

11002

D LISTE DES OUVRAGES REALISES DANS LE DEGRE CARRE DE NAEDI

OUVRAGES :	1A :	1B :	1C :	2A :	2B :	TOTAL
PIEZO. GA :	7 :	12 :	:	:	:	19
PUITS GB :	28 :	12 :	4 :	4 :	:	48
PIEZO DA :	9 :	8 :	:	5 :	6 :	28
PUITS DB :	7 :	14 :	11 :	13 :	8 :	53
TOTAL :	44 :	46 :	15 :	22 :	14 :	148

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 1A

- * 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

09 KAEDI 1A

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

Path: C:\GWDATA\09-1A

34 tagged files using 24,576 bytes

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DA261	.WLT	256	.a..	6-14-89	3:19	pm
F58	.WLT	512	.a..	6-14-89	3:04	pm
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GA0302	.WLT	640	.a..	6-14-89	3:24	pm
GA0304	.WLC	1,152	.a..	2-09-89	10:44	am
GA0304	.WLT	256	.a..	6-14-89	3:26	pm
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GA0307	.WLT	256	.a..	6-14-89	3:27	pm
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GA0310	.WLT	384	.a..	6-14-89	3:37	pm
GA0312	.WLC	1,152	.a..	2-09-89	10:54	am
GA0312	.WLT	256	.a..	6-14-89	3:39	pm
ILLYF13	.WLT	640	.a..	6-14-89	2:52	pm

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:

XXXXXXXXXXXXXXXXXXXX

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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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	= DESCRIPTION LITHOSTRATIGRAPHIQUE
WELL CONSTRUCTION DETAILS	= COUPE TECHNIQUE DU PIEZOMETRE
WELL CAP	= COUVERCLE DE PROTECTION
CASING	= TUBE D'ACIER PEINT EN ROUGE
LINER	= TUBE PVC PLEIN
DRILLED HOLE	= TROU DE FORAGE
WELL SCREEN	= CREPINE EN PVC
PLUG	= BOUCHON DE FERMETURE A LA BASE DU PIEZOMETRE
GRAVEL PACK	= GRAVIER FILTRE
STATIC WATER LEVEL	= NIVEAU STATIQUE MESURE PAR RAPPORT AU SOL
SCALE	= ECHELLE
PROJECT	= PROJET
FILE	= FICHIER, CORRESPOND AU # DU PROJET
LOCATION	= LOCALISATION, CORRESPOND AU NOM DE LA CARTE 1/50.000
WELL NO	= NO DU PIEZOMETRE
DRILLER	= FOREUR, CORRESPONDANT AU NOM DE L'ENTREPRISE RESPONSABLE DES TRAVAUX DE FORAGE
ELEVATION (m)	= ELEVATION EXPRIMEE EN METRES PAR RAPPORT AU ZERO IGN
DATE DRILLED	= DATE D'EXECUTION DU FORAGE
TYPE OF RIG	= TECHNIQUE DE FORAGE
DEPTH	= PROFONDEUR
THICKNESS (m)	= EPAISSEUR EXPRIMEE EN METRES

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GROUNDWATER/CODIFICATION DES DESCRIPTIONS STRATIGRAPHIQUES

CODES	DESCRIPTIONS LITHOLOGIQUES	
	ABREGEES ¹	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

¹ La description abrégée est limitée à un maximum de 11 caractères pour des contraintes de représentations graphiques.

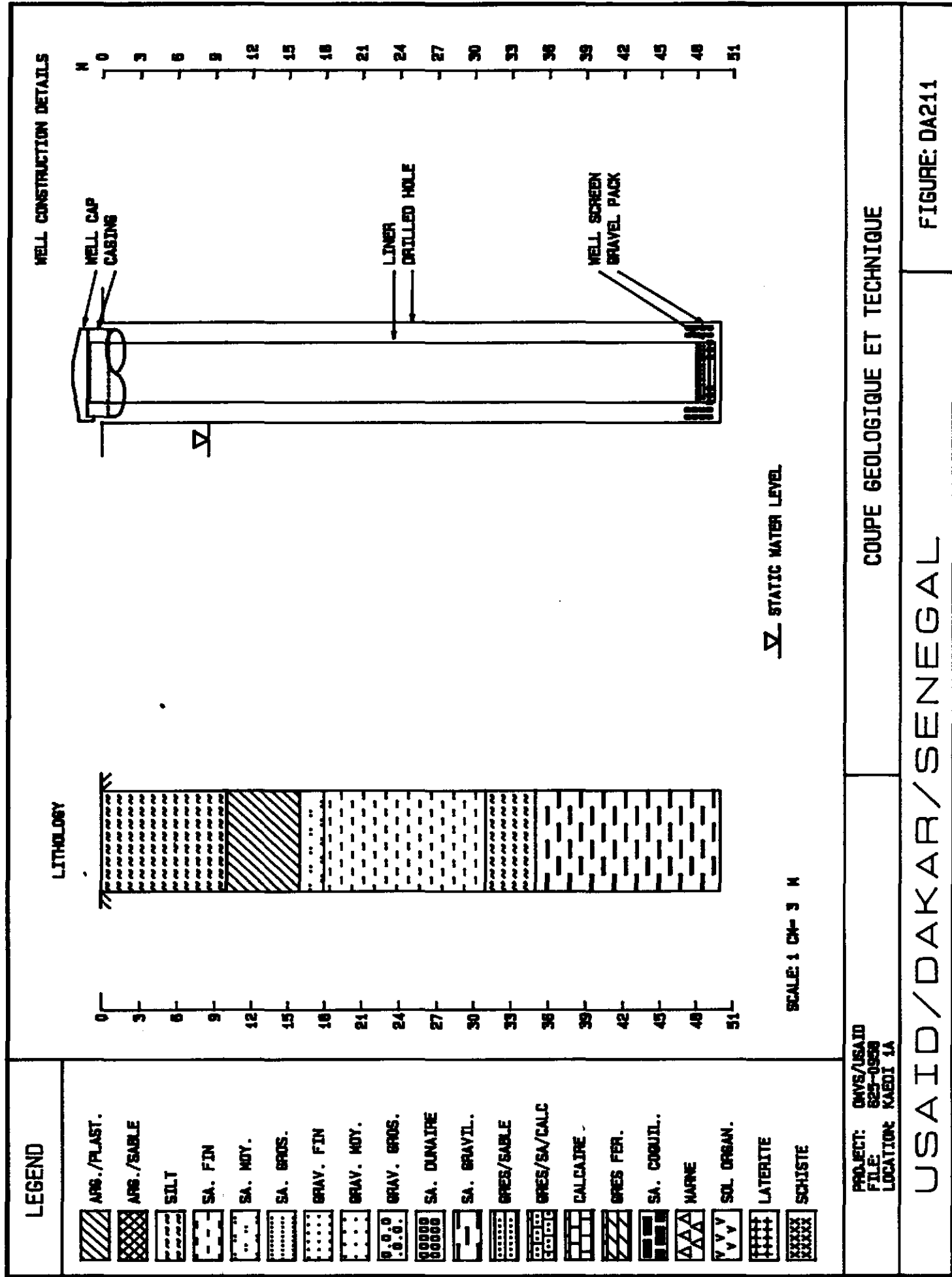
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625-0958

GROUNDWATER/CODIFICATION GEOLOGIQUE*

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/ Inchirien indifférencié.
M	Secondaire/ Maestrichtien.
NK	Quaternaire/ Nouakchottien.
OG	Quaternaire/ Ogolien indifférencié.
QAM	Quaternaire moyen et ancien.
QT	Quaternaire indifférencié.

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

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PROJECT: OMVS/USAID
FILE: 825-0958
LOCATION: KADEI 1A

COUPE GEOLOGIQUE ET TECHNIQUE

USAID/DAKAR/SENEGAL

FIGURE: DA211

FIGURE DA211

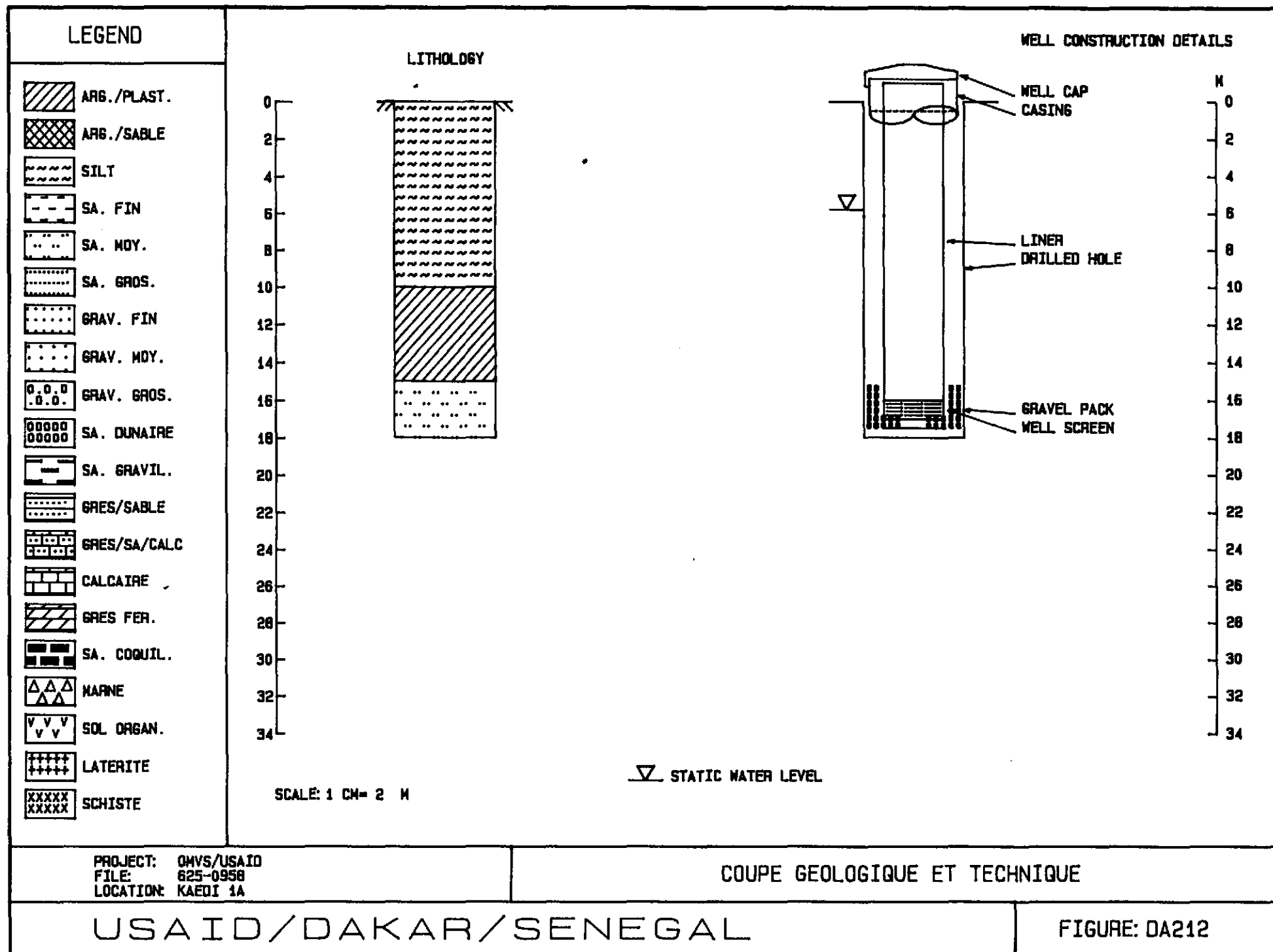
WELL LITHOLOGY

PROJECT: OMVS/USAID
 LOCATION: KAEDI 1A
 WELL NO.: DA211
 DRILLER: SAFOR

FILE NO.: 625-0958
 ELEVATION (M): 11.669
 DATE DRILLED: 29/10/87
 TYPE OF RIG: ROTARY

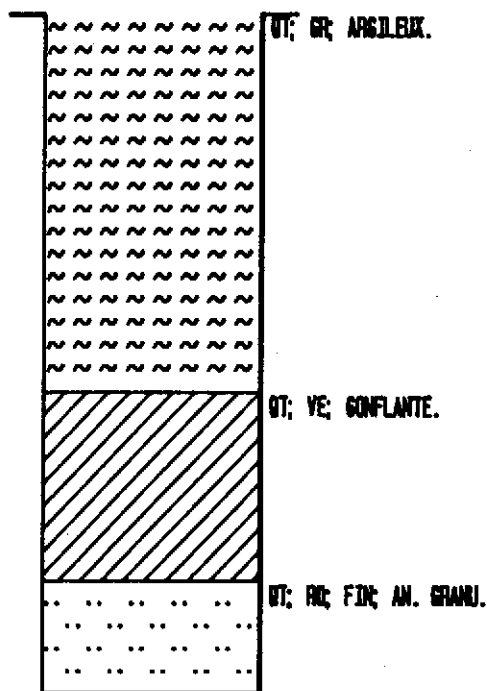
DEPTH (M)		ELEVATION (M)		THICKNESS (M)	LITHOLOGY
FROM	TO	FROM	TO		
0.00	10.00	11.67	1.67	10.00	SILT, QT; GR; ARGILEUX.
10.00	16.00	1.67	-4.33	6.00	ARG./PLAST., QT; VE; GON
16.00	18.00	-4.33	-6.33	2.00	SA. MOY., QT; VE; SILTEU
18.00	31.00	-6.33	-19.33	13.00	SA. FIN, QT; RD.
31.00	35.00	-19.33	-23.33	4.00	SILT, QT; GR.
35.00	50.00	-23.33	-38.33	15.00	SA. GRAVIL., QT; RD; MOY

USAID/DAKAR/SENEGAL



	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	SCAL

DA212



PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: KAEDI 1A

LITHOLOGY

USAID/DAKAR/SENEGAL

FIGURE DA212

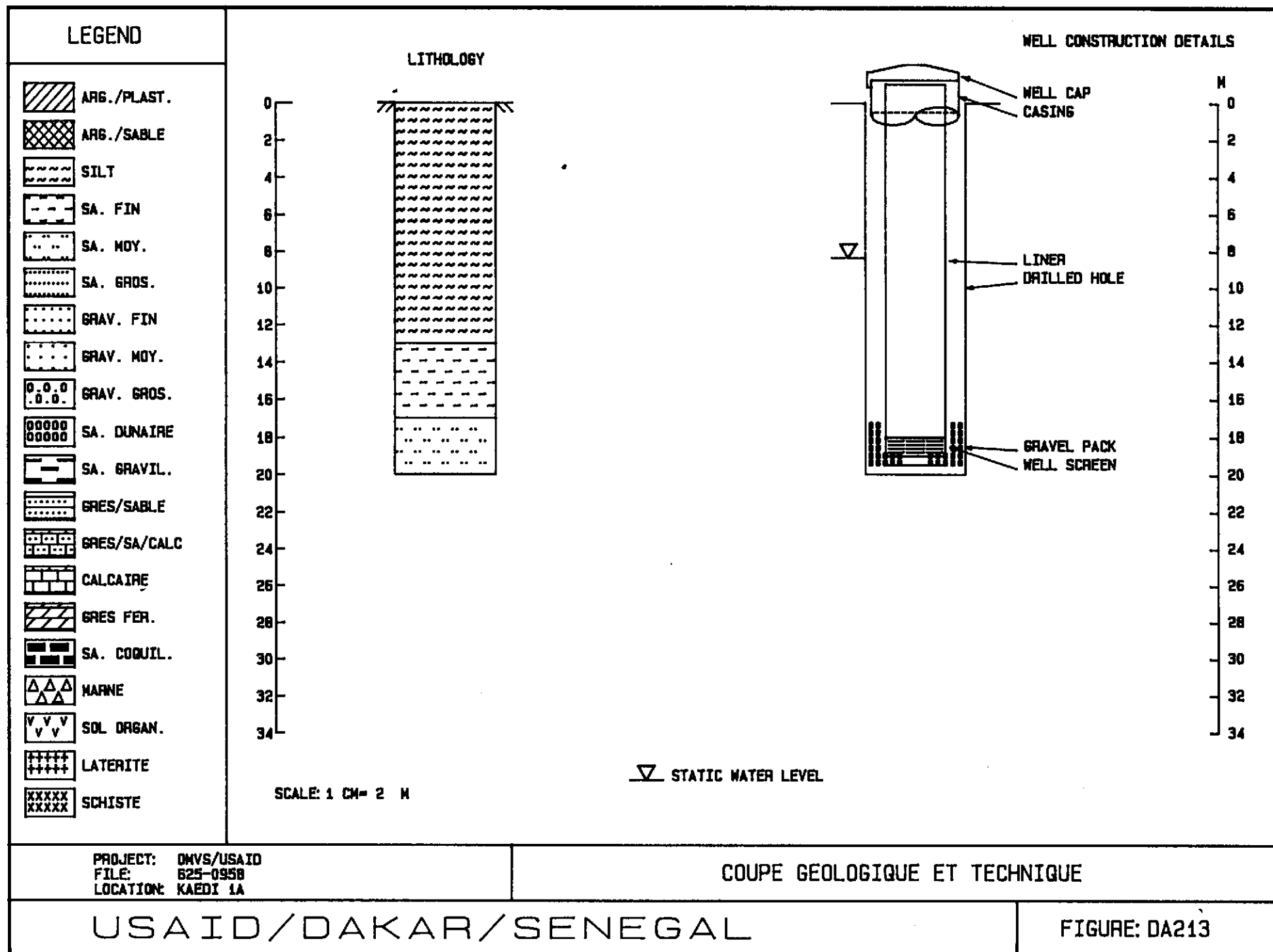
WELL LITHOLOGY

PROJECT: OMVS/USAID
LOCATION: KAEDI 1A
WELL NO.: DA212
DRILLER: SAFOR

FILE NO.: 625-0958
ELEVATION (M): 11.718
DATE DRILLED: 29/10/87
TYPE OF RIG: ROTARY

DEPTH (M)		ELEVATION (M)		THICKNESS (M)	LITHOLOGY
FROM	TO	FROM	TO		
0.00	10.00	11.72	1.72	10.00	SILT, QT; GR; ARGILEUX.
10.00	15.00	1.72	-3.28	5.00	ARG./PLAST., QT; VE; GOM
15.00	18.00	-3.28	-6.28	3.00	SA. MOY., QT; RO; FIN; A

USAID/DAKAR/SENEGAL



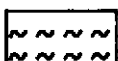
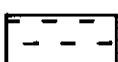
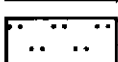
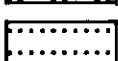
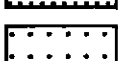
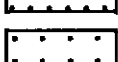
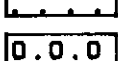
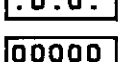
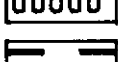
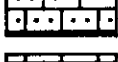
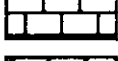
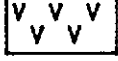
PROJECT: OMVS/USAID
 FILE: 625-0958
 LOCATION: KAEDI 1A

COUPE GEOLOGIQUE ET TECHNIQUE

USAID/DAKAR/SENEGAL

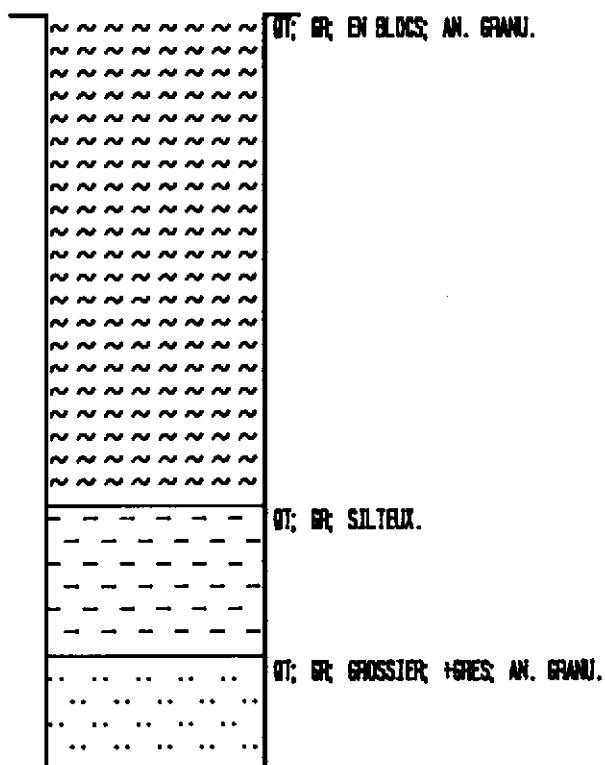
FIGURE: DA213

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

DA213



PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: KAEDI 1A

LITHOLOGY

USAID/DAKAR/SENEGAL

FIGURE DA213

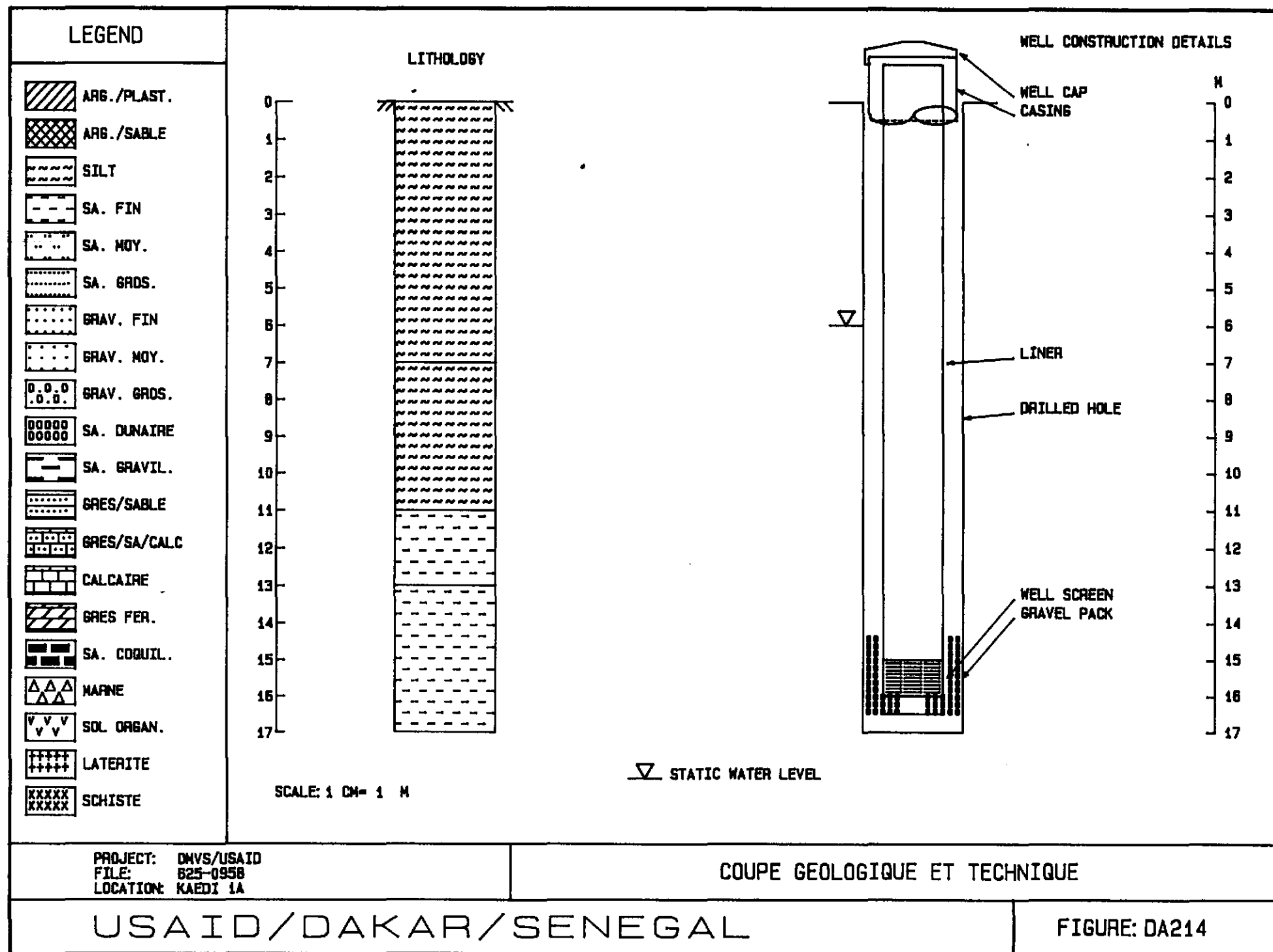
WELL LITHOLOGY

PROJECT:OMVS/USAID
LOCATION:KAEDI 1A
WELL NO.:DA213
DRILLER:SAFOR

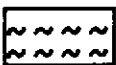
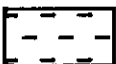
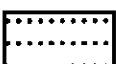
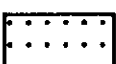
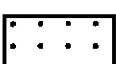
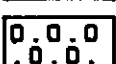
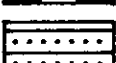
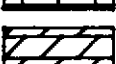
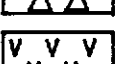
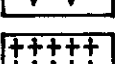
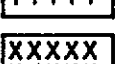
FILE NO.:625-0958
ELEVATION (M): 11.971
DATE DRILLED:05/11/87
TYPE OF RIG:ROTARY

