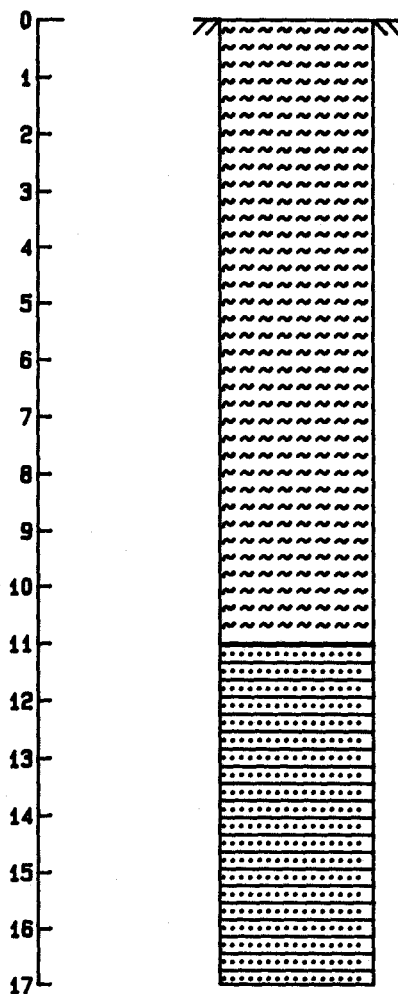
DEPTH (M)		ELEVATION (M)		THICKNESS (M)	LITHOLOGY
FROM	TO	FROM	TO		
0.00	7.00	11.51	4.51	7.00	SILT, QT; ARGILEUX/SABLE
7.00	16.00	4.51	-4.49	9.00	SA. GRAVIL., QT; GRAVIER
16.00	17.00	-4.49	-5.49	1.00	SA. NOY., QT; GROSSIER;

USAID/DAKAR/SENEGAL

LEGEND

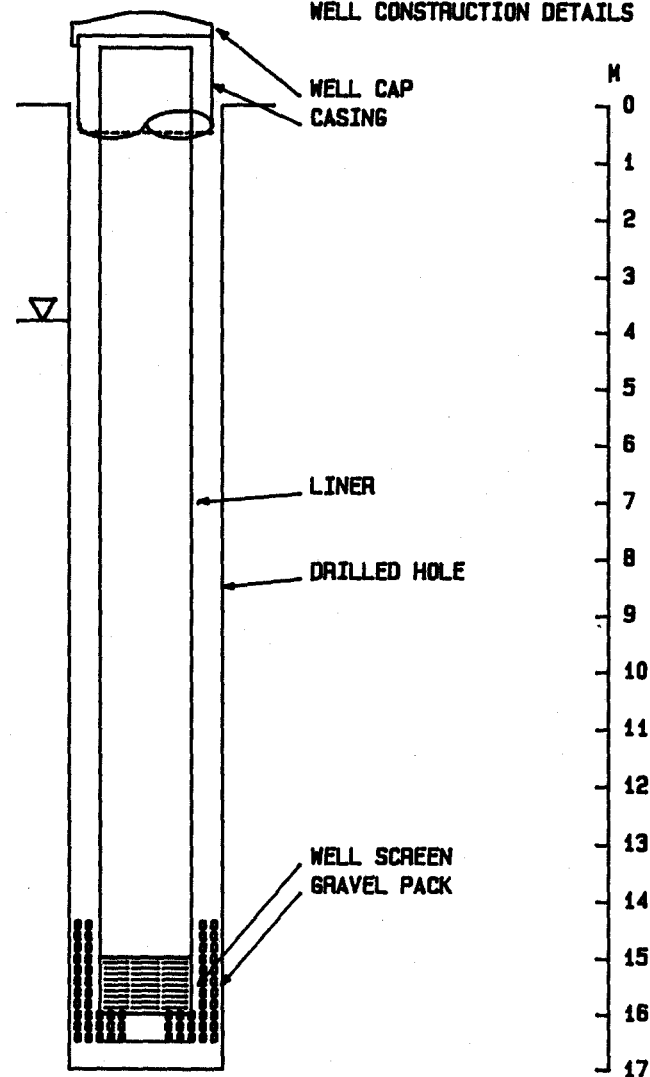
-  ARG./PLAST.
-  ARG./SABLE
-  SILT
-  SA. FIN
-  SA. MOY.
-  SA. GROS.
-  GRAV. FIN
-  GRAV. MOY.
-  GRAV. GROS.
-  SA. DUNAIRE
-  SA. GRAVIL.
-  GRES/SABLE
-  GRES/SA/CALC
-  CALCAIRE -
-  GRES FER.
-  SA. COQUIL.
-  MARNE
-  SOL ORGAN.
-  LATERITE
-  SCHISTE

LITHOLOGY



SCALE: 1 CM = 1 M

WELL CONSTRUCTION DETAILS



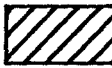

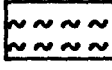

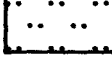
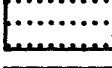
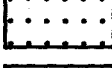

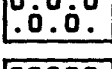
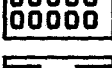






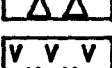
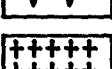
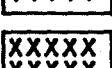
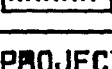
PROJECT: OMVS/USAID
FILE: 825-0958
LOCATION: KAEDI 28

COUPE GEOLOGIQUE ET TECHNIQUE

USAID/DAKAR/SENEGAL

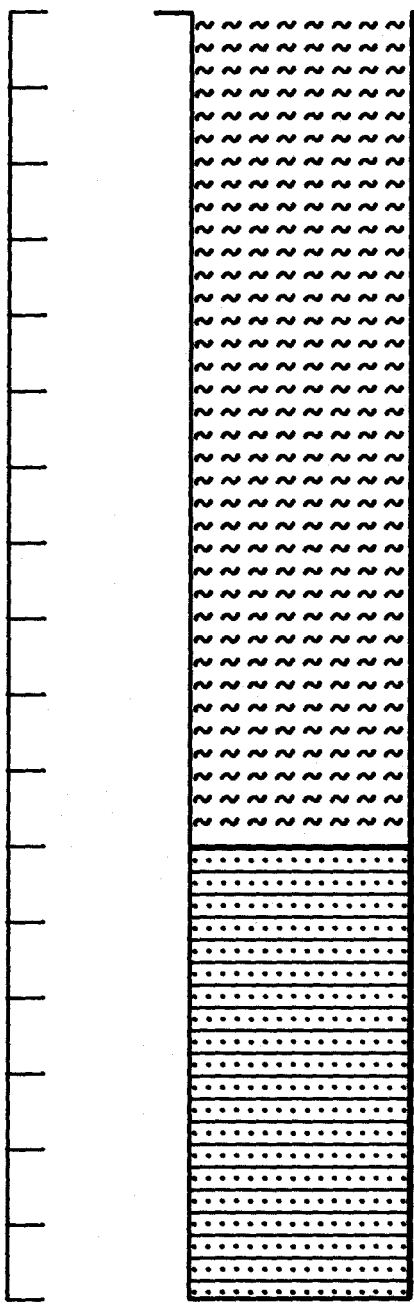
FIGURE: DA225

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

DA225



GR, ARGILEUX/SABLEUX.

EC: MOYEN; SILTEUX/ARGILEUX; QUARTZ; A M. GRANU.

PROJECT: OMVS/USAID
 FILE: 625-0958
 LOCATION: KAEDI 2B

LITHOLOGY

USAID/DAKAR/SENEGAL

FIGURE DA225

WELL LITHOLOGY





















PROJECT:OMVS/USAID
 LOCATION:KAEDI 2B
 WELL NO.:DA225
 DRILLER:SAFOR

FILE NO.:625-0958
 ELEVATION (M): 12.304
 DATE DRILLED:10/11/87
 TYPE OF RIG:ROTARY

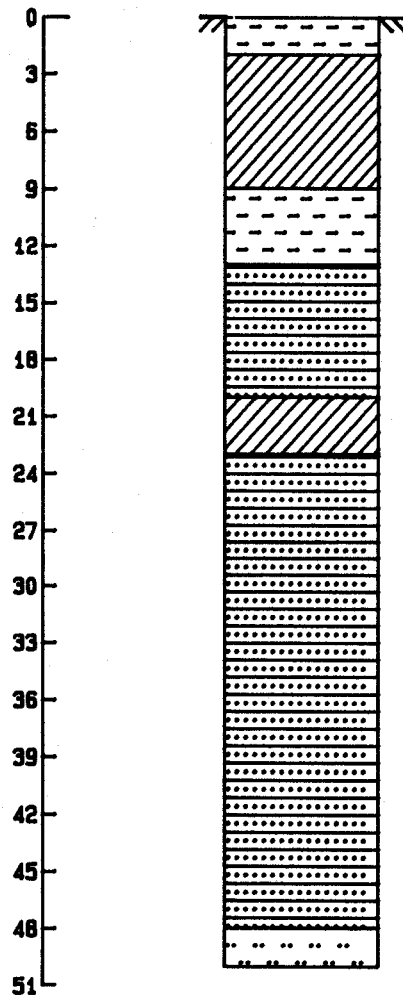
DEPTH (M)		ELEVATION (M)		THICKNESS (M)	LITHOLOGY
FROM	TO	FROM	TO		
0.00	11.00	12.30	1.30	11.00	SILT,QT; GR; ARGILEUX/S
1.00	17.00	1.30	-4.70	6.00	GRES/SABLE,EC; MOYEN; S

