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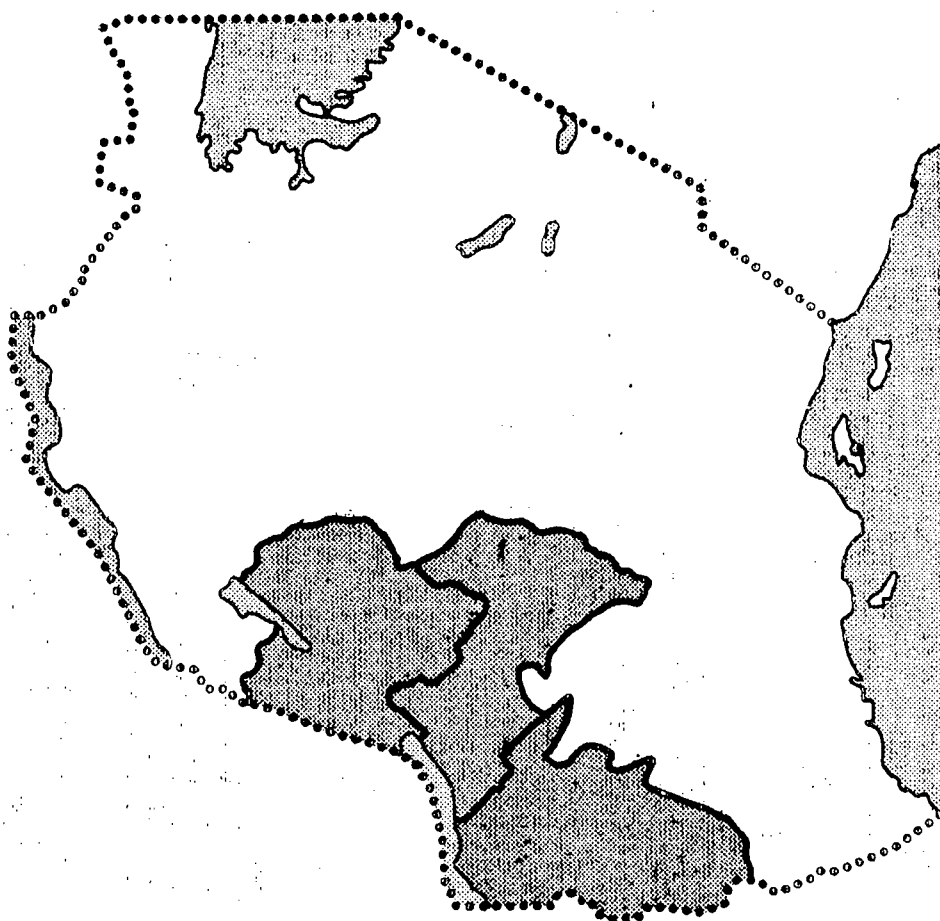
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WATER MASTER PLANS FOR IRINGA, RUVUMA AND MBEYA REGIONS

HYDROGEOLOGIC DATA,
BOREHOLE DATA
VOLUME 10B

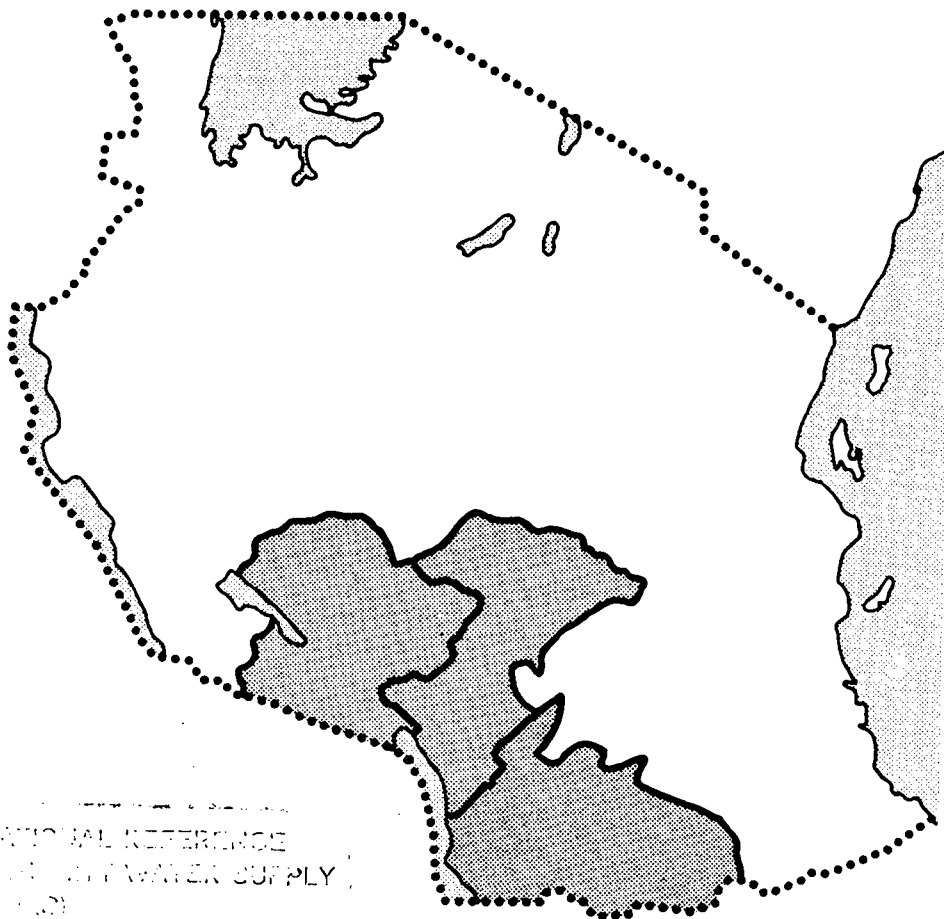


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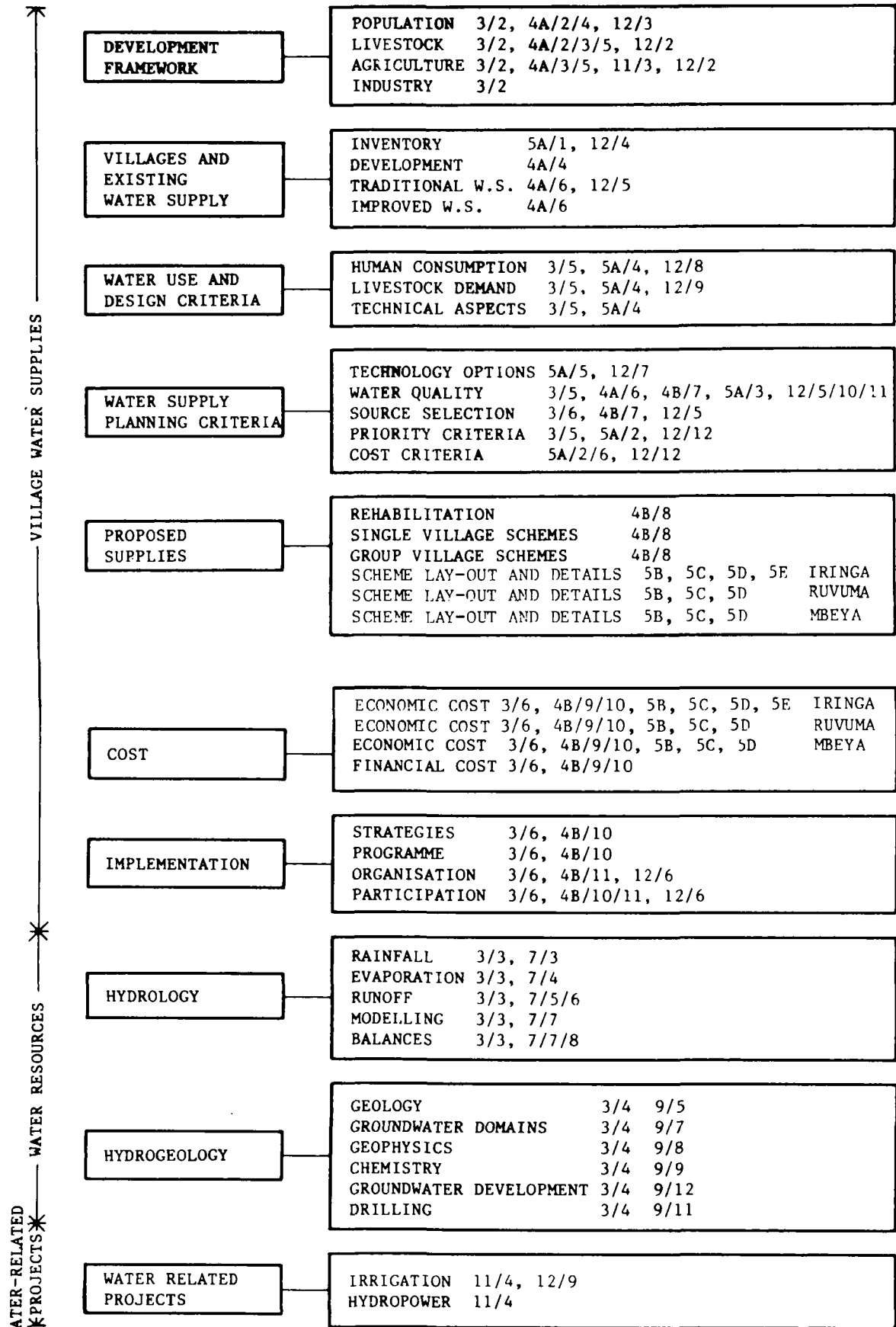
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DANISH INTERNATIONAL REFERENCE
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GUIDE TO WATER MASTER PLANS FOR IRINGA, RUVUMA AND MBEYA



NOTES

THE CHAPTERS REFERRED TO ARE THOSE WHERE THE MAIN DESCRIPTIONS APPEAR.
THE REFERENCE CODE 5A/6 MEANS, VOLUME 5A, CHAPTER 6.

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Iringa

Ruvuma

Mbeya

APPENDIX 2

Borehole location records.

Iringa

Ruvuma

Mbeya

APPENDIX 3

Chemical analyses.

Iringa

Ruvuma

Mbeya

Appendix 1

Borehole Completion records.

IRINGA

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REG. IRINGA DIST.		BH NO. 22/55 CCKK NO.	
COORDINATES: 7°40.3'S; 35°45.3'E		ELEVATION: m.asl	MAP NO.
COMPLETION DATE: 10.7.55		DRILL. METHOD:	Q.D.S. 197
DRILLER/ORGANIZATION:		DRILL UNIT NO.	
CLIENT: PUBLIC WORKS DEPARTMENT			
FORMATION DESCRIPTION		DATE	
BY			
Red sandy clay			
Reddish clay			
Weathered granite			
Slightly weathered granite			
Fractured granite			
DEPTH M	SYM-BOL		
0-1.5	Cs		
3.0	C		
12.2	Pw		
42.7	Pw		
96.0	Pj		
AQUIFER		Granite jointed	
REMARKS			
CONSTRUCTION DETAILS			
DRILLED DEPTH	96.0 M	COMPL. DEPTH	96.0 M
DRILLED DIAM.	MM	FROM	TO
200	0	44.2	
165	44.2	95.9	
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM.	MM	PLAN	PERFORATED
CLASS	200	FROM	TO
		0	10.0
SCREENING			
INTERNAL DIAM.	MM	SLOT SIZE	FROM TO
GRAVEL PACK	MM	FROM M	TO M
WATER			
WATER STRUCK	46.6		MBG
STANDING WATER LEVEL	44.8		MBG
TEST YIELD M ³ /HR	MAX	STEADY	1.65
MAXIMUM DRAWD.	M	DURATION TEST	2040 MIN
T (M ² /SEC)		r ² ws (M ²)	
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT			MBG
APPARENT QUALITY OF WATER			
WATER ANALYSIS	P	C	X
			B
WATER TEMPERATURE	°C	DATE, WRITTEN BY 27.5.83; F.M.	

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REGION IRINGA DIST. ISMANI				BH NO. 24/55 CCKK NO.	
COORDINATES: 7°27.2'S; 35°50.7'E app. ELEVATION: m.asl				MAP NO.	
COMPLETION DATE: 10.8.55 DRILL. METHOD:				Q.D.S. 197	
DRILLER/ORGANIZATION:			DRILL UNIT NO.		
CLIENT: NATIVE AUTHORITY					
CONSTRUCTION DETAILS		DEPTH M	SYM- BOL	FORMATION BY	DESCRIPTION DATE
DRILLED DEPTH 60.9 M	COMPL. DEPTH 60.9 M	7.9	C	grey clay and boulders	
DRILLED DIAM. 200	FROM 0 TO 60.9	11	R	quartz and decomposed rock	
DETAILS OF CASING LEFT IN BOREHOLE		16.1	Rf	hard rock	
INTERNAL DIAM. 200	PLAN FROM 0 TO 9.7	22.8	Rw	grey clay and rock	
CLASS	PERFORATED FROM TO	54.8	R	dark rock, conglomerate	
SCREENING		60.9	RC	grey clay and stones	
INTERNAL DIAM. MM	SLOT SIZE	AQUIFER Fractured granite and granite gneiss			
TYPE	FROM TO				
GRAVEL PACK MM	FROM M TO M	REMARKS			
WATER					
WATER STRUCK 4.61; 8.5; 54.8	MBG				
STANDING WATER LEVEL 3.7	MBG				
TEST YIELD M ³ /HR MAX	STEADY 6.54				
MAXIMUM DRAWD. 48.2 M	DURATION TEST 1680 MIN				
T (M ² /SEC)	r ² ws (M ²)				
METHOD OF PUMPING					
SUCTION/AIR OUTLET SET AT	MRC				
APPARENT QUALITY OF WATER SALINE					
WATER ANALYSIS P	C X B				
WATER TEMPERATURE	°C	DATE, WRITTEN BY 27.5.81; F.M.			

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REGION,		UKANINEMO		BH NO. 38/57
COORDINATES:		ELEVATION:	m.asl	
COMPLETION DATE: 14.12.57		DRILL. METHOD:		
DRILLER/ORGANIZATION:		DRILL UNIT NO.		
CLIENT: NATIVE AUTHORITY				
CONSTRUCTION DETAILS		DEPTH M	FORMATION BY	DESCRIPTION DATE
DRILLED DEPTH 87.1 M	COMPL. DEPTH 87.1 M			
DRILLED DIAM. MM	FROM TO			
DETAILS OF CASING LEFT IN BOREHOLE				
INTERNAL DIAM. MM	PLAN FROM TO	PERFORATED FROM TO		
CLASS				
SCREENING				
INTERNAL DIAM. MM	SLOT SIZE	FROM TO		
TYPE				
GRAVEL PACK MM	FROM M TO M			
WATER				
WATER STRUCK 87.1				MBG
STANDING WATER LEVEL	39.6			MBG
TEST YIELD M ³ /HR MAX		STEADY TEST	1.36	MIN
MAXIMUM DRAWD. M		DURATION TEST		
T (M ² /SEC)		r ² ws (M ²)		
METHOD OF PUMPING				
SUCTION/AIR OUTLET SET AT				MBG
APPARENT QUALITY OF WATER				
WATER ANALYSIS	P	C	X	B
WATER TEMPERATURE		°C		DATE, WRITTEN BY 27.5.81, FM.
AQUIFER		Jointed granite		
REMARKS		Intrusion of sand for larger yields		

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REG. NJOMBE DISTR. ILEMBULA Swedish Lutheran Mission Hospital						BH NO. 5/58 CCKK NO.	
COORDINATES: 8° 53.7'S., 34° 34.4'E				ELEVATION: m.asl		MAP NO.	
COMPLETION DATE: 18.10.58				DRILL. METHOD:		Q.D.S. 247	
DRILLER/ORGANIZATION:				DRILL UNIT NO.			
CLIENT: LUTHERAN CHURCH							
CONSTRUCTION DETAILS		DEPTH M		SYM-BOL		FORMATION DESCRIPTION DATE	
DRILLED DEPTH 17.4 M	COMPL. DEPTH 17.4 M	0 - 3.7	S	Yellowish sand			
DRILLED DIAM. 200	FROM 0 TO 17.4	5.5	Pw	Weathered granite			
		10.7	Pw	Medium weathered granite			
		13.7	Pw	Slightly weathered granite			
DETAILS OF CASING LEFT IN BOREHOLE		AQUIFER		Weathered granite			
INTERNAL DIAM. MM	PLAN FROM TO	PERFORATED FROM TO					
CLASS 200	0 12.3						
SCREENING							
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO				
GRAVEL PACK MM	FROM M TO M						
WATER							
WATER STRUCK 7.0				MBG			
STANDING WATER LEVEL 6.1				MBG			
TEST YIELD M ³ /HR MAX	STEADY 6.81						
MAXIMUM DRAWD. M	DURATION TEST	MIN					
T (M ² /SEC)	r ² wS (M ²)						
METHOD OF PUMPING		REMARKS					
SUCTION/AIR OUTLET SET AT		MBG					
APPARENT QUALITY OF WATER		SALINE					
WATER ANALYSIS P	C X B						
WATER TEMPERATURE °C	DATE, WRITTEN BY 27.5.81; F.M.						

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA RES. IRINGA DIST. WANG'N'COMBE I		BH NO. 49/68 CCKK NO.	
COORDINATES: 8°50.7'S; 34°39.8'E		ELEVATION: m.asl	MAP NO.
COMPLETION DATE:		DRILL. METHOD:	Q.D.S. 247
DRILLER/ORGANIZATION: MAJI		DRILL UNIT NO.	
CLIENT: R.W.E.			
FORMATION DESCRIPTION DATE		SYMBOL	
Top soil		7	
Sand and gravel		5g	
Weathered pegmatite granite		Pwp	
Fresh pegmatite		Pp	
Fresh granite		Pf	
Alteration of pegmatite & granite		Pf	
DEPTH M		AQUIFER	
0 - 1.5		Weathered granite & pegmatite	
9.8		REMARKS	
28.0			
29.0			
101.0			
150			
CONSTRUCTION DETAILS			
DRILLED DEPTH 150 M	COMPL. DEPTH 150 M		
DRILLED DIAM. MM	FROM TO		
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. MM	PLAN FROM TO	PERFORATED FROM TO	
CLASS			
SCREENING			
INTERNAL DIAM. MM	SLOT SIZE	FROM TO	
GRAVEL PACK MM	FROM M TO M		
WATER			
WATER STRUCK 16 ; 104			MBG
STANDING WATER LEVEL 5			MBG
TEST YIELD M ³ /HR MAX	STEADY	4.67	
MAXIMUM DRAWD. M	DURATION TEST	MIN	
T (M ² /SEC)	r ² ws (M ²)		
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT			MBG
APPARENT QUALITY OF WATER			
WATER ANALYSIS P	C	X	B
WATER TEMPERATURE °C	DATE, WRITTEN BY 27.5.81, C.M.		