DEPTH (M)		ELEVATION (M)		THICKNESS (M)	LITHOLOGY
FROM	TO	FROM	TO		
0.00	13.00	11.97	-1.03	13.00	SILT,QT; GR; EN BLOCS;
13.00	17.00	-1.03	-5.03	4.00	SA. FIN,QT; GR; SILTEUX
17.00	20.00	-5.03	-8.03	3.00	SA. MOY.,QT; GR; GROSSI

USAID/DAKAR/SENEGAL

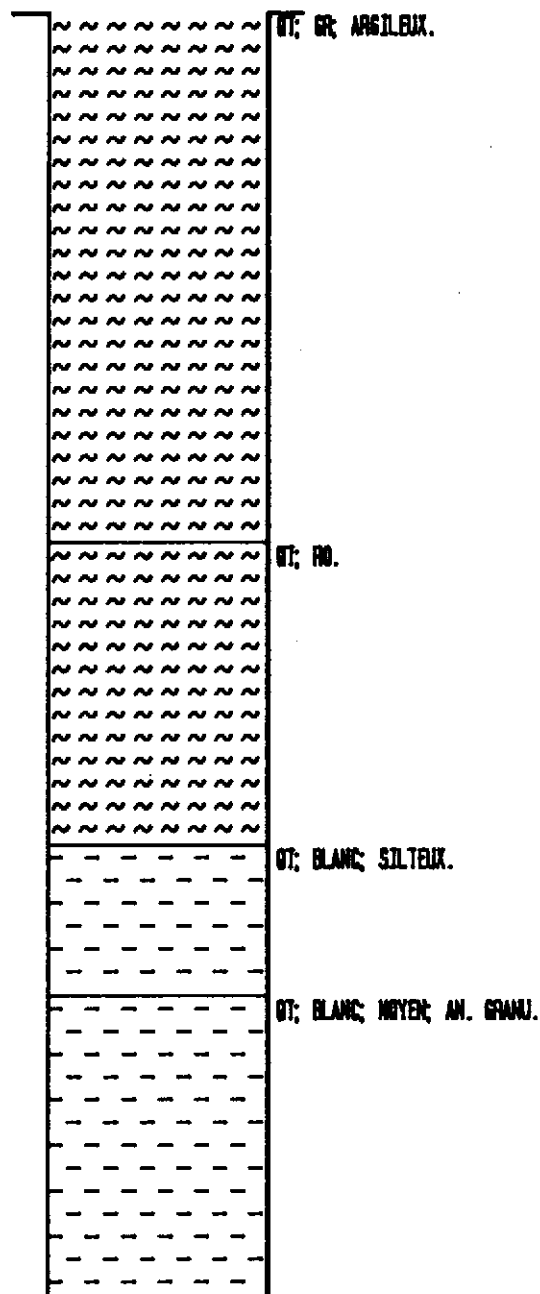


LEGEND

	ARG./PLAST.	0
	ARG./SABLE	1
	SILT	2
	SA. FIN	3
	SA. MOY.	4
	SA. GRDS.	5
	GRAV. FIN	6
	GRAV. MOY.	7
	GRAV. GRDS.	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

DA214



PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: KAEDI 1A

LITHOLOGY

USAID/DAKAR/SENEGAL

FIGURE DA214

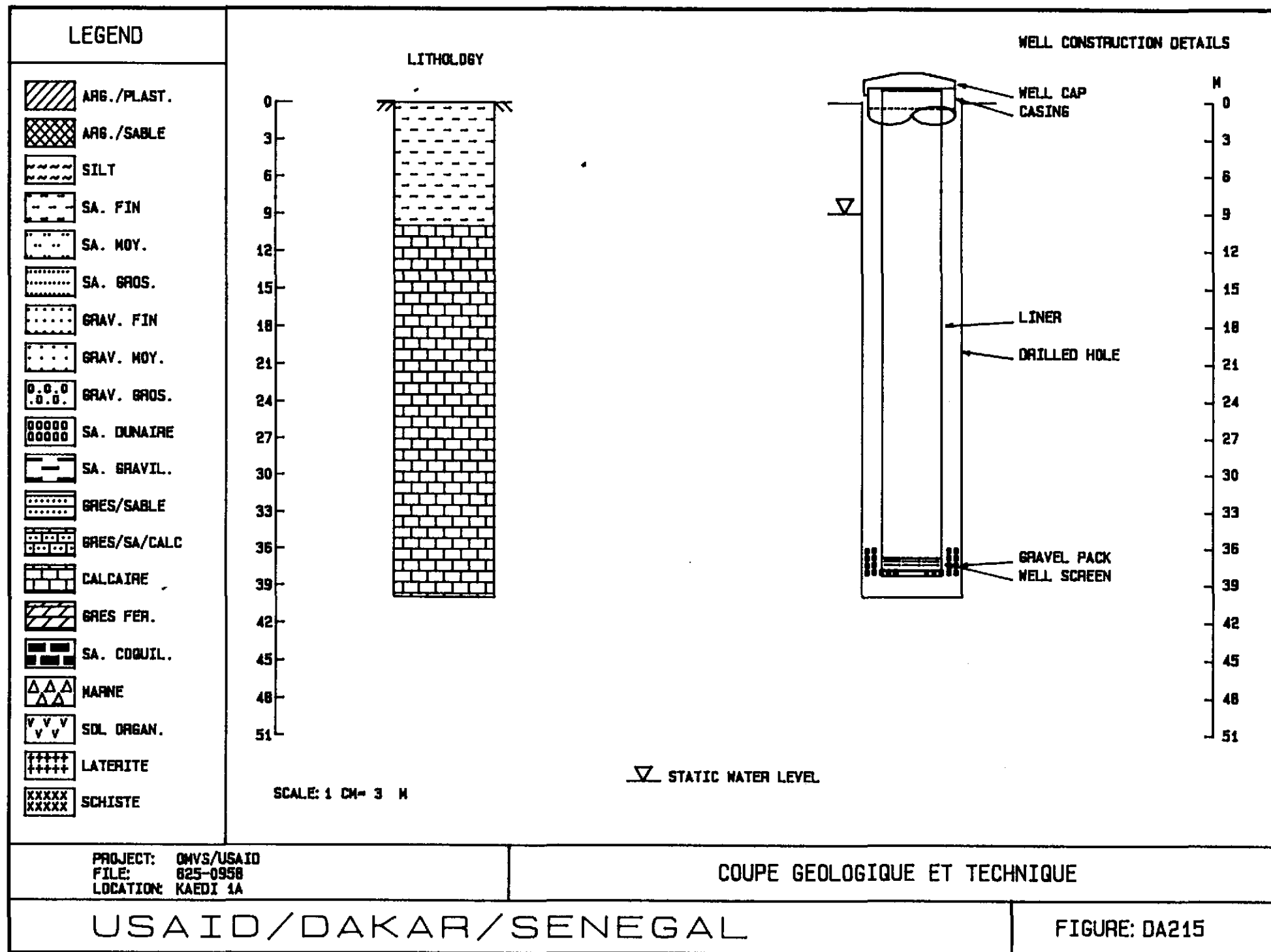
WELL LITHOLOGY

PROJECT:OMVS/USAID
LOCATION:KAEDI 1A
WELL NO.:DA214
DRILLER:SAFOR

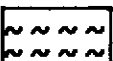
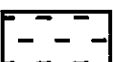
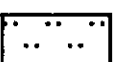
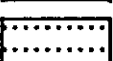
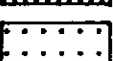
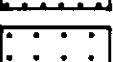
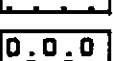
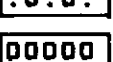
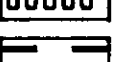
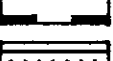
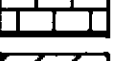
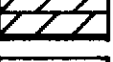
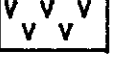
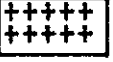
FILE NO.:625-0958
ELEVATION (M): 11.867
DATE DRILLED:30/10/87
TYPE OF RIG:ROTARY

DEPTH (M)		ELEVATION (M)		THICKNESS (M)	LITHOLOGY
FROM	TO	FROM	TO		
0.00	7.00	11.87	4.87	7.00	SILT,QT; GR; ARGILEUX.
7.00	11.00	4.87	0.87	4.00	SILT,QT; RD.
11.00	13.00	0.87	-1.13	2.00	SA. FIN,QT; BLANC; SILT
13.00	17.00	-1.13	-5.13	4.00	SA. FIN,QT; BLANC; MOYE

USAID/DAKAR/SENEGAL

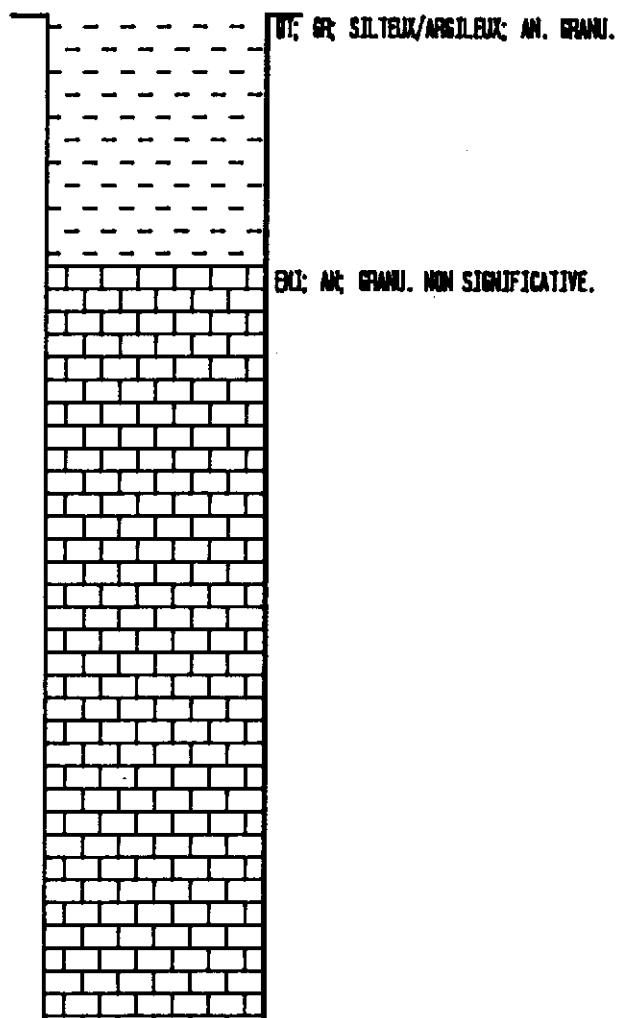


LEGEND

	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

DA215



PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: KAEDI 1A

LITHOLOGY

USAID/DAKAR/SENEGAL

FIGURE DA215

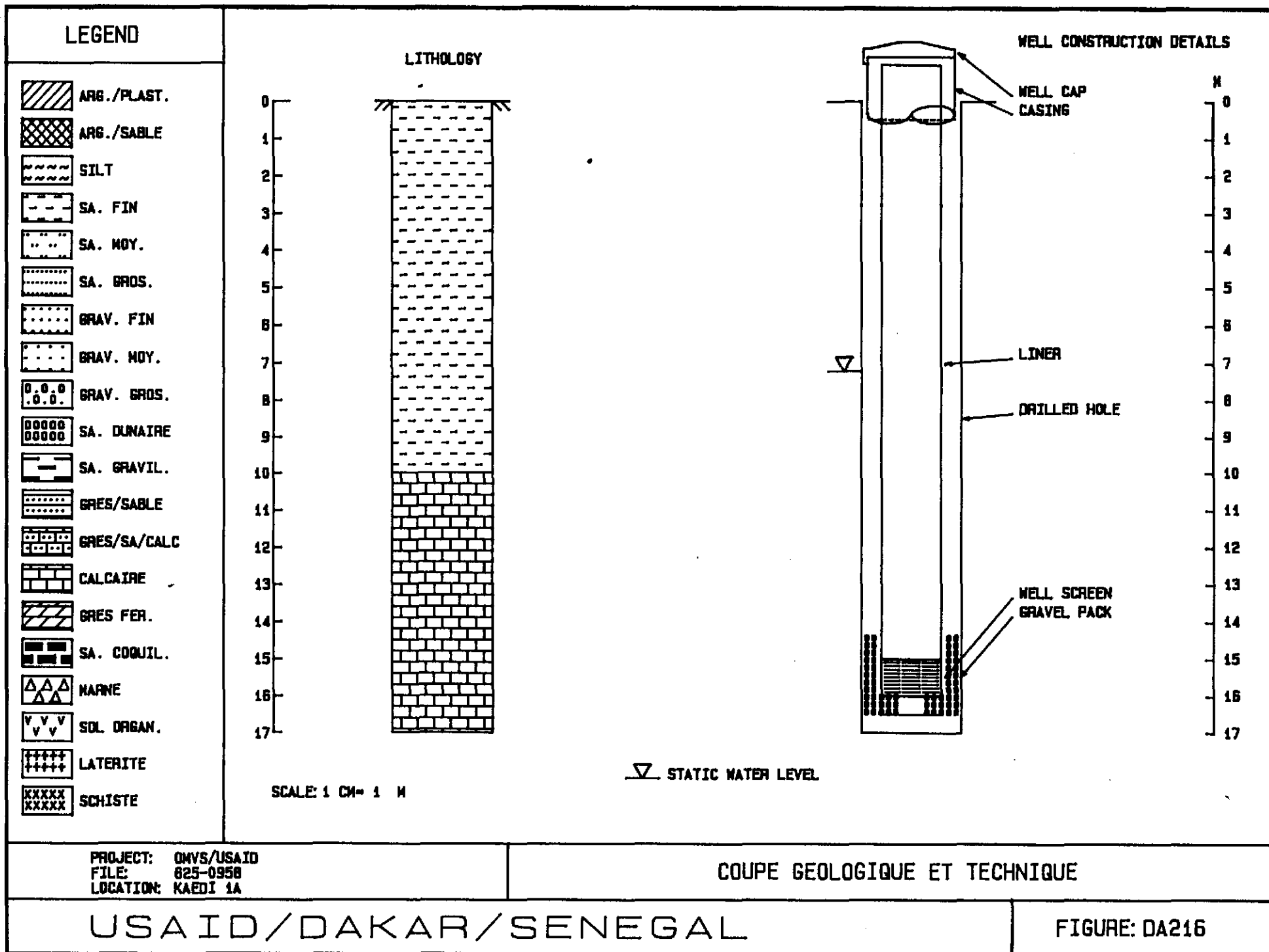
WELL LITHOLOGY

PROJECT:DMVS/USAID
LOCATION:KAEDI 1A
WELL NO.:DA215
DRILLER:SAFOR

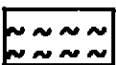
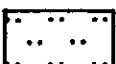
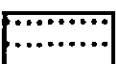
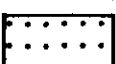
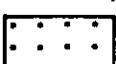
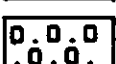
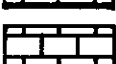
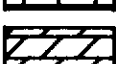
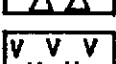
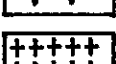
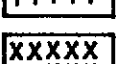
FILE NO.:625-0958
ELEVATION (M): 12.749
DATE DRILLED:28/10/87
TYPE OF RIG:ROTARY

DEPTH (M)		ELEVATION (M)		THICKNESS (M)	LITHOLOGY
FROM	TO	FROM	TO		
0.00	10.00	12.75	2.75	10.00	SA. FIN,GT; GR; SILTEUX
10.00	40.00	2.75	-27.25	30.00	CALCAIRE,EMI; AN; GRANU

USAID/DAKAR/SENEGAL

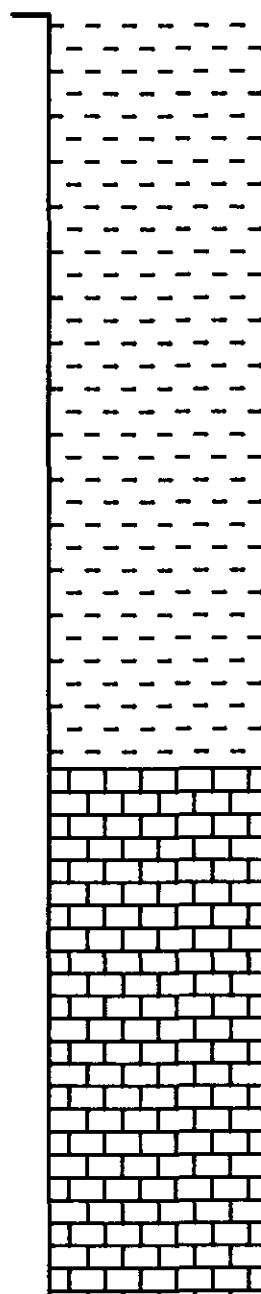


LEGEND

	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

DA216



DE GR. SILTEUX/ARGILEUX; AN. GRANU. D

ENL; AN. GRANU NON SIGNIFICATIVE.

PROJECT: DMVS/USAID
FILE: 625-0958
LOCATION: KAEDI 1A

LITHOLOGY

USAID/DAKAR/SENEGAL

FIGURE DA216

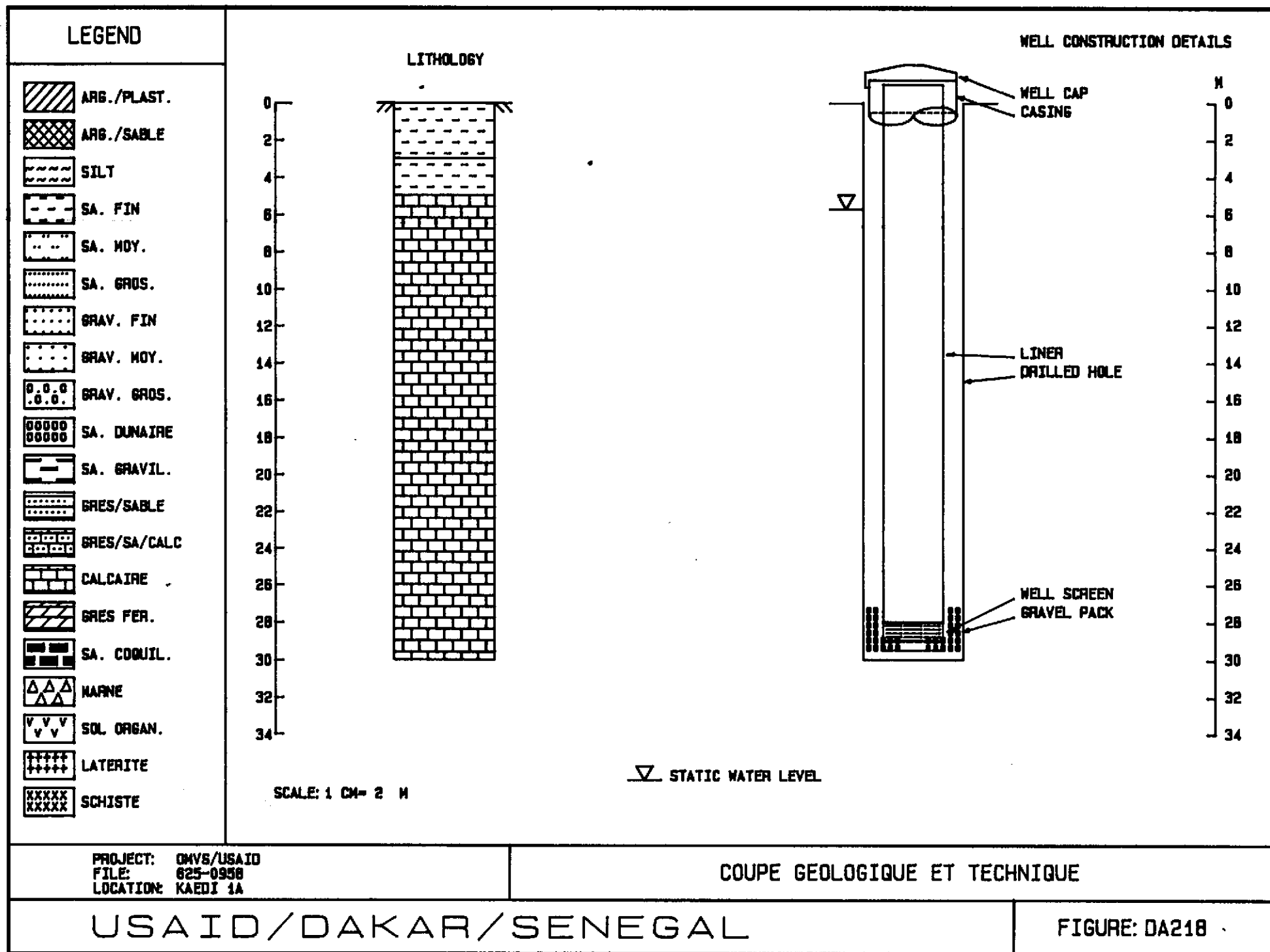
WELL LITHOLOGY

PROJECT:OMVS/USAID
LOCATION:KAEDI 1A
WELL NO.:DA216
DRILLER:SAFOR

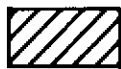
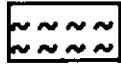
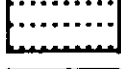
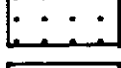
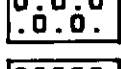
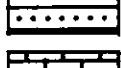
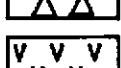
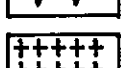
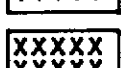
FILE NO.:625-0958
ELEVATION (M): 12.825
DATE DRILLED:28/10/87
TYPE OF RIG:ROTARY

DEPTH (M)		ELEVATION (M)		THICKNESS (M)	LITHOLOGY
FROM	TO	FROM	TO		
0.00	10.00	12.83	2.82	10.00	SA. FIN,QT; GR; SILTEUX
10.00	17.00	2.82	-4.18	7.00	CALCAIRE,EMI; AN. GRANU

USAID/DAKAR/SENEGAL

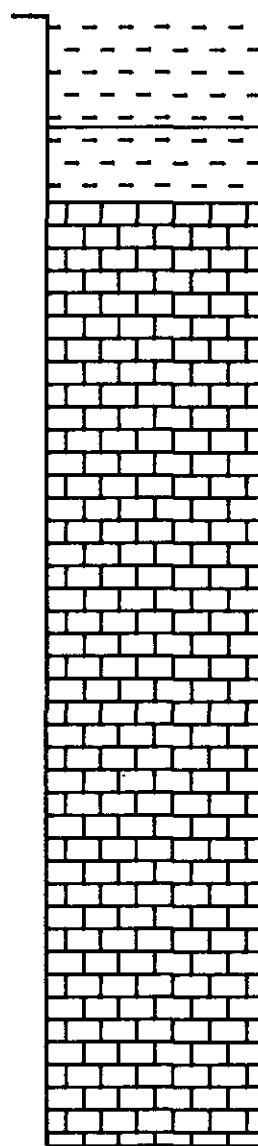


LEGEND

	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

DA218



DT: BR. SILTEUX/ARGILEUX.
DT: ARGILEUX.
BK: AM. GRAU NON SIGNIFICATIVE.