USAID/DAKAR/SENEGAL

LEGEND

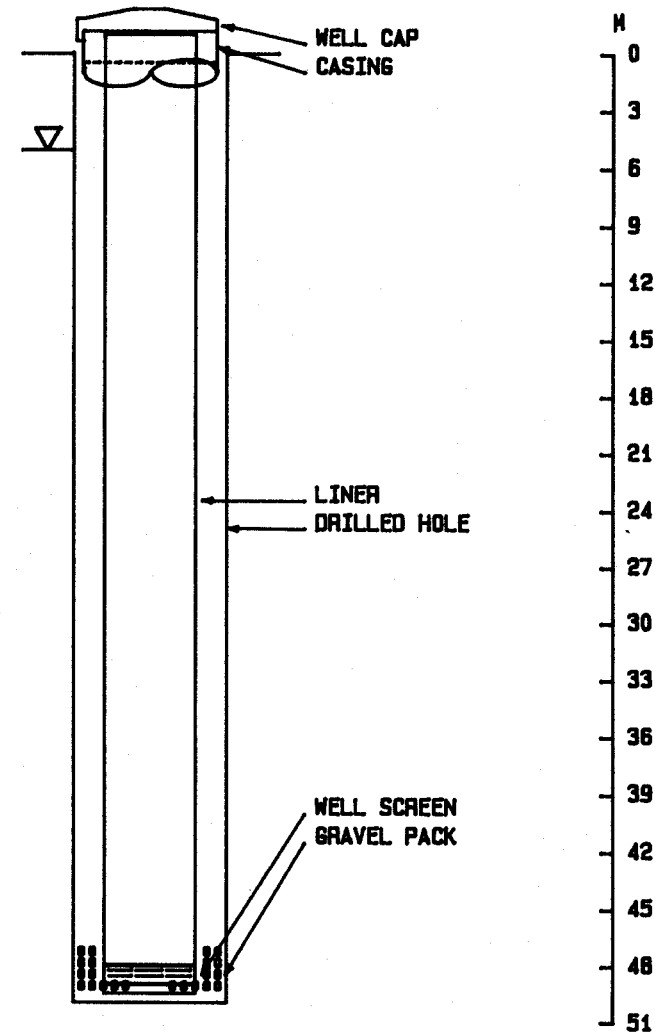
-  ARG./PLAST.
-  ARG./SABLE
-  SILT
-  SA. FIN
-  SA. MOY.
-  SA. GROS.
-  GRAV. FIN
-  GRAV. MOY.
-  GRAV. GROS.
-  SA. DUNAIRE
-  SA. GRAVIL.
-  GRES/SABLE
-  GRES/SA/CALC
-  CALCAIRE
-  GRES FER.
-  SA. COQUIL.
-  MARNE
-  SOL ORGAN.
-  LATERITE
-  SCHISTE

LITHOLOGY



SCALE: 1 CM= 3 M

WELL CONSTRUCTION DETAILS



 STATIC WATER LEVEL





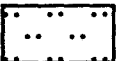
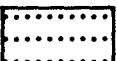
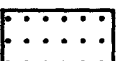
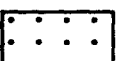
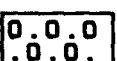


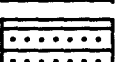
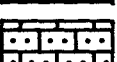

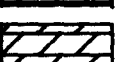

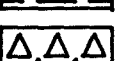
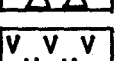
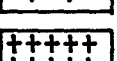
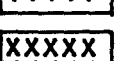
PROJECT: OMVS/USAID
 FILE: 825-0958
 LOCATION: KAEDI 28

COUPE GEOLOGIQUE ET TECHNIQUE

USAID/DAKAR/SENEGAL

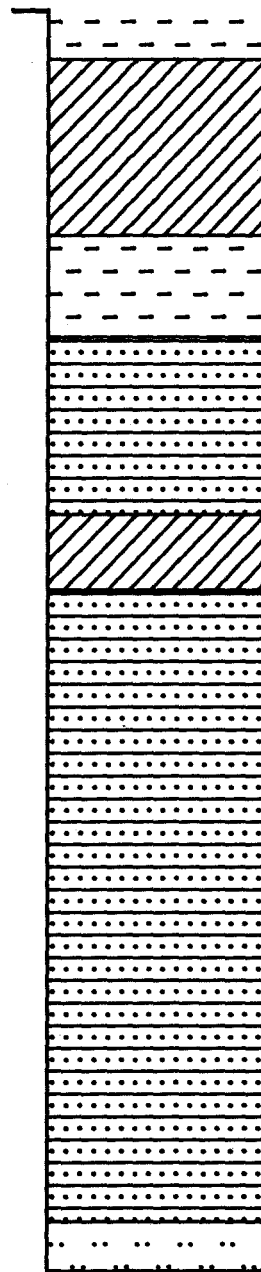
FIGURE: DA227

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

DA227



OT; GR; SILTEUX/ARGILEUX; AN. GRANU (DA2
20)
OT; GR; SILTEUX; AN. GRANU. (DA220).
OT; RO.
EC; RO; MOYEN; +QUARTZ.
EC; GR.
EC; RO; MOYEN; +QUARTZ.
EC; JA; GROSSIER; AN. GRANU. (49m).

PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: KAEDI 2B

LITHOLOGY

USAID/DAKAR/SENEGAL

FIGURE DA227

WELL LITHOLOGY




PROJECT:OMVS/USAID
 LOCATION:KAEDI 2B
 WELL NO.:DA227
 DRILLER:SAFOR

FILE NO.:625-0958
 ELEVATION (M): 12.184
 DATE DRILLED:10/11/87
 TYPE OF RIG:ROTARY

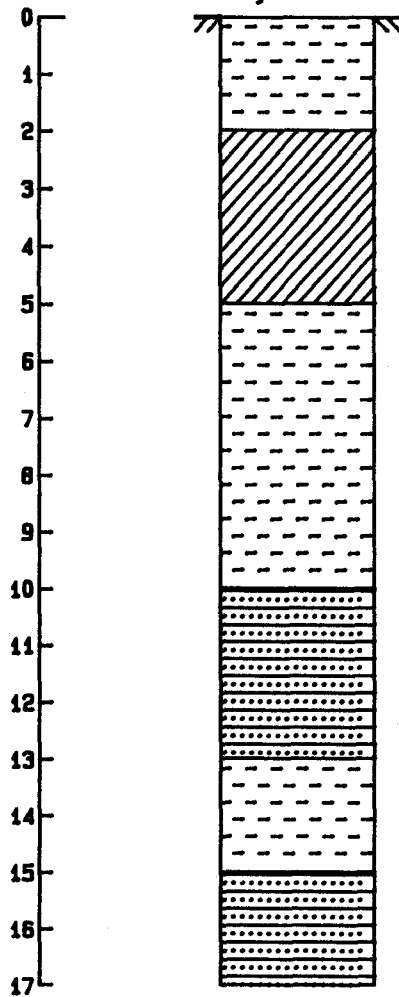
DEPTH (M)		ELEVATION (M)		THICKNESS (M)	LITHOLOGY
FROM	TO	FROM	TO		
0.00	2.00	12.18	10.18	2.00	SA. FIN,QT; GR; SILTEUX
2.00	9.00	10.18	3.18	7.00	ARG./PLAST.,QT; GR; SIL
9.00	13.00	3.18	-0.82	4.00	SA. FIN,QT; RO.
13.00	20.00	-0.82	-7.82	7.00	GRES/SABLE,EC; RO; MOYE
20.00	23.00	-7.82	-10.82	3.00	ARG./PLAST.,EC; GR.
23.00	48.00	-10.82	-35.82	25.00	GRES/SABLE,EC; RO; MOYE
48.00	50.00	-35.82	-37.82	2.00	SA. MOY.,EC; JA; GROSSI

USAID/DAKAR/SENEGAL

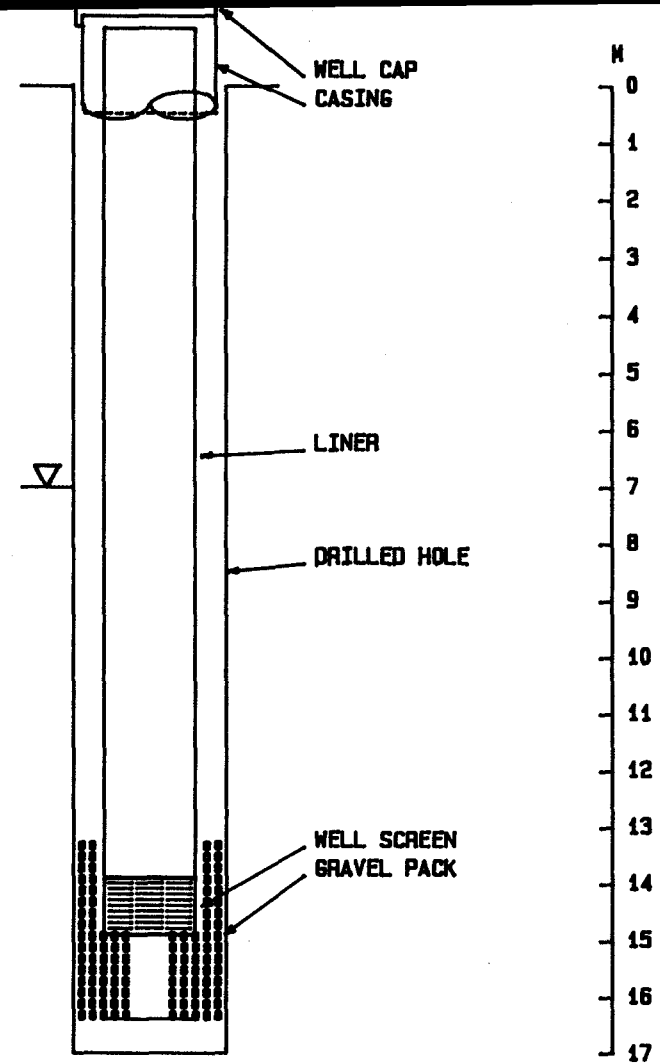
LEGEND

-  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

LITHOLOGIST



SCALE: 1 CM = 1 M



▽ STATIC WATER LEVEL














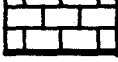
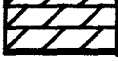