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REGION NATIONAL PRODUCT BOARD		BH NO. 95/69 CCKK NO.	
COORDINATES:		ELEVATION: m.asl	MAP NO.
COMPLETION DATE:		DRILL. METHOD:	
DRILLER/ORGANIZATION:		DRILL UNIT NO.	
CLIENT: NATIONAL PRODUCT BOARD			

DEPTH M	SYM- BOL	FORMATION BY	DESCRIPTION DATE

CONSTRUCTION DETAILS		COMPL. DEPTH M	
DRILLED DEPTH M	DRILLED DIAM. MM	FROM	TO
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. MM	PLAN FROM	PERFORATED FROM	TO
SCREENING			
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO
GRAVEL PACK MM	FROM	M	TO
WATER			
WATER STRUCK MBG			
STANDING WATER LEVEL MBG			
TEST YIELD M ³ /HR	MAX	STEADY	MIN
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT MBG			
APPARENT QUALITY OF WATER			
WATER ANALYSIS	P	C	B
WATER TEMPERATURE °C		DATE, WRITTEN BY	

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REG.	KENCEZA VILL.	BH NO. 73/72 CCKK NO.
COORDINATES: 7°15'00" S 35°44' E	ELEVATION: m.asl	MAP NO.
COMPLETION DATE:	DRILL. METHOD:	QDS 215
DRILLER/ORGANIZATION:	DRILL UNIT NO.	
CLIENT:		

DEPTH M	SYM- BOL	FORMATION BY	DESCRIPTION DATE
0 - 2.7	C	Black clay	
8.2	T	White soil	
9.1	T	Green	
13.7	T	White soil	
16.8	R	Hard stone	

CONSTRUCTION DETAILS		COMPL. DEPTH 16.8 M	
DRILLED DEPTH 16.8 M	FROM	TO	16.8 M
DRILLED DIAM. 200 MM	0	11	
	150	16.8	
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. MM	PLAN	PERFORATED	
CLASS	FROM TO	FROM TO	
SCREENING			
INTERNAL DIAM. MM	SLOT SIZE	FROM TO	
GRAVEL PACK MM	FROM M TO M		
WATER			
WATER STRUCK 3		MBG	
STANDING WATER LEVEL		MBG	
TEST YIELD M ³ /HR MAX		STEADY	
MAXIMUM DRAWD. M		DURATION TEST	MIN
T (M ² /SEC)		r ² ws (M ²)	
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT			MBG
APPARENT QUALITY OF WATER			
WATER ANALYSIS P	C	X	B
WATER TEMPERATURE °C			DATE, WRITTEN BY

AQUIFER
Black and white soil

REMARKS

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REGION				IKENGEZA VILL.		BH NO. 73/72 A CCKK NO.	
COORDINATES: 7°30'S ; 35°44'E				ELEVATION: m.asl		MAP NO.	
COMPLETION DATE:				DRILL. METHOD:		2/5	
DRILLER/ORGANIZATION:				DRILL UNIT NO.			
CLIENT:							
CONSTRUCTION DETAILS		DEPTH M		SYM-BOL		FORMATION DESCRIPTION	
DRILLED DEPTH 6.1 M	COMPL. DEPTH 6.1 M	0 - 2	T	Brown soil			
DRILLED DIAM. MM	FROM TO	2 - 6	C	Sandy clay			
DETAILS OF CASING LEFT IN BOREHOLE							
INTERNAL DIAM. MM	PLAN FROM TO	PERFORATED FROM TO					
CLASS							
SCREENING							
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO				
GRAVEL PACK MM	FROM	M	TO	M			
WATER							
WATER STRUCK							
STANDING WATER LEVEL							
TEST YIELD M ³ /HR	MAX	STEADY					
MAXIMUM DRAWD. M	DURATION TEST	MIN					
T (M ² /SEC)	r ² ws (M ²)						
METHOD OF PUMPING							
SUCTION/AIR OUTLET SET AT	MBG						
APPARENT QUALITY OF WATER							
WATER ANALYSIS	P	C	B				
WATER TEMPERATURE	°C	DATE, WRITTEN BY					

AQUIFER

REMARKS

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REGION		MSETE VILL		BH NO. 77/72 CCKK NO.	
COORDINATES:		ELEVATION: m.asl		MAP NO.	
COMPLETION DATE:		DRILL. METHOD:			
DRILLER/ORGANIZATION:			DRILL UNIT NO.		
CLIENT:					
CONSTRUCTION DETAILS		DEPTH M		FORMATION DESCRIPTION DATE	
DRILLED DEPTH M	COMPL. DEPTH M				
DRILLED DIAM. MM	FROM TO				
DETAILS OF CASING LEFT IN BOREHOLE					
INTERNAL DIAM. MM	PLAN FROM TO	PERFORATED FROM TO			
CLASS					
SCREENING					
INTERNAL DIAM. MM	SLOT SIZE	FROM TO			
TYPE					
GRAVEL PACK MM	FROM TO	M TO M			
WATER					
WATER STRUCK				MBG	
STANDING WATER LEVEL				MBG	
TEST YIELD M ³ /HR MAX	STEADY				
MAXIMUM DRAWD. M	DURATION TEST	MIN			
T (M ² /SEC)	r ² ws (M ²)				
METHOD OF PUMPING					
SUCTION/AIR OUTLET SET AT				MBG	
APPARENT QUALITY OF WATER					
WATER ANALYSIS	P	C	B		
WATER TEMPERATURE	°C	DATE, WRITTEN BY			
SYMBOL		AQUIFER		REMARKS	

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REG., NJOMBE DISTRICT; MAKAMBAKO						BH NO. 99/72 CCKK NO.	
COORDINATES: 2°46'S ; 24°45.5'E ELEVATION: m.asl						MAP NO.	
COMPLETION DATE:				DRILL. METHOD:		Q.D.S. 247	
DRILLER/ORGANIZATION: MAJI				DRILL UNIT NO.			
CLIENT: R.W.E.							

CONSTRUCTION DETAILS				DEPTH M	SYM- BOL	FORMATION DESCRIPTION BY Driller	
DRILLED DEPTH	15.2 M	COMPL. DEPTH	15.2 M	0 - 7.6	C	Whitish clay with bands of sand, fine to coarse Yellowish clay Grey clay Sand Granitic	
DRILLED DIAM.	MM	FROM	TO				
	200	0	5.5	9.1			
	153	5.5					
DETAILS OF CASING LEFT IN BOREHOLE							
INTERNAL DIAM.	MM	PLAN	PERFORATED				
CLASS		FROM	TO	FROM	TO		
		200	0	5.5			
		150	5.5	9.1			
SCREENING							
INTERNAL DIAM.	MM	SLOT SIZE	FROM	TO			
TYPE							
GRAVEL PACK	MM	FROM	M	TO	M		
WATER							
WATER STRUCK	6.1						
STANDING WATER LEVEL	1.8						
TEST YIELD M ³ /HR	MAX						
MAXIMUM DRAWD.	3.4 M	DURATION TEST	MIN				
T (M ² /SEC)		T ² WS (M ²)					
METHOD OF PUMPING HAND PUMP							
SUCTION/AIR OUTLET SET AT							
APPEARANT QUALITY OF WATER GOOD							
WATER ANALYSIS	P	C	B				
WATER TEMPERATURE	°C	DATE, WRITTEN BY	27.5.81,	F.M.			

AQUIFER		Fine to coarse sand	
REMARKS		Good water to taste	

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REGION		NJOMBE DISTRICT		MAKAMBAKO		BH NO. 99172A		CCKK NO.																																																																																																																																																																																																																			
COORDINATES: 25°10' S		34°00' E		ELEVATION: m.asl		MAP NO.																																																																																																																																																																																																																					
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REMARKS																																																																																																																																																																																																																											

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REGION, IRINGA DISTR. MAPINDUZI II		BH NO. 147/72 CCKK NO.	
COORDINATES: 9°55'S; 34°42'E		ELEVATION: m.asl	MAP NO.
COMPLETION DATE: 17.4.72		DRILL. METHOD: QDS 274	
DRILLER/ORGANIZATION: MAJI		DRILL UNIT NO.	
CLIENT: R.W.E.			
CONSTRUCTION DETAILS		DEPTH M	FORMATION DESCRIPTION
DRILLED DEPTH 16.2 M	COMPL. DEPTH 16.2 M	0 - 0.3	Top soil
DRILLED DIAM. MM	FROM TO	137	Fine to coarse sand with gravel
		162	Greenish clay
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. MM	PLAN FROM TO	PERFORATED FROM TO	
CLASS			
SCREENING			
INTERNAL DIAM. MM	SLOT SIZE	FROM TO	
GRAVEL PACK	MM	FROM TO	
WATER			
WATER STRUCK			
STANDING WATER LEVEL	2.4	MBG	
TEST YIELD M ³ /HR MAX	—	STEADY 2.7	
MAXIMUM DRAWD. 2.4 M	DURATION TEST	MIN	
T (M ² /SEC)	Y ² WS (M ²)		
METHOD OF PUMPING HAND PUMP			
SUCTION/AIR OUTLET SET AT	4.9	MBG	
APPARENT QUALITY OF WATER			
WATER ANALYSIS	P	C	B
WATER TEMPERATURE	°C	DATE, WRITTEN BY 27.5.81, F.M.	

AQUIFER
Sand and gravel

REMARKS

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REGION, MALINDI VILLAGE		BH NO. 123/78	
COORDINATES:		ELEVATION: m. asl	MAP NO.
COMPLETION DATE:		DRILL. METHOD:	
DRILLER/ORGANIZATION:		DRILL UNIT NO.	
CLIENT:			
DEPTH M	SYM- BOL	FORMATION	DESCRIPTION DATE
AQUIFER			
REMARKS			
CONSTRUCTION DETAILS			
DRILLED DEPTH	91 M	COMPL. DEPTH	91 M
DRILLED DIAM.	MM	FROM	TO
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. CLASS	MM	PLAN FROM	PERFORATED FROM TO
SCREENING			
INTERNAL DIAM. TYPE	MM	SLOT SIZE	FROM TO
GRAVEL PACK	MM	FROM	M TO M
WATER			
WATER STRUCK MBG			
STANDING WATER LEVEL MBG			
TEST YIELD M ³ /HR	MAX	STEADY	
MAXIMUM DRAWD.	M	DURATION TEST	MIN
T (M ² /SEC)		r ² wS (M ²)	
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT MBG			
APPARENT QUALITY OF WATER			
WATER ANALYSIS	P	C	B
WATER TEMPERATURE	°C	DATE, WRITTEN BY	

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REGION,		MAWINDI II		BH NO. 148/72A	
COORDINATES:		ELEVATION: m.asl		MAP NO.	
COMPLETION DATE:		DRILL. METHOD:			
DRILLER/ORGANIZATION:			DRILL UNIT NO.		
CLIENT:					
CONSTRUCTION DETAILS		DEPTH M		SYMBOL	
DRILLED DEPTH 10.7 M	COMPL. DEPTH 10.7 M				
DRILLED DIAM. MM	FROM TO				
DETAILS OF CASING LEFT IN BOREHOLE					
INTERNAL DIAM. MM	PLAN FROM TO	PERFORATED FROM TO			
CLASS					
SCREENING					
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO		
TYPE					
GRAVEL PACK MM	FROM	M	TO	M	
WATER					
WATER STRUCK	MBG				
STANDING WATER LEVEL	MBG				
TEST YIELD M ³ /HR MAX	STEADY				
MAXIMUM DRAWD. M	DURATION TEST	MIN			
T (M ² /SEC)	r ² wS (M ²)				
METHOD OF PUMPING					
SUCTION/AIR OUTLET SET AT MBG					
APPARENT QUALITY OF WATER					
WATER ANALYSIS	P	C	B		
WATER TEMPERATURE	°C	DATE, WRITTEN BY			
FORMATION DESCRIPTION		DEPTH M		SYMBOL	
BY					
DATE					
REMARKS					
AQUIFER					

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REG. NJOMBE DISTR. MAYALE VILLAGE		BH NO. 149/72 CCKK NO.	
COORDINATES: 2°44.5'S 34°25'E		ELEVATION: m. asl	MAP NO.
COMPLETION DATE: 17.10.72		DRILL. METHOD:	QDS 247
DRILLER/ORGANIZATION: MAJI		DRILL UNIT NO.	
CLIENT: R.W.E.			
CONSTRUCTION DETAILS DRILLED DEPTH 15.2 M COMPL. DEPTH 15.2 M DRILLED DIAM. 305 MM FROM 0 TO 12.2 DETAILS OF CASING LEFT IN BOREHOLE INTERNAL DIAM. 200 MM PLAN FROM 0 TO 9.1 PERFORATED FROM TO CLASS PLAIN SCREENING INTERNAL DIAM. 165 MM SLOT SIZE FROM 9.1 TO ? GRAVEL PACK MM FROM M TO M WATER WATER STRUCK 4.5 MBG STANDING WATER LEVEL 2.1 MBG		DEPTH M 0 - 1.5 7.6 10.7 13.7	
SYM-BOL T S C C		FORMATION DESCRIPTION Black soil Sand Clay Greenish clay	
TEST YIELD M ³ /HR MAX — STEADY 3.18 MAXIMUM DRAWD. 4.9 M DURATION TEST MIN T (M ² /SEC) r ² S (M ²)		AQUIFER SAND	
METHOD OF PUMPING HAND PUMP SUCTION/AIR OUTLET SET AT 4.9 MBG APPARENT QUALITY OF WATER WATER ANALYSIS P C X B WATER TEMPERATURE °C DATE, WRITTEN BY 27.5.81; F.M.		REMARKS	

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REG., NJOMBE DIST., MAYALE ũ				BH NO. 149/72A CCKK NO.	
COORDINATES: 2°48'S, 34°20'E			ELEVATION: m.asl		MAP NO.
COMPLETION DATE: 6.10.72			DRILL. METHOD:		Q05 247
DRILLER/ORGANIZATION: MAJI			DRILL UNIT NO.		
CLIENT: R.W.E.					
CONSTRUCTION DETAILS		DEPTH M			
DRILLED DEPTH 13.7 M	COMPL. DEPTH 13.7 M	SYMBOL		DESCRIPTION DATE	
DRILLED DIAM. 150 MM	FROM 0 TO 4.6	T	Black soil		
	4.6 TO 9.1	S	Sand		
		C	Greenish clay		
DETAILS OF CASING LEFT IN BOREHOLE		AQUIFER			
INTERNAL DIAM. MM	PLAN FROM TO	REMARKS			
CLASS	PERFORATED FROM TO				
SCREENING					
INTERNAL DIAM. MM	SLOT SIZE FROM TO				
TYPE					
GRAVEL PACK MM	FROM M TO M				
WATER					
WATER STRUCK	MBG				
STANDING WATER LEVEL	MBG				
TEST YIELD M ³ /HR MAX	STEADY				
MAXIMUM DRAWD. M	DURATION TEST MIN				
T (M ² /SEC)	r ² wS (M ²)				
METHOD OF PUMPING HAND PUMP					
SUCTION/AIR OUTLET SET AT					
APPARENT QUALITY OF WATER					
WATER ANALYSIS P	C	B			
WATER TEMPERATURE °C	DATE, WRITTEN BY	27.5.81, C.M			

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REG. IRINGA DISTR. MKULULA VILLAGE				BH NO. 79/73 CCKK NO.	
COORDINATES: 7°12'S, 36°04'E				ELEVATION: m.asl	
COMPLETION DATE: 30.6.73				DRILL. METHOD: 485-198.	
DRILLER/ORGANIZATION: MAJI				DRILL UNIT NO.	
CLIENT: R.W.E.					

DEPTH M	SYM-BOL	FORMATION DESCRIPTION	DATE
0 - 3.0	G	Coarse gravel, red sand	
4.6	G	Gravel with coarse sand	
6.1	S	Coarse sand with gravel	
6.7	C	Micaceous clay	
7.9	S	Coarse sand with gravel	
8.8	C	Clay	

CONSTRUCTION DETAILS		COMPL. DEPTH		PERFORATED	
DRILLED DEPTH	DRILLED DIAM.	MM	MM	FROM	TO
12.2 M	12.2 M				
DETAILS OF CASING LEFT IN BOREHOLE					
INTERNAL DIAM. CLASS	MM	PLAN FROM	TO	PERFORATED FROM	TO
SCREENING					
INTERNAL DIAM. TYPE	MM	SLOT SIZE		FROM	TO
GRAVEL PACK	10 MM	FROM	M	TO	M
WATER					
WATER STRUCK					
STANDING WATER LEVEL					
		3		MBG	MBG
TEST YIELD M ³ /HR MAX					
				STEADY	136
MAXIMUM DRAWD. 3.3 M					
DURATION TEST					
				MIN	
T (M ³ /SEC)					
METHOD OF PUMPING					
HAND PUMP					
SECTION/AIR OUTLET SET AT					
MBG					
APPARENT QUALITY OF WATER					
WATER ANALYSIS		P		C	X
				B	B
WATER TEMPERATURE				°C	
				DATE, WRITTEN BY	27.5.81, E.M.