PROJECT: DMVS/USAID
FILE: 625-0958
LOCATION: KAEDI 1A

LITHOLOGY

USAID/DAKAR/SENEGAL

FIGURE DA218

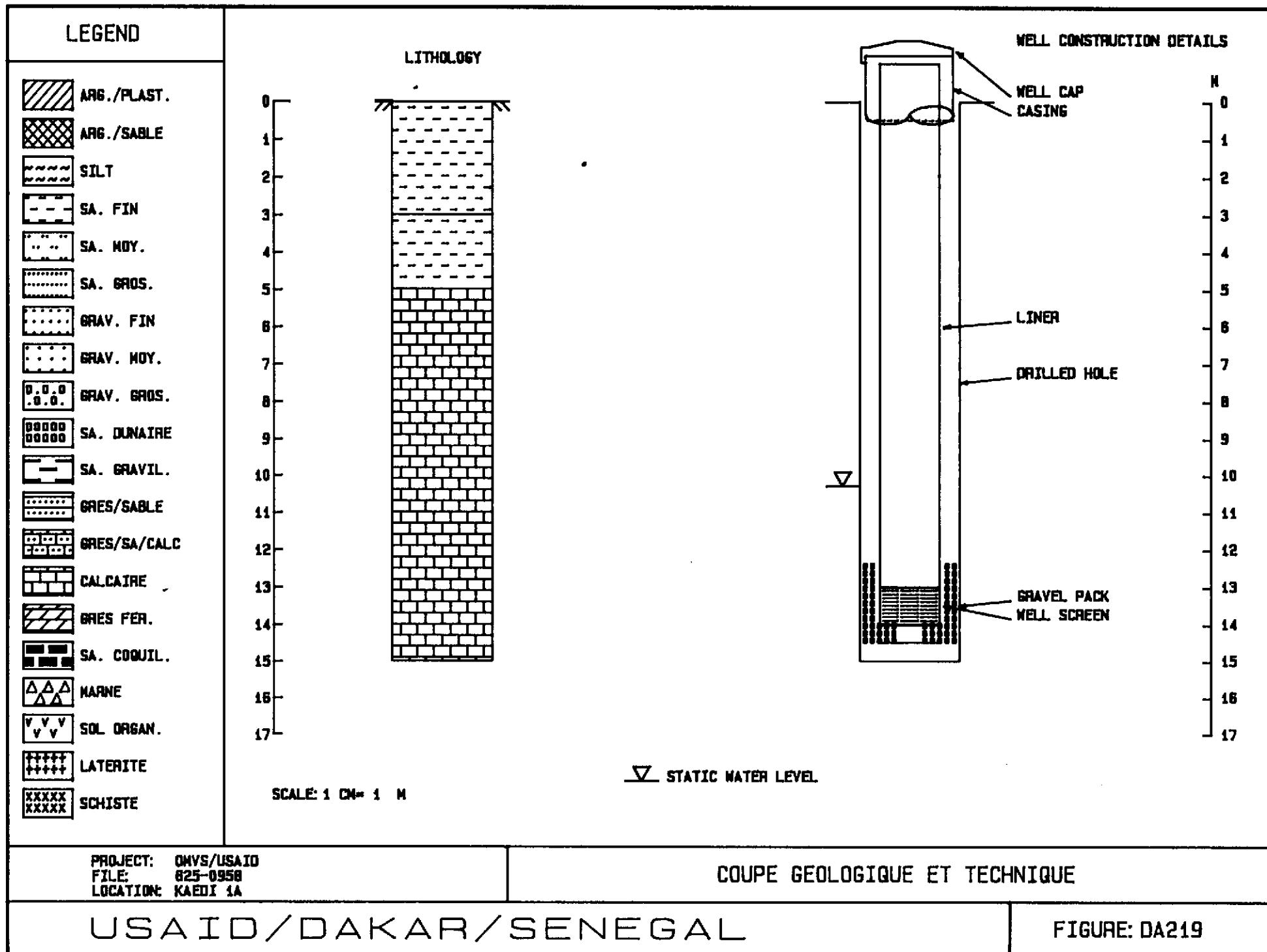
WELL LITHOLOGY

PROJECT:OMVS/USAID
LOCATION:KAEDI 1A
WELL NO.:DA218
DRILLER:SAFOR

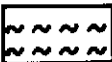
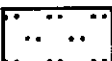
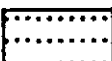
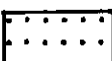
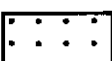
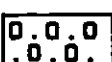
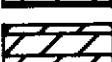
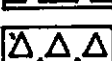
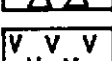
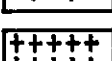
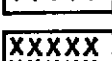
FILE NO.:625-0958
ELEVATION (M): 11.37
DATE DRILLED:26/10/87
TYPE OF RIG:ROTARY

DEPTH (M)		ELEVATION (M)		THICKNESS (M)	LITHOLOGY
FROM	TO	FROM	TO		
0.00	3.00	11.37	8.37	3.00	SA. FIN,GT; GR; SILTEUX
3.00	5.00	8.37	6.37	2.00	SA. FIN,GT; ARGILEUX.
5.00	30.00	6.37	-18.63	25.00	CALCAIRE,EMI; AN. GRANU

USAID/DAKAR/SENEGAL

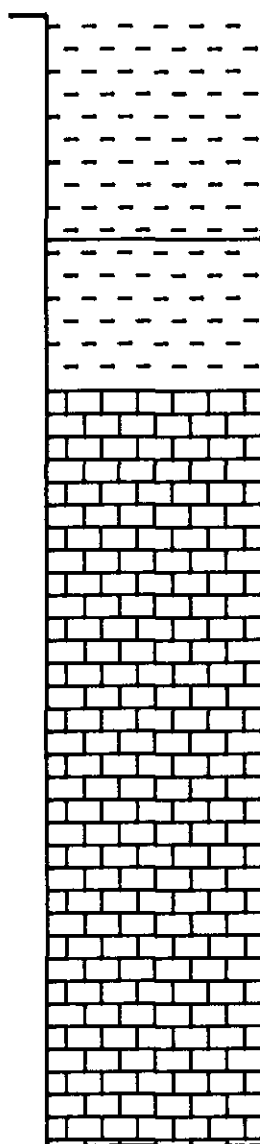


LEGEND

	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

DA219



BT: GR. SILTEUX/ARGILEUX.

BT: ARGILEUX.

EM: AN. GRANU NON SIGNIFICATIVE.

PROJECT: DMVS/USAID
FILE: 625-0958
LOCATION: KAEDI 1A

LITHOLOGY

USAID/DAKAR/SENEGAL

FIGURE DA219

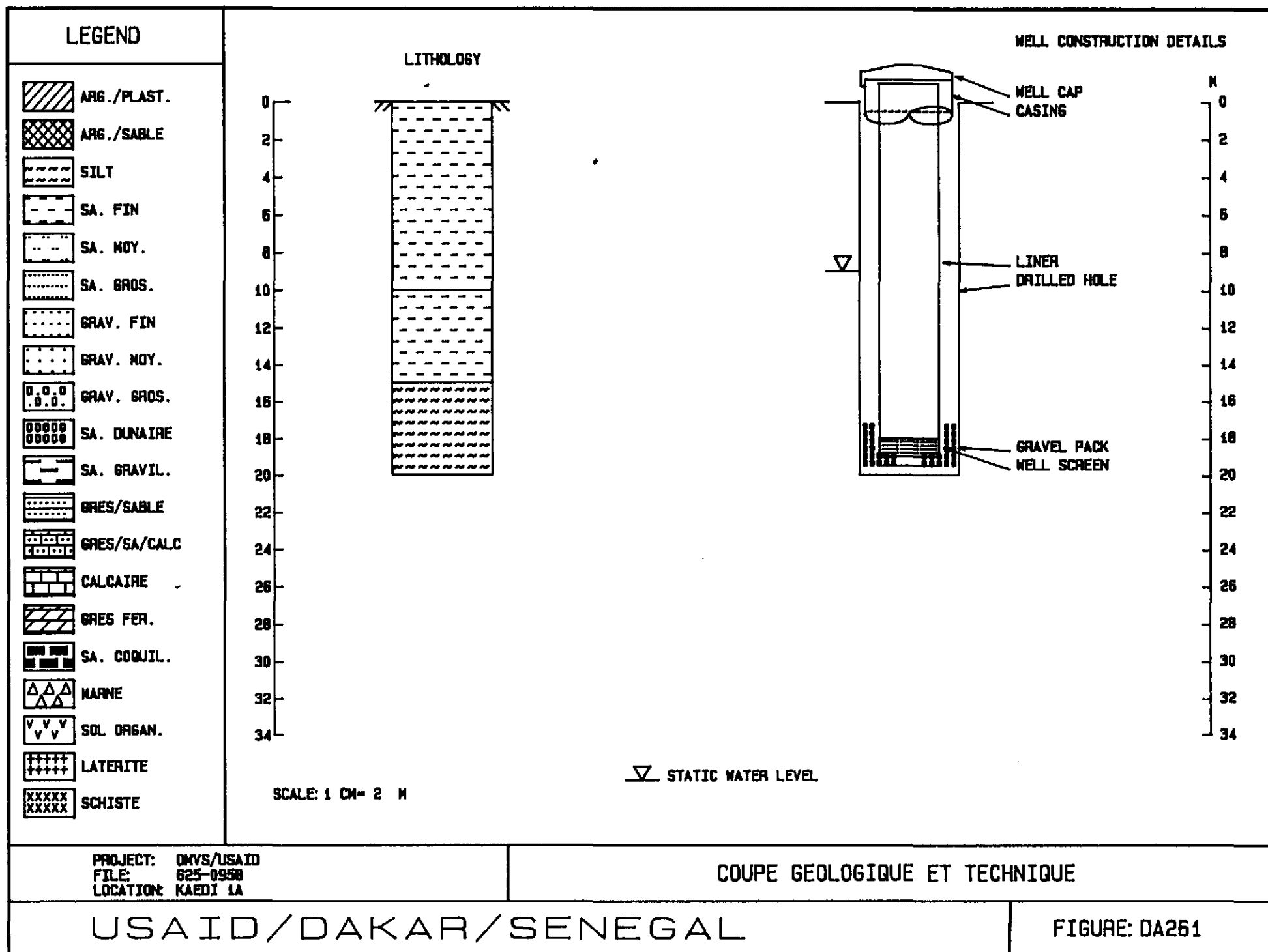
WELL LITHOLOGY

PROJECT:OMVS/USAID
LOCATION:KAEDI 1A
WELL NO.:DA219
DRILLER:SAFOR

FILE NO.:625-0958
ELEVATION (M): 11.266
DATE DRILLED:27/10/87
TYPE OF RIG:ROTARY

DEPTH (M)		ELEVATION (M)		THICKNESS (M)	LITHOLOGY
FROM	TO	FROM	TO		
0.00	3.00	11.27	8.27	3.00	SA. FIN,QT; GR; SILTEUX
3.00	5.00	8.27	6.27	2.00	SA. FIN,QT; ARGILEUX.
5.00	15.00	6.27	-3.73	10.00	CALCAIRE,EMI; AN. GRANU

USAID/DAKAR/SENEGAL



WELL LITHOLOGY

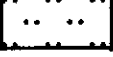
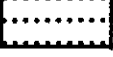
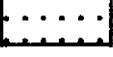
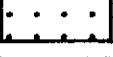
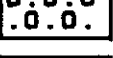
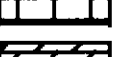
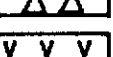
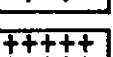
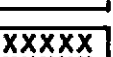
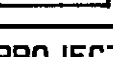
PROJECT: OMVS/USAID
 LOCATION: KAEDI 1A
 WELL NO.: DA261
 DRILLER: SAFOR

FILE NO.: 625-0958
 ELEVATION (M): 12.004
 DATE DRILLED: 31/10/87
 TYPE OF RIG: ROTARY

DEPTH (M)		ELEVATION (M)		THICKNESS (M)	LITHOLOGY
FROM	TO	FROM	TO		
0.00	10.00	12.00	2.00	10.00	SA. FIN,QT; GR; SILTEUX
10.00	15.00	2.00	-3.00	5.00	SA. FIN,QT; JA; SILTEUX
15.00	20.00	-3.00	-8.00	5.00	SILT,QT; GR; SABLEUX; A

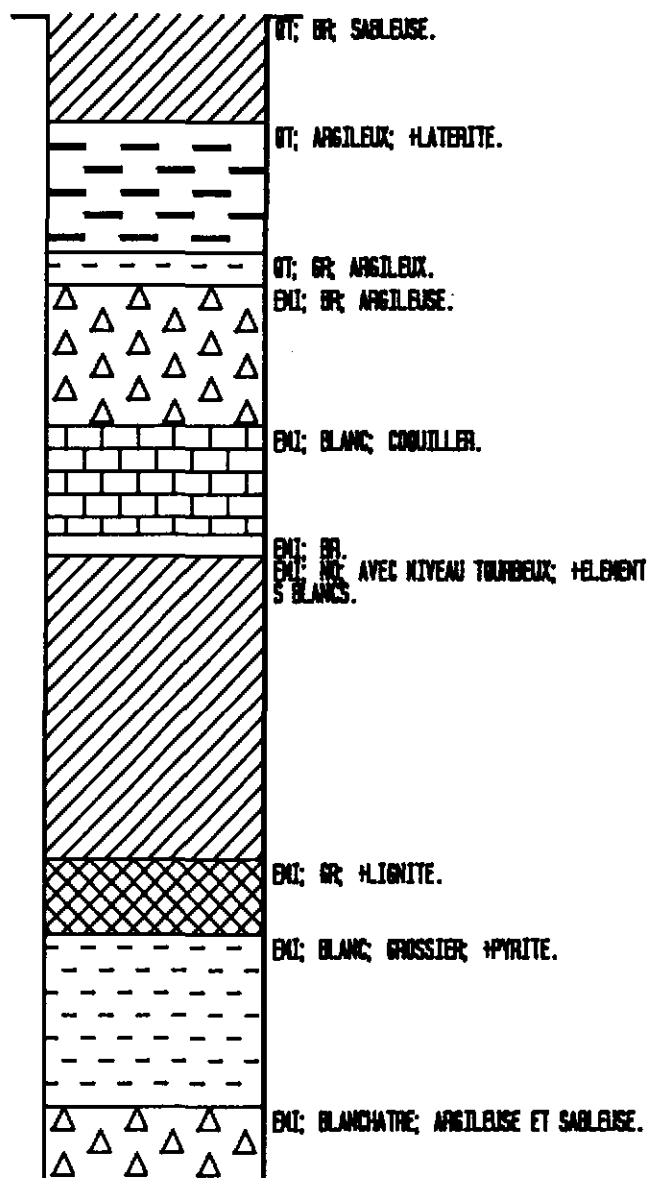
USAID/DAKAR/SENEGAL

LEGEND

	ARG./PLAST.	0
	ARG./SABLE	7
	SILT	14
	SA. FIN	21
	SA. MOY.	28
	SA. GROS.	35
	GRAV. FIN	42
	GRAV. MOY.	49
	GRAV. GROS.	56
	SA. DUNAIRE	63
	SA. GRAVIL.	70
	GRES/SABLE	77
	GRES/SA/CALC	84
	CALCAIRE	91
	GRES FER.	98
	SA. COQUIL.	105
	MARNE	112
	SOL ORGAN.	119
	LATERITE	
	SCHISTE	

SCALE IN M

F58



PROJECT: OMVS/USAID
 FILE: 625-0958
 LOCATION: KAEDI 1A

LITHOLOGY

USAID/DAKAR/SENEGAL

FIGURE SALDE

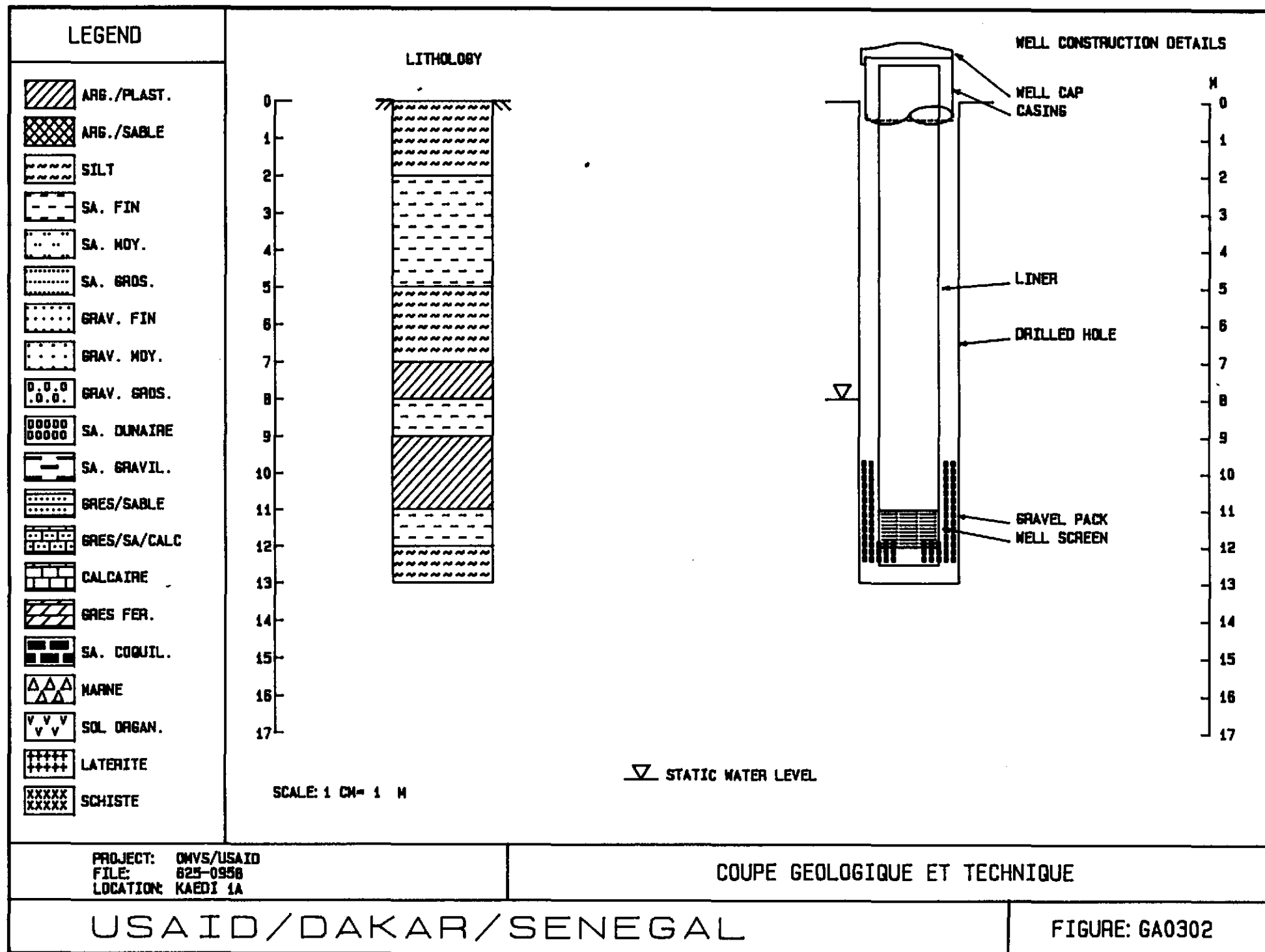
WELL LITHOLOGY

PROJECT: OMVS/USAID
LOCATION: KAEDI 1A
WELL NO.: F58
DRILLER: SASSIF

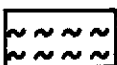
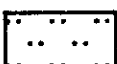
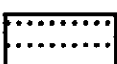
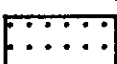
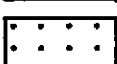
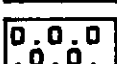
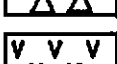
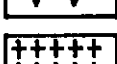
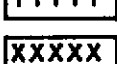
FILE NO.: 625-0958
ELEVATION (M): 12.712
DATE DRILLED:
TYPE OF RIG: BATTAGE

DEPTH (M)		ELEVATION (M)		THICKNESS (M)	LITHOLOGY
FROM	TO	FROM	TO		
0.00	10.00	12.71	2.71	10.00	ARG./PLAST.,QT; BR; SAB
10.00	22.00	2.71	-9.29	12.00	SA. GRAVIL.,QT; ARGILEU
22.00	25.00	-9.29	-12.29	3.00	SA. FIN,QT; GR; ARGILEU
25.00	38.00	-12.29	-25.29	13.00	MARNE,EMI; BR; ARGILEUS
38.00	48.00	-25.29	-35.29	10.00	CALCAIRE,EMI; BLANC; CO
48.00	50.00	-35.29	-37.29	2.00	MARNE,EMI; BR.
50.00	78.00	-37.29	-65.29	28.00	ARG./PLAST.,EMI; NO; AV
78.00	85.00	-65.29	-72.29	7.00	ARG./SABLE,EMI; GR; +LI
85.00	101.00	-72.29	-88.29	16.00	SA. FIN,EMI; BLANC; GRO
101.00	108.00	-88.29	-95.29	7.00	MARNE,EMI; BLANCHATRE;