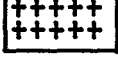

PROJECT: OMVS/USAID
 FILE: 825-0958
 LOCATION: KAEDI 2B

COUPE GEOLOGIQUE ET TECHNIQUE

USAID/DAKAR/SENEGAL

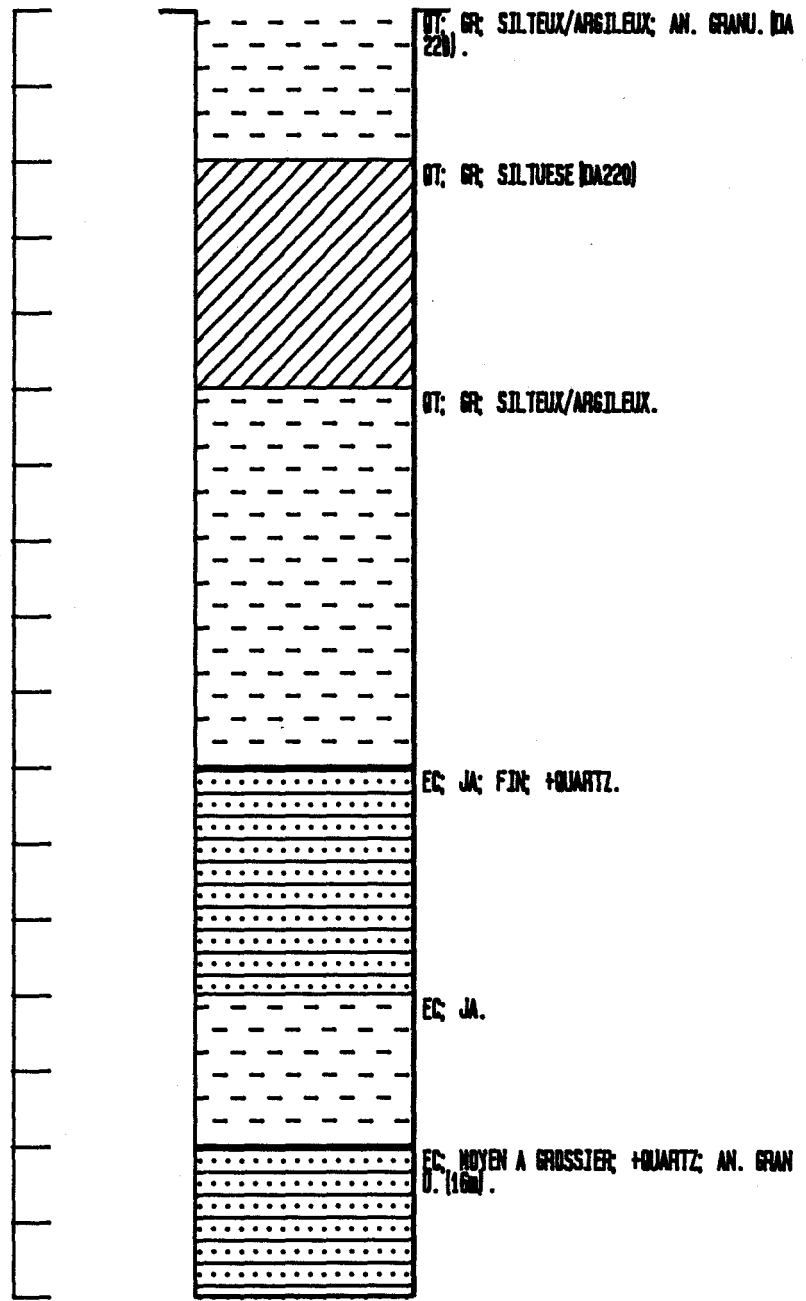
FIGURE: DA228

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

DA228



PROJECT: OMVS/USAID
 FILE: 625-0958
 LOCATION: KAEDI 2B

LITHOLOGY

USAID/DAKAR/SENEGAL

FIGURE DA228

WELL LITHOLOGY

PROJECT:OMVS/USAID
 LOCATION:KAEDI 2B
 WELL NO.:DA228
 DRILLER:SAFOR

FILE NO.:625-0958
 ELEVATION (M): 12.144
 DATE DRILLED:10/11/87
 TYPE OF RIG:ROTARY

DEPTH (M)		ELEVATION (M)		THICKNESS (M)	LITHOLOGY
FROM	TO	FROM	TO		
0.00	2.00	12.14	10.14	2.00	SA. FIN,QT; GR; SILTEUX
2.00	5.00	10.14	7.14	3.00	ARG./PLAST.,QT; GR; SIL
5.00	10.00	7.14	2.14	5.00	SA. FIN,QT; GR; SILTEUX
10.00	13.00	2.14	-0.86	3.00	GRES/SABLE,EC; JA; FIN;
13.00	15.00	-0.86	-2.86	2.00	SA. FIN,EC; JA.
15.00	17.00	-2.86	-4.86	2.00	GRES/SABLE,EC; MOYEN A

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

09 KAEDI 2B

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: GRANULO.FIC

Page .1. de .3.

PIEZO #	HORIZON B1/B2	% POIDS/ CLASSE GRANULOMETRIQUE					% POIDS TOTAL
		ARGILE	LIMON FIN	LIMON GROSSIER	SABLE FIN	SABLE GROSSIER	
DA 22Ø	B1	18,91	18,92	2,96	35,91	21,78	98,48
DA 22Ø	5m - B3	43,64	35,64	3,17	14,13	1,83	98,41
DA 22Ø	10m - B3	14,71	18,71	2,11	39,53	23,54	98,6
DA 22Ø	15m - B3	4,ØØ	9,Ø8	2,77	26,21	56,34	98,4
DA 22Ø	25m - B3	18,43	18,44	3,45	16,98	41,Ø8	98,38
DA 22Ø	3Øm - B2	Ø,ØØ	3,6Ø	Ø,7Ø	13,51	8Ø,7Ø	98,51
DA 22Ø	3Øm - B3	6,ØØ	11,27	3,Ø4	17,Ø3	61,27	98,61
DA 22Ø	31m - B2	2,ØØ	6,91	1,9Ø	11,8Ø	75,9Ø	98,51
DA 22Ø	33m - B2	2,ØØ	6,29	1,Ø7	15,4Ø	73,87	98,63
DA 22Ø	34m - B2	3,ØØ	6,24	1,9Ø	16,69	7Ø,65	98,48
DA 22Ø	35m - B3	2,ØØ	5,49	1,1Ø	16,Ø9	73,72	98,4
DA 22Ø	36m - B2	3,ØØ	6,1Ø	Ø,87	14,88	73,76	98,61
DA 22Ø	37m - B2	4,ØØ	8,25	Ø,91	19,44	66,Ø6	98,66
DA 22Ø	38m - B2	4,ØØ	8,ØØ	Ø,9Ø	19,91	66,16	98,97
DA 22Ø	39m - B2	2,ØØ	9,65	1,Ø7	13,98	71,92	98,62
DA 22Ø	40m - B2	Ø,ØØ	3,84	1,6Ø	1,17	91,93	98,54
DA 22Ø	40m - B3	Ø,ØØ	2,1Ø	Ø,71	8,96	86,73	98,5

RESULTATS DES ANALYSES GRANULOMETRIQUES

Responsable des prélèvements: SAFOR

Responsable des analyses: SAED/ Laboratoire de ROSS- BETHIO

Fichier: GRANULJ.FIC

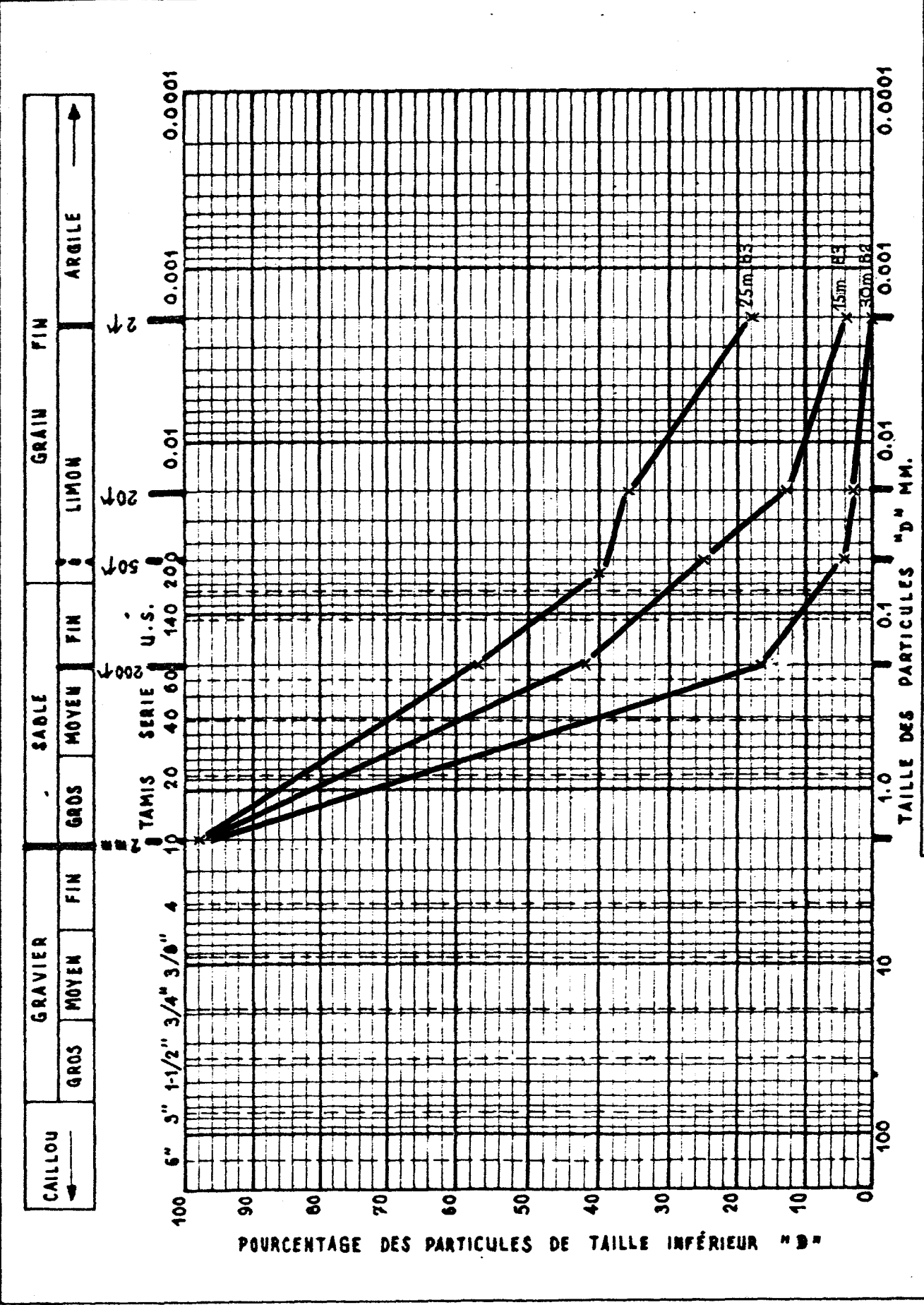
Page .2. de .3.