BOREHOLE COMPLETION RECORD

LOCATION: <i>IRINCA REGION</i>		KITELEHA VILL.		BH NO. <i>154/73</i> CCKK NO.	
COORDINATES:		ELEVATION: <i>m.asl</i>		MAP NO.	
COMPLETION DATE:		DRILL. METHOD:			
DRILLER/ORGANIZATION:			DRILL UNIT NO.		
CLIENT:					
CONSTRUCTION DETAILS		DEPTH M		FORMATION DESCRIPTION DATE	
DRILLED DEPTH <i>16.6</i> M	COMPL. DEPTH <i>16.6</i> M				
DRILLED DIAM. MM	FROM TO				
DETAILS OF CASING LEFT IN BOREHOLE					
INTERNAL DIAM. MM	PLAN FROM TO	PERFORATED FROM TO			
CLASS					
SCREENING					
INTERNAL DIAM. MM	SLOT SIZE FROM TO				
TYPE					
GRAVEL PACK MM	FROM M TO M				
WATER					
WATER STRUCK					
STANDING WATER LEVEL					
TEST YIELD M ³ /HR	MAX	STEADY			
MAXIMUM DRAWD. M	DURATION TEST	MIN			
T (M ² /SEC)		$r^2_w S (M^2)$			
METHOD OF PUMPING					
SUCTION/AIR OUTLET SET AT					MBG
APPARENT QUALITY OF WATER					
WATER ANALYSIS	P	C	B		
WATER TEMPERATURE	°C	DATE, WRITTEN BY			
AQUIFER		REMARKS			

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REGION		MUFINDI DISTRICT; ICOWELO VILL.		BH NO. 5/74 CCKK NO.	
COORDINATES: 28°34.1'S; 35°12.3'E Appr				ELEVATION: m. asl	
COMPLETION DATE: 14.2.74		DRILL. METHOD:		MAP NO. O.D.S. 248	
DRILLER/ORGANIZATION: MAJI			DRILL UNIT NO.		
CLIENT: R.W.E.					
CONSTRUCTION DETAILS		DEPTH M		SYMBOL	
DRILLED DEPTH 18.3 M	COMPL. DEPTH 18.3 M	0 - 1.5	C	FORMATION DESCRIPTION DATE	
DRILLED DIAM. 200 MM	FROM 0 TO 13.7	6.7	C	Black clay	
		12.5	C	Brown clay	
		15.2	C	No samples	
		16.8	C	Brown clay	
		18.3	S	Whitish clay	
DETAILS OF CASING LEFT IN BOREHOLE					
INTERNAL DIAM. 200 MM	PLAN FROM 0 TO 13.7	PERFORATED FROM TO			
CLASS					
SCREENING					
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO		
GRAVEL PACK MM	FROM M	TO M			
WATER					
WATER STRUCK 6.6			MBG		
STANDING WATER LEVEL 0.5			MBG		
TEST YIELD M ³ /HR MAX	STEADY 4.1				
MAXIMUM DRAWD. 18.3 M	DURATION TEST	MIN			
T (M ² /SEC)	I ² WS (M ²)				
METHOD OF PUMPING HAND PUMP		AQUIFER Sand			
SUCTION/AIR OUTLET SET AT 18.3		REMARKS			
APPARENT QUALITY OF WATER very good		Very good water to taste			
WATER ANALYSIS P	C X B				
WATER TEMPERATURE °C	DATE, WRITTEN BY 27.5.81; F.M.				

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REGION, MAKAMBAGO, NJOMBE DISTRICT						BH NO. 72/74 CCKK NO.	
COORDINATES:				ELEVATION: m.asl		MAP NO.	
COMPLETION DATE:				DRILL. METHOD:		Q.D.S. 247	
DRILLER/ORGANIZATION:				DRILL UNIT NO.			
CLIENT:							
CONSTRUCTION DETAILS		DEPTH M		FORMATION BY		DESCRIPTION DATE	
DRILLED DEPTH M	COMPL. DEPTH M						
DRILLED DIAM. MM	FROM TO						
DETAILS OF CASING LEFT IN BOREHOLE							
INTERNAL DIAM. MM	PLAN FROM TO	PERFORATED FROM TO					
CLASS							
SCREENING							
INTERNAL DIAM. MM	SLOT SIZE	FROM TO					
TYPE							
GRAVEL PACK MM	FROM M TO M						
WATER							
WATER STRUCK							
STANDING WATER LEVEL							
TEST YIELD M ³ /HR	MAX	STEADY					
MAXIMUM DRAWD. M	DURATION TEST	MIN					
T (M ² /SEC)		r ² ws (M ²)					
METHOD OF PUMPING							
SUCTION/AIR OUTLET SET AT		MBG					
APPARENT QUALITY OF WATER							
WATER ANALYSIS	P	C	B				
WATER TEMPERATURE	°C	DATE, WRITTEN BY					
		REMARKS Similar number in Tabora Region					

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REGION ; IRINGA DISTRICT, CHAMDINI VILLAGE						BH NO. 108/74 CCKK NO.																																																																																																																																																																																																	
COORDINATES:				ELEVATION: m.asl		MAP NO.																																																																																																																																																																																																	
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WATER TEMPERATURE		°C					DATE, WRITTEN BY																																																																																																																																																																																																

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA		IKUKA VILLAGE		BH NO. 148/75	
COORDINATES:		ELEVATION: m.asl		CCKK NO.	
COMPLETION DATE:		DRILL. METHOD:		MAP NO.	
DRILLER/ORGANIZATION:			DRILL UNIT NO.		
CLIENT:					
DEPTH M		SYM-BOL		FORMATION DESCRIPTION DATE	
AQUIFER					
REMARKS					
CONSTRUCTION DETAILS					
DRILLED DEPTH	M	COMPL. DEPTH	M		
DRILLED DIAM.	MM	FROM	TO		
DETAILS OF CASING LEFT IN BOREHOLE					
INTERNAL DIAM.	MM	PLAN	PERFORATED		
CLASS		FROM	FROM	TO	TO
SCREENING					
INTERNAL DIAM.	MM	SLOT SIZE	FROM	TO	TO
GRAVEL PACK					
	MM	FROM	M	TO	M
WATER					
WATER STRUCK					
STANDING WATER LEVEL					
		MBG		MBG	
TEST YIELD M ³ /HR MAX					
		STEADY			
MAXIMUM DRAWD.					
M	DURATION TEST		MIN		
T (M ² /SEC)					
		r ² ws (M ²)			
METHOD OF PUMPING					
SUCTION/AIR OUTLET SET AT					
		MBG		MBG	
APPARENT QUALITY OF WATER					
WATER ANALYSIS		P	C	B	B
WATER TEMPERATURE		°C	DATE, WRITTEN BY		

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REC. IRINGA DISTR. CHAMDINDI VILLAGE	BH NO. 13/76 CCKK NO.
COORDINATES: 7°27'1" S ; 35°43'3" E ELEVATION: m.asl	MAP NO.
COMPLETION DATE: 4.2.76 DRILL. METHOD:	Q.S.S. 197
DRILLER/ORGANIZATION: MAJ	DRILL UNIT NO.
CLIENT: R.W.E.	

DEPTH M	SYM- BOL	FORMATION DESCRIPTION BY DRILLER DATE
0-15.2	C	Clay Weathered granite Pegmatite
30.5	Pw	
130.4	Pp	
AQUIFER Fractured pegmatite		
REMARKS T.C. sec. w. wooden plug		

CONSTRUCTION DETAILS			
DRILLED DEPTH 130.4 M	COMPL. DEPTH 130.4 M	FROM	TO
DRILLED DIAM. MM		0	13.7
270		13.7	130.4
165			
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. MM	PLAN	PERFORATED	
CLASS	FROM TO	FROM TO	
P.V.C. 200	-0.3 13.4		
SCREENING			
INTERNAL DIAM. MM	SLOT SIZE	FROM TO	
GRAVEL PACK MM	FROM M TO M		
WATER			
WATER STRUCK 55			MBG
STANDING WATER LEVEL 63.6			MBG
TEST YIELD M ³ /HR MAX 3.63	STEADY 0.68		
MAXIMUM DRAWD. 14.0 M	DURATION TEST 360 MIN		
T (M ² /SEC) 2.4 x 10 ⁻⁶	r ² WS (M ²) 0.0073		
METHOD OF PUMPING AIR LIFT			
SUCTION/AIR OUTLET SET AT 118.8			MBG
APPARENT QUALITY OF WATER			
WATER ANALYSIS P	C	B	
WATER TEMPERATURE °C	DATE, WRITTEN BY 27.5.81; F.M.		

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REC, IRINGA DIST, IKENZEZA VILL.				BH NO. 14/76 CCKK NO.	
COORDINATES: 7°23.2' S, 35°42.7' E			ELEVATION: m.asl		MAP NO.
COMPLETION DATE: 19.2.76			DRILL. METHOD:		Q.D.S. 197
DRILLER/ORGANIZATION: MAJI			DRILL UNIT NO.		
CLIENT: R.W.E.					
CONSTRUCTION DETAILS		DEPTH M		SYMBOL	
DRILLED DEPTH 90.9 M	COMPL. DEPTH 90.9 M	0 - 3.0	T	FORMATION DESCRIPTION BY DRILLER DATE	
DRILLED DIAM. 200 MM	FROM 0 TO 24.4	4.6	CG	Top soil	
152	24.4 TO 30.5	19.8	G	Clay with gravel	
		36.6	Rw	Gravel with sand	
		90.8	Pp	Weathered granite	
DETAILS OF CASING LEFT IN BOREHOLE				Pegmatitic granite	
INTERNAL DIAM. MM	PLAN FROM TO	PERFORATED FROM TO			
CLASS 200	-0.6 TO 22.2				
SCREENING					
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO		
GRAVEL PACK MM	FROM M	TO M			
WATER					
WATER STRUCK 24.2					
STANDING WATER LEVEL 21.3					
TEST YIELD M ³ /HR MAX 12.3	STEADY 5.9			AQUIFER	
MAXIMUM DRAWD. 24.4 M	DURATION TEST 840 MIN			Weathered granite	
T (M ² /SEC) 3 x 10 ⁻⁵	r ² ws (M ²)			REMARKS	
METHOD OF PUMPING	AIR LIFT			A production borewell	
SUCTION/AIR OUTLET SET AT	MBG			T.C. secured w/steel plug	
APPARENT QUALITY OF WATER					
WATER ANALYSIS P	C X B				
WATER TEMPERATURE °C	DATE, WRITTEN BY 27.5.81; F.M.				

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REG., NJOMBE DISTR., UTIGA VILLAGE ITENGELO, WANGINCOMBE	BH NO. 27/76 CCKK NO.
COORDINATES: _____ ELEVATION: _____ m.asl	MAP NO.
COMPLETION DATE: 23.3.77 DRILL. METHOD: _____	
DRILLER/ORGANIZATION: MAJI	DRILL UNIT NO.
CLIENT: R.W.F.	

DEPTH M	SYM- BOL	FORMATION BY	DESCRIPTION DATE
0	S	Sand mottled	
0-6.1	Sg	Sand and gravel	
9.1	Aw	Weathered granite	
16.8	Pp	Natural granite	
41.1			

CONSTRUCTION DETAILS				COMPL. DEPTH		41.1 M
DRILLED DEPTH	41.1 M	FROM	TO	FROM	TO	
DRILLED DIAM.	MM	0	3.0	3.0	41.1	
	250					
	165	3.0	41.1			
DETAILS OF CASING LEFT IN BOREHOLE						
INTERNAL DIAM.	MM	PLAN	PERFORATED	FROM	TO	
CLASS		FROM	FROM	TO	TO	
SCREENING						
INTERNAL DIAM.	MM	SLOT SIZE		FROM	TO	
TYPE						
GRAVEL PACK	MM	FROM	M	TO	M	
WATER						
WATER STRUCK						MBG
STANDING WATER LEVEL						MBG
TEST YIELD M ³ /HR	MAX	STEADY				
MAXIMUM DRAWD.	M	DURATION TEST		MIN		
T (M ² /SEC)		r ² wS (M ²)				
METHOD OF PUMPING						
SUCTION/AIR OUTLET SET AT MBG						
APPARENT QUALITY OF WATER						
WATER ANALYSIS	P	C	B			
WATER TEMPERATURE	°C	DATE, WRITTEN BY 27.5.81; F.M.				

AQUIFER

REMARKS

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REG. IRINGA DISTRICT; CHAMDINDI VIL.		BH NO. 29/76 CCKK NO.	
COORDINATES: 7°27.1'S; 35°43.3'E		ELEVATION: m.asl	MAP NO.
COMPLETION DATE: 10.2.76		DRILL. METHOD:	Q.D.S. 197
DRILLER/ORGANIZATION: MAJI		DRILL UNIT NO.	
CLIENT: R.W.E.			
CONSTRUCTION DETAILS		DEPTH M	FORMATION DESCRIPTION BY DRILLER DATE
DRILLED DEPTH 90.2 M	COMPL. DEPTH 90.2 M	0 - 4.6	Clay Weathered granite Granite with bands of pegmatite
DRILLED DIAM. MM	FROM TO	16.8	
250	0 4.6	90.0	
152	4.6 89.9		
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. MM	PLAN	PERFORATED	
CLASS	FROM TO	FROM TO	
PL	200 -0.3 4.3		
SCREENING			
INTERNAL DIAM. MM	SLOT SIZE	FROM TO	
GRAVEL PACK MM	FROM M TO M		
WATER			
WATER STRUCK 57.5			
STANDING WATER LEVEL 45.7			
TEST YIELD M ³ /HR MAX 6.1	STEADY 4.54		
MAXIMUM DRAWD. 21.3 M	DURATION TEST MIN		
T (M ² /SEC) 2.1 x 10 ⁻⁵	r _w S (M ²) 0.021		
METHOD OF PUMPING AIR LIFT		REMARKS	
SUCTION/AIR OUTLET SET AT 85.3	MBG	T.C. secured w. wooden plug	
APPARENT QUALITY OF WATER			
WATER ANALYSIS P	C	B	
WATER TEMPERATURE °C	DATE, WRITTEN BY 27.5.81, F.M.		

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REG. NJOMBE DIST. PALANGAWANDU VIL.		BH NO. 53/76 CCKK NO.	
COORDINATES: 8° 58' 6" S; 34° 35' 1" E		ELEVATION: m.asl	MAP NO.
COMPLETION DATE: 11.8.76		DRILL. METHOD:	Q.O.S 247
DRILLER/ORGANIZATION: MA31		DRILL UNIT NO.	
CLIENT: R.W.E.			
CONSTRUCTION DETAILS		DEPTH M	SYMBOL
DRILLED DEPTH 111.1 M	COMPL. DEPTH 111.1 M	0 - 10.7	C
DRILLED DIAM. MM	FROM TO	16.7	Rw
		31.3	P
		32.0	Rw
		36.5	P
		41.4	Q
		45.7	P
		56.3	Q
		65.5	P
		77.6	V
		88.5	P
		95.9	Q
		111.1	P
DETAILS OF CASING LEFT IN BOREHOLE		FORMATION DESCRIPTION BY DRILLER DATE	
INTERNAL DIAM. MM	PLAN PERFORATED FROM TO	Sticky clay	
CLASS	FROM TO	Weathered rock	
		Granitic rock & quartzitic rock	
		Weathered rock	
		Granite rock	
		Quartzitic rock	
		Granite rock	
		Quartzite	
		Granite rock	
		Lava rock	
		Granite rock	
		Quartzitic rock	
		Granite rock	
SCREENING			
INTERNAL DIAM. MM	SLOT SIZE FROM TO		
GRAVEL PACK MM	FROM M TO M		
WATER			
WATER STRUCK 4.6		AQUIFER	
STANDING WATER LEVEL		Variegated	
TEST YIELD M ³ /HR MAX	STEADY		
MAXIMUM DRAWD. M	DURATION TEST MIN		
T (M ² /SEC)	r ² ws (M ²)		
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT MBG			
APPARENT QUALITY OF WATER GOOD WATER			
WATER ANALYSIS P	C X B		
WATER TEMPERATURE °C	DATE, WRITTEN BY 27.5.01; F.M		
REMARKS			

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REG. NJOMBE DIST UFAMBULI VIL.		BH NO. 54/76 CCKK NO.	
COORDINATES: 8°52.9'S; 34°42.7'E		ELEVATION: m.asl	MAP NO.
COMPLETION DATE: 26.6.76		DRILL. METHOD:	Q.D.S. 247
DRILLER/ORGANIZATION: MAJI		DRILL UNIT NO.	
CLIENT: R.W.E.			
DEPTH M	SYM- BOI	FORMATION DESCRIPTION BY DRILLER DATE	
0 - 1.5	S	Fine sand	
1.5 - 6.1	SG	Sand and gravel	
6.1 - 10.7	CG	clay and gravel	
10.7 - 22.9	Pw	weathered granite	
22.9 - 139.6	Pp	Pegmatitic granite	
AQUIFER			
gravel, weathered granite pegmatite			
REMARKS			
T.C. secured by wooden plug			
CONSTRUCTION DETAILS			
DRILLED DEPTH 139.6 M	COMPL. DEPTH 139.6 M	FROM	TO
DRILLED DIAM. 300	12.8	0	139.6
165	139.6	12.8	
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. MM	PLAN	PERFORATED	
CLASS	FROM	TO	FROM
PLAIN 200	±0	12.8	
SCREENING			
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO
GRAVEL PACK MM	FROM	M	TO
			M
WATER			
WATER STRUCK 4.S;	32.0;	112	MBG
STANDING WATER LEVEL	4.6		MBG
TEST YIELD M ³ /HR	MAX 5.0	STEADY 1.2	
MAXIMUM DRAWD. 99.0 M	DURATION TEST 360 MIN		
T (M ² /SEC) 2 x 10 ⁻⁶	r ² ws (M ²)	0.011	
METHOD OF PUMPING	AIR LIFT		
SUCTION/AIR OUTLET SET AT	115.7		MBG
APPARENT QUALITY OF WATER			
WATER ANALYSIS	P	C	X B
WATER TEMPERATURE	°C	DATE, WRITTEN BY 27.5.80, F.M.	