USAID/DAKAR/SENEGAL

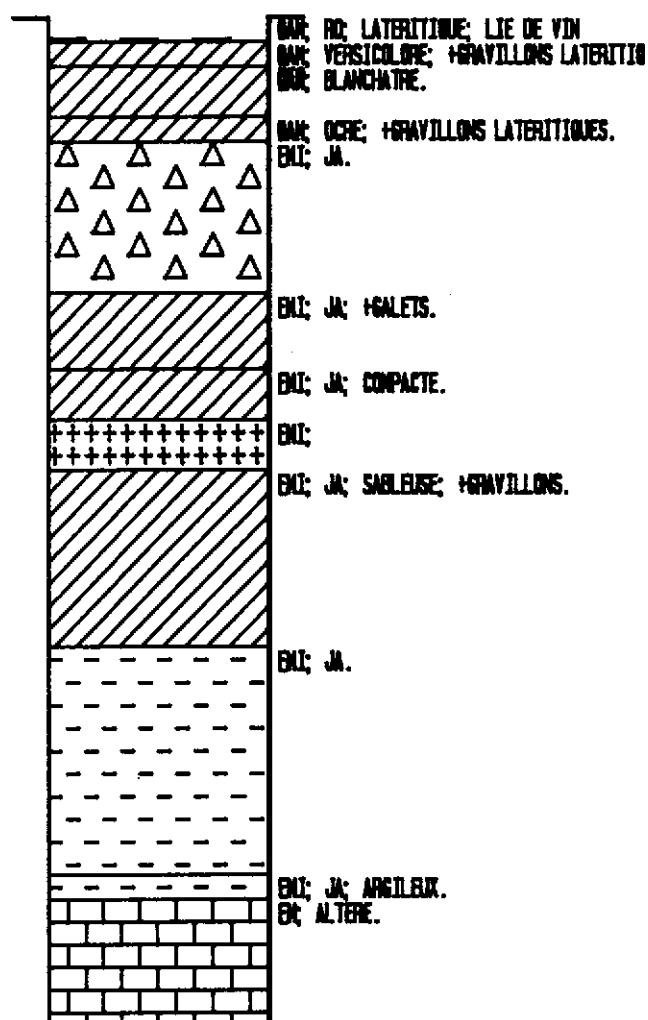


LEGEND

	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

GA0302



PROJECT: OMVS/USAID
 FILE: 625-0958
 LOCATION: KAEDI 1A

LITHOLOGY

USAID/DAKAR/SENEGAL

FIGURE GA0302

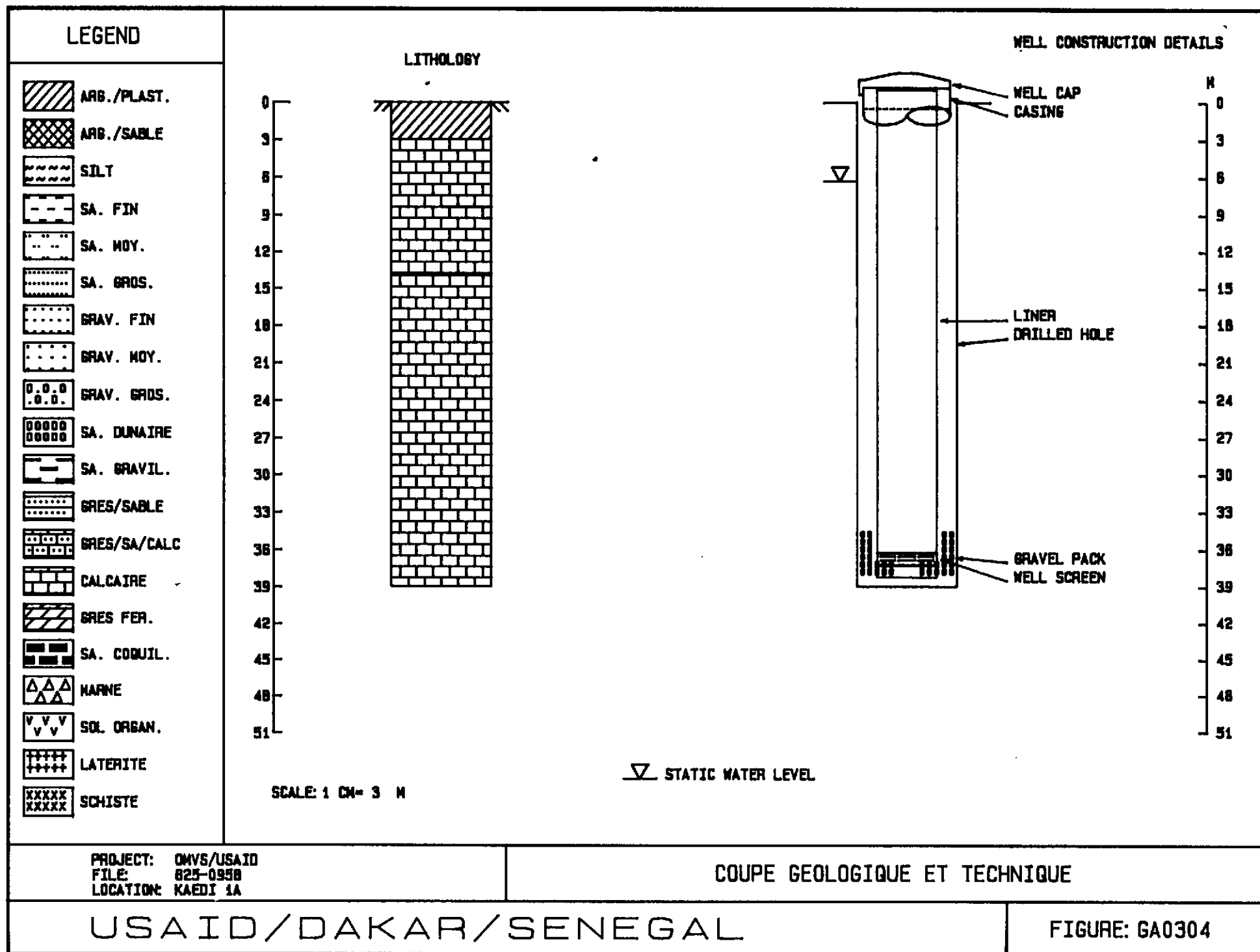
WELL LITHOLOGY

PROJECT: OMVS/USAID
LOCATION: KAEDI 1A
WELL NO.: GA0302
DRILLER: SAFOR

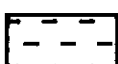
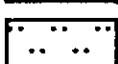
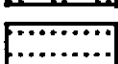
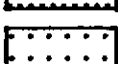
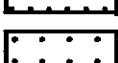
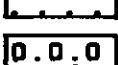
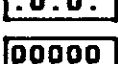
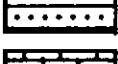
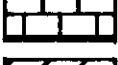
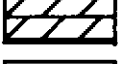
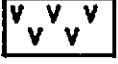
FILE NO.: 625-0958
ELEVATION (M): 14.109
DATE DRILLED: 23/06/87
TYPE OF RIG: ROTARY

DEPTH (M)		ELEVATION (M)		THICKNESS (M)	LITHOLOGY
FROM	TO	FROM	TO		
0.00	1.00	14.11	13.11	1.00	SA. GRAVIL., GAN; RO; LA
1.00	2.00	13.11	12.11	1.00	ARG./PLAST., GAN; VERSIC
2.00	4.00	12.11	10.11	2.00	ARG./PLAST., GAN; BLANCH
4.00	5.00	10.11	9.11	1.00	ARG./PLAST., GAN; OCRE;
5.00	11.00	9.11	3.11	6.00	MARNE, EMI; JA.
11.00	14.00	3.11	0.11	3.00	ARG./PLAST., EMI; JA; +G
14.00	16.00	0.11	-1.89	2.00	ARG./PLAST., EMI; JA; CO
16.00	18.00	-1.89	-3.89	2.00	LATERITE, EMI;
18.00	25.00	-3.89	-10.89	7.00	ARG./PLAST., EMI; JA; SA
25.00	34.00	-10.89	-19.89	9.00	SA. FIN, EMI; JA.
34.00	35.00	-19.89	-20.89	1.00	SA. FIN, EMI; JA; ARGILE
35.00	40.00	-20.89	-25.89	5.00	CALCAIRE, EM; ALTERE.

USAID/DAKAR/SENEGAL

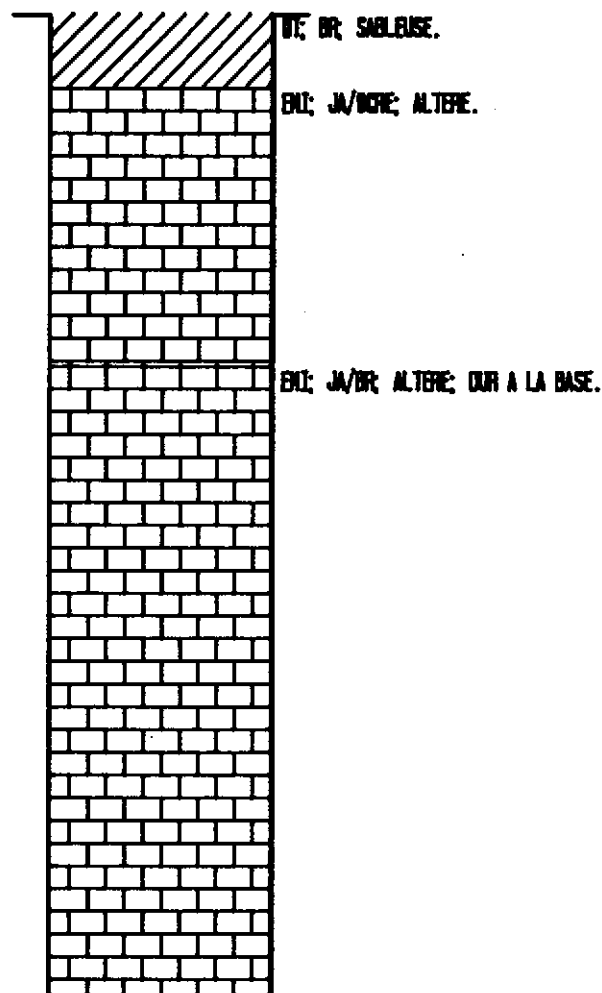


LEGEND

	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

GA0304



PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: KAEDI 1A

LITHOLOGY

USAID/DAKAR/SENEGAL

FIGURE GA0304

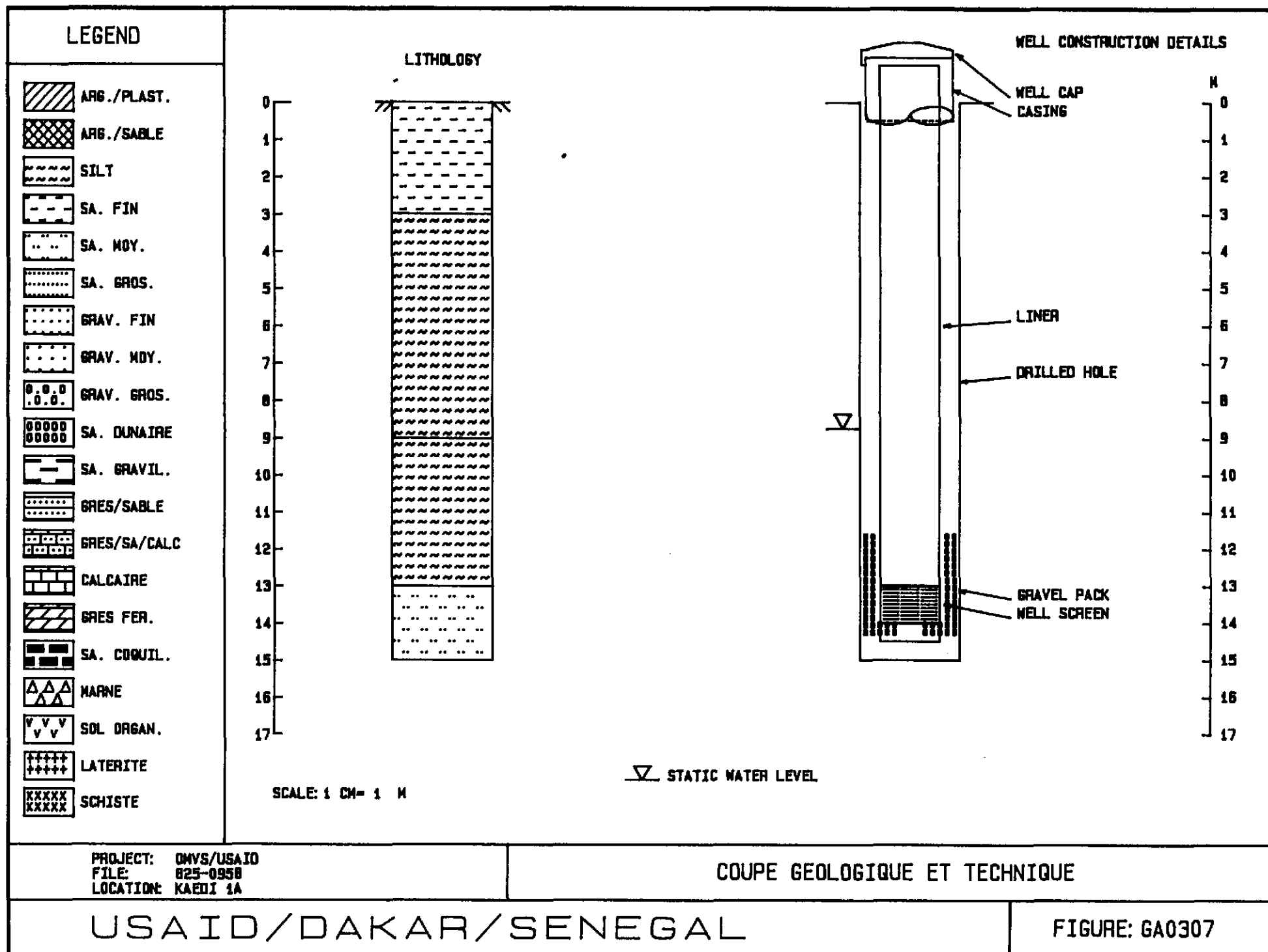
WELL LITHOLOGY

PROJECT: OMVS/USAID
LOCATION: KAEDI 1A
WELL NO.: GA0304
DRILLER: SAFOR

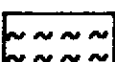
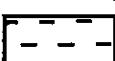
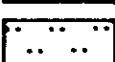
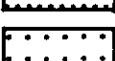
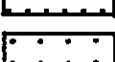
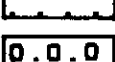
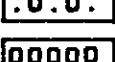
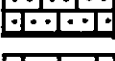
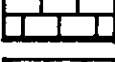
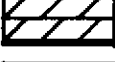
FILE NO.: 625-0958
ELEVATION (M): 11.15
DATE DRILLED: 21/06/87
TYPE OF RIG: ROTARY

DEPTH (M)		ELEVATION (M)		THICKNESS (M)	LITHOLOGY
FROM	TO	FROM	TO		
0.00	3.00	11.15	8.15	3.00	ARG./PLAST., BT; BR; SAB
3.00	14.00	8.15	-2.85	11.00	CALCAIRE, EMI; JA/OCRE;
14.00	39.00	-2.85	-27.85	25.00	CALCAIRE, EMI; JA/BR; AL

USAID/DAKAR/SENEGAL

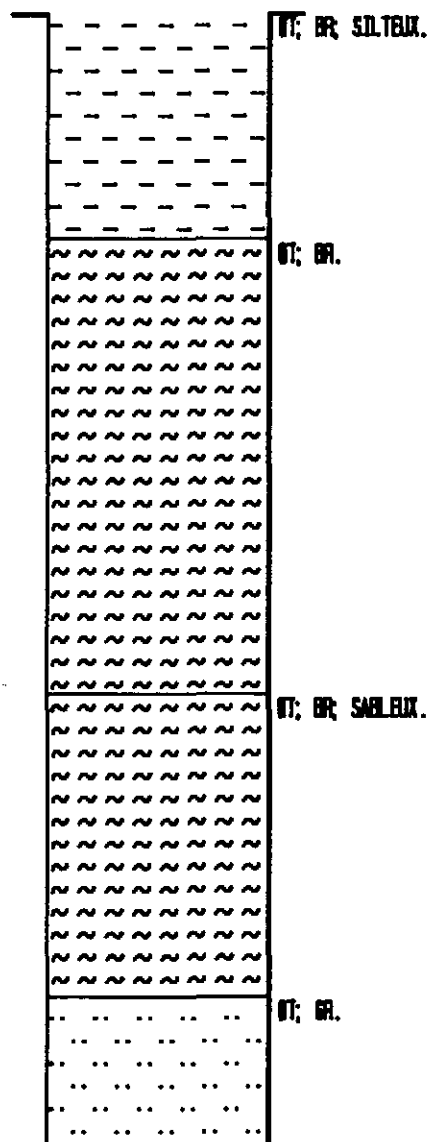


LEGEND

	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

GA0307



PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: KAEDI 1A

LITHOLOGY

USAID/DAKAR/SENEGAL

FIGURE GA0307

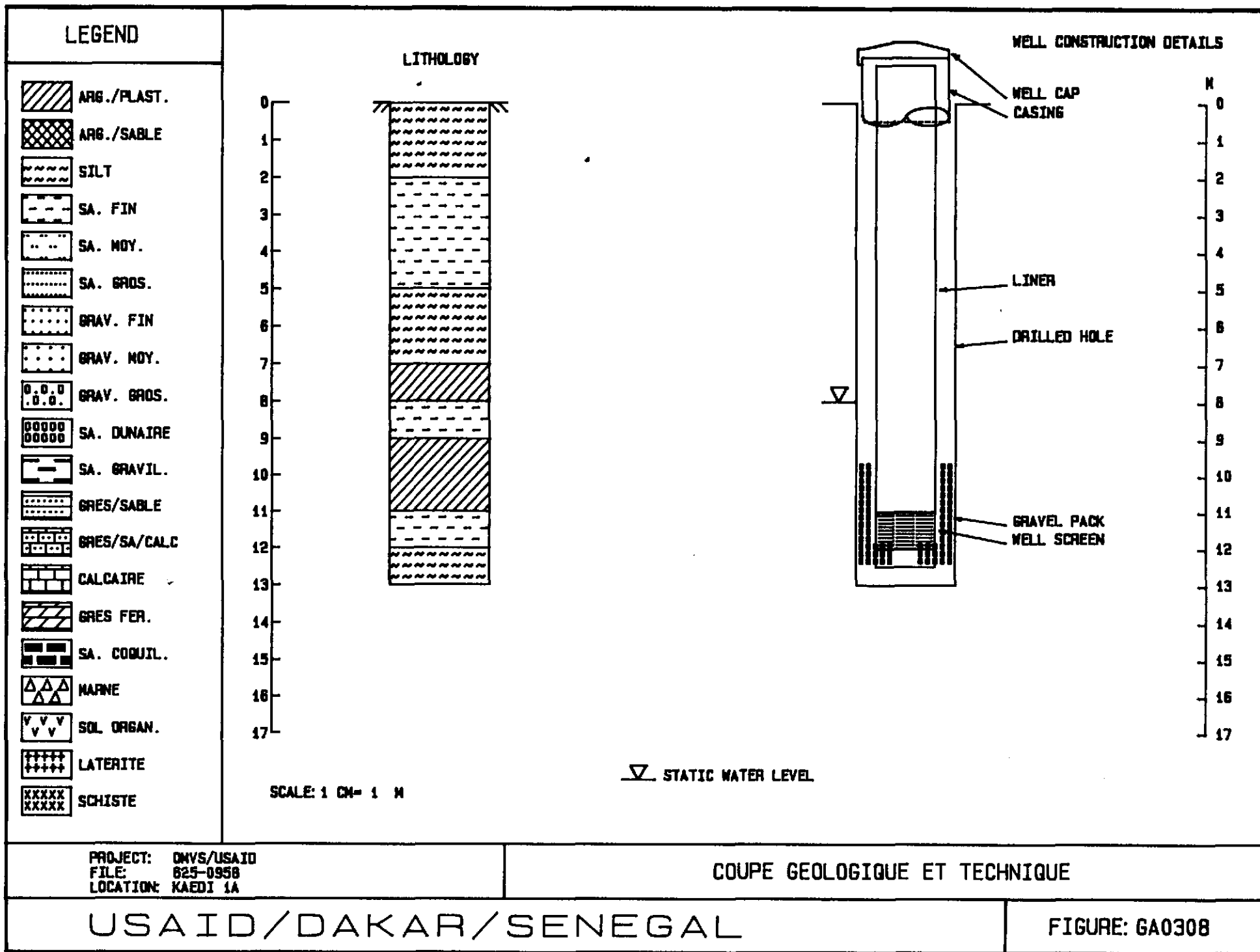
WELL LITHOLOGY

PROJECT: OMVS/USAID
LOCATION: KAEDI 1A
WELL NO.: GA0307
DRILLER: SAFOR

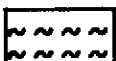
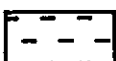
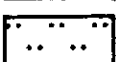
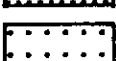
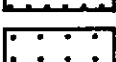
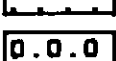
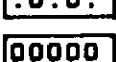
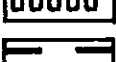
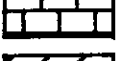
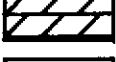
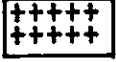
FILE NO.: 625-0958
ELEVATION (M): 12.144
DATE DRILLED: 22/06/87
TYPE OF RIG: ROTARY

DEPTH (M)		ELEVATION (M)		THICKNESS (M)	LITHOLOGY
FROM	TO	FROM	TO		
0.00	3.00	12.14	9.14	3.00	SA. FIN, QT; BR; SILTEUX
3.00	9.00	9.14	3.14	6.00	SILT, QT; BR.
9.00	13.00	3.14	-0.86	4.00	SILT, QT; BR; SABLEUX.
13.00	15.00	-0.86	-2.86	2.00	SA. MOY., QT; GR.

USAID/DAKAR/SENEGAL

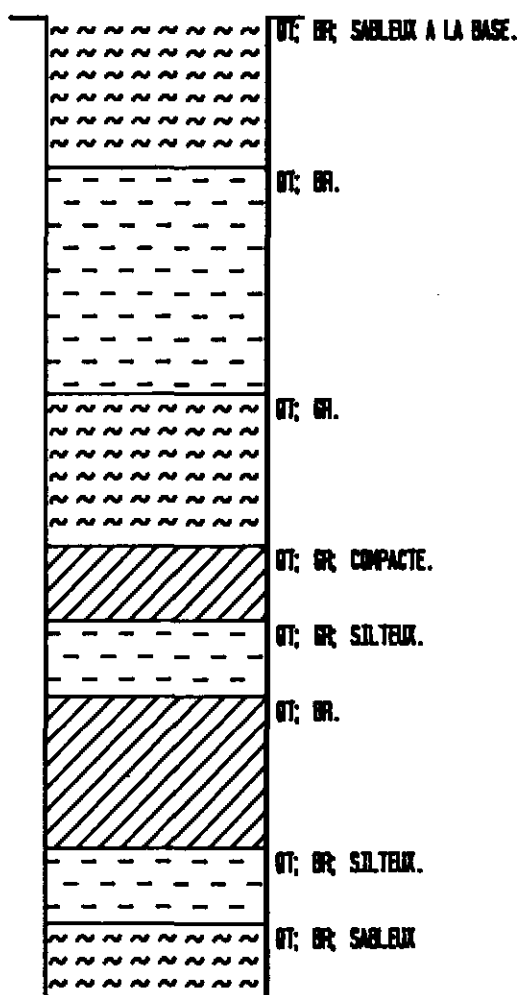


LEGEND

	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

GA0308



PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: KAEDI 1A

LITHOLOGY

USAID/DAKAR/SENEGAL

FIGURE GA0308

WELL LITHOLOGY

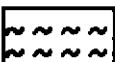
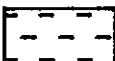
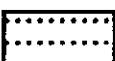
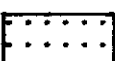
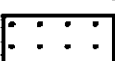
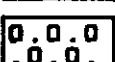
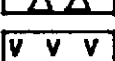
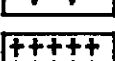
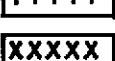
PROJECT:DMVS/USAID
LOCATION:KAEDI 1A
WELL NO.:GA0308
DRILLER:SAFOR

FILE NO.:625-0958
ELEVATION (M): 9.107001
DATE DRILLED:22/06/87
TYPE OF RIG:ROTARY

DEPTH (M)		ELEVATION (M)		THICKNESS (M)	LITHOLOGY
FROM	TO	FROM	TO		
0.00	2.00	9.11	7.11	2.00	SILT,QT; BR; SABLEUX A
2.00	5.00	7.11	4.11	3.00	SA. FIN,QT; BR.
5.00	7.00	4.11	2.11	2.00	SILT,QT; GR.
7.00	8.00	2.11	1.11	1.00	ARG./PLAST.,QT; GR; CON
8.00	9.00	1.11	0.11	1.00	SA. FIN,QT; GR; SILTEUX
9.00	11.00	0.11	-1.89	2.00	ARG./PLAST.,QT; BR.
11.00	12.00	-1.89	-2.89	1.00	SA. FIN,QT; BR; SILTEUX
12.00	13.00	-2.89	-3.89	1.00	SILT,QT; BR; SABLEUX