PIEZO #	HORIZON B1/B2	% POIDS/ CLASSE GRANULOMETRIQUE					% POIDS TOTAL
		ARGILE	LIMON FIN	LIMON GROSSIER	SABLE FIN	SABLE GROSSIER	
DA 220	41m - B2	0,00	4,07	1,69	1,16	91,69	98,61
DA 220	42m - B2	2,00	7,40	2,47	12,04	76,59	100,50
DA 220	43m - B2	2,00	8,41	2,26	16,45	71,35	100,47
DA 220	44m - B2	0,00	2,26	0,42	4,85	91,06	98,59
DA 220	45m - B2	0,00	2,16	0,10	5,18	91,29	98,73
DA 220	45m - B3	0,00	2,01	0,93	1,97	93,71	98,62
DA 220	46m - B2	2,00	10,00	0,49	1,82	84,33	98,64
DA 220	47m - B2	0,00	2,29	0,00	5,81	90,44	98,54
DA 220	48m - B2	0,00	2,23	0,87	6,60	88,77	98,47
DA 220	49m - B2	2,00	5,00	1,00	16,85	73,81	98,66
DA 220	50m - B2	0,00	3,39	0,52	10,54	84,17	98,62
DA 220	50m - B3	0,00	0,00	0,98	1,38	96,07	98,43
DA 220	32m - B2	0,00	5,06	2,28	16,77	74,49	98,6
DA 220	35m - B2	0,00	8,32	1,87	24,18	64,11	98,48
DA 221	14m - B2	12,41	16,42	7,18	48,80	18,63	98,44
DA 223	B1	38,80	22,80	5,67	26,46	4,74	98,47
DA 223	19m [?] - B2	2,00	10,04	1,42	11,09	74,02	98,57

PAYS
 MAURITANIE

PIEZOMÈTRE N° 09 2B DA220 HP
 COORDONNÉES (MTU) X: _____ Y: _____

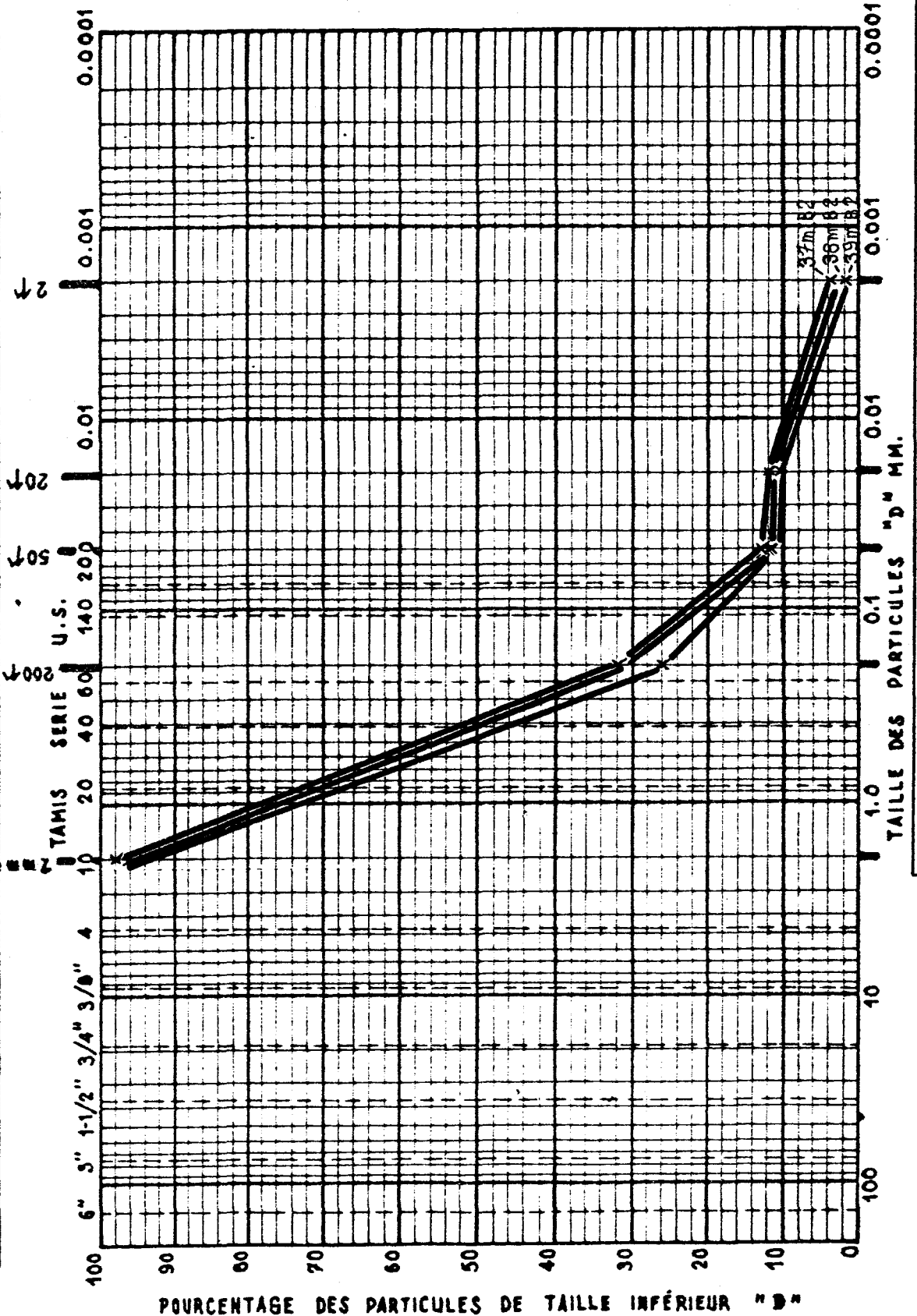
TYPE D'ÉCHANT. : OUm



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

TYPE D'ÉCHANT. : OU M

COURBES GRANULOMÉTRIQUES



PAYS
 MAURITANIE

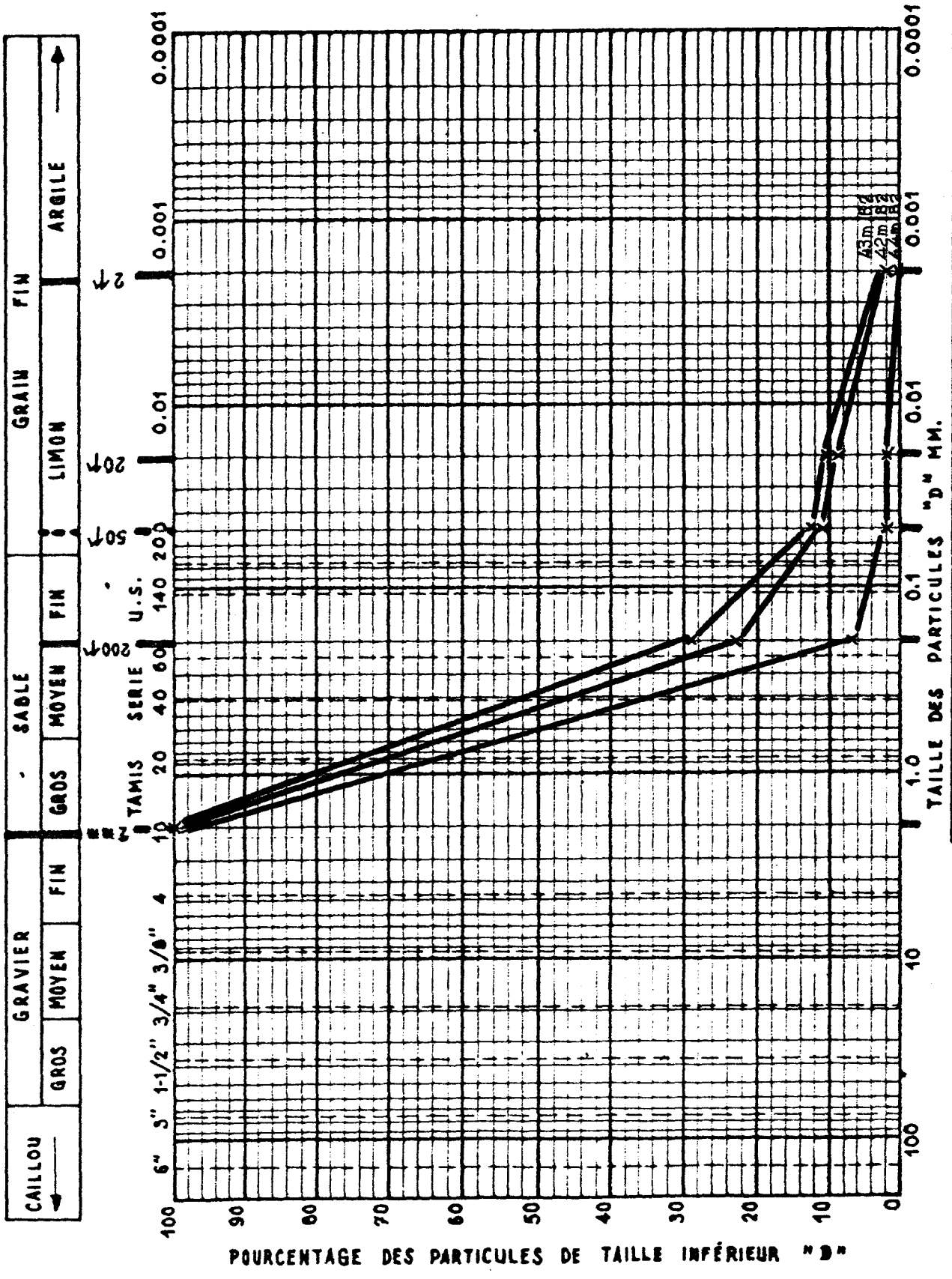
PIEZOMÈTRE N° 09 28 DA220 HP

COORDONNÉES (MTU) X: Y:

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

PAYS : MAURITANIE
 PIÉZOMÈTRE N° : Ø 9 2 B DIA 22 Ø H P
 COORDONNÉES (MTU) : X : Y :

COURBES GRANULOMÉTRIQUES



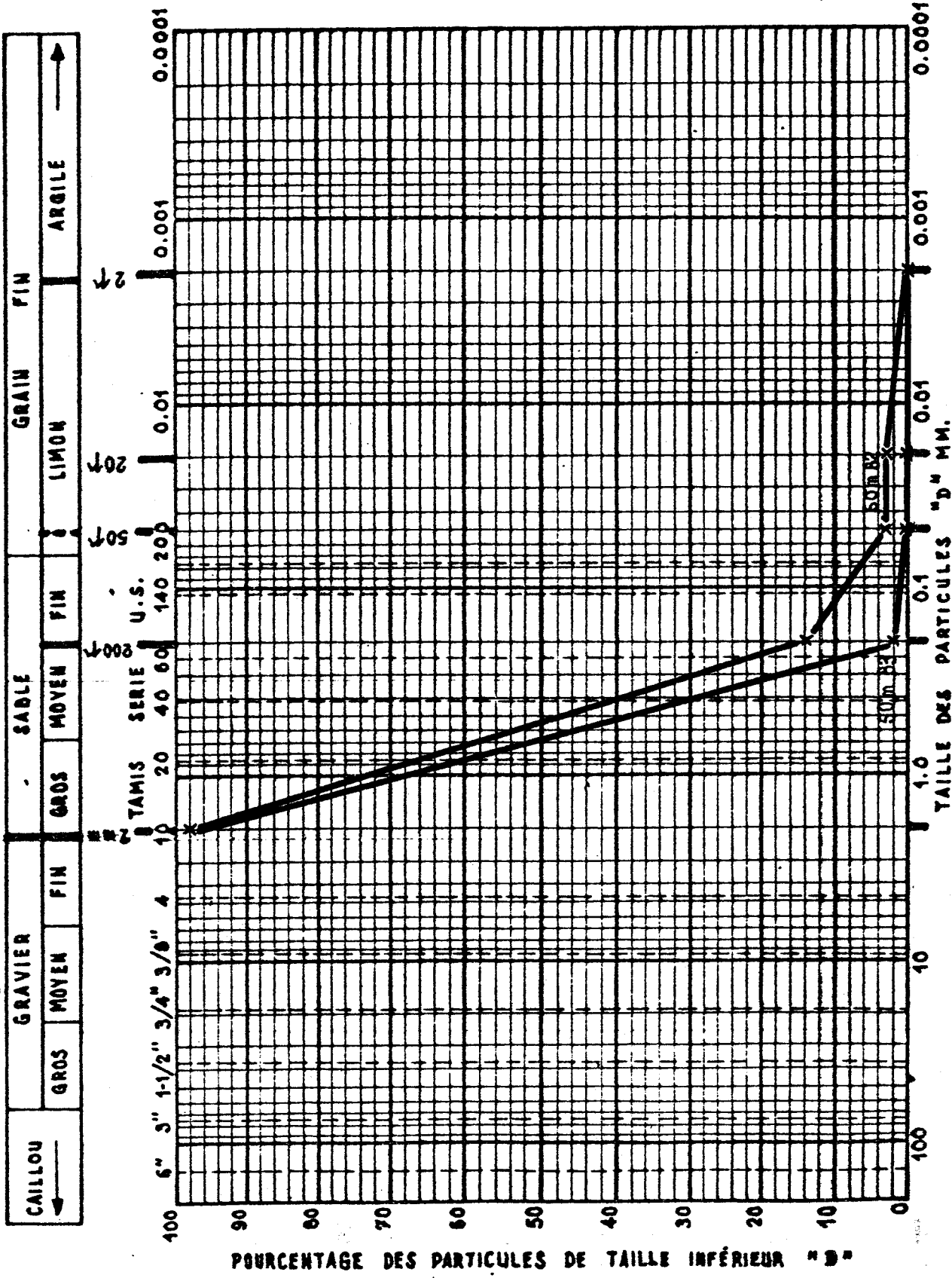
CLASSIFICATION M.I.T. KB1 = cm/sec KB2 = cm/sec