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REG. NJOMBE DISTRICT IYAYI VILL.						BH NO. 55/76 CCKK NO.	
COORDINATES: 8°52.3'S, 34°32.2'E						ELEVATION: m.asl	
COMPLETION DATE: 12.3.76						DRILL. METHOD: Q.D.S. 249	
DRILLER/ORGANIZATION: MAJI				DRILL UNIT NO.			
CLIENT: R.W.E.							
CONSTRUCTION DETAILS		DEPTH M		SYM-BOL		FORMATION DESCRIPTION	
DRILLED DEPTH 91.4 M	COMPL. DEPTH 91.4 M	0 - 4.6	C	clay			
DRILLED DIAM. 270 MM	FROM 0	4.6 - 21.3	CS	Clay and gravel			
	22.4	21.3 - 39.6	Pw	Weathered granite			
	24.4	39.6 - 91.4	Pp	Pegmatitic granite			
DETAILS OF CASING LEFT IN BOREHOLE							
INTERNAL DIAM. MM	PLAN	PERFORATED					
CLASS P.V.C. 200	FROM TO	FROM TO					
	-0.6 9.3						
SCREENING							
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO				
P.V.C. 200		9.3	22.6				
GRAVEL PACK MM	FROM	M	TO	M			
WATER							
WATER STRUCK 9, 32, 82				MBG			
STANDING WATER LEVEL 3.0				MBG			
TEST YIELD M ³ /HR MAX 24.5	STEADY 9.8						
MAXIMUM DRAWD. 19.8 M	DURATION TEST 720 MIN						
T (M ² /SEC) 6.2 x 10 ⁵	r ² WS (M ²) 0.017						
METHOD OF PUMPING AIR LIFT							
SUCTION/AIR OUTLET SET AT 85.3		MBG					
APPARENT QUALITY OF WATER							
WATER ANALYSIS P	C	X	B				
WATER TEMPERATURE °C	DATE, WRITTEN BY 27.5.82, C.M.						

AQUIFER
Gravel, weathered granite,
pegmatite.

REMARKS
Secured by wooden plug

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA		NJOMBE		HALALI		BH NO. 67/76 CCKK NO.	
COORDINATES: 8°51.7' S; 34°42.9' E				ELEVATION: m.asl		MAP NO.	
COMPLETION DATE: 20.3.76				DRILL. METHOD:		Q.D.S. 247	
DRILLER/ORGANIZATION: MAJI				DRILL UNIT NO.			
CLIENT: R.W.E.							
CONSTRUCTION DETAILS		DEPTH M		SYM-BOL		FORMATION DESCRIPTION BY DRILLER DATE	
DRILLED DEPTH 85.3 M	COMPL. DEPTH 85.3 M	0 - 3.0	C	Clay			
DRILLED DIAM. 270 MM	FROM 0	3.0 - 4.6					
250	10.7	4.6 - 9.1	Sc	Clayey gravel			
165	12.2	9.1 - 15.2	Pw	Weathered granite			
DETAILS OF CASING LEFT IN BOREHOLE		15.2 - 85.3	Pp	Pegmatitic granite			
INTERNAL DIAM. MM	PLAN FROM TO	PERFORATED FROM TO					
CLASS P.V.C.	200 - 0.6 11.6						
SCREENING							
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO				
GRAVEL PACK MM	FROM M	TO M					
WATER							
WATER STRUCK	15.56.73						MBG
STANDING WATER LEVEL	6.7						MBG
TEST YIELD M ³ /HR	MAX 24.5	STEADY 6.1					
MAXIMUM DRAWD. 22.2 M	DURATION TEST 720 MIN						
T (M ² /SEC) 9.2 x 10 ⁻⁶	r ² WS (M ²) 0.0015						
METHOD OF PUMPING							
SUCTION/AIR OUTLET SET AT	79.2						MBG
APPARENT QUALITY OF WATER							
WATER ANALYSIS	P	C	X	B			
WATER TEMPERATURE	°C	DATE, WRITTEN BY 27.5.81; F.M.					

AQUIFER
Weathered granite and pegmatite

REMARKS
T.c. sec. w. wooden plug

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REG. NJOMBE DISTR. IKINGULA VILL.		BH NO. 70/76 CCKK NO.	
COORDINATES: 8°50.5'S ; 34°43.2'E		ELEVATION: m.asl	MAP NO.
COMPLETION DATE: 22.5.76		DRILL. METHOD:	206247
DRILLER/ORGANIZATION: MAJI		DRILL UNIT NO.	
CLIENT: R.W.E.			
CONSTRUCTION DETAILS DRILLED DEPTH 57.9 M COMPL. DEPTH 57.9 M DRILLED DIAM. MM FROM TO DETAILS OF CASING LEFT IN BOREHOLE INTERNAL DIAM. MM PLAN PERFORATED CLASS FROM TO FROM TO P.V.C. 200 -0.3 20.7 SCREENING INTERNAL DIAM. MM SLOT SIZE FROM TO TYPE P.V.C. 200 20.7 54.5 GRAVEL PACK 200 MM FROM M TO M WATER WATER STRUCK 18; 57 MBG STANDING WATER LEVEL MBG		DEPTH M 0-4.6 4.6-12.2 12.2-18.3 18.3-57.9	
SYM-BOL C-S C C-S G		FORMATION DESCRIPTION BY DRILLER DATE Clay with sand Clay Clay with gravel Gravel	
TEST YIELD M ³ /HR MAX 12.3 STEADY 7.5 MAXIMUM DRAWD. 17.4 M DURATION TEST 720 MIN T (M ² /SEC) 4 x 10 ⁻⁵ I ² WS (M ²) 0.0065		AQUIFER Gravel	
METHOD OF PUMPING AIR LIFT SUCTION/AIR OUTLET SET AT 39.6 MBG APPARENT QUALITY OF WATER WATER ANALYSIS P C B WATER TEMPERATURE °C DATE, WRITTEN BY 27.5.84; F.M.		REMARKS T.C. sec. w. wooden plug	

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA		NJOMBE		UTAJA VILL		BH NO. 7075	
COORDINATES: 8° 48' 5", 34° 39.1' E		ELEVATION: m. asl		MAP NO		G.D.S 240	
COMPLETION DATE: 17.4.76		DRILL. METHOD:		DRILLER/ORGANIZATION: MAJI		DRILL UNIT NO.	
CLIENT: R.W.E.							
CONSTRUCTION DETAILS		DEPTH M		SYMBOL		FORMATION DESCRIPTION	
DRILLED DEPTH 155.4 M	COMPL. DEPTH 155.4 M	0 - 15.2	S	Fine to coarse sand with gravel			
DRILLED DIAM. 270 MM	FROM 0	15.2 - 45.7	Pw	Weathered granite			
270	18.27	45.7 - 155.4	P	Granite			
165	155.3						
DETAILS OF CASING LEFT IN BOREHOLE							
INTERNAL DIAM. 200	PLAN FROM 0.9	PERFORATED FROM 17.0	TO 17.0				
P.V.C. 200	17.0	21.2					
P.V.C. 200							
SCREENING							
INTERNAL DIAM. 200	SLOT SIZE 4.6	FROM 4.6	TO 7				
P.V.C. 200							
GRAVEL PACK 20 MM	FROM M	TO M					
WATER							
WATER STRUCK 4.6	129	MBG					
STANDING WATER LEVEL 4.6	MBG						
TEST YIELD M ³ /HR MAX 0.91	STEADY 0.68						
MAXIMUM DRAWD. 138.5 M	DURATION TEST 120 MIN						
T (M ² /SEC) 5.6 x 10 ⁻⁷	r ² WS (M ²) 0.00077						
METHOD OF PUMPING AIR-LIFT							
SUCTION/AIR OUTLET SET AT	MBG						
APPARENT QUALITY OF WATER							
WATER ANALYSIS P	C	X	B				
WATER TEMPERATURE	°C	DATE, WRITTEN BY 27.5.81	C.M.				

AQUIFER
Coarse sand with gravel and weathered granite

REMARKS
T.C. suc. in wooden plug

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA	NJOMBE	MAYALE VILL.	BH NO. 72/76 CCKK NO.
COORDINATES: 8°49.1'S; 34°31.4'E		ELEVATION: m.asl	MAP NO.
COMPLETION DATE: 24.8.76		DRILL. METHOD:	Q.D.S. 247
DRILLER/ORGANIZATION: MAJI		DRILL UNIT NO.	
CLIENT: R.W.E.			

DEPTH M	SYM- BOL	FORMATION DESCRIPTION BY DRILLER DATE
0 - 1.5	S	Fine sand
1.5 - 12.2	S	Clayey sand with gravel
12.2 - 29.0	Rw	Weathered granite
29.0 - 100.6	P	Pegmatite granite
AQUIFER Jointed granite, pegmatite		
REMARKS T.C. sec. w. wooden plug.		

CONSTRUCTION DETAILS			
DRILLED DEPTH	100.6 M	COMPL. DEPTH	100.6 M
DRILLED DIAM.	MM	FROM	TO
	200	0	18.3
	150	18.3	99.0
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM.	MM	PLAN	PERFORATED
CLASS		FROM	FROM TO
PLAIN	200	-0.9	14.3
SCREENING			
INTERNAL DIAM.	MM	SLOT SIZE	FROM TO
GRAVEL PACK	MM	FROM	M TO M
WATER			
WATER STRUCK	30		MBG
STANDING WATER LEVEL	9		MBG
TEST YIELD M ³ /HR	MAX	3.18	STEADY
			1.8
MAXIMUM DRAWD.	73.1 M	DURATION TEST	MIN
T (M ² /SEC)		I ² WS (M ²)	
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT			MBG
APPARENT QUALITY OF WATER			
WATER ANALYSIS	P	C	B
WATER TEMPERATURE	°C	DATE, WRITTEN BY	27.5.81; F.M.

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REG. NJOMBE DIST. LYAMLUKI VILL.						BH NO. 90/76 CCKK NO.	
COORDINATES: 2°41.0'S, 34°41'E						ELEVATION: m.asl	
COMPLETION DATE: 1967						DRILL. METHOD:	
DRILLER/ORGANIZATION: MAJI						DRILL UNIT NO.	
CLIENT: R.W.E.							
CONSTRUCTION DETAILS		DEPTH M		SYM-BOL		FORMATION DESCRIPTION DATE	
DRILLED DEPTH 16.8 M	COMPL. DEPTH 16.8 M	0 - 3.0	C	Brown clay			
DRILLED DIAM. MM	FROM TO	3.0 - 8.8	C	Greenish clay			
		8.8 - 15.2	C	No samples			
		15.2 - 16.2	C	Greenish clay			
		16.2 - 16.8	P	Granite			
DETAILS OF CASING LEFT IN BOREHOLE		AQUIFER		REMARKS			
INTERNAL DIAM. MM	PLAN FROM TO	PERFORATED FROM TO					
CLASS	150	0	3.4	3.4	5.2		
SCREENING							
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO				
GRAVEL PACK MM	FROM	M	TO	M			
WATER							
WATER STRUCK	MBG						
STANDING WATER LEVEL	MBG						
TEST YIELD M ³ /HR	MAX	STEADY					
MAXIMUM DRAWD. M	DURATION TEST	MIN					
T (M ² /SEC)	r ² ws (M ²)						
METHOD OF PUMPING							
SUCTION/AIR OUTLET SET AT	MBG						
APPARENT QUALITY OF WATER							
WATER ANALYSIS	P	C	B				
WATER TEMPERATURE	°C	DATE, WRITTEN BY 27.5.81; F.M.					

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REG. NJOMBE DIST. KIJOMBE VILL.		BH NO. 138/76 CCKK NO.	
COORDINATES:		ELEVATION: m.asl	MAP NO.
COMPLETION DATE: 28.8.76		DRILL. METHOD:	
DRILLER/ORGANIZATION: MAJI		DRILL UNIT NO.	
CLIENT: R.W.E			
CONSTRUCTION DETAILS		DEPTH M	SYMBOL
DRILLED DEPTH 210M	COMPL. DEPTH 210 M		
DRILLED DIAM. MM	FROM TO		
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. MM	PLAN	PERFORATED	
CLASS	FROM TO	FROM TO	
SCREENING			
INTERNAL DIAM. MM	SLOT SIZE	FROM TO	
GRAVEL PACK MM FROM M TO M			
WATER			
WATER STRUCK	1.8 - 4.6	MBG	
STANDING WATER LEVEL			
TEST YIELD M ³ /HR MAX	STEADY	MIN	
MAXIMUM DRAWD. M	DURATION TEST		
T (M ² /SEC)	r ² _{ws} (M ²)		
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT MBG			
APPARENT QUALITY OF WATER			
WATER ANALYSIS	P	C	B
WATER TEMPERATURE	°C	DATE, WRITTEN BY 27.5.81; F.M.	
FORMATION DESCRIPTION	DATE	REMARKS	
		AQUIFER	

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REGION <i>IRINGA DIST</i> IKUKA VILLAGE					BH NO. 148/76 CCKK NO.																																																																																																																																																																									
COORDINATES: 7° 28' S ; 35° 58.4' E					ELEVATION: m.asl																																																																																																																																																																									
COMPLETION DATE:					DRILL. METHOD:																																																																																																																																																																									
DRILLER/ORGANIZATION:					DRILL UNIT NO.																																																																																																																																																																									
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BOREHOLE COMPLETION RECORD

LOCATION: IRINCA RES. NJOMBE DISTR. KANAMALENGA VIL.				BH NO. 198/76 CCKK NO.	
COORDINATES: 8°55'S, 34°36'E				ELEVATION: m.asl	
COMPLETION DATE: 8.2.77				DRILL. METHOD: QDS 247	
DRILLER/ORGANIZATION: MAJ			DRILL UNIT NO.		
CLIENT: R.W.E.					
CONSTRUCTION DETAILS		DEPTH M		FORMATION DESCRIPTION DATE	
DRILLED DEPTH 4.9 M	COMPL. DEPTH 4.9 M	0			
DRILLED DIAM. MM	FROM TO	3.0		Black soil	
		4.3		Red soil	
		4.9		Granite	
DETAILS OF CASING LEFT IN BOREHOLE					
INTERNAL DIAM. MM	PLAN FROM TO	PERFORATED FROM TO			
CLASS					
SCREENING					
INTERNAL DIAM. MM	SLOT SIZE	FROM TO			
TYPE					
GRAVEL PACK MM	FROM M TO M				
WATER					
WATER STRUCK					
STANDING WATER LEVEL					
TEST YIELD M ³ /HR MAX	STEADY				
MAXIMUM DRAWD. M	DURATION TEST MIN				
T (M ² /SEC)	r ² w/s (M ²)				
METHOD OF PUMPING					
SUCTION/AIR OUTLET SET AT					
APPARENT QUALITY OF WATER					
WATER ANALYSIS P	C	B			
WATER TEMPERATURE °C	DATE, WRITTEN BY 27.5.81; F.M.				

AQUIFER
REMARKS

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REGION NJOMBE DIST USUKA VILLAGE		BH NO. 199/76 CCKK NO.	
COORDINATES:		ELEVATION: m.asl	MAP NO.
COMPLETION DATE:		DRILL. METHOD:	
DRILLER/ORGANIZATION:		DRILL UNIT NO.	
CLIENT:			
DEPTH M	SYM- BOL	FORMATION BY	DESCRIPTION DATE
AQUIFER			
REMARKS			
CONSTRUCTION DETAILS			
DRILLED DEPTH M	COMPL. DEPTH M	FROM	TO
DRILLED DIAM. MM			
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. MM	PLAN	PERFORATED	
CLASS	FROM TO	FROM TO	
SCREENING			
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO
GRAVEL PACK MM FROM M TO M			
WATER			
WATER STRUCK MBG			
STANDING WATER LEVEL MBG			
TEST YIELD M ³ /HR	MAX	STEADY	
MAXIMUM DRAWD. M	DURATION TEST	MIN	
T (M ² /SEC)	r ² wS (M ²)		
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT MBG			
APPARENT QUALITY OF WATER			
WATER ANALYSIS	P	C	B
WATER TEMPERATURE	°C	DATE, WRITTEN BY	

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA		MUFINDI		MALANGALI		BH NO. 216/76 CCKK NO.	
COORDINATES: 8°34.9'S; 34°57.8'E				ELEVATION: m.asl		MAP NO.	
COMPLETION DATE: 22.10.76				DRILL. METHOD:		G.O.S. 247	
DRILLER/ORGANIZATION: MAJI				DRILL UNIT NO.			
CLIENT: R.W.E							
FORMATION DESCRIPTION		DATE		SYM-BOL		DEPTH M.	
Brown clay				C		0 - 4.6	
Clayey sand				Sc		4.6 - 9.1	
Coarse sand with clay				Sc		9.1 - 13.7	
Gravel with coarse sand and clay				Sc		13.7 - 16.8	
Weathered granite				Pw		16.8 - 58.5	
Granite				P		58.5 - 94.5	
AQUIFER		Fractured granite		REMARKS			
				T.C. sec. w. steel plug			
				DATE, WRITTEN BY 26.5.81, F.M.			