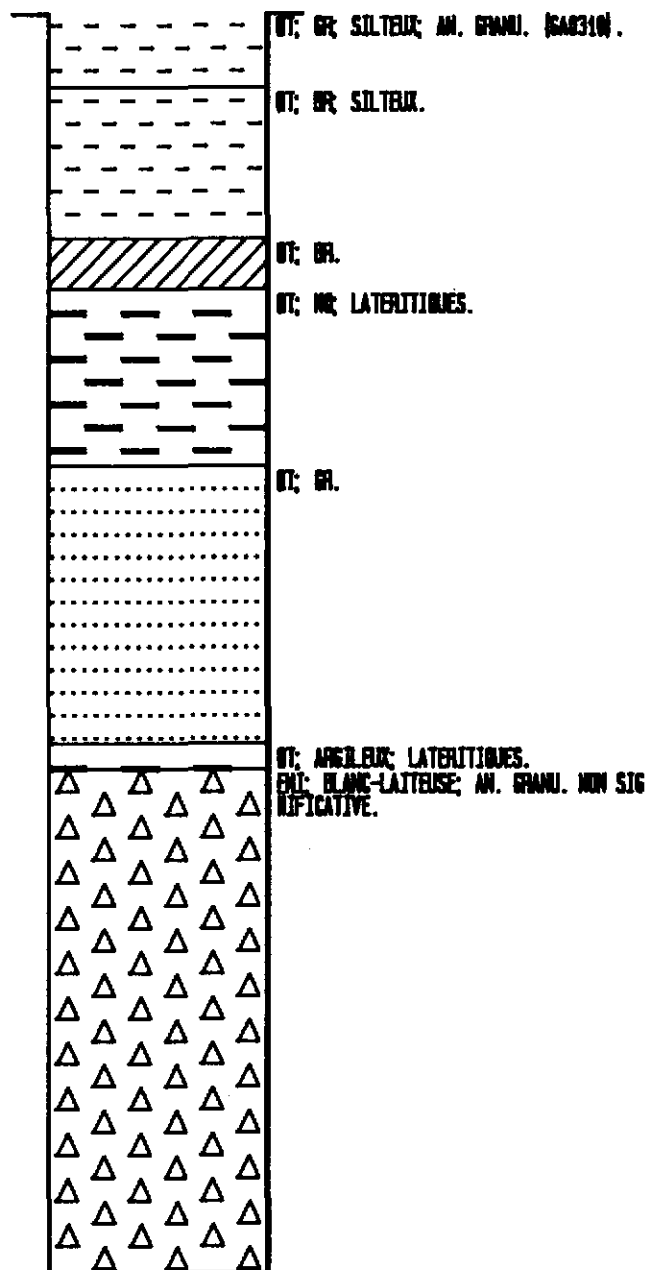
USAID/DAKAR/SENEGAL

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

GA0309



PROJECT: OMVS/USAID
 FILE: 625-0958
 LOCATION: KAEDI 1A

LITHOLOGY

USAID/DAKAR/SENEGAL

FIGURE GA0309

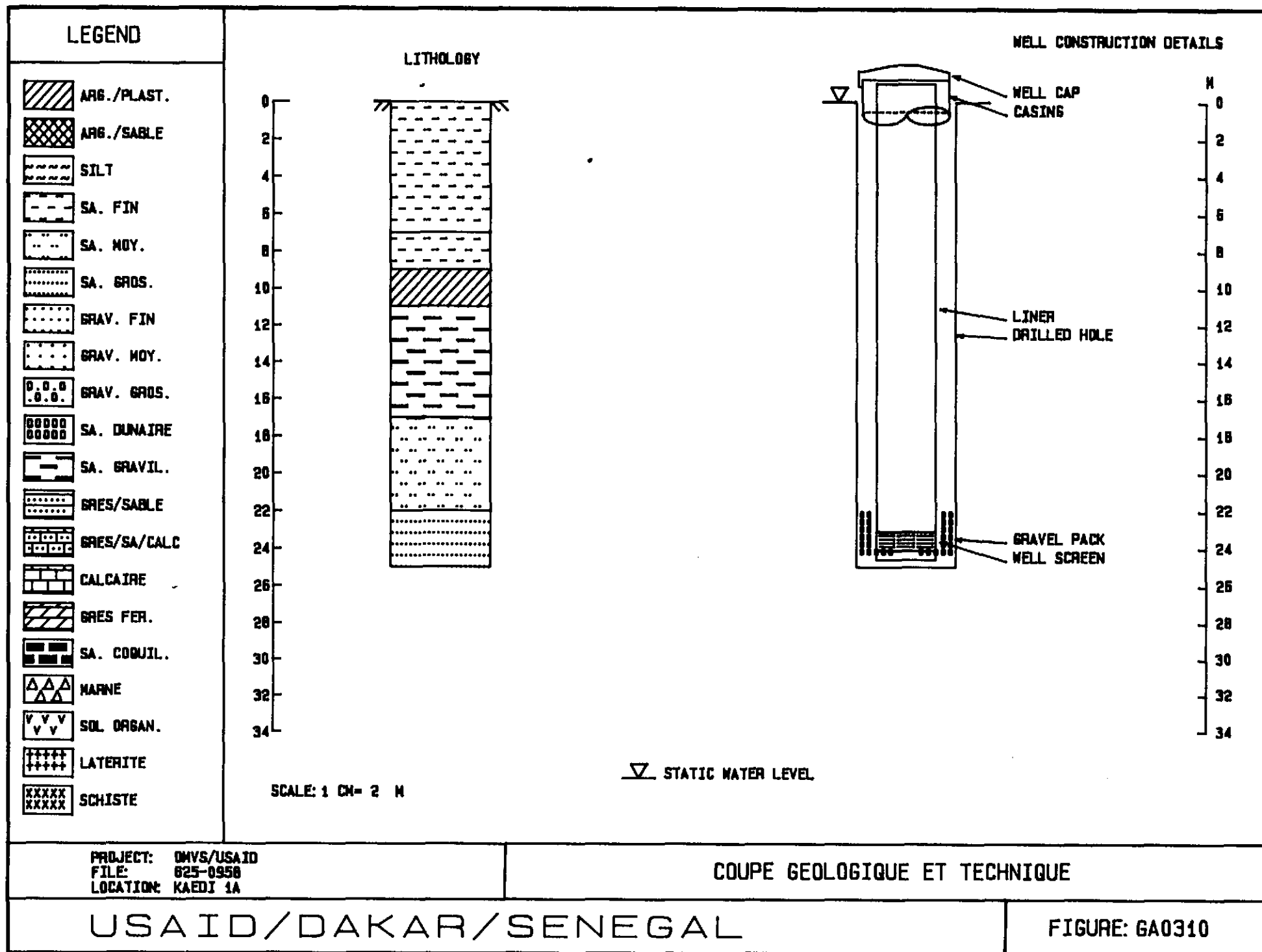
WELL LITHOLOGY

PROJECT:OMVS/USAID
LOCATION:KAEDI 1A
WELL NO.:GA0309
DRILLER:SAFOR

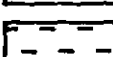
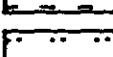
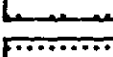
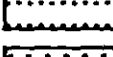
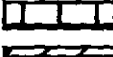
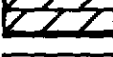
FILE NO.:625-0958
ELEVATION (M): 11.437
DATE DRILLED:23/06/87
TYPE OF RIG:ROTARY

DEPTH (M)		ELEVATION (M)		THICKNESS (M)	LITHOLOGY
FROM	TO	FROM	TO		
0.00	3.00	11.44	8.44	3.00	SA. FIN,QT; GR; SILTEUX
3.00	9.00	8.44	2.44	6.00	SA. FIN,QT; BR; SILTEUX
9.00	11.00	2.44	0.44	2.00	ARG./PLAST.,QT; BR.
11.00	18.00	0.44	-6.56	7.00	SA. GRAVIL.,QT; MO; LAT
18.00	29.00	-6.56	-17.56	11.00	SA. GROS.,QT; GR.
29.00	30.00	-17.56	-18.56	1.00	SA. GRAVIL.,QT; ARGILEU
30.00	50.00	-18.56	-38.56	20.00	MARNE,EMI; BLANC-LAITEU

USAID/DAKAR/SENEGAL

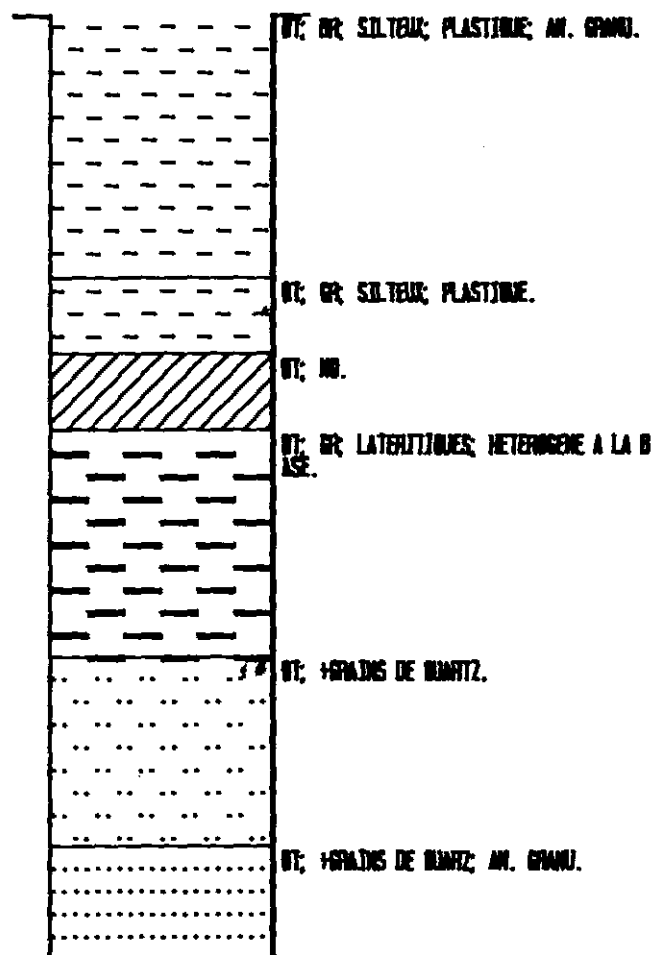


LEGEND

	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

GA0310

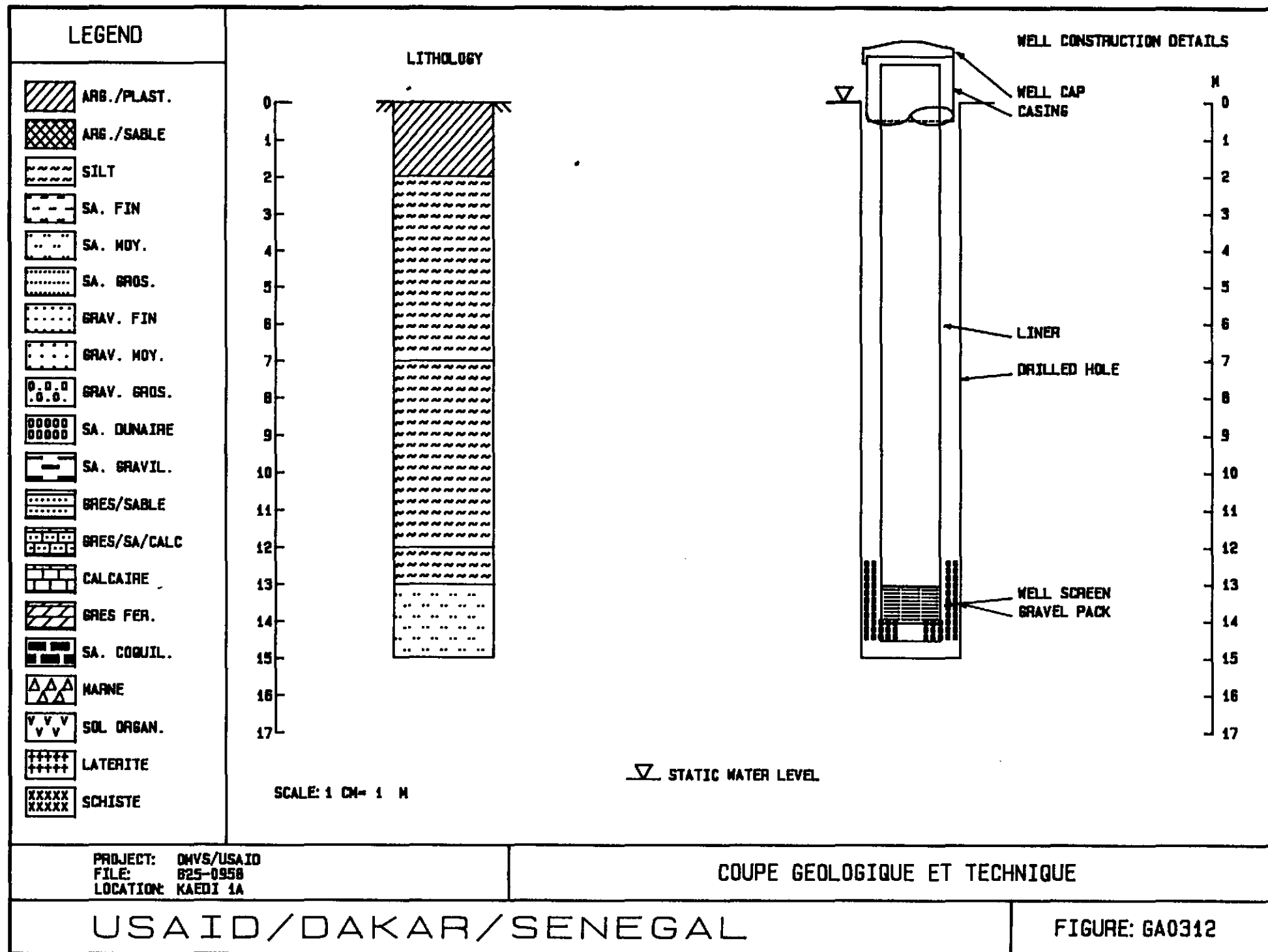


PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: KAEDI 1A

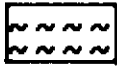
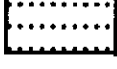
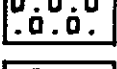
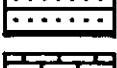
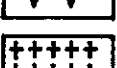
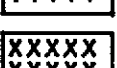
LITHOLOGY

USAID/DAKAR/SENEGAL

FIGURE GA0310

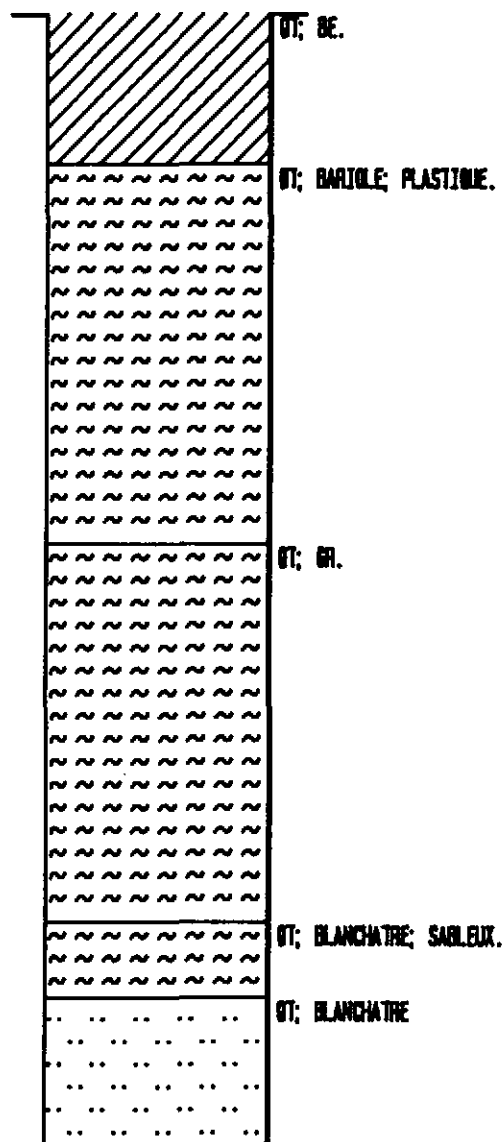


LEGEND

	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

GA0312



PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: KAEDI 1A

LITHOLOGY

USAID/DAKAR/SENEGAL

FIGURE GA0312

WELL LITHOLOGY

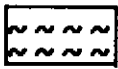
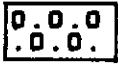
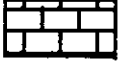
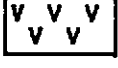
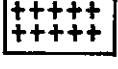
PROJECT: OMVS/USAID
LOCATION: KAEDI 1A
WELL NO.: GA0312
DRILLER: SAFOR

FILE NO.: 625-0958
ELEVATION (M): 10.658
DATE DRILLED: 29/11/87
TYPE OF RIG: ROTARY

DEPTH (M)		ELEVATION (M)		THICKNESS (M)	LITHOLOGY
FROM	TO	FROM	TO		
0.00	2.00	10.66	8.66	2.00	ARG./PLAST., GT; BE.
2.00	7.00	8.66	3.66	5.00	SILT, GT; BARIOLE; PLAST
7.00	12.00	3.66	-1.34	5.00	SILT, GT; GR.
12.00	13.00	-1.34	-2.34	1.00	SILT, GT; BLANCHATRE; SA
13.00	15.00	-2.34	-4.34	2.00	SA. MOY., GT; BLANCHATRE

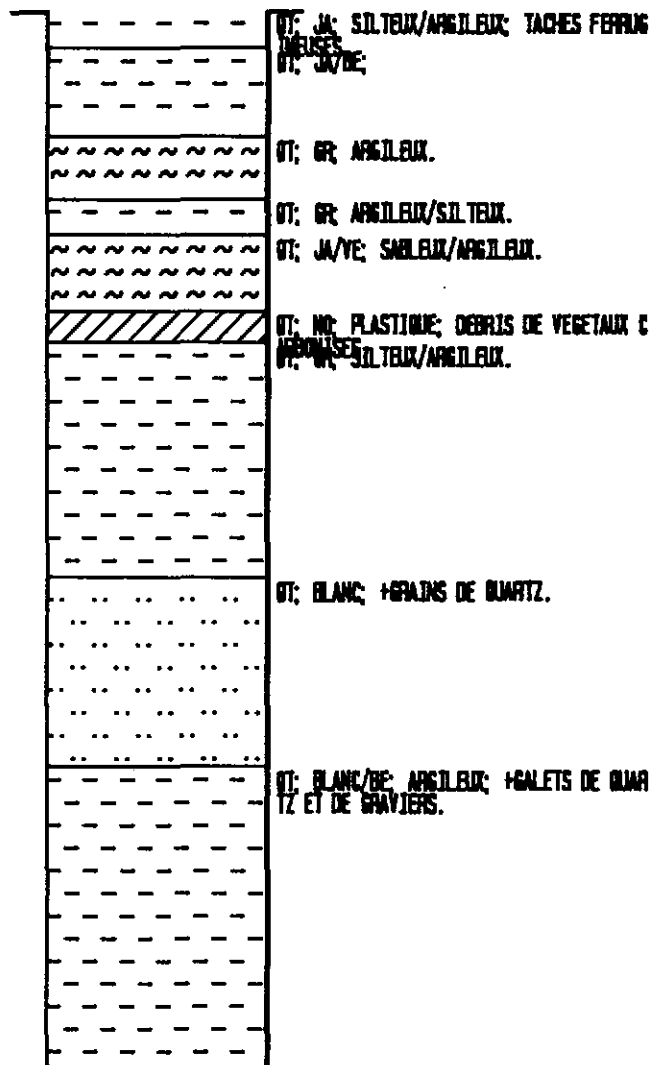
USAID/DAKAR/SENEGAL

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

ILLYF13



PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: KAEDI 1A

LITHOLOGY

USAID/DAKAR/SENEGAL

FIGURE YLLYF1

WELL LITHOLOGY

PROJECT: OMVS/USAID
LOCATION: KAEDI 1A
WELL NO.: ILLYF13
DRILLER: SASSIF

FILE NO.: 625-0958
ELEVATION (M): 10.176
DATE DRILLED:
TYPE OF RIG: BATTAGE

DEPTH (M)		ELEVATION (M)		THICKNESS (M)	LITHOLOGY
FROM	TO	FROM	TO		
0.00	1.00	10.18	9.18	1.00	SA. FIN,QT; JA; SILTEUX
1.00	3.35	9.18	6.83	2.35	SA. FIN,QT; JA/BE;
3.35	5.00	6.83	5.18	1.65	SILT,QT; GR; ARGILEUX.
5.00	5.95	5.18	4.23	0.95	SA. FIN,QT; GR; ARGILEU
5.95	7.95	4.23	2.23	2.00	SILT,QT; JA/VE; SABLEUX
7.95	8.80	2.23	1.38	0.85	ARG./PLAST.,QT; MO; PLA
8.80	15.00	1.38	-4.82	6.20	SA. FIN,QT; GR; SILTEUX
15.00	20.00	-4.82	-9.82	5.00	SA. MOY.,QT; BLANC; +GR
20.00	28.00	-9.82	-17.82	8.00	SA. FIN,QT; BLANC/BE; A

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DIRECTION DES INFRASTRUCTURES REGIONALES DIR
CELLULE EAUX SOUTERRAINES
PROJET OMVS/USAID 625-0958

REPERTOIRE HYDROGEOLOGIQUE

CARTE TOPOGRAPHIQUE 1:50,000

09 KAEDI 1A

ANNEXE # 2

ANALYSES GRANULOMETRIQUES

- * Résultats des analyses granulométriques
- * Courbes granulométriques

PROJET OMVS/USAID
625-0958

CARTE TOPOGRAPHIQUE 1/50.000:

KAEDI 1 A

RESULTATS DES ANALYSES GRANULOMETRIQUES

Responsable des prélèvements: SAFOR

Responsable des analyses: SAED/ Laboratoire de ROSS- BETHIO

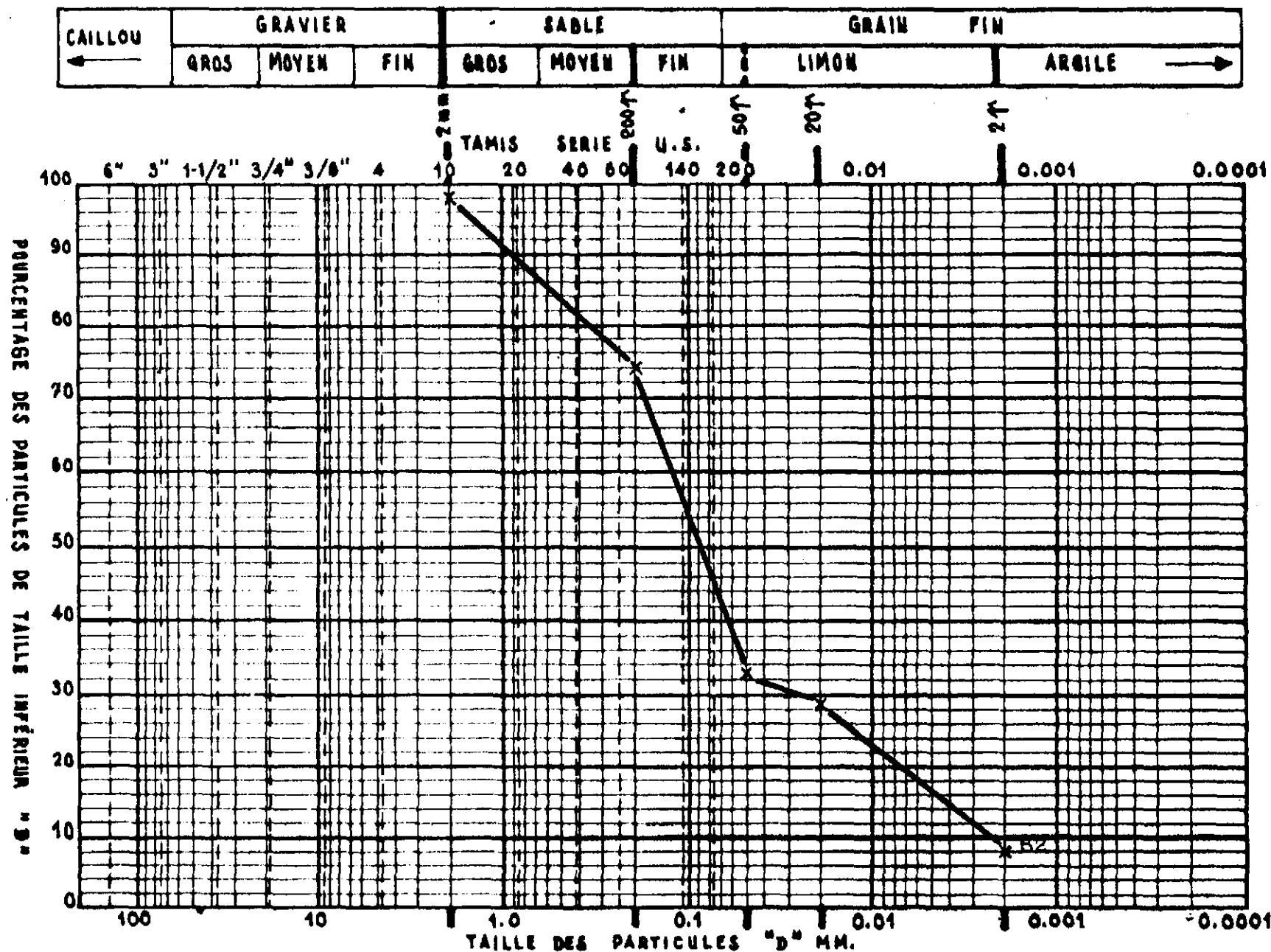
Fichier: GRANULO.FIC

Page .1. de .1.