TYPE D'ÉCHANT. : OU (M)

PAYS
MAURITANIE

PIEZOMÈTRE N° 09 2B DA220 HP
 COORDONNÉES (MTU) X: ----- Y: -----

COURBES GRANULOMÉTRIQUES



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

PAYS

MAURITANIE

PIEZOMÈTRE N°

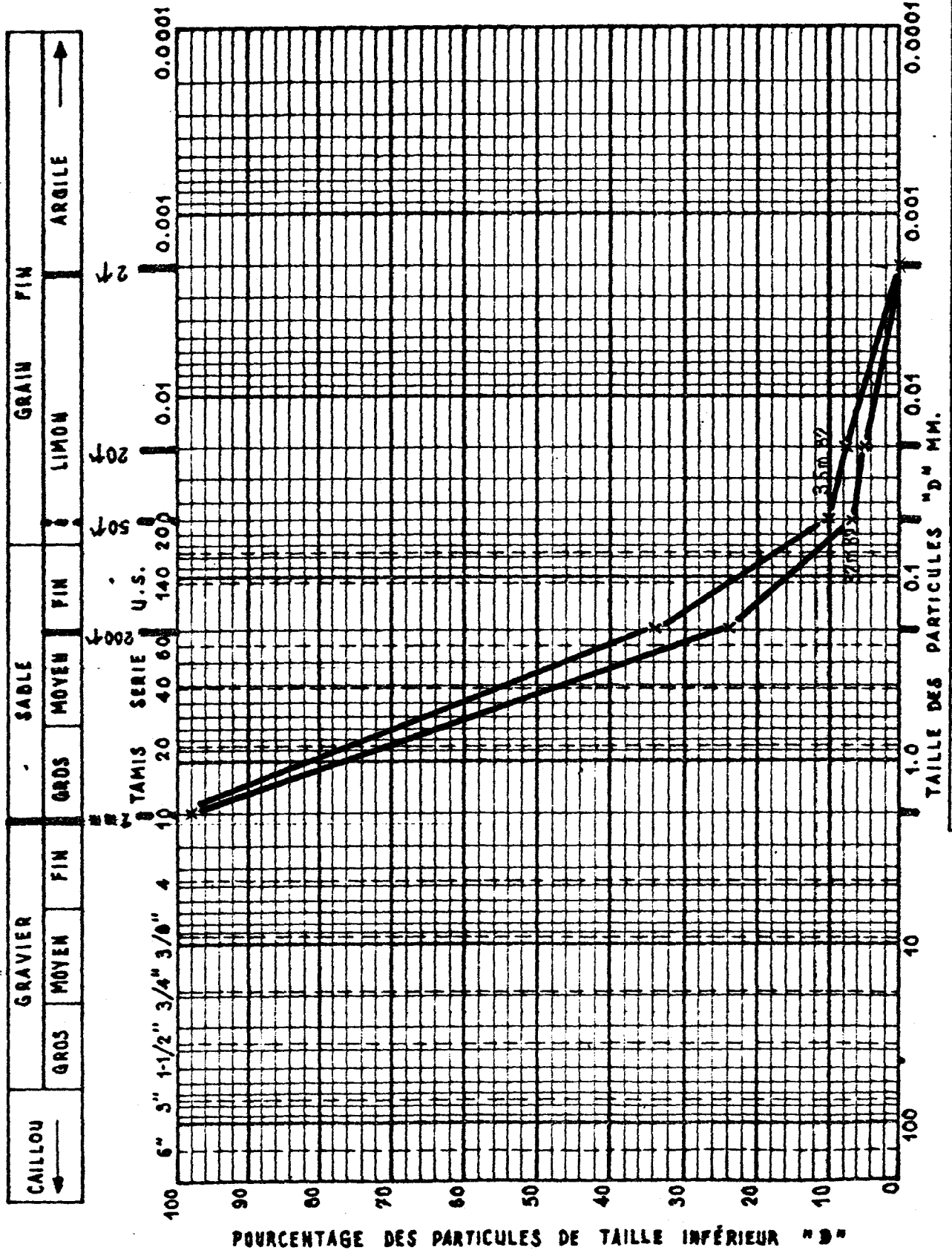
09 28 DA220 HP

COORDONNÉES (MTU)

X: _____ Y: _____

TYPE D'ÉCHANT. : OU (M)

COURBES GRANULOMÉTRIQUES

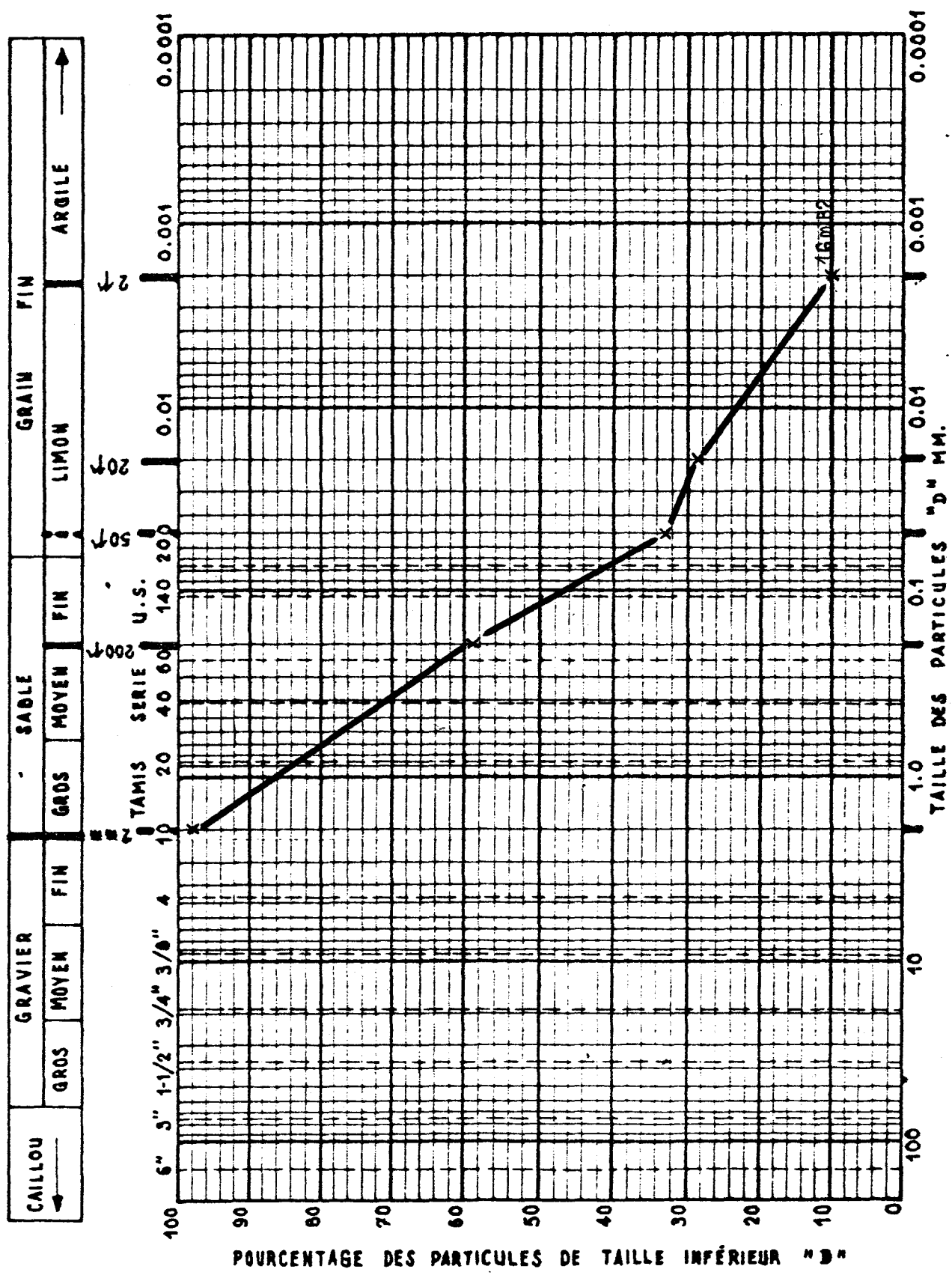


CLASSIFICATION M.I.T. KB1 = CM/SEC. KB2 = CM/SEC.