CONSTRUCTION DETAILS									
DRILLED DEPTH	94.5 M	COMPL. DEPTH	94.5 M						
DRILLED DIAM.	MM	FROM	TO						
	250	0	62.4						
	165	62.4	94.4						
DETAILS OF CASING LEFT IN BOREHOLE									
INTERNAL DIAM.	MM	PLAN	PERFORATED						
CLASS		FROM	TO	FROM	TO				
COLLAR JOINT	220	-0.8	37.3						
SCREENING									
INTERNAL DIAM.	MM	SLOT SIZE	FROM	TO					
TYPE	220		37.4	48.4					
GRAVEL PACK	10 MM	FROM	M	TO					
WATER									
WATER STRUCK	48 ; 45 ; 66								
STANDING WATER LEVEL	1.5								
TEST YIELD M ³ /HR	MAX 5.9	STEADY	2.72						
MAXIMUM DRAWD.	38.4 M	DURATION TEST	MIN						
T (M ² /SEC)	1.5410 ⁵	r ² ws (M ²)	0.0076						
METHOD OF PUMPING	AIRLIFT								
SUCTION/AIR OUTLET SET AT	70.0								
APPARENT QUALITY OF WATER									
WATER ANALYSIS	P	C	X	B					
WATER TEMPERATURE	°C								

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REG., MUFINDI DIST., MALANGALI ILAMBA				BH NO. 217/76 CCHK NO.	
COORDINATES: 8°44.5'S ; 34°52.6'E				ELEVATION: m.asl	
COMPLETION DATE: 29.9.76				DRILL. METHOD:	
DRILLER/ORGANIZATION: MAJI				DRILL UNIT NO.	
CLIENT: R.W.E.					
CONSTRUCTION DETAILS		DEPTH M		SYM-BOI,	
DRILLED DEPTH 50.3 M	COMPL. DEPTH 50.3 M	0 - 15		S	
DRILLED DIAM. 310	FROM 0 TO 30.5	15-61		Sc	
165	30.5 50.2	61-107		Sc	
		107-152		S	
		152-183		C	
		183-229		Cs	
		229-442		Pw	
		442-503		Pf	
DETAILS OF CASING LEFT IN BOREHOLE		AQUIFER		Sand, clayey sand and fractured granite	
INTERNAL DIAM. MM	PLAN FROM TO	PERFORATED FROM TO		REMARKS	
CLASS	FROM TO	FROM TO		T.c. sec. w. wooden plug	
STEEL COL. 220	-0.8 25.8				
SCREENING					
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO		
TYPE		25.8	31.3		
GALVANISED 220					
GRAVEL PACK 20 MM	FROM M	TO	M		
WATER					
WATER STRUCK 1.5; 12; 18; 40; 46				MBG	
STANDING WATER LEVEL 1.5				MBG	
TEST YIELD M ³ /HR MAX 9.5	STEADY 4.54				
MAXIMUM DRAWD. 26.1 M	DURATION TEST 525 MIN				
T (M ² /SEC) 2.8 x 10 ⁻⁵	r ² ws (M ²) 0.01				
METHOD OF PUMPING AIRLIFT					
SUCTION/AIR OUTLET SET AT 42.6	MBG				
APPARENT QUALITY OF WATER					
WATER ANALYSIS P	C	B			
WATER TEMPERATURE °C	DATE, WRITTEN BY 26.5.81, F.M				

BOREHOLE COMPLETION RECORD

LOCATION: IRINCA	NJOMBE	HALALI	BH NO. 226/76
COORDINATES: 8°52.4' S ; 34°31.1' E app			ELEVATION: m.asl
COMPLETION DATE: 20.3.76		DRILL. METHOD:	
DRILLER/ORGANIZATION: MAJI		DRILL UNIT NO.	
CLIENT: R.W.E			

DEPTH M	SYM-BOL	FORMATION DESCRIPTION	DATE
0 - 1.5	C	Clay	
1.5 - 9.1	Cs	Sandy clay with gravel	
9.1 - 15.2	Pw	Weathered granite	
15.2 - 85.2	P	Granite	

CONSTRUCTION DETAILS			
DRILLED DEPTH	85.3 M	COMPL. DEPTH	85.3 M
DRILLED DIAM.	MM	FROM	TO
	250	0	12.2
	165	1.2.2	85.3
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM.	MM	PLAN	PERFORATED
CLASS		FROM	TO
PL	200	-0.6	11.6
SCREENING			
INTERNAL DIAM.	MM	SLOT SIZE	FROM TO
GRAVEL PACK	MM	FROM	M TO M
WATER			
WATER STRUCK	5.6; 7.3		MBG
STANDING WATER LEVEL	6.7		MBG
TEST YIELD M ³ /HR	MAX 24.5	STEADY	6.1
MAXIMUM DRAWD.	2.22 M	DURATION TEST	720 MIN
T (M ² /SEC)	8.44 x 10 ⁻⁶	r ² ws (M ²)	0.015
METHOD OF PUMPING AIRLIFT			
SUCTION/AIR OUTLET SET AT	79.2		MBG
APPARENT QUALITY OF WATER			
WATER ANALYSIS	P	C	B
WATER TEMPERATURE	°C	DATE, WRITTEN BY 26.5.81; F.M.	

AQUIFER
Jointed granite

REMARKS
T.C. sec. w. wooden plug

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REG., NJOMBE DISTRICT, UJANGE VILLAGE						BH NO. 230/76 CCKK NO.	
COORDINATES:				ELEVATION: m.asl		MAP NO.	
COMPLETION DATE: 27.1.76				DRILL. METHOD:			
DRILLER/ORGANIZATION: MAJI				DRILL UNIT NO.			
CLIENT: R.W.E.							
CONSTRUCTION DETAILS		DEPTH M		SYM-BOL		FORMATION DESCRIPTION DATE	
DRILLED DEPTH 15.2 M	COMPL. DEPTH 15.2 M	0 - 1.5	T	Red soil			
DRILLED DIAM. 305	FROM 0	1.5 - 3.0	C	Brownish clay			
?	TO 2.4	3.0 - 6.7	GS	Gravel with sand			
DETAILS OF CASING LEFT IN BOREHOLE		6.7 - 7.6	C	Brownish clay			
INTERNAL DIAM. 200	PLAN FROM ?	7.6 - 13.7	Pw	Weathered granite			
CLASS SL	TO 12.2	13.7 - 15.2	Pf	Fresh granite			
SCREENING							
INTERNAL DIAM. 150	SLOT SIZE FROM TO						
GRAVEL PACK 10 - 70		FROM M	TO M				
WATER							
WATER STRUCK		MBG					
STANDING WATER LEVEL		1.5		MBG			
TEST YIELD M ³ /HR MAX	0.91	STEADY		0.82			
MAXIMUM DRAWD. 2.74 M	DURATION TEST 1290 MIN						
T (M ² /SEC) 6.10 ⁻⁵	r ² ws (M ²)						
METHOD OF PUMPING							
SUCTION/AIR OUTLET SET AT		MBG					
APPARENT QUALITY OF WATER							
WATER ANALYSIS	P	C	B				
WATER TEMPERATURE	°C	DATE, WRITTEN BY		26.5.81; F.M.			

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REG. NJOMBE DIST. HALALI VILLAGE						BH NO. 233/76 CCKK NO.	
COORDINATES:				ELEVATION: m.asl		MAP NO.	
COMPLETION DATE:				DRILL. METHOD:			
DRILLER/ORGANIZATION:						DRILL UNIT NO.	
CLIENT:							
CONSTRUCTION DETAILS		DEPTH M		SYMBOL		FORMATION DESCRIPTION DATE	
DRILLED DEPTH M	COMPL. DEPTH M	FROM	TO			no info att all	
DRILLED DIAM. MM	FROM	TO					
DETAILS OF CASING LEFT IN BOREHOLE							
INTERNAL DIAM. MM	PLAN	PERFORATED					
CLASS	FROM	TO	FROM	TO			
SCREENING							
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO				
GRAVEL PACK MM	FROM	M	TO	M			
WATER							
WATER STRUCK MBG							
STANDING WATER LEVEL MBG							
TEST YIELD M ³ /HR MAX		STEADY					
MAXIMUM DRAWD. M	DURATION TEST		MIN				
T (M ² /SEC)	r ² ws (M ²)						
METHOD OF PUMPING							
SUCTION/AIR OUTLET SET AT MBG							
APPARENT QUALITY OF WATER							
WATER ANALYSIS		P	C	B			
WATER TEMPERATURE		°C		DATE, WRITTEN BY			

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA	MUFINDI	MYANYENDE VILLAGE	BH NO. 235/76
COORDINATES: 2°34'S ; 34°56'E			ELEVATION: m.asl
COMPLETION DATE: 3.11.76		DRILL. METHOD:	MAP NO. QDS 247
DRILLER/ORGANIZATION: MAJI		DRILL UNIT NO.	
CLIENT: R.W.E.			

DEPTH M	SYM- BOL	FORMATION BY	DESCRIPTION DATE
0 - 6.1	S	Sand	
6.1 - 18.3	C	Clay	
18.3 - 30.5	Gs	Sandy gravel	
30.5 - 33.5	Pw	Weathered granite	
33.5 - 45.7	Pw	Slightly weathered granite	
45.7 - 108.2	Pf	Fresh granite	

CONSTRUCTION DETAILS			
DRILLED DEPTH 108.2 M	COMPL. DEPTH 108.2 M	FROM	TO
DRILLED DIAM. 250 MM	0	33.5	108.2
165	33.5	108.2	
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. MM	PLAN	PERFORATED	
CLASS	FROM	TO	FROM
STEEL C.J. 170	-0.6	26.9	26.9
GALVANISED 170			32.5
SCREENING			
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO
GRAVEL PACK MM	FROM	M	TO
WATER			M
WATER STRUCK 4.6; 18.3			MBG
STANDING WATER LEVEL 0			MBG
TEST YIELD M ³ /HR MAX 4.54	STEADY	0.45	
MAXIMUM DRAWD. 88.5 M	DURATION TEST	840 MIN	
T (M ² /SEC)	r ² ws (M ²)		
METHOD OF PUMPING	R/LIFT		
SUCTION/AIR OUTLET SET AT	70		MBG
APPARENT QUALITY OF WATER			
WATER ANALYSIS	P	C	B
WATER TEMPERATURE	°C	DATE, WRITTEN BY 26.5.81; F.M.	

AQUIFER
Sandy gravel and granite

REMARKS
T.C. sec. w. steel plug

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA., NJOMBE, IDOFI VILLAGE						BH NO. 247/76 CCKK NO.	
COORDINATES: 8°49.1'S; 34°50.5'E				ELEVATION: m.asl		MAP NO.	
COMPLETION DATE: 15.11.76				DRILL. METHOD:		Q.D.S. 247	
DRILLER/ORGANIZATION: MAJI				DRILL UNIT NO.			
CLIENT: R.W.F.							
CONSTRUCTION DETAILS		DEPTH M		SYM-BOL		FORMATION DESCRIPTION	
DRILLED DEPTH	48.7 M	COMPL. DEPTH	48.7 M	0 - 1.5	Cs	Sandy clay	
DRILLED DIAM.	MM	FROM	TO	1.5 - 6.1	C	Clay	
	270	0	30	6.1 - 18.5	Sc	Coarse sand with clay	
	250	3.0	38.1	18.5 - 38.0	Pw	Weathered granite	
	165	38.1	48.8	38.0 - 48.7	Pw	Slightly weathered granite	
DETAILS OF CASING LEFT IN BOREHOLE							
INTERNAL DIAM.	MM	PLAN	PERFORATED				
CLASS		FROM	TO	FROM	TO		
STEEL C.J.	220	-0.9	23.5				
SCREENING							
INTERNAL DIAM.	MM	SLOT SIZE	FROM	TO			
TYPE							
GALVANISED	220		23.5	29.2			
GRAVEL PACK							
MM	FROM	M	TO	M			
WATER							
WATER STRUCK	18; 30			MBG			
STANDING WATER LEVEL							
	0.3			MBG			
TEST YIELD M ³ /HR	MAX	20.5	STEADY	7.7			
MAXIMUM DRAWD.	11.9 M	DURATION TEST		1470 MIN			
T (M ² /SEC)	1.1 x 10 ⁻⁴	r ² ws (M ²)		0.0015			
METHOD OF PUMPING							
		AIRLIFT					
SUCTION/AIR OUTLET SET AT	30.5			MBG			
APPARENT QUALITY OF WATER							
WATER ANALYSIS	P	C	B				
WATER TEMPERATURE	°C	DATE,	WRITTEN BY	26.5.81; F.M.			
REMARKS		T.c. sec. w. steel plug					
AQUIFER		Weathered granite					

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REG. MUFINDI DISTRICT, SAJA VILLAGE		BH NO. 265/76 CCKK NO.	
COORDINATES: 8°43.9'S; 34°48.5'E		ELEVATION: m.asl	MAP NO.
COMPLETION DATE: 24.11.76		DRILL. METHOD:	Q.D.S. 247
DRILLER/ORGANIZATION: MAJI		DRILL UNIT NO.	
CLIENT: R.W.E.			
DEPTH M	SYM- BOL	FORMATION BY	DESCRIPTION DATE
0 - 1.5 1.5-174 274-471 471-914	Cs Sc Pw P	Sandy clay Clayey Sand Weathered granite Alterations of granite and Pegmatite	
AQUIFER Clayey Sand			
REMARKS T.C. sec. W. wooden plug			
CONSTRUCTION DETAILS			
DRILLED DEPTH	91.4 M	COMPL. DEPTH	91.4 M
DRILLED DIAM.	MM	FROM	TO
	200	0	30.4
	165	30.4	61.0
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM.	MM	PLAN	PERFORATED
CLASS		FROM	TO
STEEL	170	± 0	18.5
SCREENING			
INTERNAL DIAM.	MM	SLOT SIZE	FROM TO
	165		18.5 30.7
GRAVEL PACK	MM	FROM	TO
WATER		M	M
WATER STRUCK	18		MBG
STANDING WATER LEVEL	7.6		MBG
TEST YIELD M ³ /HR	MAX 24.5	STEADY	2.5
MAXIMUM DRAWD.	56.2 M	DURATION TEST	1140 MIN
T (M ² /SEC)	3.3 x 10 ⁻⁶	r ² ws (M ²)	0.019
METHOD OF PUMPING AIRLIFT			
SUCTION/AIR OUTLET SET AT	85.3		MBG
APPARENT QUALITY OF WATER			
WATER ANALYSIS	P	C	B
WATER TEMPERATURE	°C	DATE, WRITTEN BY	26.5.81, F.M.

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA., NJOMBE DISTRICT., ISJMIKE VILLAGE				BH NO. 270/76 CCKK NO.	
COORDINATES: 2°41.3'S; 34°56.5'E ELEVATION: m.asl				MAP NO.	
COMPLETION DATE:				DRILL. METHOD:	
				QDS 247	
DRILLER/ORGANIZATION:				DRILL UNIT NO.	
CLIENT:					
CONSTRUCTION DETAILS		DEPTH M		SYMBOL	
DRILLED DEPTH 41.1 M	COMPL. DEPTH 41.1 M	0 - 6.1	S	FORMATION DESCRIPTION	
DRILLED DIAM. MM	FROM TO	6.1 - 9.1	S	BY	
		9.1 - 16.8	Pw	Sand	
		16.8 - 41.1	Pf	Fine to coarse sand bleathered granite fresh granite	
DETAILS OF CASING LEFT IN BOREHOLE					
INTERNAL DIAM. MM	PLAN FROM TO	PERFORATED FROM TO			
CLASS					
SCREENING					
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO	M	
GRAVEL PACK MM	FROM	M	TO	M	
WATER					
WATER STRUCK				MBG	
STANDING WATER LEVEL				MBG	
TEST YIELD M ³ /HR MAX		STEADY			
MAXIMUM DRAWD. M		DURATION TEST	MIN		
T (M ² /SEC)		r ² ws (M ²)			
METHOD OF PUMPING					
SUCTION/AIR OUTLET SET AT				MBG	
APPARENT QUALITY OF WATER					
WATER ANALYSIS	P	C	B		
WATER TEMPERATURE	°C	DATE, WRITTEN BY	26.5.91,	F.M.	

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REG., NJOMBE DISTR., KATENGE VILLAGE										BH NO. 272/76 CCKK NO.									
COORDINATES: 28°48.5'S, = 34°43.9'E										ELEVATION: m.asl		MAP NO.							
COMPLETION DATE: 18/4/77										DRILL. METHOD:		QDS 247							
DRILLER/ORGANIZATION: MAJI										DRILL UNIT NO.									
CLIENT: R.W.E.																			
CONSTRUCTION DETAILS DRILLED DEPTH 914 M COMPL. DEPTH 914 M DRILLED DIAM. 250. 165 FROM 0 21.3 TO 21.3 91.35 DETAILS OF CASING LEFT IN BOREHOLE INTERNAL DIAM. 170 250 MM PLAN FROM TO PERFORATED FROM TO CLASS 170 -0.9 17.4 17.4 20.4 250 17.4 20.4 SCREENING INTERNAL DIAM. 170 MM SLOT SIZE FROM TO TYPE SLOTTED 170 11.0 17.1 GRAVEL PACK MM FROM M TO M WATER WATER STRUCK 1.5; 3.0; 65.5 MBG STANDING WATER LEVEL 15.8 MBG TEST YIELD M ³ /HR MAX — STEADY 0.45 MAXIMUM DRAWD. dry M DURATION TEST MIN T (M ² /SEC) r ² ws (M ²)										DEPTH M		SYM-BOL		FORMATION DESCRIPTION DATE		AQUIFER gravel and weathered/fractured granite REMARKS T.C. sec. w. steel plug This borehole is considered dry			
										0		S		Coarse sand					
1.5		SC		Coarse sand and clay															
3.1		CS		Clay, coarse sand & gravel															
10.7		CI		Clay, silt and gravel															
22.8		PW		Weathered granite															
45.7		PF		Fresh granite															
91.4																			
METHOD OF PUMPING																			
SUCTION/AIR OUTLET SET AT										MBG									
APPARENT QUALITY OF WATER																			
WATER ANALYSIS P C B																			
WATER TEMPERATURE °C										DATE, WRITTEN BY 26.5.81, F.M.									