PIEZO #	HORIZON B1/B2	% POIDS/ CLASSE GRANULOMETRIQUE					% POIDS TOTAL
		ARGILE	LIMON FIN	LIMON GROSSIER	SABLE FIN	SABLE GROSSIER	
GA 309	B2	8,00	21,10	4,53	41,54	23,39	98,56
GA 310	B1	4,00	25,17	21,21	46,74	1,36	98,48
GA 310	B2	2,00	12,80	1,95	15,12	66,12	97,99
DA 211	49m - B2	2,00	6,29	4,01	22,03	64,11	98,44
DA 212	17m - B2	6,00	12,00	6,86	21,74	51,85	98,45
DA 213	B1	38,90	42,90	5,04	9,79	1,81	98,44
DA 213	19m - B2	6,00	5,95	1,06	14,41	71,13	98,55
DA 214	16m - B2	4,00	5,34	2,41	45,70	41,05	98,5
DA 215	B1	15,31	23,32	10,64	48,72	0,44	98,43
DA 215	38m - B2	15,02	15,02	4,72	43,55	20,21	98,52
DA 216	16m - B2	17,79	25,80	7,81	25,96	21,13	98,49
DA 218	29m - B2	22,69	6,69	7,39	36,93	24,80	98,5
DA 219	14m - B2	15,36	31,36	6,82	24,02	20,80	98,44
DA 261	19m - B2	8,00	24,46	19,11	41,84	5,12	98,53

COURBES GRANULOMÉTRIQUES

TYPE D'ECHANT. : OU R



CLASSIFICATION M.I.T.

KB1 = N/R cm/sec

KB2 = 6.25×10^{-6} cm/sec

SENEGAL

PAYS

PIEZOMÈTRE N°

09

11A

GA809

LP

COORDONNÉES (MTU)

X:

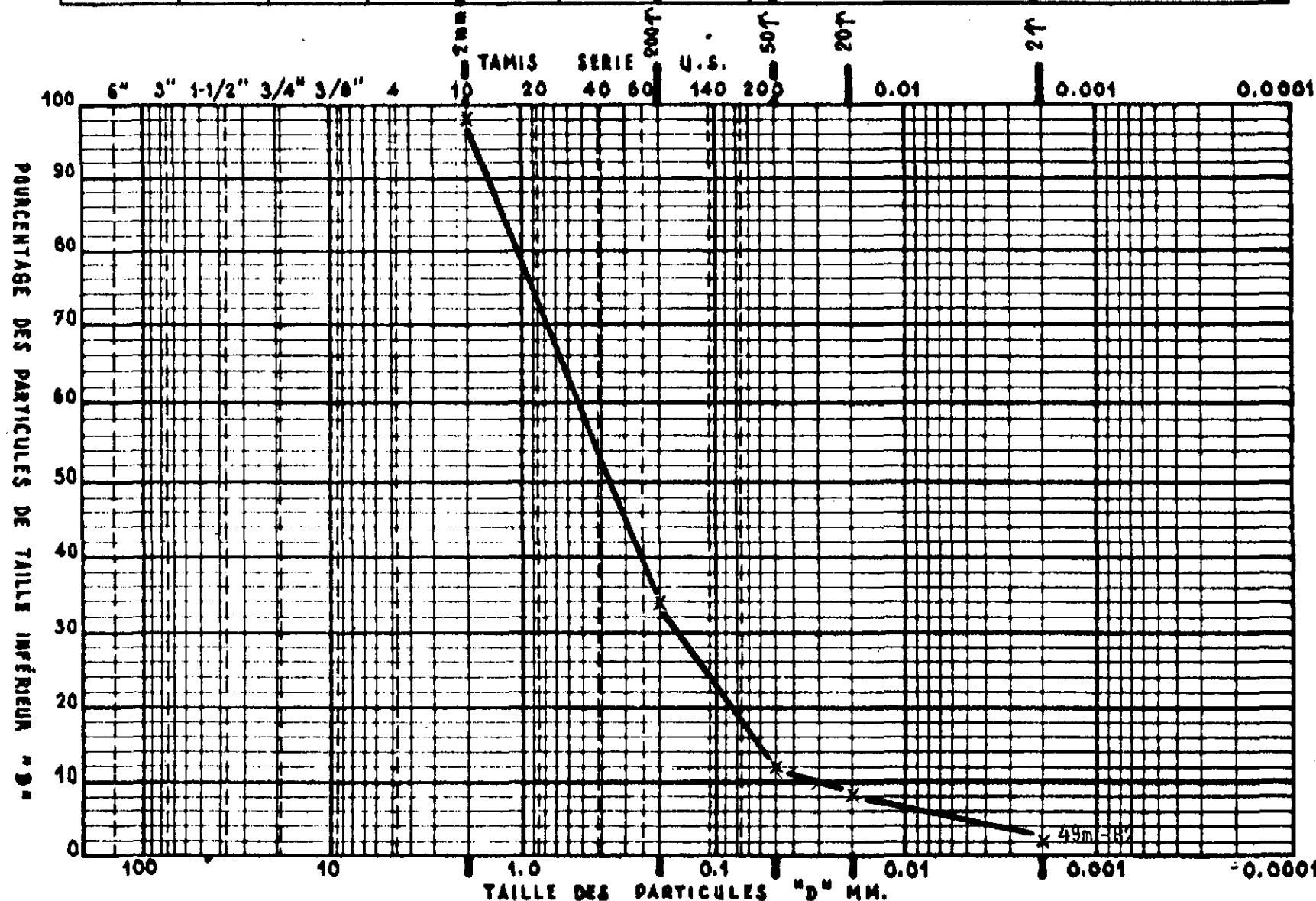
Y:

ORGANISATION POUR LA MISE EN VALEUR DU FLEUVE SENEGAL (O.M.V.S.)
DIRECTION DE L'INFRASTRUCTURE RÉGIONALE (D.I.R.)
PROJET 625-0956/U.S.A.I.D

COURBES GRANULOMÉTRIQUES

TYPE D'ECHANT. : OU R

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



CLASSIFICATION M.I.T.

KB1 = N/R cm/sec

KB2 = 9×10^{-4} ... cm/sec

PAYS
MALI

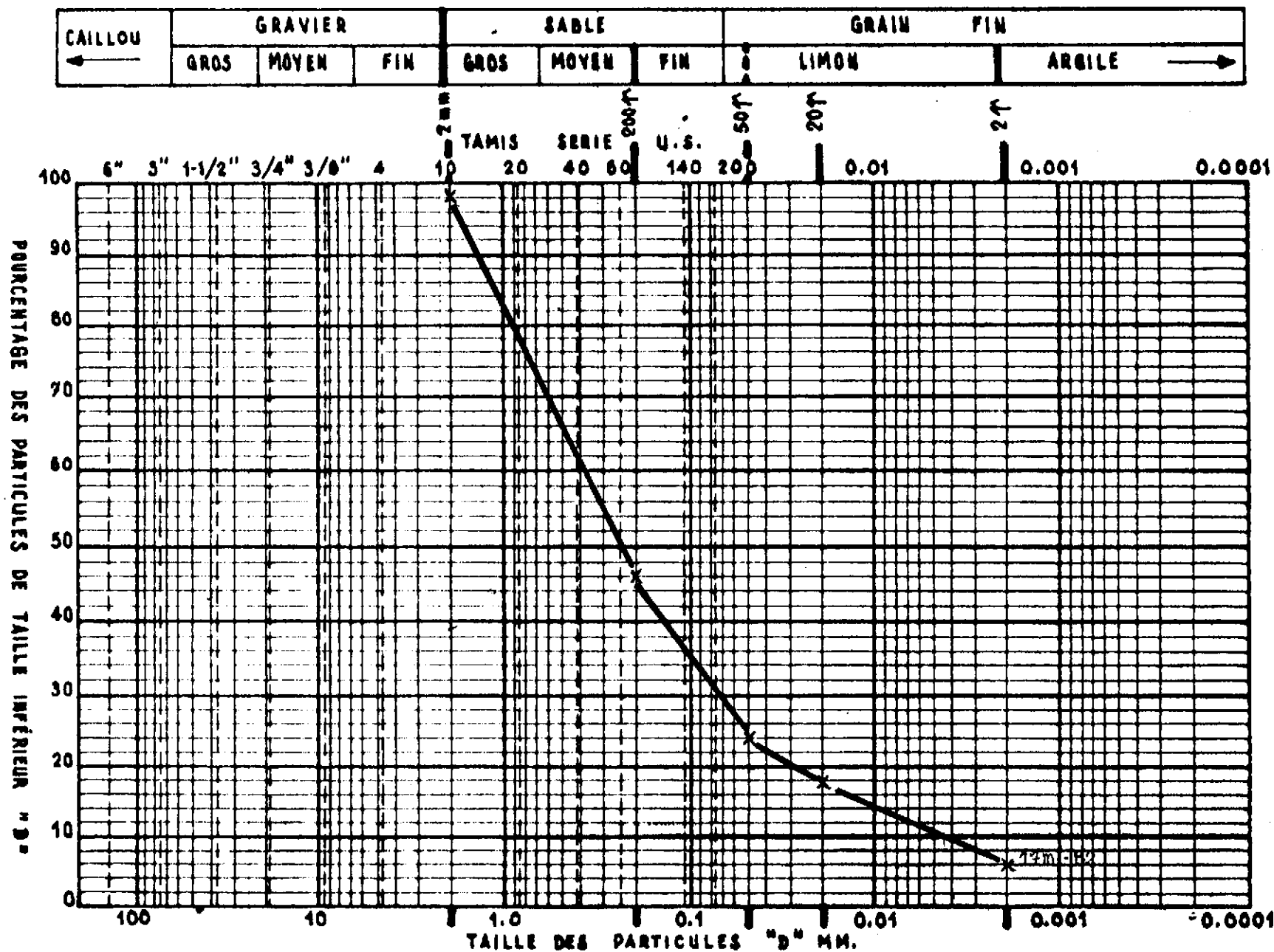
PIEZOMÈTRE N° 09 1A 1A 2A 2A 1A 1A
COORDONNÉES (MTU) X: Y:

TYPE D'ECHANT. : OU m

PAYS
MAURITANIE

COORDONÉES (MTU)	X:	Y:
PIEZOMÈTRE N°	89	11A
		D A 2 1 2
		L P

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



CLASSIFICATION M.I.T.

$$KB1 = N/R \dots \text{cm/sec}$$
$$KB2 = 2.03 \times 10^{-5} \text{ cm/sec}$$

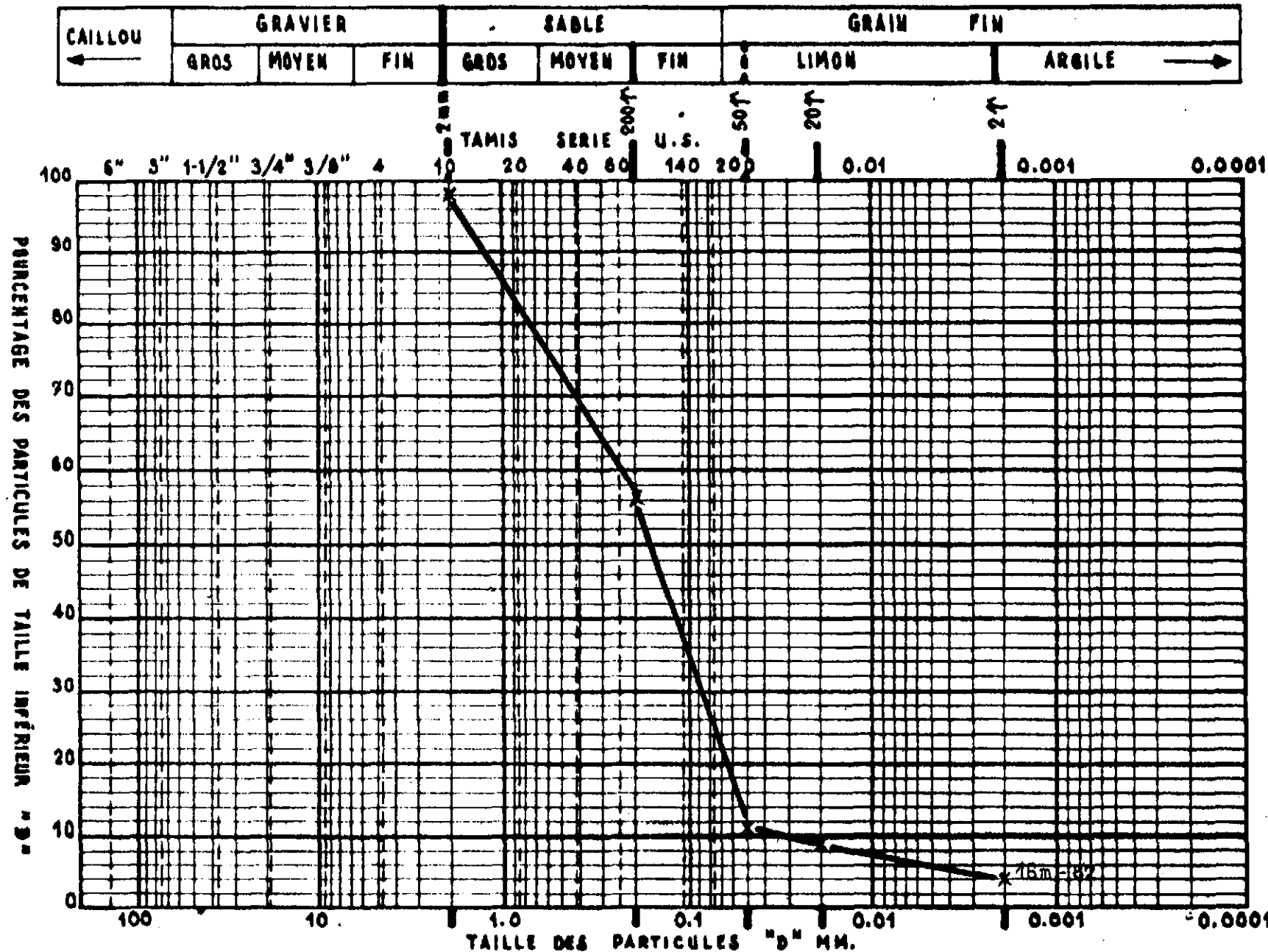
COURBES GRANULOMÉTRIQUES

TYPE D'ECHANT. : OU

PAYS
MAURITANIE

PIEZOMÈTRE N°
COORDONNÉES (MTR) X: Y:

ORGANISATION POUR LA MISE EN VALEUR DU FLEUVE SÉNÉGAL (O.M.V.S.)
DIRECTION DE L'INFRASTRUCTURE RÉGIONALE (D.I.R.)
PROJET 625-0956/U.S.A.I.D



CLASSIFICATION M.I.T.

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

KB2 = 1.024×10^{-3} cm/sec

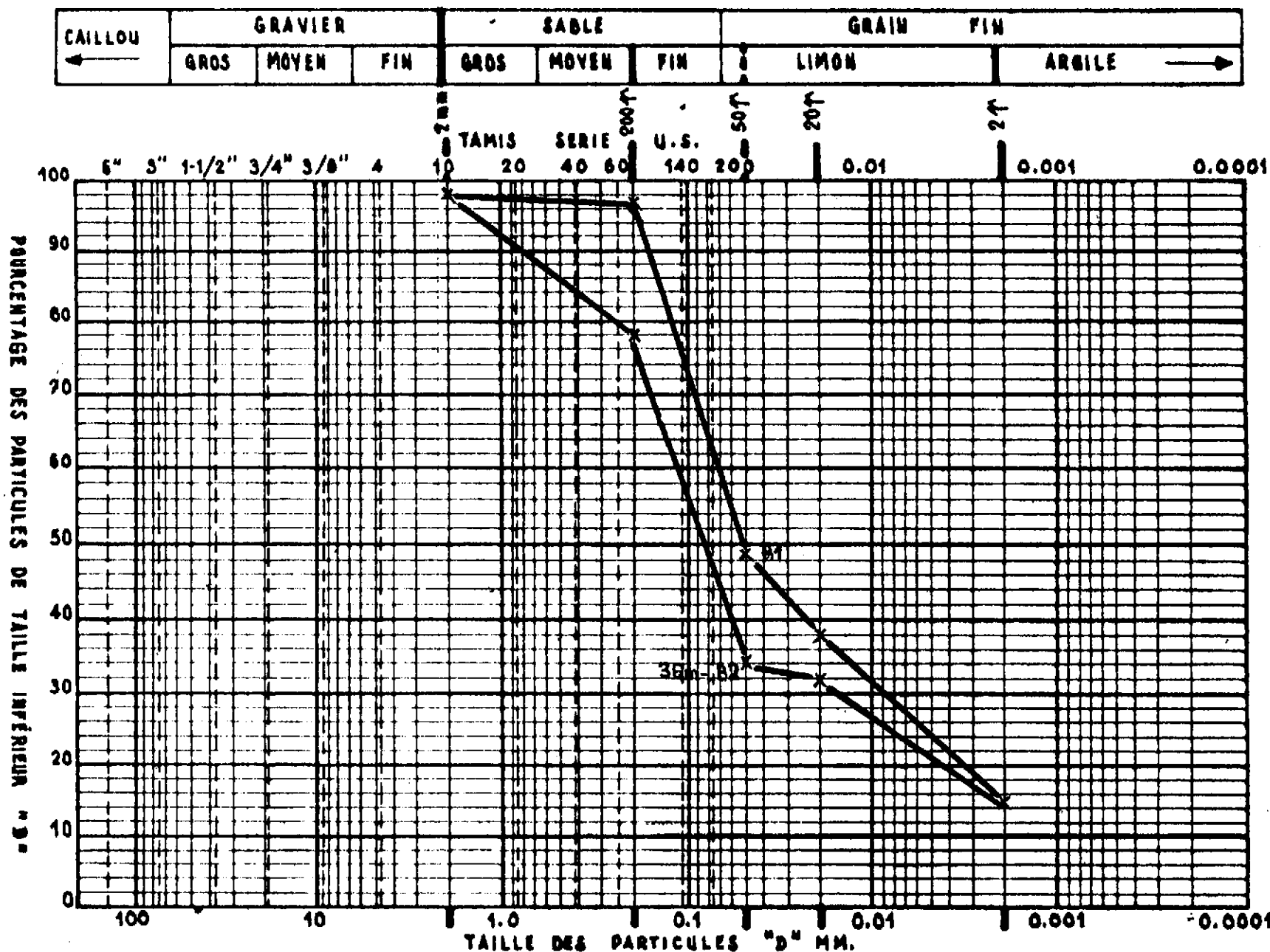
COURBES GRANULOMÉTRIQUES

TYPE D'ÉCHANT. : OU M

PAYS
--MAURITANIE--

PIÉZOMÈTRE N° [09] [1A] [D] [A] [2] [1] [5] [HP]
COORDONNÉES (MTU) X: Y:

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DIRECTION DE L'INFRASTRUCTURE RÉGIONALE (D.I.R.)
PROJET 625-0950/U.S.A.I.D



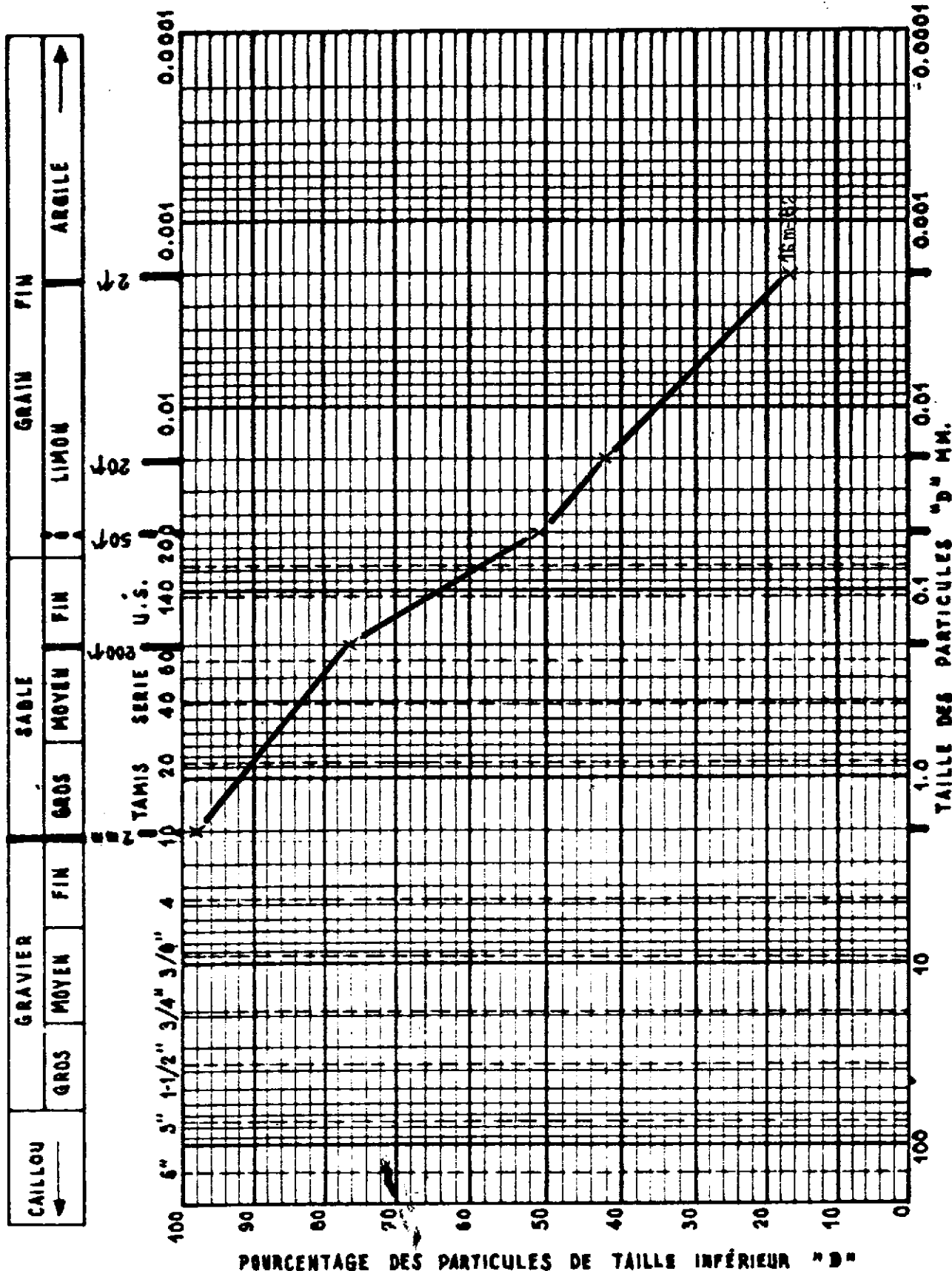
CLASSIFICATION M.I.T.