PAYS : MAURITANIE
 PIÉZOMÈTRE N° : 09 2B DA225 HP
 COORDONNÉES (MTU) : X: --- Y: ---

TYPE D'ÉCHANT. : OU m

COURBES GRANULOMÉTRIQUES



KB1 = N/R ... cm/sec
 KB2 = 4×10^{-6} ... cm/sec

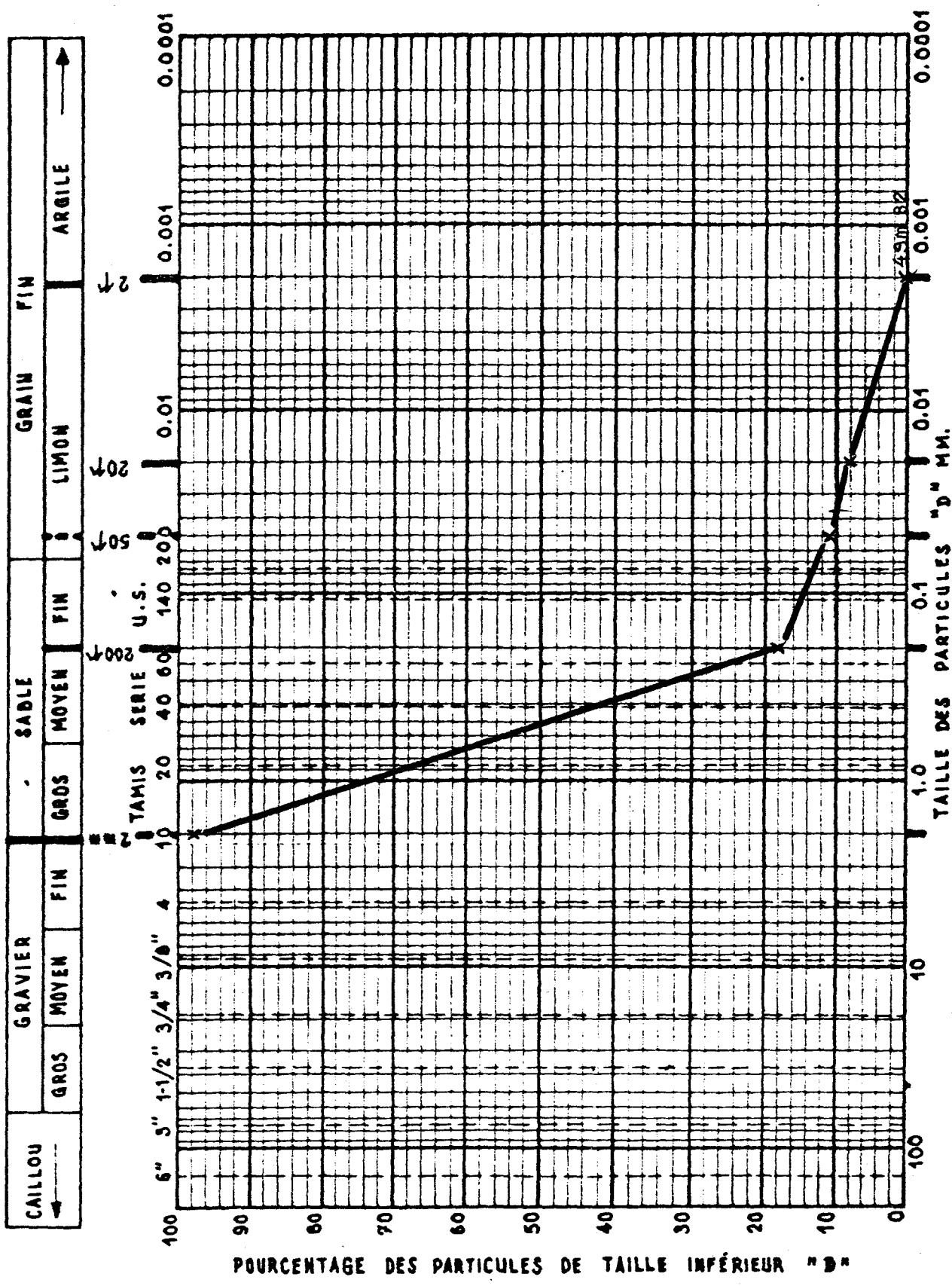
PAYS
 MAURITANIE

PIEZOMÈTRE N° 09 28 DA227 HP

COORDONNÉES (MTU) X: --- Y: ---

TYPE D'ÉCHANT. : OU M

COURBES GRANULOMÉTRIQUES



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

TAMIS SERIE U.S. 200 140 100 60 40 20 10
 6" 3" 1-1/2" 3/4" 3/8" 4 10 20 50 100 200 500 1000 2000

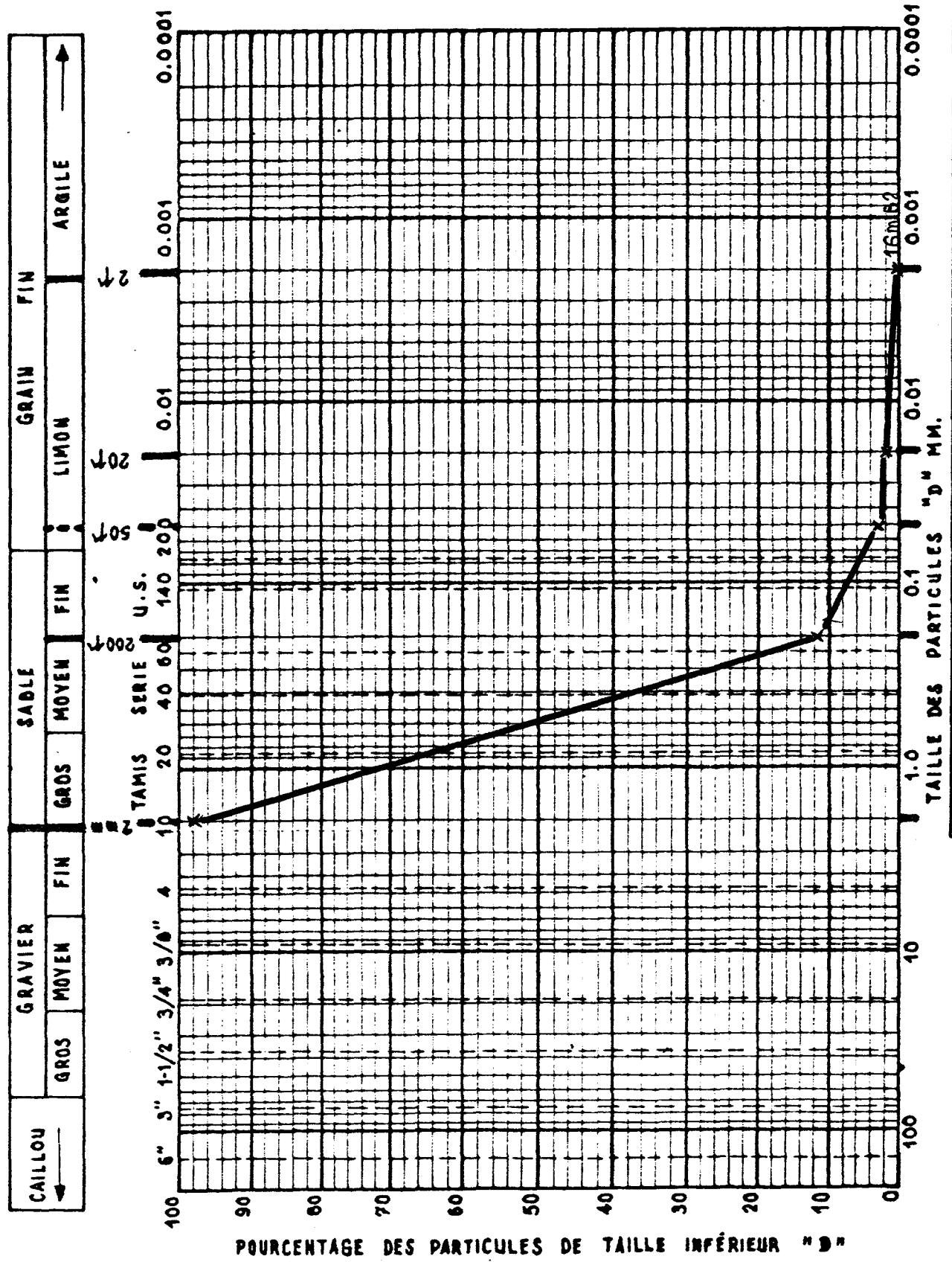
CLASSIFICATION M.I.T. KB1 = N/A... cm/sec KB2 = 1.296 x 10⁻³ cm/sec

TYPE D'ÉCHANT. : OU M

PAYS
 MAURITANIE

PIEZOMÈTRE N° 09 28 DA228 4P
 COORDONNÉES (MTU) X: Y:

COURBES GRANULOMÉTRIQUES



CLASSIFICATION M.I.T. KB1 = N/A... cm/sec KB2 = 3.24 x 10⁻² cm/sec

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.