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REG., MUFINDI DISTR., IDUMULAWANO VILLAGE WELL DRILLED IN A DRY RIVER BED				BH NO. 281/76 CCKK NO.	
COORDINATES: 2°34.5'S, 34°41'E ELEVATION: m.asl				MAP NO.	
COMPLETION DATE: 12.1.77			DRILL. METHOD:		ØCS 247
DRILLER/ORGANIZATION: MAJI			DRILL UNIT NO.		
CLIENT: R.K.E.					
CONSTRUCTION DETAILS		DEPTH M		FORMATION DESCRIPTION DATE	
DRILLED DEPTH 30.5 M	COMPL. DEPTH 30.5 M				
DRILLED DIAM. 310	MM FROM 0	TO 27.4		SC	Medium to coarse sand & clay
165	27.4	30.5		C	clay
DETAILS OF CASING LEFT IN BOREHOLE					
INTERNAL DIAM. 200	MM PLAN FROM -3.0	TO 21.3		SC	Clayey sand with gravel
CLASS GALVANISED 200			21.3	S	Coarse sand
			26.2	Pw	Weathered granite
SCREENING					
INTERNAL DIAM. 200	MM	SLOT SIZE	FROM 21.3	TO 26.2	
GRAVEL PACK 1.5, 17					
WATER	MM	FROM	M	TO	M
WATER STRUCK	1.5, 17				MBG
STANDING WATER LEVEL	0.6				MBG
TEST YIELD M ³ /HR MAX		STEADY			
MAXIMUM DRAWD. — M	DURATION TEST	MIN			
T (M ² /SEC)	r ² ws (M ²)				
METHOD OF PUMPING					
SUCTION/AIR OUTLET SET AT					MBG
APPARENT QUALITY OF WATER					
WATER ANALYSIS	P	C	B		
WATER TEMPERATURE	°C	DATE, WRITTEN BY	26.5.81,	F.M.	
AQUIFER		Gravel, coarse sand and weathered granite			
REMARKS		T.C. open The hole collapsed			

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REG., NJOMBE DISTR., LYADEBWE VILLAGE						BH NO. 65.77 CCKK NO.	
COORDINATES: 8°46'S ; 34°33.5'E ELEVATION: m.asl						MAP NO.	
COMPLETION DATE: 25.4.77				DRILL. METHOD:		RDS 247	
DRILLER/ORGANIZATION: MAJI				DRILL UNIT NO.			
CLIENT: R.W.E. (REGIONAL WATER ENGINEER)							
CONSTRUCTION DETAILS		DEPTH M		SYM-BOL		FORMATION DESCRIPTION DATE	
DRILLED DEPTH	65.4 M	COMPL. DEPTH	65.4 M	0-18.5	S	Fine to coarse sand with gravel	
DRILLED DIAM.	MM	FROM	TO	18.5-29.0	Pw	Weathered granite	
	250	0	3.1	29.0-65.4	Pf	Fresh granite	
	252	3.1	18.3				
	165	18.3	65.4				
DETAILS OF CASING LEFT IN BOREHOLE							
INTERNAL DIAM.	MM	PLAN	PERFORATED				
CLASS		FROM	TO	FROM	TO		
STEEL C.J.	170	-0.6	11.6				
SCREENING							
INTERNAL DIAM.	MM	SLOT SIZE		FROM	TO		
TYPE				11.6	17.6		
SLOTTED	170						
GRAVEL PACK	10 MM	FROM	M	TO	M		
WATER							
WATER STRUCK	18-19 ;	55-64					
STANDING WATER LEVEL	4.6					MBG	
TEST YIELD M ³ /HR	MAX	10.0	STEADY	4.1			
MAXIMUM DRAWD.	25.9 M	DURATION TEST		690 MIN			
T(M ² /SEC)	2.1 x 10 ⁻⁵	I ² WS (M ²)		0.015			
METHOD OF PUMPING AIRLIFT							
SUCTION/AIR OUTLET SET AT	60.9					MBG	
APPARENT QUALITY OF WATER							
WATER ANALYSIS	P	C	B				
WATER TEMPERATURE	°C	DATE, WRITTEN BY		26.5.81,	F.M.		

AQUIFER
Weathered and fractured granite

REMARKS
T.C. sec. w. steel plug

BOREHOLE COMPLETION RECORD

LOCATION: <i>IRINGA REG., NJOMBE DISTR., ULIGA VILLAGE</i>	BH NO. <i>86/77</i> CCKK NO.
COORDINATES: <i>8°51.8'S., 34°36.8'E</i> ELEVATION: <i>m.asl</i>	MAP NO.
COMPLETION DATE: <i>12.5.77</i> DRILL. METHOD:	<i>0.5. 248</i>
DRILLER/ORGANIZATION: <i>MAJI</i>	DRILL UNIT NO.
CLIENT: <i>R.W.E.</i>	

DEPTH M	SYM- BOL	FORMATION DESCRIPTION BY DATE
<i>0 - 1.5</i>	<i>SC</i>	<i>Sand and clay</i>
<i>1.5 - 3.0</i>	<i>S</i>	<i>Fine to coarse sand</i>
<i>3.0 - 4.6</i>	<i>SG</i>	<i>Sand and gravel</i>
<i>4.6 - 7.6</i>	<i>Pw</i>	<i>Weathered granite</i>
<i>7.6 - 97.5</i>	<i>Pf</i>	<i>Fresh granite</i>

CONSTRUCTION DETAILS			
DRILLED DEPTH	97.5 M	COMPL. DEPTH	97.5 M
DRILLED DIAM.	MM	FROM	TO
<i>280</i>	<i>0</i>	<i>3.1</i>	<i>3.1</i>
<i>200</i>	<i>3.1</i>	<i>9.1</i>	<i>9.1</i>
<i>165</i>	<i>9.1</i>	<i>97.5</i>	<i>97.5</i>
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM.	MM	PLAN FROM	PERFORATED FROM TO
<i>FLUSH WALL</i>	<i>250</i>	<i>-0.9</i>	<i>2.1</i>
<i>200</i>	<i>2.1</i>	<i>5.2</i>	
SCREENING			
INTERNAL DIAM. TYPE	MM	SLOT SIZE	FROM TO
<i>200</i>			<i>5.2 9.7</i>
GRAVEL PACK	MM	FROM	TO
			<i>M M</i>
WATER			
WATER STRUCK	<i>9.1;</i>	<i>55.6</i>	<i>MBG</i>
STANDING WATER LEVEL	<i>4.5</i>		<i>MBG</i>
TEST YIELD M ³ /HR MAX			<i>STEADY</i>
MAXIMUM DRAWD.	M	DURATION TEST	MIN
T (M ² /SEC)		<i>r²ws (M²)</i>	
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT			<i>MBG</i>
APPARENT QUALITY OF WATER			
WATER ANALYSIS	P	C	B
WATER TEMPERATURE	°C	DATE, WRITTEN BY <i>26.5.81, C.M.</i>	

AQUIFER
Fractured granite

REMARKS
T.C. sec.w. wooden plug

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REG., NJOMBE DIST., UHENGE VILLAGE						BH NO. 87/77 CCKK NO.	
COORDINATES: $\approx 8^{\circ}43.4'S, 34^{\circ}46.6'E$				ELEVATION: m.asl		MAP NO.	
COMPLETION DATE: 15.6.77				DRILL. METHOD:		PDS. 247	
DRILLER/ORGANIZATION: MAJ				DRILL UNIT NO.			
CLIENT: R.W.E.							
CONSTRUCTION DETAILS		DEPTH M		SYM-BOL		FORMATION DESCRIPTION DATE	
DRILLED DEPTH 39.6 M	COMPL. DEPTH 39.6 M	0 - 30	Cs	Clay with gravel			
DRILLED DIAM. 250	FROM 0 TO 16.8	30-10.7	S	Fine to coarse sand			
200	16.8 32.0	10.7-16.8	S	Sand			
175	32.0 39.6	16.8-31.9	Pw	Weathered granite			
DETAILS OF CASING LEFT IN BOREHOLE		31.9-39.6	Pf	Fresh granite			
INTERNAL DIAM. MM	PLAN FROM TO	PERFORATED FROM TO					
CLASS							
PL. 200	-0.3 11.9						
SL. 200	11.9 18.0						
SCREENING							
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO				
200	0.006 MM	11.9	18.0				
GRAVEL PACK MM FROM M TO M							
WATER							
WATER STRUCK	14, 18			MBG			
STANDING WATER LEVEL	3			MBG			
TEST YIELD M ³ /HR MAX	4.0	STEADY		2.4			
MAXIMUM DRAWD. 12.2 M	DURATION TEST		300 MIN				
T (M ² /SEC)	r ² ws (M ²)						
METHOD OF PUMPING AIRLIFT							
SUCTION/AIR OUTLET SET AT		33.5		MBG			
APPARENT QUALITY OF WATER							
WATER ANALYSIS	P	C X		B			
WATER TEMPERATURE		°C		DATE, WRITTEN BY 26.5.81, F.M.			
REMARKS		Sand and weathered granite					
		T.C. protected					

BOREHOLE COMPLETION RECORD

LOCATION: REG.-IRINGA., DIST.-NJOMBE., VILLAGE-KANAMALANGA						BH NO. 97/77 CCKK NO.	
COORDINATES: 8°45' S, 34°37' E				ELEVATION: m.asl		MAP NO.	
COMPLETION DATE: 28.5.77				DRILL. METHOD:		Q05 247	
DRILLER/ORGANIZATION: MAJI				DRILL UNIT NO.			
CLIENT: R.W.F.							
FORMATION DESCRIPTION DATE		SYM-BOL		DEPTH M			
Black clay		C		0-1.5			
Yellowish clay		C		1.5-2.1			
Weathered granite		Pw		2.1-12.2			
Fresh granite		Pf		12.2-158			
AQUIFER Weathered granite							
REMARKS							
CONSTRUCTION DETAILS							
DRILLED DEPTH 158 M	COMPL. DEPTH 158 M	FROM	TO				
DRILLED DIAM. MM							
DETAILS OF CASING LEFT IN BOREHOLE							
INTERNAL DIAM. MM	PLAN	PERFORATED					
CLASS	FROM	TO	FROM	TO			
200	0	6.1					
SCREENING							
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO				
150		?	12.8				
GRAVEL PACK MM	FROM	M	TO	M			
WATER							
WATER STRUCK	MBG						
STANDING WATER LEVEL	2.1 MBG						
TEST YIELD M ³ /HR	MAX	STEADY					
MAXIMUM DRAWD. M	DURATION TEST	MIN					
T (M ² /SEC)	r ² ws (M ²)						
METHOD OF PUMPING							
SUCTION/AIR OUTLET SET AT	MBG						
APPARENT QUALITY OF WATER							
WATER ANALYSIS	P	C	B				
WATER TEMPERATURE	°C		DATE, WRITTEN BY				

BOREHOLE COMPLETION RECORD

LOCATION: REGION - IRINGA, VILLAGE - MKULULA DISTRICT - IRINGA				BH NO. 126/77 CCKK NO.	
COORDINATES: 7°14.8'S, 36°05.6'E				ELEVATION: m.asl	
COMPLETION DATE: 27.8.77				DRILL. METHOD:	
DRILLER/ORGANIZATION: MAJI				DRILL UNIT NO.	
CLIENT: R.W.E					
CONSTRUCTION DETAILS		DEPTH M		FORMATION DESCRIPTION BY DATE	
DRILLED DEPTH 51.8 M	COMPL. DEPTH 51.8 M				
DRILLED DIAM. 250 MM	FROM 0 TO 12.2				
175	12.2 TO 51.8				
DETAILS OF CASING LEFT IN BOREHOLE					
INTERNAL DIAM. MM	PLAN FROM TO	PERFORATED FROM TO			
CLASS STEEL 200	-0.6 TO 12.2				
SCREENING					
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO		
GRAVEL PACK MM FROM M TO M					
WATER					
WATER STRUCK 16.8; 28.9; 47.2					MBG
STANDING WATER LEVEL 6.1					MBG
TEST YIELD M ³ /HR MAX 47.9	STEADY 24.8				
MAXIMUM DRAWD. 15.2 M	DURATION TEST 780 MIN				
T (M ² /SEC) 8.3×10^{-6}	r ² WS (M ²) 0.027				
METHOD OF PUMPING AIRLIFT					
SUCTION/AIR OUTLET SET AT 48.7 MBG					
APPARENT QUALITY OF WATER					
WATER ANALYSIS P	C X	B			
WATER TEMPERATURE °C					
DATE, WRITTEN BY 26.5.81, F.M.					
AQUIFER		WEATHERED GRANITE		REMARKS	
				T.C. sec. w. steel plug	

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REG., IRINGA DIST., IGULIBA VILLAGE				BH NO. 127/77 CCKK NO.	
COORDINATES: 7°25'30" S., 35°57'7" E			ELEVATION: m. asl		MAP NO.
COMPLETION DATE: 13.7.77			DRILL. METHOD:		Q.D.S. 197
DRILLER/ORGANIZATION: MAJI			DRILL UNIT NO.		
CLIENT: R.W.E.					
FORMATION DESCRIPTION BY		SYM-BOL		DEPTH M	
Red clay with sand and gravel Fine to coarse sand & gravel Weathered granite Fractured granite Fractured gneiss granite Fractured granite		Cs SG Pw Pj Pj Pj		0 - 1.5 1.5 - 4.6 4.6 - 12.2 12.2 - 27.4 27.4 - 30.5 30.5 - 45.7	
AQUIFER <i>Jointed granite</i>					
REMARKS <i>T.C. sec. w. wooden cap</i>					
DATE, WRITTEN BY 26.5.81, F.M.					
CONSTRUCTION DETAILS					
DRILLED DEPTH	45.7 M	COMPL. DEPTH	45.7 M		
DRILLED DIAM.	MM	FROM	TO		
	230	0	12.2		
	175	12.2	39.6		
	165	39.6	45.7		
DETAILS OF CASING LEFT IN BOREHOLE					
INTERNAL DIAM.	MM	PLAN	PERFORATED		
CLASS		FROM	TO	FROM	TO
SCREENING					
INTERNAL DIAM.	MM	SLOT SIZE	FROM	TO	
TYPE					
GRAVEL PACK	MM	FROM	M	TO	M
WATER					
WATER STRUCK	15;	21;	27.		MBG
STANDING WATER LEVEL	9.1				MBG
TEST YIELD M ³ /HR	MAX	24.0	STEADY	21.2	
MAXIMUM DRAWD.	6.1 M	DURATION	TEST	720 MIN	
T (M ² /SEC)	r ² ws (M ²)				
METHOD OF PUMPING AIRLIFT					
SUCTION/AIR OUTLET SET AT MBG					
APPARENT QUALITY OF WATER					
WATER ANALYSIS	P	C	B		
WATER TEMPERATURE	°C	DATE, WRITTEN BY 26.5.81, F.M.			

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REG. IRINGA DIST. MAKADUNA VILLAGE		BH NO. 128/77 CCKK NO.	
COORDINATES: 7°18.2'S., 36°00.5'E		ELEVATION: m.asl	MAP NO.
COMPLETION DATE: 19.7.77		DRILL. METHOD:	Q.D.S. 198
DRILLER/ORGANIZATION: MAJ		DRILL UNIT NO.	
CLIENT: R.W.E.			

DEPTH M	SYM-BOL	FORMATION BY	DESCRIPTION DATE
0 - 1.5	Cs	Clay with sand	
1.5 - 6.1	G	Gravel with medium to coarse sand	
6.1 - 30.5	Rw	Weathered granite	
30.5 - 51.3	Pf	Fresh granite	
AQUIFER Fractured granite			
REMARKS T.C. sec. w. wooden plug			

CONSTRUCTION DETAILS			
DRILLED DEPTH 53.3 M	COMPL. DEPTH 53.3 M		
DRILLED DIAM. 250 MM	FROM 0 TO 8.8		
150	8.8 TO 53.8		
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. MM	PLAN FROM TO	PERFORATED FROM TO	
CLASS 200 P.V.C.	? 9.1		
SCREENING			
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO
GRAVEL PACK MM	FROM M	TO M	M
WATER			
WATER STRUCK 18.3; 24.4			MBG
STANDING WATER LEVEL 7.6			MBG
TEST YIELD M ³ /HR MAX 24.0	STEADY 4.8		
MAXIMUM DRAWD. 13.7 M	DURATION TEST 720 MIN		
T (M ² /SEC)	r ² ws (M ²)		
METHOD OF PUMPING AIRLIFT			
SUCTION/AIR OUTLET SET AT 45.7			MBG
APPARENT QUALITY OF WATER			
WATER ANALYSIS P	C	B	
WATER TEMPERATURE °C	DATE, WRITTEN BY 26.5.81, C.M.		

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REG., IRINGA DISTR., USOLONGA VILLAGE	BH NO. 129/77 CCKK NO.
COORDINATES: 7°46'S., 35°57.8'E ELEVATION: m.asl	MAP NO.
COMPLETION DATE: 1.8.77 DRILL. METHOD:	Q.D.S. 197
DRILLER/ORGANIZATION: MAJI	DRILL UNIT NO.
CLIENT: R.W.E.	

DEPTH M	SYM- BOL	FORMATION BY	DESCRIPTION DATE
0 - 1.5	C	Reddish clay	
1.5 - 4.6	Cs	Clay with sand and gravel	
4.6 - 9.1	G	Gravel	
9.1 - 41.1	P	Granite	
AQUIFER <i>Fractured granite</i>			
REMARKS <i>T.c. sec. w. wooden plug</i>			

CONSTRUCTION DETAILS			
DRILLED DEPTH	41.1 M	COMPL. DEPTH	41.1 M
DRILLED DIAM.	MM	FROM	TO
250		0	11.1
?		11.1	41.1
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM.	MM	PLAN	PERFORATED
CLASS		FROM	FROM TO
200 P.V.C.		-0.5	11.1
SCREENING			
INTERNAL DIAM.	MM	SLOT SIZE	FROM TO
GRAVEL PACK	MM	FROM	TO
		M	M
WATER			
WATER STRUCK	15.2 ; 16.8 ; 18.3		MBG
STANDING WATER LEVEL	9.1		MBG
TEST YIELD M ³ /HR	MAX 24.0	STEADY	5.1
MAXIMUM DRAWD. 12.2 M		DURATION TEST	300 MIN
T (M ² /SEC)		r ² WS (M ²)	
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT	36.5		MBG
APPARENT QUALITY OF WATER			
WATER ANALYSIS	P	C X	B
WATER TEMPERATURE	°C	DATE, WRITTEN BY	26.5.81; F.M.