KB1 = N/A ... cm/sec

KB2 = N/A ... cm/sec

TYPE D'ECHANT. : OU m

COURBES GRANULOMETRIQUES



COURBES GRANULOMÉTRIQUES

TYPE D'ECHANT. : OU

MAURITANIE

PAYS

COORDONNÉES (MTR)

X: Y:

PIEZOMÈTRE N°

09

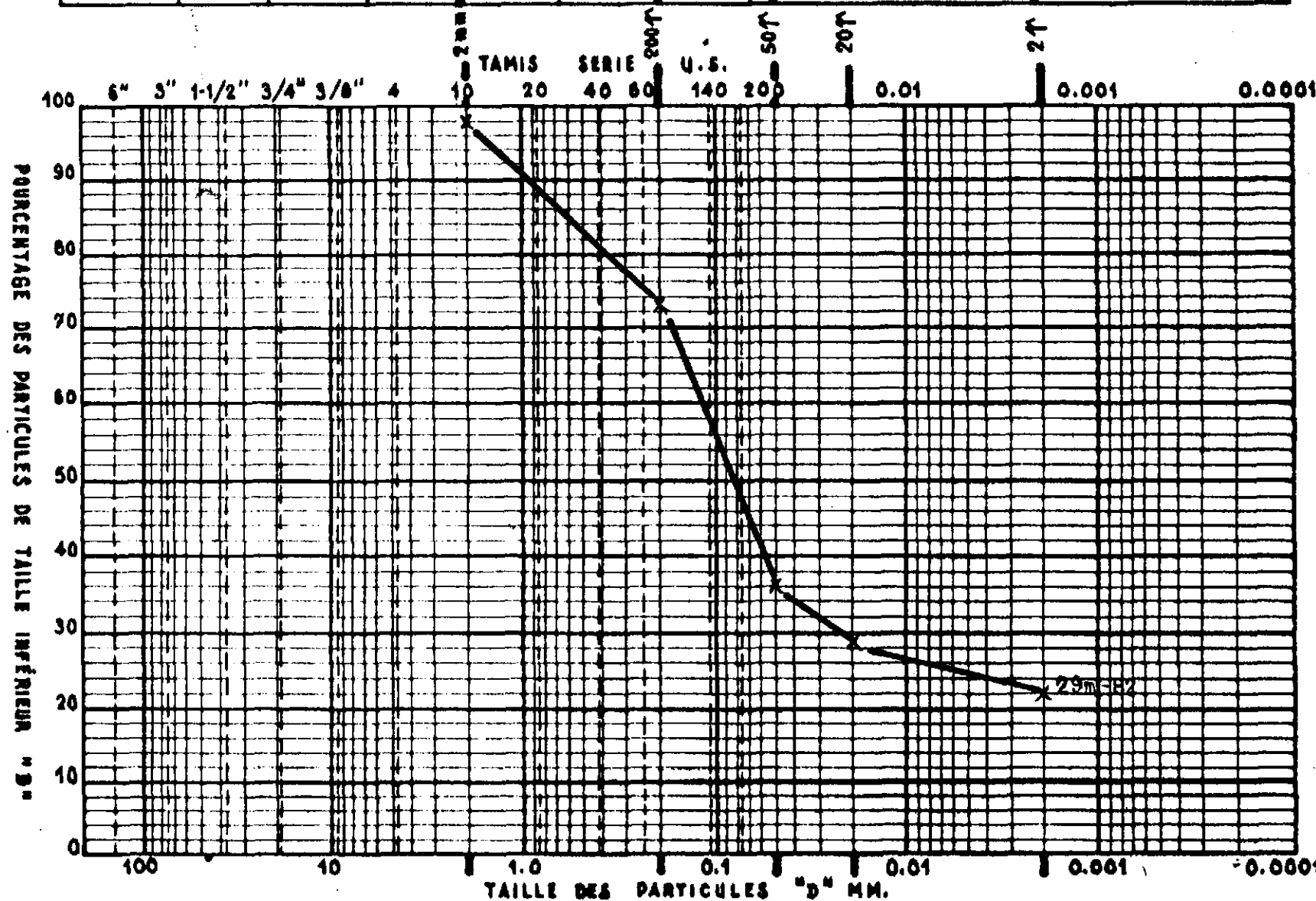
1A

04210

HP

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

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



CLASSIFICATION M.I.T.

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

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

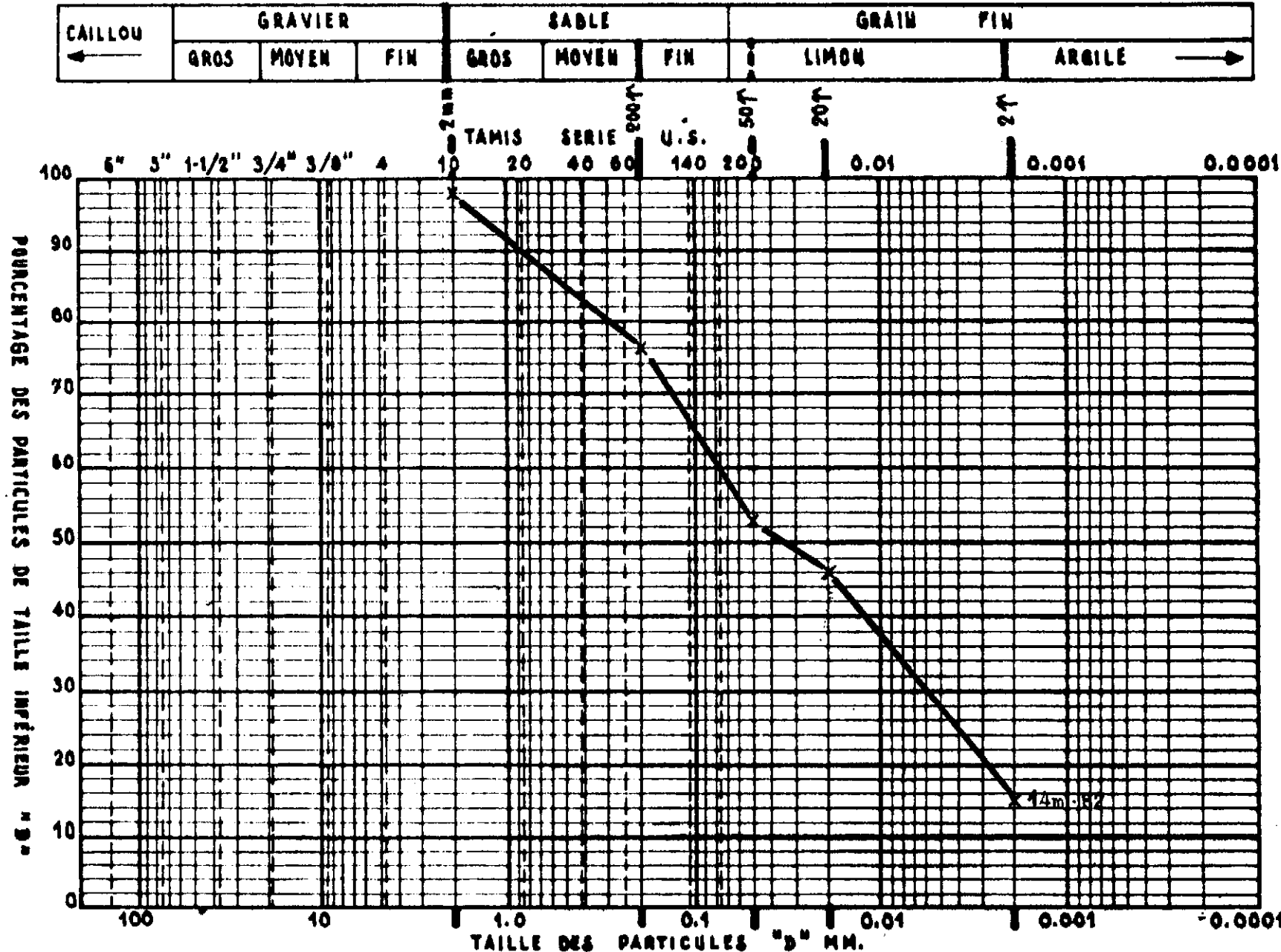
COURBES GRANULOMÉTRIQUES

TYPE D'ECHANT. : OU

PAYS
MAURITANIE

PIEZOMÈTRE N° 09 11A D1219 419
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 625-0950/U.S.A.I.D



CLASSIFICATION M.I.T.

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

09 KAEDI 1A

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.

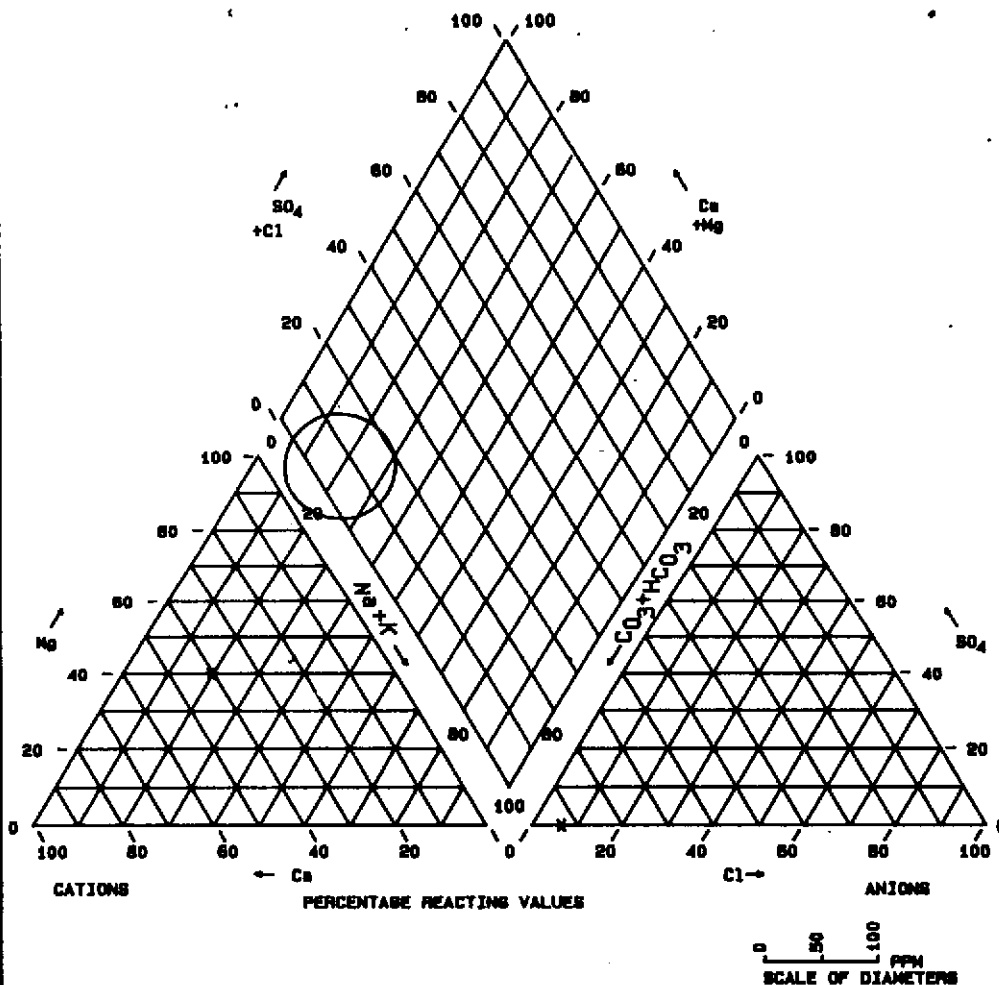
PROJET OMVS/USAID
625-0958

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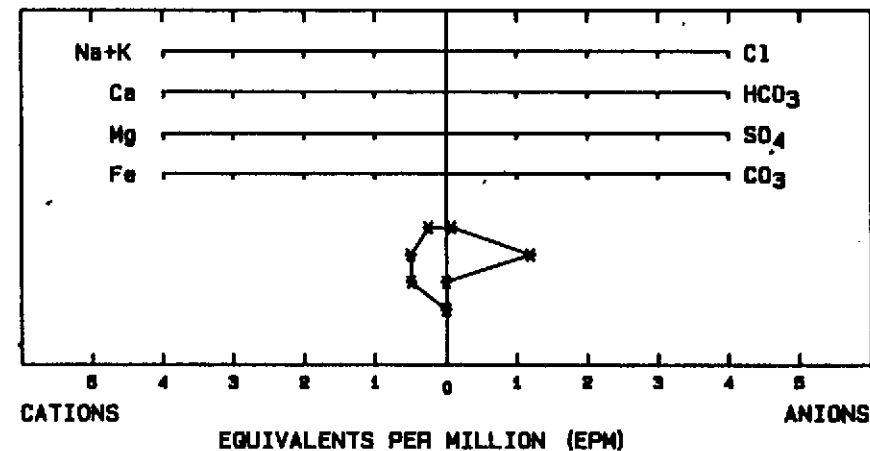
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DA219	.CHM	128	.a..	2-24-89	10:57	am
GA0309	.CHM	128	.a..	2-24-89	11:01	am
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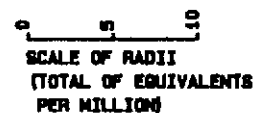
PIPER TRILINEAR DIAGRAM



STIFF GRAPH



PIE DIAGRAM



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

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

SAMPLE: DA211 30/10/87

CHEMICAL GRAPHS

USAID/DAKAR/SENEGAL

FIGURE: DA211

CHEMISTRY ANALYSIS

PROJECT: OMUS/USAID
LOCATION: KAEDI

FILE: 625-0958

WELL NO.: DA211 30/10/87

CATIONS	PPM	EPM	% EPM
Ca	10.00	0.50	40.39
Mg	6.00	0.49	39.94
Na+K	6.00	0.24	19.67

ANIONS	PPM	EPM	% EPM
HCO3+CO3	73.00	1.20	93.40
SO4	0.00	0.00	0.00
Cl	3.00	0.08	6.60

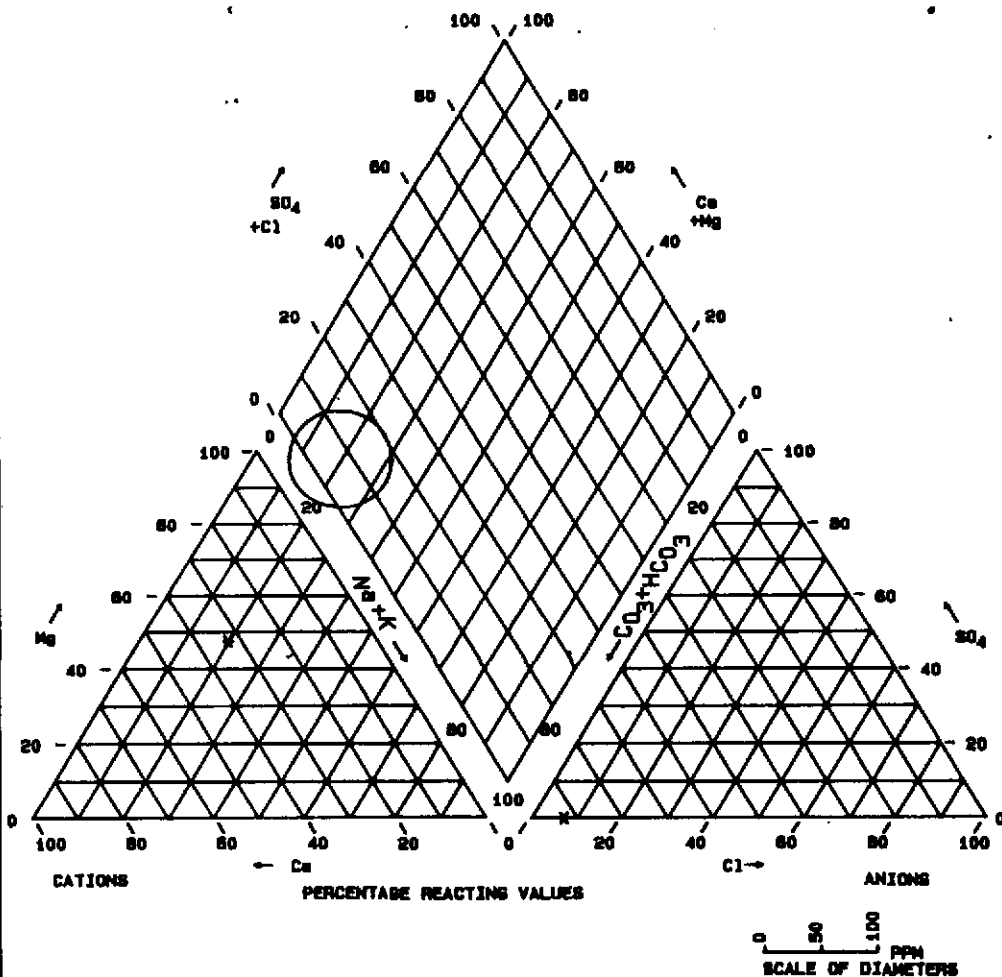
TOTAL DISSOLVED SOLIDS: 125

ERROR IN CATION/ANION BALANCE: 1.74 %

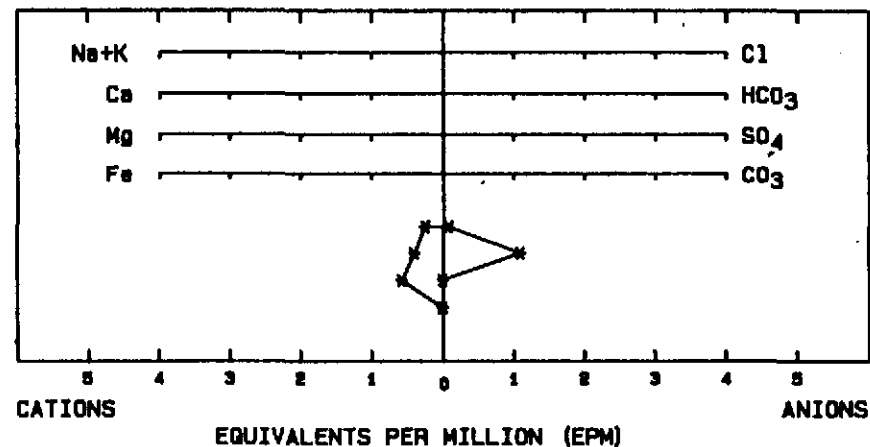
SODIUM ABSORPTION RATION (S.A.R.): 0.31

USAID/DAKAR/SENEGAL

PIPER TRILINEAR DIAGRAM

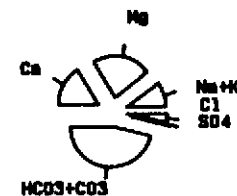


STIFF GRAPH



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 1A

SAMPLE: DA212 30/10/87

CHEMICAL GRAPHS

USAID/DAKAR/SENEGAL

FIGURE: DA212

CHEMISTRY ANALYSIS

PROJECT: ONVS/USAID
LOCATION: KAEDI 1A

FILE: 625-0958

WELL NO.: DAB12 30/10/87

CATIONS	PPM	EPM	% EPM
Ca	8.00	0.40	32.78
Mg	7.00	0.58	47.27
Na+K	5.00	0.24	19.96

ANIONS	PPM	EPM	% EPM
HCO3+CO3	67.00	1.10	92.85
SO4	0.00	0.00	0.00
Cl	3.00	0.08	7.15

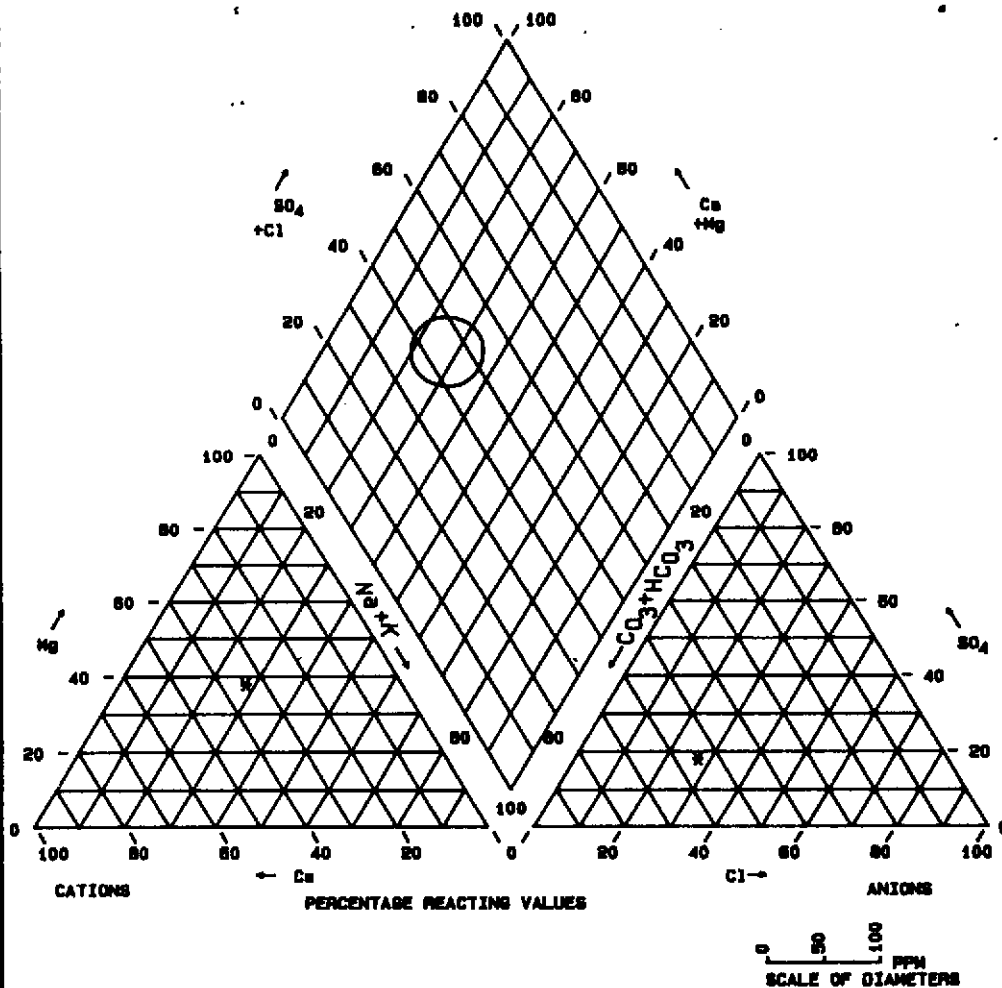
TOTAL DISSOLVED SOLIDS: 160

ERROR IN CATION/ANION BALANCE: 1.60 %

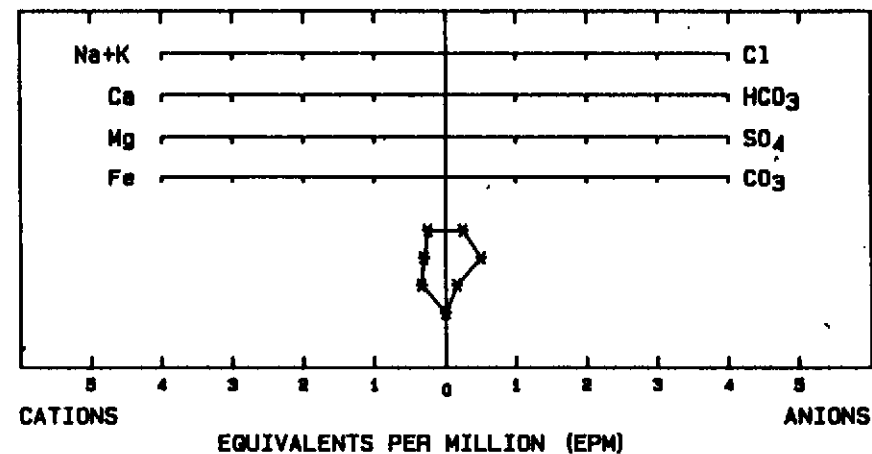
SODIUM ABSORPTION RATION (S.A.R.): 0.31

USAID/DAKAR/SENEGAL

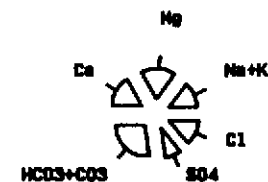
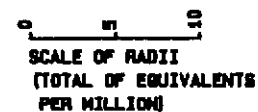
PIPER TRILINEAR DIAGRAM