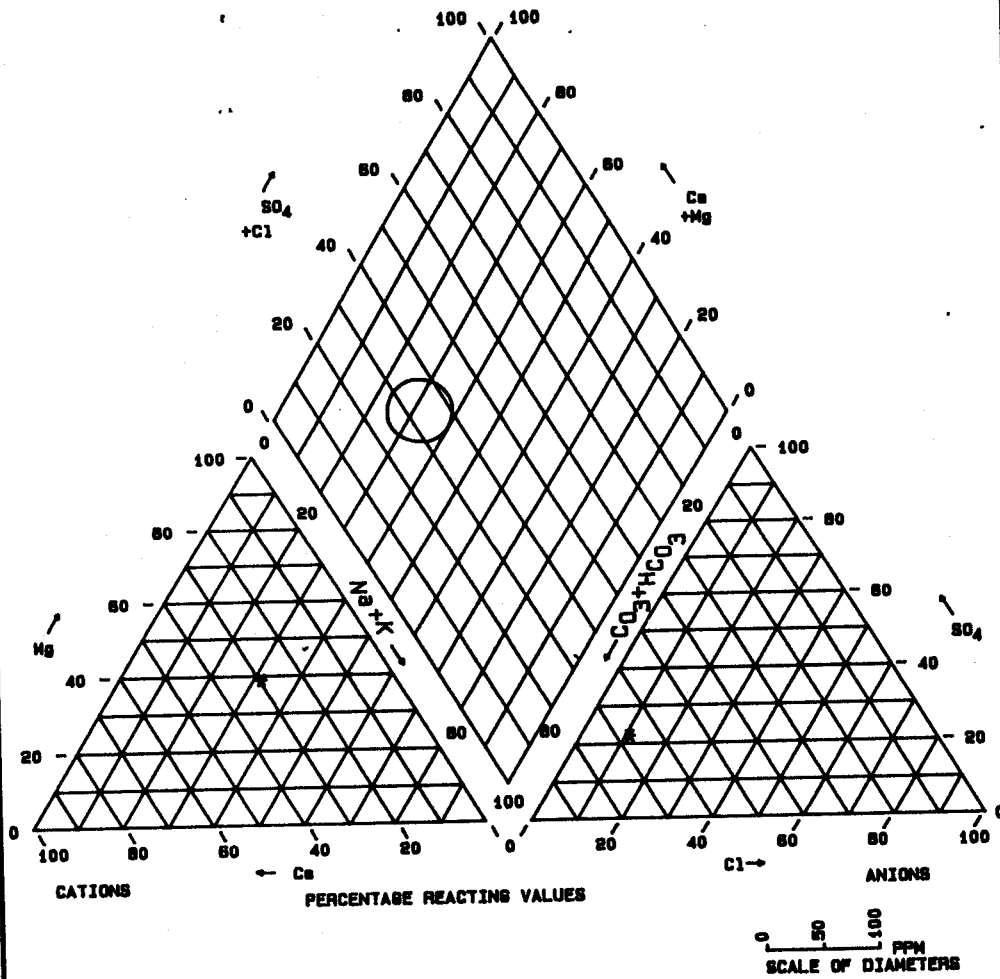
PROJET OMVS/USAID
625-0958

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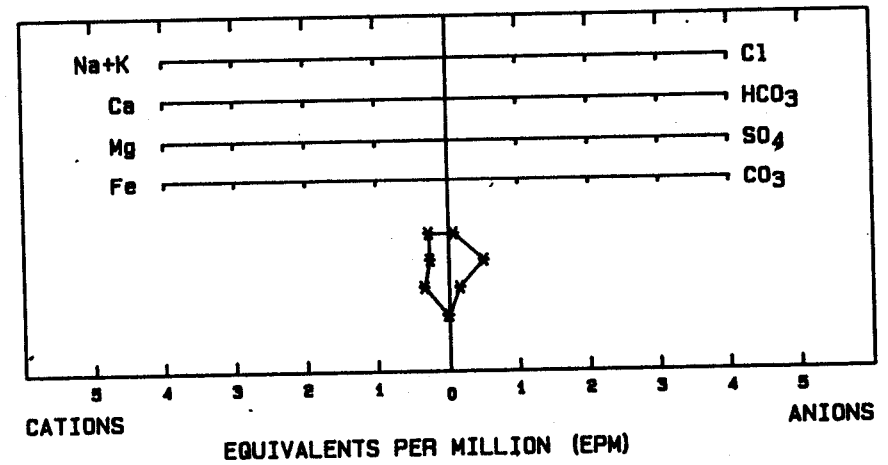
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DA228	.CHM	128	..	2-23-89	11:15	am

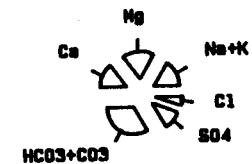
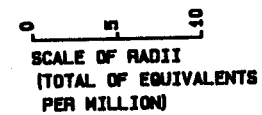
PIPER TRILINEAR DIAGRAM



STIFF GRAPH



PIE DIAGRAM



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

PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: KAEDI 2B

SAMPLE: DA220 10/11/87

CHEMICAL GRAPHS

USAID/DAKAR/SENEGAL

FIGURE: DA220

CHEMISTRY ANALYSIS

PROJECT: OMVS/USAID
 LOCATION: KAEDI 28

FILE: 625-0958

WELL NO.: DA220 10/11/87

CATIONS	PPM	EPM	% EPM
Ca	5.00	0.25	29.45
Mg	4.00	0.33	38.83
Na+K	7.00	0.27	31.71

ANIONS	PPM	EPM	% EPM
HCO3+CO3	31.00	0.51	66.92
SO4	8.00	0.17	21.94
Cl	3.00	0.08	11.14

TOTAL DISSOLVED SOLIDS: 125
 ERROR IN CATION/ANION BALANCE: 6.10 %
 SODIUM ABSORPTION RATION (S.A.R.): 0.40

USAID/DAKAR/SENEGAL

CHEMISTRY ANALYSIS

PROJECT: OMVS/USAID
LOCATION: KAEDI 2B

FILE: 625-0958

WELL NO.: DA220 21/02/88

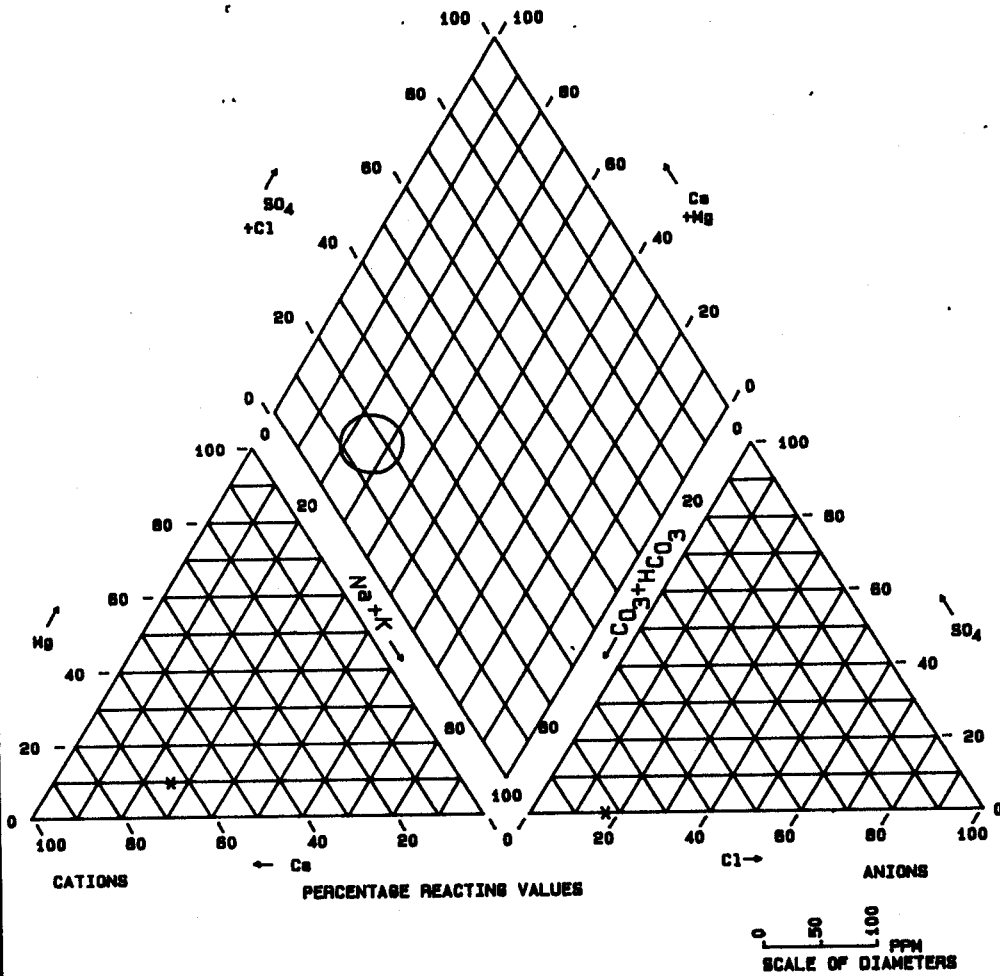
CATIONS	PPM	EPM	% EPM
Ca	13.00	0.65	62.47
Mg	2.00	0.16	15.84
Na+K	6.00	0.23	21.68

ANIONS	PPM	EPM	% EPM
HCO3+CO3	49.00	0.80	87.68
SO4	0.00	0.00	0.00
Cl	4.00	0.11	12.32

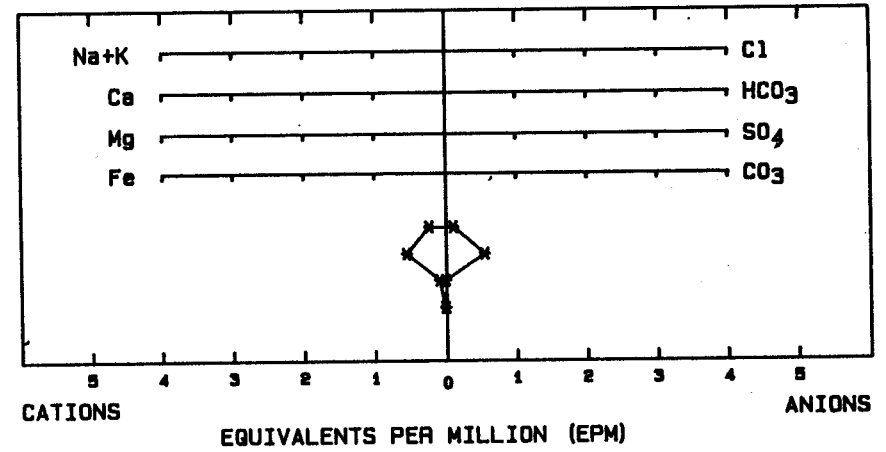
TOTAL DISSOLVED SOLIDS: 60
ERROR IN CATION/ANION BALANCE: 6.30 %
SODIUM ABSORPTION RATION (S.A.R.): 0.27

USAID/DAKAR/SENEGAL

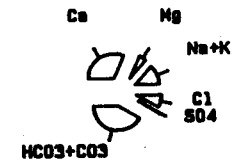
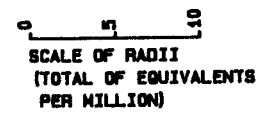
PIPER TRILINEAR DIAGRAM