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REG. IRINGA DIST. NYAKANGALA VILLAGE						BH NO. 130/77 CCKK NO.	
COORDINATES: 7°20.1'S; 36°04.2'E ELEVATION: m.asl						MAP NO.	
COMPLETION DATE: 8.9.77 DRILL. METHOD:						005.198	
DRILLER/ORGANIZATION: MAJI				DRILL UNIT NO.			
CLIENT: R.W.E.							
CONSTRUCTION DETAILS		DEPTH M		SYM-BOL		FORMATION DESCRIPTION DATE	
DRILLED DEPTH 91.4 M	COMPL. DEPTH 91.4 M						
DRILLED DIAM. 250	FROM 0	TO 4.6	C	Browish red clay			
175	4.6	65.5	L	Limestone			
165	65.5	91.4	Pw	Clay and quartz boulders			
DETAILS OF CASING LEFT IN BOREHOLE							
INTERNAL DIAM. MM	PLAN FROM	TO	PERFORATED FROM	TO			
CLASS	0?	12.2					
Collar joint 170	12.2	16.8	Pf	Weathered granite			
P.V.C. 200			Pf	Fresh granite			
SCREENING							
INTERNAL DIAM. MM	SLOT SIZE		FROM	TO			
GRAVEL PACK	MM	FROM	M	TO	M		
WATER							
WATER STRUCK 16.8; 25.9; 47.2							
STANDING WATER LEVEL 10.7							
TEST YIELD M ³ /HR MAX 36.0	STEADY	24.0					
MAXIMUM DRAWD. 13.7 M	DURATION TEST		840 MIN				
T (M ² /SEC) 1.7x10 ⁻⁵	r ² ws (M ²)		0.16				
METHOD OF PUMPING AIRLIFT							
SUCTION/AIR OUTLET SET AT		MBG					
APPARENT QUALITY OF WATER							
WATER ANALYSIS	P	C	B				
WATER TEMPERATURE	°C	DATE, WRITTEN BY 26.5.91, F.M.					
AQUIFER		Fractured granite and pegmatite					
REMARKS							

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA RES.	KIMYANGANCA VILL.	BH NO. 132/77 CCKK NO.
COORDINATES:	ELEVATION: m.asl	MAP NO.
COMPLETION DATE:	DRILL. METHOD:	
DRILLER/ORGANIZATION: MAJI	DRILL UNIT NO.	
CLIENT: R.W.E.		

CONSTRUCTION DETAILS	DEPTH M	SYM- BOL	FORMATION BY	DESCRIPTION DATE																					
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>DRILLED DEPTH</td> <td>M</td> <td>COMPL. DEPTH</td> <td>M</td> </tr> <tr> <td>DRILLED DIAM.</td> <td>MM</td> <td>FROM</td> <td>TO</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	DRILLED DEPTH	M	COMPL. DEPTH	M	DRILLED DIAM.	MM	FROM	TO																	
DRILLED DEPTH	M	COMPL. DEPTH	M																						
DRILLED DIAM.	MM	FROM	TO																						
DETAILS OF CASING LEFT IN BOREHOLE																									
INTERNAL DIAM. CLASS	MM	PLAN	PERFORATED																						
		FROM	TO	FROM	TO																				
SCREENING																									
INTERNAL DIAM. TYPE	MM	SLOT SIZE	FROM	TO																					
GRAVEL PACK	MM	FROM	M	TO	M																				
WATER																									
WATER STRUCK					MBG																				
STANDING WATER LEVEL					MBG																				
TEST YIELD M ³ /HR	MAX		STEADY		MIN																				
MAXIMUM DRAWD.	M	DURATION TEST																							
T (M ² /SEC)		r ² _w S (M ²)																							
METHOD OF PUMPING																									
SUCTION/AIR OUTLET SET AT					MBG																				
APPARENT QUALITY OF WATER																									
WATER ANALYSIS	P	C		B																					
WATER TEMPERATURE	°C	DATE, WRITTEN BY																							

AQUIFER

REMARKS

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA, IRINGA, IROLE VILLAGE						BH NO. 189/77 CCKK NO.	
COORDINATES: 7°42' S, 35°52.5' E				ELEVATION: m.asl		MAP NO.	
COMPLETION DATE: 20.10.77				DRILL. METHOD:		Q.D.S. 215	
DRILLER/ORGANIZATION: MAJ				DRILL UNIT NO.			
CLIENT: R.W.E.							
CONSTRUCTION DETAILS		DEPTH		SYM-BOL		FORMATION DESCRIPTION	
DRILLED DEPTH 35.1 M	COMPL. DEPTH 35.1 M	0 - 3.0	Cs	Sandy-clay			
DRILLED DIAM. 250 MM	FROM 0 TO 16.8	3.0 - 12.2	Sc	Clayey-sand			
200	16.8 TO 25.9	12.2 - 16.7	C	Gray-clay with lime			
175	25.9 TO 35.0	16.7 - 25.9	S	Clayey sand with limestone			
DETAILS OF CASING LEFT IN BOREHOLE		25.9 - 30.5	Pw	Weathered granite			
INTERNAL DIAM. 170 MM	PLAN FROM -0.6 TO 20.4	30.5 - 35.1	Pf	Fresh granite			
CLASS	PERFORATED FROM TO						
SCREENING							
INTERNAL DIAM. TYPE	SLOT SIZE	FROM	TO				
GRAVEL PACK 10 MM	FROM	M	TO	M			
WATER							
WATER STRUCK 16.8 ; 25.9 ; 30.5				MBG			
STANDING WATER LEVEL 1.5				MBG			
TEST YIELD M ³ /HR MAX 28.77	STEADY 10.3						
MAXIMUM DRAWD. 15.2 M	DURATION TEST 720 MIN						
T (M ² /SEC) 7x10 ⁻⁵	I ² wS (M ²)						
METHOD OF PUMPING AIRLIFT							
SUCTION/AIR OUTLET SET AT 28.9	MBG						
APPARENT QUALITY OF WATER							
WATER ANALYSIS P	C		B				
WATER TEMPERATURE °C	DATE, WRITTEN BY 26.5.81 ; F.M.						
REMARKS		AQUIFER Clayey sand with limestone, clayey granite		Weathered granite			
				T.c. sec. w. steel plug			

BOREHOLE COMPLETION RECORD

LOCATION: <i>Mantaronc village, Fringa</i>						BH NO. <i>7/81</i> CCKK NO. <i>206</i>	
COORDINATES: <i>27410 ; 35445</i>				ELEVATION: <i> </i> m.asl		MAP NO.	
COMPLETION DATE: <i> </i>				DRILL. METHOD: <i>Air</i>		<i>Q05232</i>	
DRILLER/ORGANIZATION: <i> </i>				DRILL UNIT NO. <i>45</i>			
CLIENT: <i> </i>							
CONSTRUCTION DETAILS		DEPTH M		SYM-BOL		FORMATION DESCRIPTION	
DRILLED DEPTH M	COMPL. DEPTH M	FROM	TO				
DRILLED DIAM. MM							
DETAILS OF CASING LEFT IN BOREHOLE							
INTERNAL DIAM. MM	PLAN	PERFORATED					
CLASS	FROM	TO	FROM	TO			
SCREENING							
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO				
GRAVEL PACK MM	FROM	M	TO	M			
WATER							
WATER STRUCK							MBG
STANDING WATER LEVEL							MBG
TEST YIELD M ³ /HR MAX					STEADY		
MAXIMUM DRAWD. M					DURATION TEST	MIN	
T (M ² /SEC)					r ² ws (M ²)		
METHOD OF PUMPING							
SUCTION/AIR OUTLET SET AT							MBG
APPARENT QUALITY OF WATER							
WATER ANALYSIS	P		C		B		
WATER TEMPERATURE	°C						DATE, WRITTEN BY
AQUIFER				REMARKS			

BOREHOLE COMPLETION RECORD

LOCATION: <i>Ndolezi village, Franga</i>	BH NO. <i>55A1</i> CCKK NO. <i>151</i>
COORDINATES: <i>2°12' S; 37°42' E</i> ELEVATION: <i> </i> m.asl	MAP NO.
COMPLETION DATE: <i>24/4-81</i> DRILL. METHOD: <i>auger</i>	<i>ADS 232</i>
DRILLER/ORGANIZATION: <i>F. Lyimo, Maji</i>	DRILL UNIT NO. <i>53</i>
CLIENT: <i>Water Master Plan</i>	

DEPTH M	SYM- BOL	FORMATION DESCRIPTION DATE
<i>1.5</i>	<i>C</i>	<i>black mbuga soils</i>
<i>13.7</i>	<i>Ck</i>	<i>white kaolin clays</i>
<i>22.8</i>	<i>T₁</i>	<i>brown lateritic soils</i>
<i>30.4</i>	<i>Pw</i>	<i>very weathered biotite gneiss</i>
AQUIFER <i>weathered zone</i>		
REMARKS		

CONSTRUCTION DETAILS			
DRILLED DEPTH <i>30.4</i> M	COMPL. DEPTH	DEPTH	M
DRILLED DIAM. <i>168</i> MM	FROM	TO	
	<i>0</i>	<i>30.4</i>	
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. <i>100</i> MM	PLAN	PERFORATED	
CLASS <i>PVC</i>	FROM	FROM	TO
	<i>0</i>	<i>3.0</i>	<i>9.0</i>
SCREENING			
INTERNAL DIAM. <i> </i> MM	SLOT SIZE	FROM	TO
GRAVEL PACK <i> </i> MM	FROM	M	TO
WATER STRUCK <i> </i>	<i>4.57</i>		MBG
STANDING WATER LEVEL <i> </i>	<i>1.22</i>		MBG
TEST YIELD M ³ /HR MAX <i>4.2</i>	STEADY <i>4.1</i>		
MAXIMUM DRAWD. <i>1.4</i> M	DURATION TEST <i>120</i> MIN		
T (M ² /SEC) <i>1.4 x 10⁻³</i>	r ² ws (M ²)		
METHOD OF PUMPING <i>submersible pump</i>			
SUCTION/AIR OUTLET SET AT <i> </i>	<i>7</i>		MBG
APPARENT QUALITY OF WATER <i>good</i>			
WATER ANALYSIS	P ⊕	C ⊕	B -
WATER TEMPERATURE <i>19.0</i> °C	DATE, WRITTEN BY <i>MJJ 1/9-81</i>		

BOREHOLE COMPLETION RECORD

LOCATION: <i>Ndolezi village, Fringa</i>		BH NO. <i>5/61</i> CCKK NO. <i>ID 4</i>	
COORDINATES: <i>8°15.1' S, 35°14.9' E</i> ELEVATION: <i>m. asl</i>		MAP NO.	
COMPLETION DATE: <i>11/4-81</i> DRILL. METHOD: <i>air</i>		<i>QDS 232</i>	
DRILLER/ORGANIZATION: <i>J. Muski, Maji</i>		DRILL UNIT NO. <i>45</i>	
CLIENT: <i>Water Master Plan</i>			
DEPTH M	SYM-BOL	FORMATION BY	DESCRIPTION DATE
<i>10.6</i>	<i>N</i>	<i>red lateritic soil</i>	
<i>16.7</i>	<i>Ck</i>	<i>kaolinic clay</i>	
<i>25.9</i>	<i>Pw</i>	<i>weathered gneiss</i>	
<i>41.15</i>	<i>Pf</i>	<i>gneiss</i>	
		AQUIFER <i>weathered zone. Open hole completion below 24.38 m</i>	
		REMARKS <i>Hole blocked at 18 m. One length drillpipe lost in hole. Hole cleaned out August 1981. TD now 35.15 m. RWL 0.47 23/6-81. Yield reported very good</i>	
DATE, WRITTEN BY <i>MJJ 1/9-81</i>			
CONSTRUCTION DETAILS			
DRILLED DEPTH <i>41.15</i> M	COMPL. DEPTH <i>35.15</i> M		
DRILLED DIAM. MM	FROM TO		
<i>305</i>	<i>0 24.38</i>		
<i>152</i>	<i>24.38 41.15</i>		
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. MM	PLAN FROM TO	PERFORATED FROM TO	
<i>API / ASTM</i>	<i>152 24.38</i>		
SCREENING			
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO
GRAVEL PACK MM	FROM	M	TO
WATER			
WATER STRUCK	<i>9.14</i>	<i>12.19</i>	MBG
STANDING WATER LEVEL	<i>8.53</i>	<i>(11/4-81)</i>	MBG
TEST YIELD M ³ /HR	MAX	—	STEADY —
MAXIMUM DRAWD. — M	DURATION TEST	—	MIN
T (M ² /SEC)	—	r ² ws (M ²)	—
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT	—	—	MBG
APPARENT QUALITY OF WATER			
WATER ANALYSIS	P	C	B
WATER TEMPERATURE	°C	DATE, WRITTEN BY <i>MJJ 1/9-81</i>	

BOREHOLE COMPLETION RECORD

LOCATION: <i>Tambalangombe village, Iringa</i>		BH NO. <i>6/R1</i> CCKK NO. <i>7 D5</i>	
COORDINATES:		ELEVATION: <i>m.asl</i>	MAP NO.
COMPLETION DATE:		DRILL. METHOD: <i>Air</i>	<i>QCS 232</i>
DRILLER/ORGANIZATION:		DRILL UNIT NO. <i>45</i>	
CLIENT:			
DEPTH M	SYM-BOL	FORMATION BY	DESCRIPTION DATE
<i>12.2</i>	<i>C</i>	<i>clay</i>	
<i>33.5</i>	<i>T</i>	<i>lateritic soil</i>	
<i>53.3</i>	<i>Pw</i>	<i>weathered quartz gneiss</i>	
<i>60.96</i>	<i>Pw</i>	<i>partly weathered quartz gneiss</i>	
AQUIFER			
REMARKS			
<i>hole abandoned dry</i>			
CONSTRUCTION DETAILS			
DRILLED DEPTH <i>60.96</i> M	COMPL. DEPTH	DEPTH	M
DRILLED DIAM. MM	FROM	TO	
<i>152</i>	<i>0</i>	<i>60.96</i>	
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. MM	PLAN	PERFORATED	
CLASS	FROM	TO	FROM
			TO
SCREENING			
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO
GRAVEL PACK MM	FROM	M	TO
			M
WATER STRUCK	<i>13.71</i>		MBG
STANDING WATER LEVEL			MBG
TEST YIELD M ³ /HR	MAX	STEADY	—
MAXIMUM DRAWD. — M	DURATION TEST	—	MIN
T (M ² /SEC)	—	r ² ws (M ²)	—
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT	—	—	MBG
APPARENT QUALITY OF WATER			
WATER ANALYSIS	P	C	B
WATER TEMPERATURE	°C	DATE, WRITTEN BY	<i>MLL 1/9-81</i>

BOREHOLE COMPLETION RECORD

LOCATION: <i>Naithi village, Fringa</i>	BH NO. <i>3/81</i> CCKK NO. <i>D2</i>
COORDINATES: <i>7°40' S, 85°30' E</i> ELEVATION: <i>m.asl</i>	MAP NO.
COMPLETION DATE: <i>8/2-81</i> DRILL. METHOD: <i>mud 0-19.8</i> <i>air -60.9</i>	<i>Q05 215</i>
DRILLER/ORGANIZATION: <i>J. Musthi, Maje</i>	DRILL UNIT NO. <i>45</i>
CLIENT: <i>Water Master Plan</i>	

DEPTH M	SYM- BOL	FORMATION BY	DESCRIPTION DATE
<i>3</i>	<i>T</i>	<i>red alluvial soil</i>	
<i>20</i>	<i>Pw</i>	<i>weathered hornblende gneiss</i>	
<i>60.96</i>	<i>Pf</i>	<i>biotite gneiss</i>	
AQUIFER <i>weathered zone</i>			
REMARKS <i>open hole completion below 18.28. Artesian flow of 100 litres/hour</i>			

CONSTRUCTION DETAILS		COMPL. DEPTH		PERFORATED	
DRILLED DEPTH	<i>60.96 M</i>	FROM	TO	FROM	TO
DRILLED DIAM.	MM				
	<i>304</i>	<i>0</i>	<i>18.28</i>		
	<i>152</i>	<i>18.28</i>	<i>60.96</i>		
DETAILS OF CASING LEFT IN BOREHOLE					
INTERNAL DIAM.	MM	PLAN	FROM	TO	TO
CLASS					
	<i>203</i>	<i>0</i>	<i>18.28</i>		
SCREENING					
INTERNAL DIAM.	MM	SLOT SIZE	FROM	TO	TO
TYPE					
GRAVEL PACK	MM	FROM	M	TO	M
WATER					
WATER STRUCK	<i>surface</i>				
STANDING WATER LEVEL	<i>0.5 above ground</i>				
TEST YIELD M ³ /HR	MAX	<i>1.1</i>	STEADY	<i>1.1</i>	
MAXIMUM DRAWD.	<i>16 M</i>	DURATION TEST	<i>50 MIN</i>		
T (M ² /SEC)	<i>3.2 x 10⁻⁶</i>	r ² ws (M ²)	<i>2.7 x 10⁻³</i>		
METHOD OF PUMPING <i>submersible pump</i>					
SUCTION/AIR OUTLET SET AT	<i>18 MBG</i>				
APPARENT QUALITY OF WATER	<i>good</i>				
WATER ANALYSIS	P	C	YES	B	
WATER TEMPERATURE	<i>25.5 °C</i>		DATE, WRITTEN BY <i>MJJ</i> <i>1/9-81</i>		

BOREHOLE COMPLETION RECORD

LOCATION: <i>Mloa village, Iringa</i>		BH NO. <i>4/81</i> CCKK NO. <i>T D 3</i>	
COORDINATES: <i>7°40' S, 35°21' E</i>		ELEVATION: <i>m.asl</i>	MAP NO.
COMPLETION DATE: <i>25/3 -81</i>		DRILL. METHOD: <i>air/mud</i>	<i>QDS 214</i>
DRILLER/ORGANIZATION: <i>J. Musiki, Maji</i>		DRILL UNIT NO. <i>45</i>	
CLIENT: <i>Water Master Plan</i>			

DEPTH M	SYM-BOL	FORMATION DESCRIPTION BY DATE
<i>1.5</i>	<i>T</i>	<i>red sandy soil</i>
<i>19.8</i>	<i>S</i>	<i>coarse angular alluvium</i>
<i>60.96</i>	<i>Pf</i>	<i>fresh biotite gneiss</i>

CONSTRUCTION DETAILS		COMPL. DEPTH <i>60.96</i> M	
DRILLED DEPTH <i>60.96</i> M	MM	FROM	TO
<i>304</i>		<i>0</i>	<i>19.8</i>
<i>152</i>		<i>19.8</i>	<i>60.96</i>

DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. MM	PLAN	PERFORATED FROM	TO
<i>ASTM 203</i>	<i>0</i>	<i>19.8</i>	

SCREENING			
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO

GRAVEL PACK	MM	FROM	M	TO	M

WATER	
WATER STRUCK	<i>22.8, 30.4</i> MBG
STANDING WATER LEVEL	<i>8.5</i> MBG
TEST YIELD M ³ /HR MAX	<i>STEADY 0.9</i>
MAXIMUM DRAWD. <i>33.7</i> M	DURATION TEST <i>420</i> MIN
T (M ² /SEC) <i>7.6 x 10⁻⁶</i>	r ² WS (M ²) <i>3.8 x 10⁻⁴</i>

METHOD OF PUMPING <i>submersible pump</i>	
SUCTION/AIR OUTLET SET AT <i>42</i>	MBG
APPARENT QUALITY OF WATER <i>problems</i>	
WATER ANALYSIS P ⊕ C ⊕ B	
WATER TEMPERATURE °C	DATE, WRITTEN BY <i>AMU 1/9 -81</i>

AQUIFER	REMARKS
<i>alluvium / fractured gneiss</i>	<i>water quality marginal.</i> <i>EC 3450 µmhos. SWL 7.62</i> <i>24/6 -81. Open hole completion be-</i> <i>low 19.8 m</i>

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REG, IRINGA DISTR, KINYWANGANGA VIL	BH NO. 48/80 CCKK NO.
COORDINATES: 7°35.4'S ; 35°43.6'E ELEVATION: m.asl	MAP NO.
COMPLETION DATE: 28.6.80 DRILL. METHOD:	Q.D.S. 215

DRILLER/ORGANIZATION: MAJI DRILL UNIT NO.