STIFF GRAPH



PIE DIAGRAM



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

PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: KAEDI 1A

SAMPLE: DA213 06/11/87

CHEMICAL GRAPHS

USAID/DAKAR/SENEGAL

FIGURE: DA213

CHEMISTRY ANALYSIS

PROJECT: OMUS/USAID
LOCATION: KAEDI 1A

FILE: 625-0958

WELL NO.: DA213 06/11/87

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	54.72
SO4	8.00	0.17	17.94
Cl	9.00	0.25	27.34

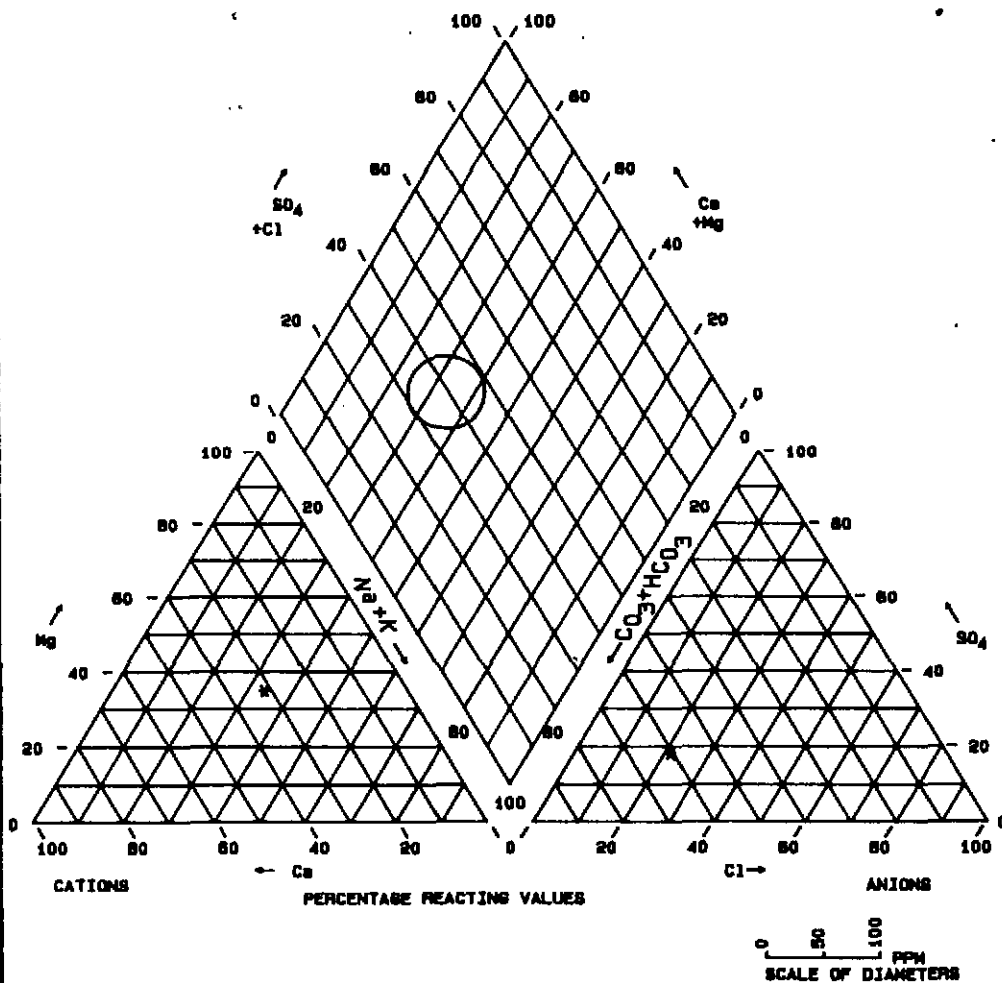
TOTAL DISSOLVED SOLIDS: 110

ERROR IN CATION/ANION BALANCE: 3.17 %

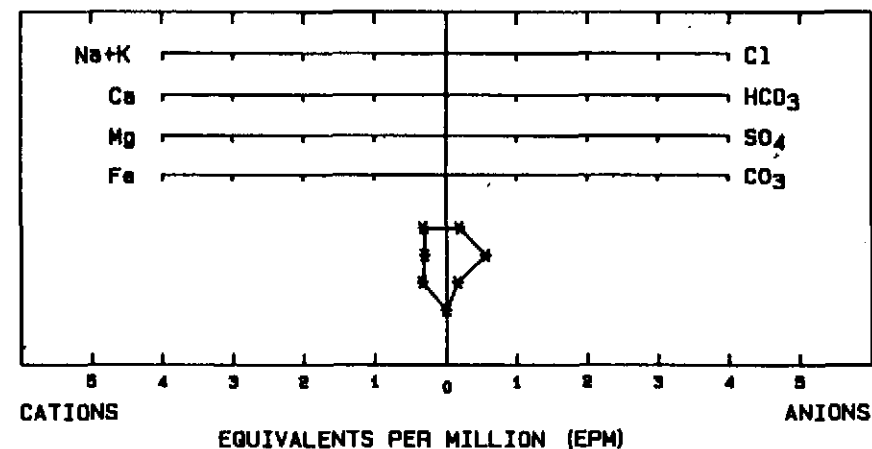
SODIUM ABSORPTION RATION (S.A.R.): 0.39

USAID/DAKAR/SENEGAL

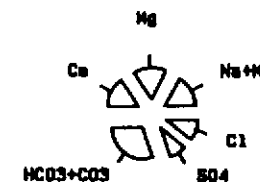
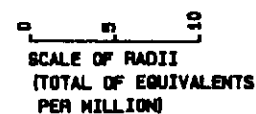
PIPER TRILINEAR DIAGRAM



STIFF GRAPH



PIE DIAGRAM



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

PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: KAEDI 1A

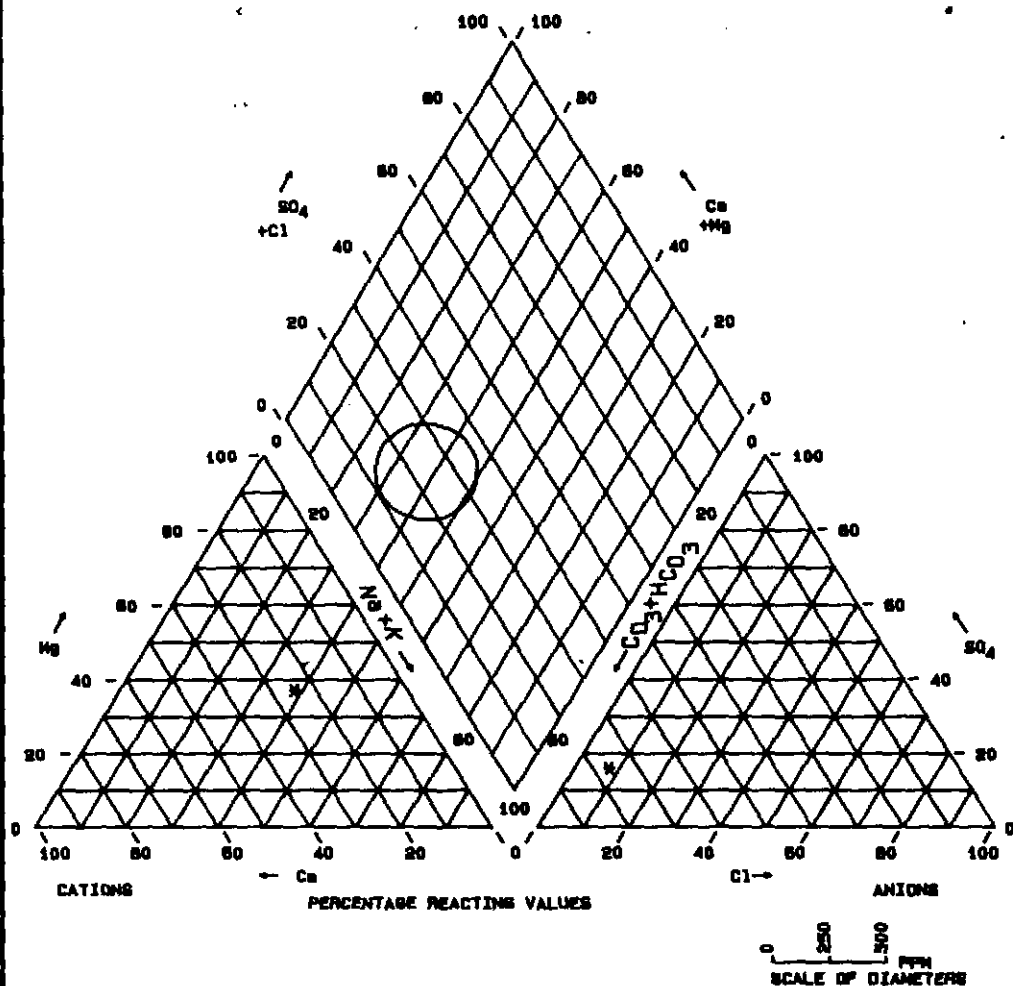
SAMPLE: DA219 26/10/87

CHEMICAL GRAPHS

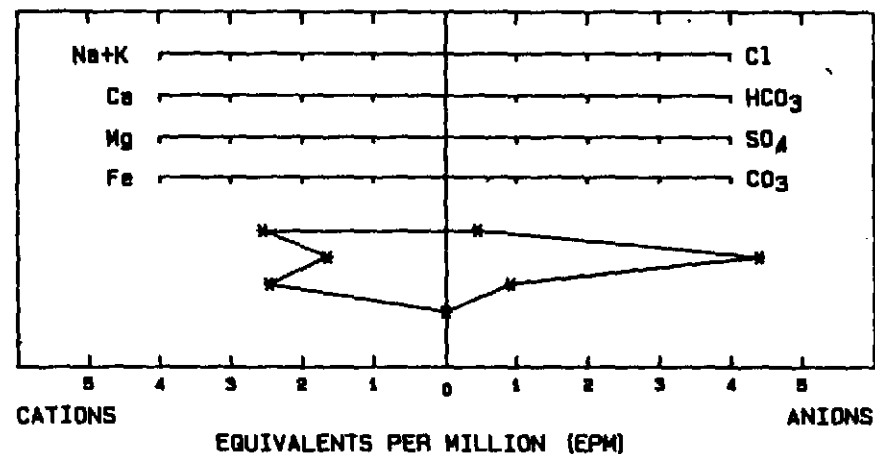
USAID/DAKAR/SENEGAL

FIGURE: DA219

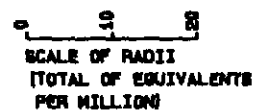
PIPER TRILINEAR DIAGRAM



STIFF GRAPH



PIE DIAGRAM



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

PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: KAEDI 1A

SAMPLE: GA0309 17/03/88

CHEMICAL GRAPHS

USAID/DAKAR/SENEGAL

FIGURE: GA0309

CHEMISTRY ANALYSIS

PROJECT: OMVS/USAID
LOCATION: KAEDI 1A

FILE: 625-0958

WELL NO.: GR0355 21/04/88

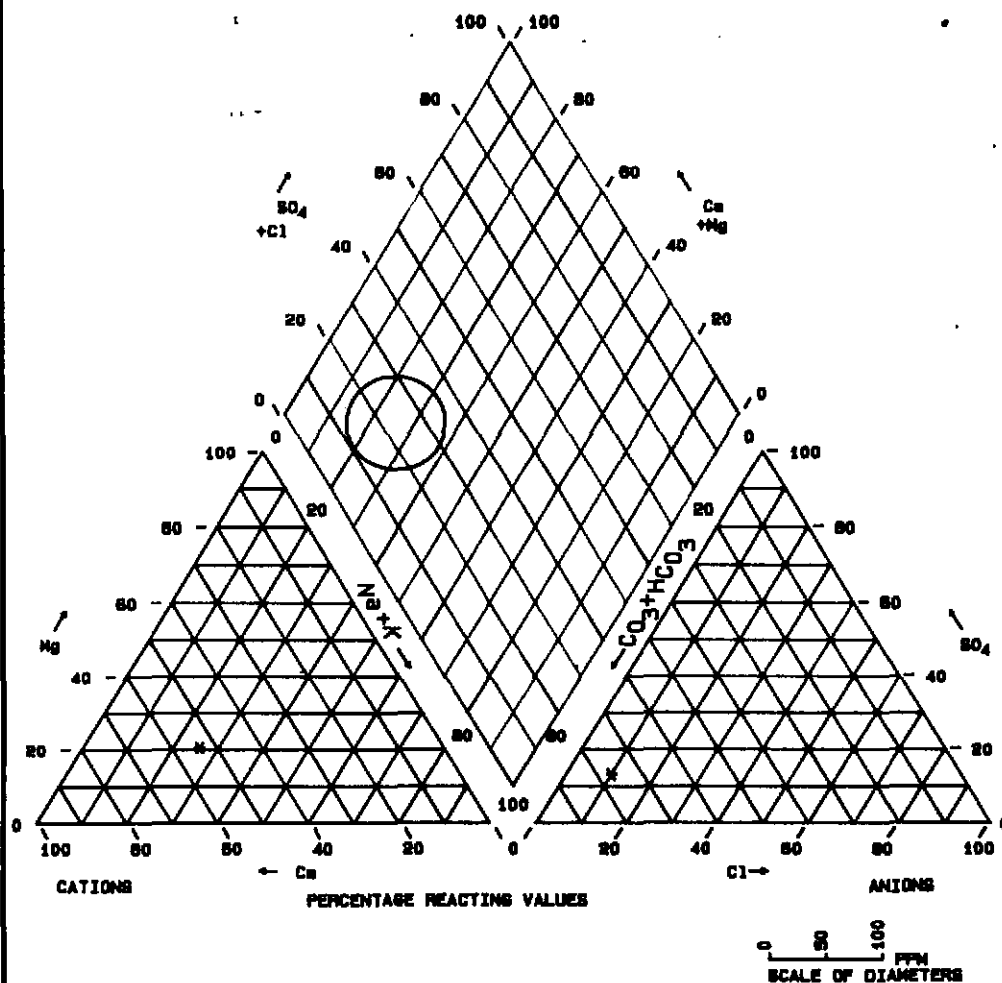
CATIONS	PPM	EPM	% EPM
Ca	57.00	2.84	47.30
Mg	24.00	1.97	32.83
Na+K	32.00	1.19	19.87

ANIONS	PPM	EPM	% EPM
HCO3+CO3	214.00	3.51	61.01
SO4	86.00	1.79	31.14
Cl	16.00	0.45	7.85

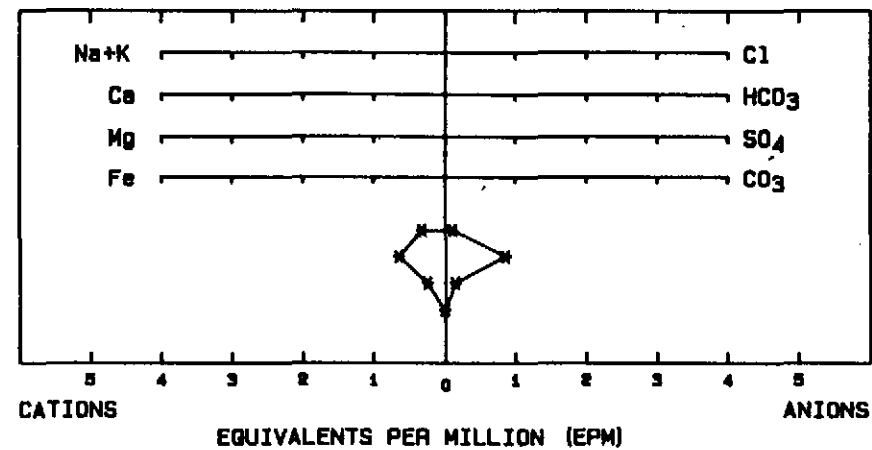
TOTAL DISSOLVED SOLIDS: 362
ERROR IN CATION/ANION BALANCE: 2.27 %
SODIUM ABSORPTION RATION (S.A.R.): 0.59

USAID/DAKAR/SENEGAL

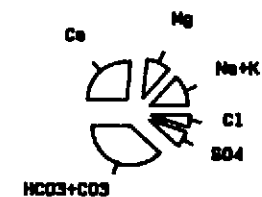
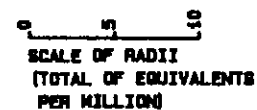
PIPER TRILINEAR DIAGRAM



STIFF GRAPH



PIE DIAGRAM



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

PROJECT: OMVS/USAID
FILE: 625-0958
LOCATION: KAEDI 1A

SAMPLE: GB0357 21/04/88

CHEMICAL GRAPHS

USAID/DAKAR/SENEGAL

FIGURE: GB0357

CHEMISTRY ANALYSIS

PROJECT: OMVS/USAID
LOCATION: KAEDI 1A

FILE: 625-0958

WELL NO.: GB0357 21/04/88

CATIONS	PPM	EPM	% EPM
Ca	13.00	0.65	53.72
Mg	3.00	0.25	20.43
Na+K	8.00	0.31	25.85

ANIONS	PPM	EPM	% EPM
HCO3+CO3	52.00	0.85	76.73
SO4	7.00	0.15	13.12
Cl	4.00	0.11	10.15

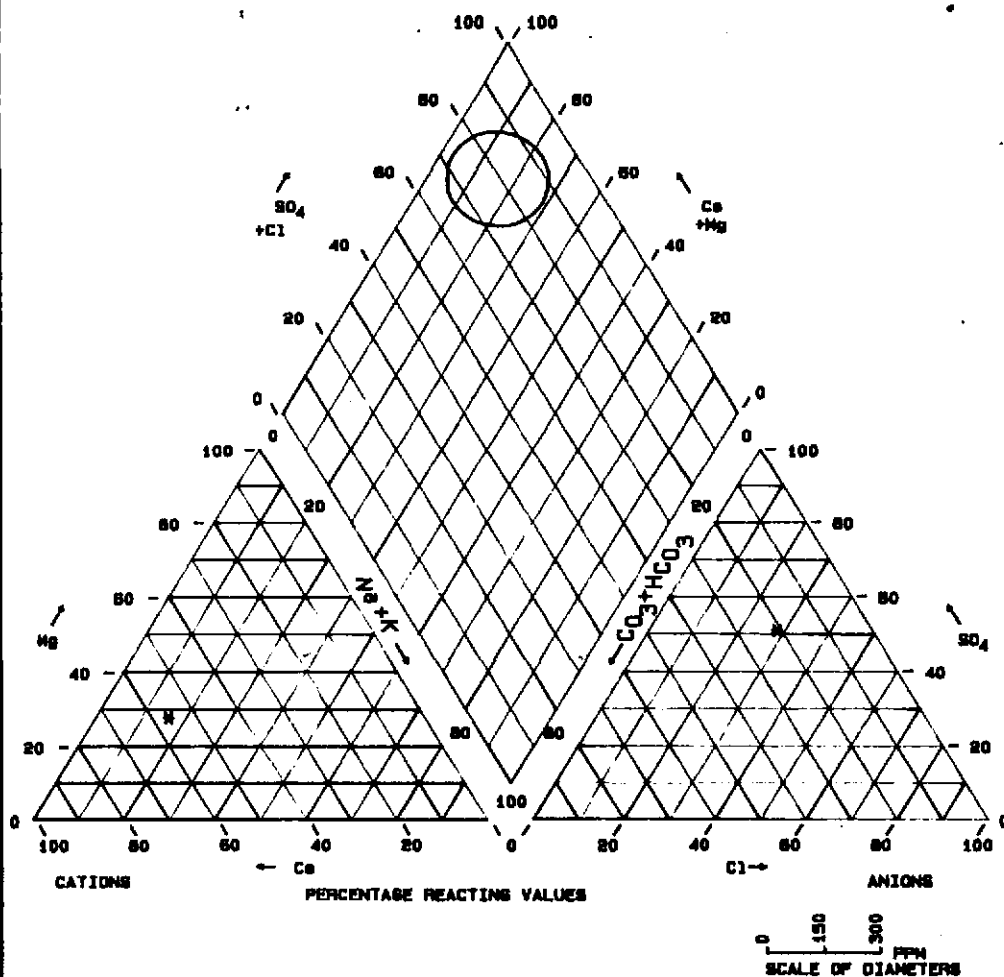
TOTAL DISSOLVED SOLIDS: 65

ERROR IN CATION/ANION BALANCE: 4.20 %

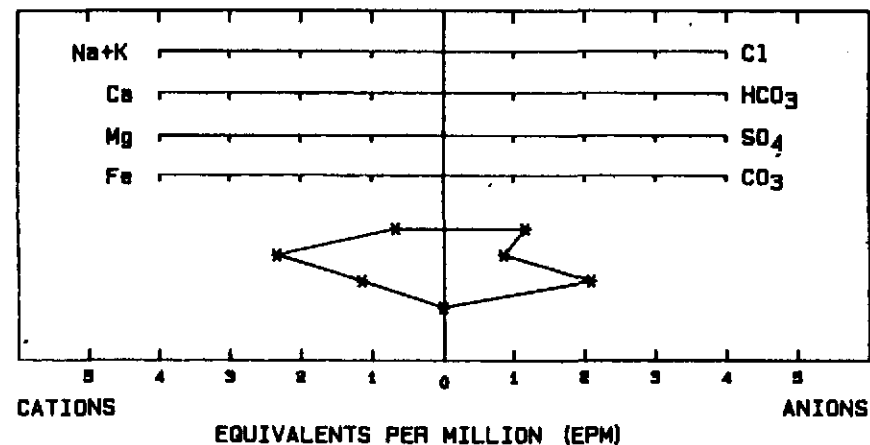
SODIUM ABSORPTION RATION (S.A.R.): 0.39

USAID/DAKAR/SENEGAL

PIPER TRILINEAR DIAGRAM

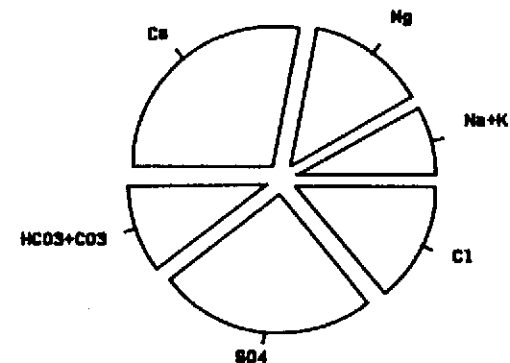


STIFF GRAPH



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 1A

SAMPLE: GB0367 21/04/88

CHEMICAL GRAPHS

USAID/DAKAR/SENEGAL

FIGURE: GB0367

CHEMISTRY ANALYSIS

PROJECT: OMVS/USAID
LOCATION: KAEDI 1A

FILE: 625-0958

WELL NO.: GR0367 21/04/88

CATIONS	PPM	EPM	% EPM
Ca	47.00	2.35	56.21
Mg	14.00	1.15	27.60
Na+K	18.00	0.68	16.19

ANIONS	PPM	EPM	% EPM
HCO3+CO3	52.00	0.85	20.84
SO4	100.00	2.08	50.90
Cl	41.00	1.16	28.27

TOTAL DISSOLVED SOLIDS: 228

ERROR IN CATION/ANION BALANCE: 1.04 %

SODIUM ABSORPTION RATION (S.A.R.): 0.39

USAID/DAKAR/SENEGAL