STIFF GRAPH



PIE DIAGRAM



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

PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: KAEDI 2B

SAMPLE: DA220 22/02/88

CHEMICAL GRAPHS

USAID/DAKAR/SENEGAL

FIGURE: DA220

CHEMISTRY ANALYSIS

PROJECT: OMVS/USAID
 LOCATION: KAEDI 2B

FILE: 625-0958

WELL NO.: DA220 22/02/88

CATIONS	PPM	EPM	% EPM
Ca	11.00	0.55	64.10
Mg	1.00	0.08	9.60
Na+K	6.00	0.23	26.29

ANIONS	PPM	EPM	% EPM
HCO3+CO3	34.00	0.56	83.17
SO4	0.00	0.00	0.00
Cl	4.00	0.11	16.83

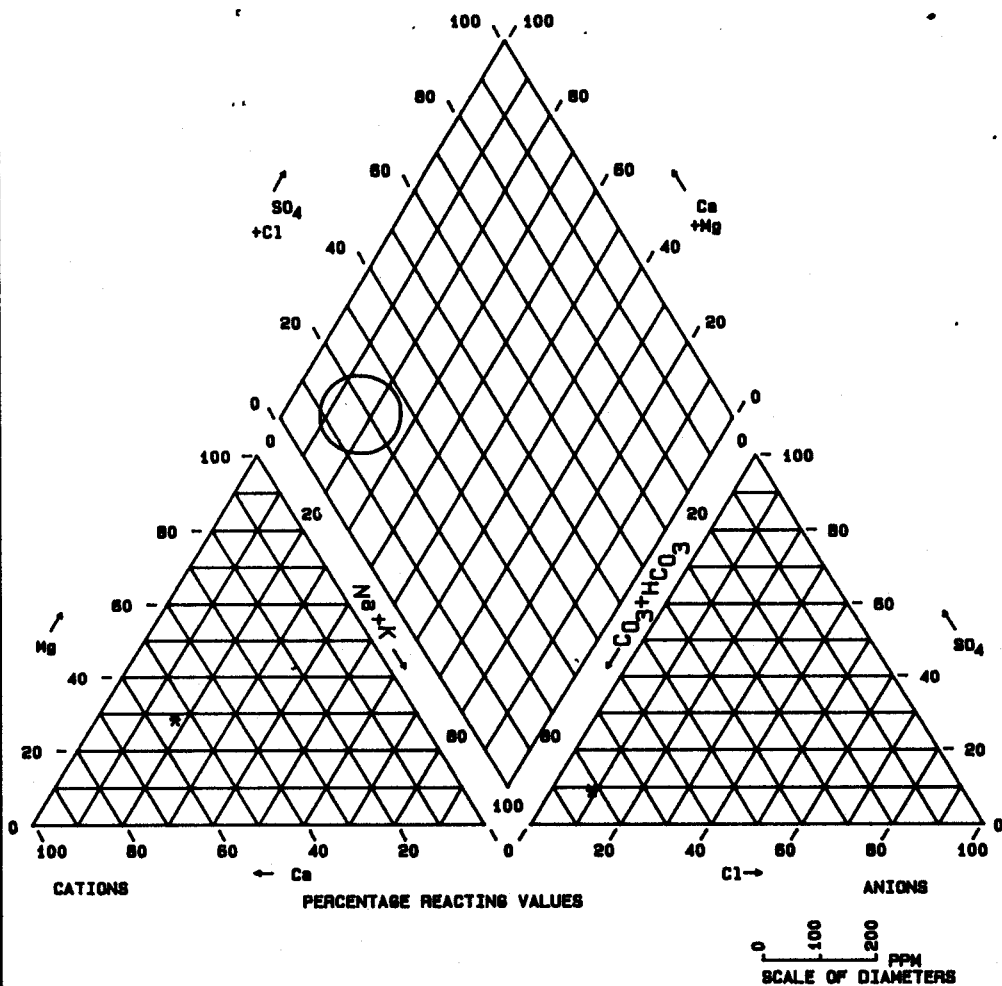
TOTAL DISSOLVED SOLIDS: 55

ERROR IN CATION/ANION BALANCE: 12.24 %

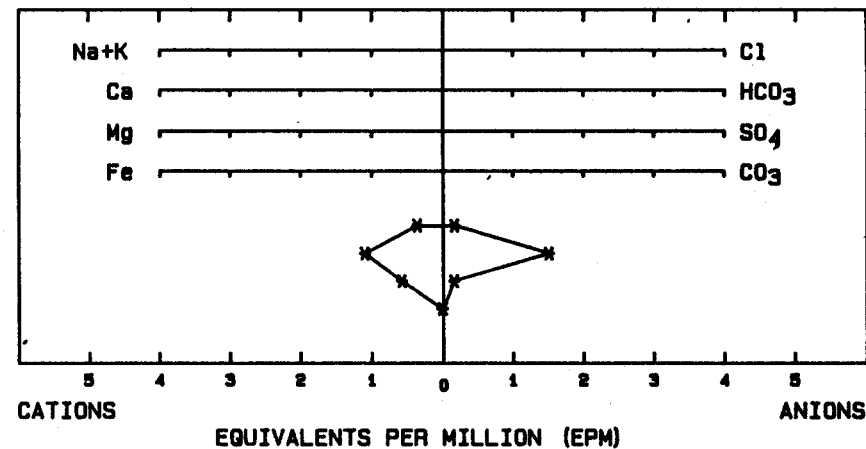
SODIUM ABSORPTION RATION (S.A.R.): 0.31

USAID/DAKAR/SENEGAL

PIPER TRILINEAR DIAGRAM

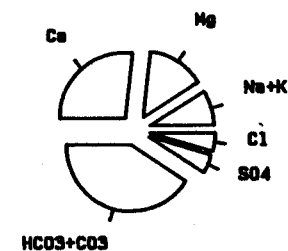


STIFF GRAPH



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: KAEDI 2B

SAMPLE: DA221 11/11/87

CHEMICAL GRAPHS

USAID/DAKAR/SENEGAL

FIGURE: DA221

CHEMISTRY ANALYSIS

PROJECT: OMVS/USAID
 LOCATION: KAEDI 2B

FILE: 625-0958

WELL NO.: DA221 11/11/87

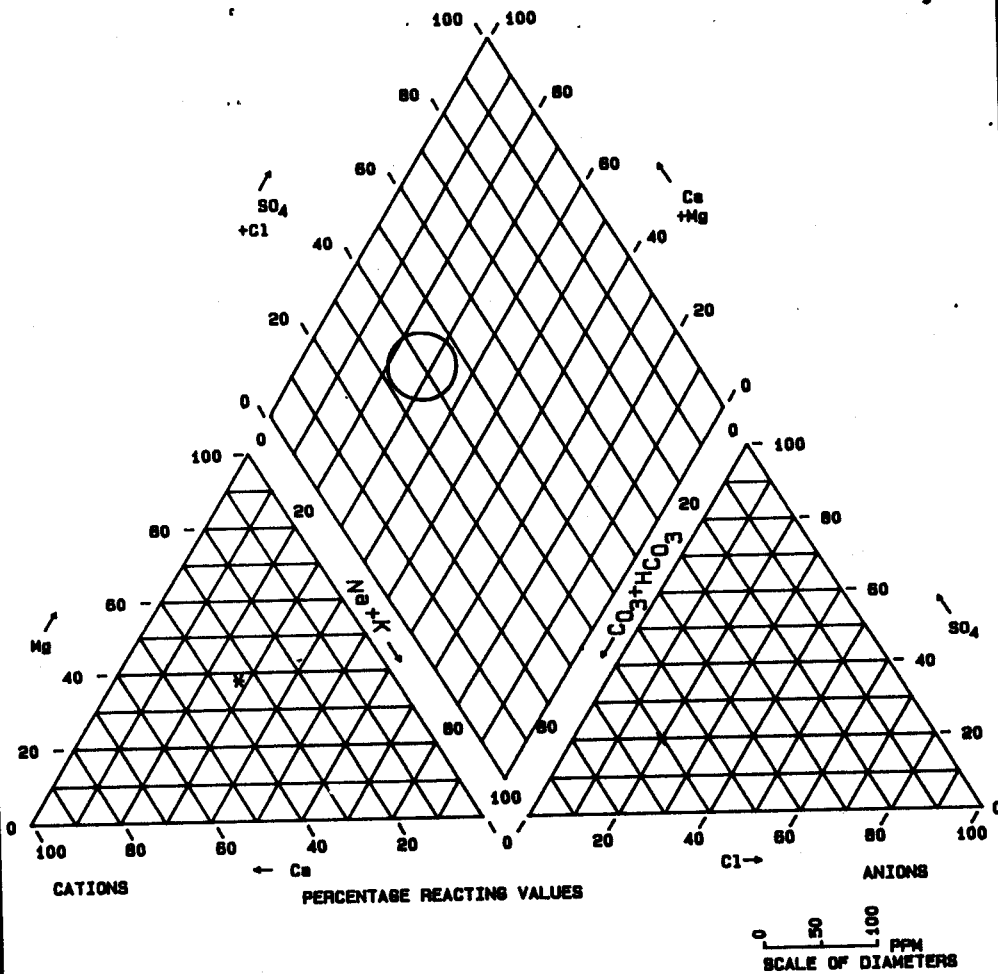
CATIONS	PPM	EPM	% EPM
Ca	22.00	1.10	54.10
Mg	7.00	0.58	28.37
Na+K	9.00	0.36	17.53

ANIONS	PPM	EPM	% EPM
HCO3+CO3	92.00	1.51	81.79
SO4	8.00	0.17	9.03
Cl	6.00	0.17	9.18

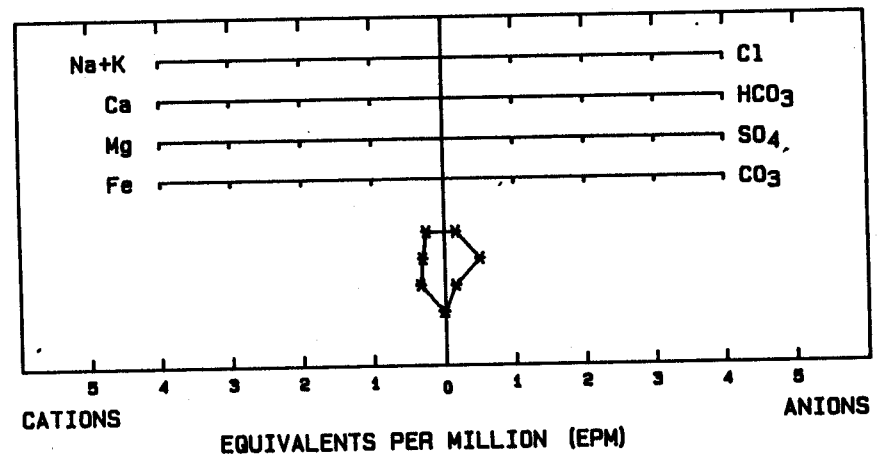
TOTAL DISSOLVED SOLIDS: 225
 ERROR IN CATION/ANION BALANCE: 4.91 %
 SODIUM ABSORPTION RATION (S.A.R.): 0.33

USAID/DAKAR/SENEGAL

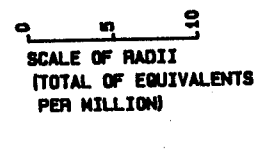
PIPER TRILINEAR DIAGRAM



STIFF GRAPH



PIE DIAGRAM



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

PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: KAEDI 28

SAMPLE: DA228 10/11/87

CHEMICAL GRAPHS

USAID/DAKAR/SENEGAL

FIGURE: DA228

CHEMISTRY ANALYSIS

PROJECT: OMVS/USAID
 LOCATION: KAEDI 2B

FILE: 625-0958

WELL NO.: DA228 10/11/87

CATIONS	PPM	EPM	% EPM
Ca	6.00	0.30	34.36
Mg	4.00	0.33	37.75
Na+K	6.00	0.24	27.89

ANIONS	PPM	EPM	% EPM
HCO3+CO3	31.00	0.51	60.21
SO4	8.00	0.17	19.74
Cl	6.00	0.17	20.05

TOTAL DISSOLVED SOLIDS: 130
 ERROR IN CATION/ANION BALANCE: 2.20 %
 SODIUM ABSORPTION RATION (S.A.R.): 0.39

USAID/DAKAR/SENEGAL