CLIENT: REGIONAL WATER ENGINEER

DEPTH M	SYM- BOL	FORMATION BY	DESCRIPTION DATE
0			
1.5	T		Top soil redish brown
6.0	Rw		Weathered granite
11.0	Rw		Mixture of granite & sand
30	Pw		fractured granite
40	Pw		Mixture of granite & sand
48	Pw		Weathered granite
53	P		Granite
55	S		Very fine grained sand
80	Rw		Mixture of sand & weathered granite
81	Ci		Dark-brown clay and silt.
90	P		Mixture of sand and granite
97	Pw		Weathered granite
100	Pf		fresh granite

CONSTRUCTION DETAILS		COMPL. DEPTH 91.4 M	
DRILLED DEPTH 91.4 M	FROM	TO	91.4 M
DRILLED DIAM. MM	314	1.5	
	254	7.6	
	165	91.4	
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. MM	PLAN	PERFORATED	
CLASS	FROM TO	FROM TO	
	260 -0.3	1.2	
	200 1.2	7.6	
SCREENING			
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO
GRAVEL PACK MM	FROM	M	TO
			M
WATER			
WATER STRUCK	88.3		MBG
STANDING WATER LEVEL	8.0		MBG
TEST YIELD M ³ /HR MAX	0.38	STEADY	
MAXIMUM DRAWD. — M		DURATION TEST	30 MIN
T (M ² /SEC)		r ² ws (M ²)	
METHOD OF PUMPING <i>electrical pump</i>			
SUCTION/AIR OUTLET SET AT	79.2		MBG
APPARENT QUALITY OF WATER			
WATER ANALYSIS	P	C	B
WATER TEMPERATURE	°C	DATE, WRITTEN BY	25.5.81 ; F.M.

AQUIFER
WEATHERED GRANITE

REMARKS
The borehole is dry
-T.C. sec. w. thread protector

BOREHOLE COMPLETION RECORD

LOCATION: <i>Nachi village</i>		BH NO. <i>2181</i> CCKK NO. <i>7D1</i>	
COORDINATES: <i>7°42'N, 80°05'E</i>		ELEVATION: <i>m.asl</i>	MAP NO.
COMPLETION DATE: <i>14/1-81</i>		DRILL. METHOD: <i>air</i>	<i>QDS 215</i>
DRILLER/ORGANIZATION: <i>J. Mushi, Maji</i>		DRILL UNIT NO. <i>45</i>	
CLIENT: <i>Water Master Plan</i>			
CONSTRUCTION DETAILS		DEPTH M	SYMBOL
DRILLED DEPTH <i>30.48</i> M	COMPL. DEPTH <i>30.48</i> M	<i>4.6</i>	<i>T</i>
DRILLED DIAM. MM	FROM TO		
<i>304</i>	<i>0 24.38</i>		
<i>203</i>	<i>24.38 30.48</i>	<i>24.38</i>	<i>Pw</i>
DETAILS OF CASING LEFT IN BOREHOLE		<i>30.48</i>	<i>Pf</i>
INTERNAL DIAM. MM	PLAN FROM TO	PERFORATED FROM TO	
<i>203</i>	<i>0 24.3</i>		
SCREENING			
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO
<i>Pressure stainless 203</i>	<i>10</i>	<i>14.3</i>	<i>24.38</i>
GRAVEL PACK MM	FROM M	TO M	M
WATER			
WATER STRUCK	<i>19.8</i>		MBG
STANDING WATER LEVEL	<i>5.48</i>		MBG
TEST YIELD M ³ /HR MAX		STEADY	<i>1.5</i>
MAXIMUM DRAWD. <i>1.1</i> M	DURATION TEST <i>20</i> MIN		
T (M ² /SEC) <i>1.1 x 10⁻⁴</i>	r ² ws (M ²)		
METHOD OF PUMPING <i>submersible pump</i>			
SUCTION/AIR OUTLET SET AT	<i>12</i>		MBG
APPARENT QUALITY OF WATER <i>not clean</i>			
WATER ANALYSIS	P	C	B
WATER TEMPERATURE	°C		
AQUIFER <i>weathered zone in granite</i>		REMARKS <i>TD measured 23/6-81 22.3</i> <i>SUL 4.60 23/6-81. Recorder fit-</i> <i>ted to hole 23/6-81.</i>	
DATE, WRITTEN BY <i>MJS 1/9-81</i>			

BOREHOLE COMPLETION RECORD

LOCATION: REGION: IRINGA DISTRICT: IRINGA		VILLAGE: MTERA		BH NO. 93/79 CCKK NO.	
COORDINATES: 7°08.3'S, 35°48.8E		ELEVATION: m.asl		MAP NO.	
COMPLETION DATE: 23.10.79		DRILL. METHOD:		Q.D.S. 197	
DRILLER/ORGANIZATION: MAJ'			DRILL UNIT NO.		
CLIENT: R.W.F.					
FORMATION DESCRIPTION BY DATE		SYM-BOL		DEPTH M	
Reddish-brown soil		T		0	
Brownish sand, fine grained		S		1.5	
Fine silt, yellowish		I		3	
Brown silt		I		9.1	
Yellowish-brown clay		C		10.7	
Yellowish-brown, fine sand mixed with clay.		Sc		21.3	
Hornblende gneiss		P		29	
Weathered gneiss		Pw		32	
Micaceous granite gneiss		P		39.6	
Granite-gneiss		P		51.8	
Weathered gneiss		Pw		82.3	
Dark-gray granite gneiss		P		91.4	
AQUIFER		MICACEOUS GRANITE GNEISS - GRANITE GNEISS		REMARKS	
				T.C. sec. W. thread protector	
CONSTRUCTION DETAILS					
DRILLED DEPTH 91.4 M	COMPL. DEPTH 91.4 M	FROM	TO	FROM	TO
DRILLED DIAM. 340 MM	0	4.6	33.5		
254	4.6	33.5	34.4		
200	33.5	34.4	91.4		
165	34.4				
DETAILS OF CASING LEFT IN BOREHOLE					
INTERNAL DIAM. MM	PLAN	TO	FROM	PERFORATED	
CLASS	FROM	TO	FROM	FROM	TO
254	0.4	11.8			
152	11.8	46.8			
SCREENING					
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO	FROM	TO
GRAVEL PACK MM FROM M TO M					
WATER					
WATER STRUCK 411 ; 71.6		MBG			
STANDING WATER LEVEL 23		MBG			
TEST YIELD M ³ /HR MAX 16	STEADY 13.8				
MAXIMUM DRAWD. 2.25 M	DURATION TEST 1440 MIN				
T (M ² /SEC) 6x10 ⁻⁴	r _w ² S (M ²)				
METHOD OF PUMPING Pump.					
SUCTION/AIR OUTLET SET AT 79.2		MBG			
APPARENT QUALITY OF WATER					
WATER ANALYSIS P	C	X	B		
WATER TEMPERATURE °C	DATE, WRITTEN BY 25.5.81 ; F.M.				

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA REGION; IRINGA DISTRICT; KINYANGANGA VILLAGE				BH NO. 9/80 CCKK NO.		
COORDINATES: 7°35.4'S; 35°43.6'E			ELEVATION: m.asl		MAP NO.	
COMPLETION DATE: 15.1.80			DRILL. METHOD:		Q.O.S. 215	
DRILLER/ORGANIZATION: MAJI			DRILL UNIT NO.			
CLIENT: REGIONAL WATER ENGINEER						
CONSTRUCTION DETAILS		DRILLED DEPTH 792 M	COMPL. DEPTH 79.2 M	DEPTH M	SYM-BOL	FORMATION DESCRIPTION DATE
		DRILLED DIAM. 165 MM	FROM 0 TO 79.2			
DETAILS OF CASING LEFT IN BOREHOLE				9.1	Rw	Medium to coarse granite & sandstone
INTERNAL DIAM. CLASS	MM	PLAN FROM	PERFORATED TO	12.2	T	Reddish to dark-brown silt
				13.7	Rw	Weathered granite
	none			18.3	Rw	Mixture of sand and weathered granite
				21.3	Rw	Weathered granite
				27.4	Pf	Fresh granite
				36.6	Rw	Fractured granite
SCREENING				45.7	SS	Sandstone
				64.0	PSS	Mixture of sand and granite formation - dark-green
INTERNAL DIAM. TYPE	MM	SLOT SIZE FROM	TO	74.7	Rw	Granite, slightly weathered
	none			79.2	PS	Mixture of sand and granite
GRAVEL PACK	MM	FROM	M TO			
WATER						
WATER STRUCK						
STANDING WATER LEVEL						
TEST YIELD M ³ /HR	MAX		STEADY			
MAXIMUM DRAWD.	M	DURATION TEST	MIN			
T (M ² /SEC)		r ² ws (M ²)				
METHOD OF PUMPING						AQUIFER
SUCTION/AIR OUTLET SET AT						Weathered granite
APPARENT QUALITY OF WATER						
WATER ANALYSIS	P	C	B			
WATER TEMPERATURE	°C	DATE, WRITTEN BY	25.5.81; F.M.			
REMARKS						The borehole is dry

BOREHOLE COMPLETION RECORD

LOCATION: REG., IRINGA, DIST. IRINGA, ULL., ISMAN, KINYANGANGA						BH NO. 17/78 CCKK NO.	
COORDINATES: 7°35'S, 35°43.4'E				ELEVATION: m.asl		MAP NO.	
COMPLETION DATE: 22.2.78				DRILL. METHOD:		Q.D.S. 215	
DRILLER/ORGANIZATION:				DRILL UNIT NO.			
CLIENT:							
CONSTRUCTION DETAILS		DEPTH M		SYM-BOL		FORMATION DESCRIPTION DATE	
DRILLED DEPTH 97.5 M	COMPL. DEPTH 97.5 M						
DRILLED DIAM. MM	FROM	TO					
250	0	2.4					Sc Sand with reddish clay
165	2.4	97.5					Pw Weathered granite
DETAILS OF CASING LEFT IN BOREHOLE							
INTERNAL DIAM. MM	PLAN	PERFORATED					P Granite
CLASS	FROM	TO	FROM	TO			P Granite gneiss
							P Granite
SCREENING							
INTERNAL DIAM. MM	SLOT SIZE		FROM	TO			
GRAVEL PACK							
WATER	MM	FROM	M	TO	M		
WATER STRUCK							
STANDING WATER LEVEL							
TEST YIELD M ³ /HR MAX							
MAXIMUM DRAWD. M							
T (M ² /SEC)							
METHOD OF PUMPING							
SUCTION/AIR OUTLET SET AT							
APPARENT QUALITY OF WATER							
WATER ANALYSIS	P	C					
WATER TEMPERATURE	°C						
AQUIFER Weathered granite							
REMARKS							
DATE, WRITTEN BY 25.5.81 ; F.M.							

BOREHOLE COMPLETION RECORD

LOCATION: REG., IRINGA. DISTR., IRINGA. VILL., MTERA						BH NO. 65/79 CCKK NO.	
COORDINATES: 7°08.3'S, 35°48.8'E				ELEVATION: m.asl		MAP NO..	
COMPLETION DATE: 20.8.79				DRILL. METHOD:		Q.D.S. 197	
DRILLER/ORGANIZATION: MAJI				DRILL UNIT NO.			
CLIENT: R.W.E.							
CONSTRUCTION DETAILS		DRILLED DEPTH 121.9 M	COMPL. DEPTH 121.9 M	FORMATION DESCRIPTION DATE			
		DRILLED DIAM. MM	FROM TO				
310	0 16.8	SYM-BOL	DATE				
254	16.9 21.3			CS	Red clay and sand		
165	21.3 121.9	SG	Sand and gravel				
DETAILS OF CASING LEFT IN BOREHOLE				SG	Gravel and sand	DEPTH M	DESCRIPTION
INTERNAL DIAM. MM	PLAN FROM TO	PERFORATED FROM TO	Pw	Weathered rock and silt			
CLASS	PL., 200	16.8	Pw	Weathered rock	45.7	AQUIFER	Gravel and sand, weathered rock & silt
SCREENING			P	Granite rock	76.2		
INTERNAL DIAM. MM					112.8		
TYPE					121.9	REMARKS	
GRAVEL PACK MM	FROM M TO M					T.C. sec. w. wooden plug	
WATER							
WATER STRUCK							
STANDING WATER LEVEL							
TEST YIELD M ³ /HR	MAX	STEADY					
MAXIMUM DRAWD. M	DURATION TEST	MIN					
T (M ² /SEC)	r ² ws (M ²)						
METHOD OF PUMPING							
SUCTION/AIR OUTLET SET AT MBG							
APPARENT QUALITY OF WATER							
WATER ANALYSIS	P	C	B				
WATER TEMPERATURE	°C	DATE, WRITTEN BY		25.5.81; f.m.			

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA; IRINGA; IZAZI						BH NO. 227/77 CCKK NO.	
COORDINATES: 7°14'8"S, 35°43.9'E						ELEVATION: m.asl	
COMPLETION DATE: 9.12.77						DRILL. METHOD:	
DRILLER/ORGANIZATION: MAJI						DRILL UNIT NO.	
CLIENT: R.W.E.							
CONSTRUCTION DETAILS		DEPTH M		SYM-BOL		FORMATION DESCRIPTION DATE	
DRILLED DEPTH 91.4 M	COMPL. DEPTH 91.4 M	TO	0	Sc	Sand varieties any clay		
DRILLED DIAM. 250 MM	FROM 0	18.3	6.1	SG	Gravel & sand var., ls.		
	FROM 18.3	91.4	21.3	Rw	Weathered rock		
			27.4	Pw	Weathered granite		
DETAILS OF CASING LEFT IN BOREHOLE			42.7	Pf	Fresh granite		
INTERNAL DIAM. 200 STEEL	PLAN FROM -0.3	TO 18.0	91.4				
CLASS 150 STEEL	FROM 18.0	TO 38.4					
SCREENING							
INTERNAL DIAM. TYPE 150	SLOT SIZE	FROM TO					
GRAVEL PACK	MM FROM	M TO					
WATER							
WATER STRUCK	28.9; 38.1; 45.7						
STANDING WATER LEVEL	22.2						
TEST YIELD M ³ /HR	MAX 18	STEADY 9.6					
MAXIMUM DRAWD. 23.8 M	DURATION TEST 720 MIN						
T (M ² /SEC) 3.5 x 10 ⁻⁵	r ² WS (M ²) 0,063						
METHOD OF PUMPING		AIRLIFT					
SUCTION/AIR OUTLET SET AT	79.2	MBG					
APPARENT QUALITY OF WATER							
WATER ANALYSIS	P	C	X	B			
WATER TEMPERATURE	°C	DATE, WRITTEN BY	26.5.81; F.M.				
REMARKS		Open hole w. cap					
AQUIFER		Gravel & sand, weathered granite					

BOREHOLE COMPLETION RECORD

LOCATION: IRINGA-REG. IRINGA DISTR., KINYANG'WANG'WA VILLAGE		BH NO. 251/77 CCKK NO.	
COORDINATES: 2°40'0", 37°32' E		ELEVATION: m.asl	MAP NO.
COMPLETION DATE: 27.1.78		DRILL. METHOD:	QDS 215
DRILLER/ORGANIZATION: MAJI		DRILL UNIT NO.	
CLIENT: R.W.E			
CONSTRUCTION DETAILS		DEPTH M	FORMATION DESCRIPTION BY DATE
DRILLED DEPTH 1370 M	COMPL. DEPTH 1370 M	0-3.0	Sand with reddish clay
DRILLED DIAM. MM	FROM TO	30-36.6	Weathered granite
250	0 6.1	36.6-76.2	Granite
165	6.1 1370	76.2-96.0	Granite gneiss
DETAILS OF CASING LEFT IN BOREHOLE		96.0-1370	Fresh granite
INTERNAL DIAM. MM	PLAN FROM TO		
CLASS	PERFORATED FROM TO		
200	0.3 6		
SCREENING			
INTERNAL DIAM. MM	SLOT SIZE	FROM TO	
GRAVEL PACK MM FROM M TO M			
WATER			
WATER STRUCK MBG			
STANDING WATER LEVEL dry MBG			
TEST YIELD M ³ /HR MAX	STEADY		
MAXIMUM DRAWD. M	DURATION TEST	MIN	
T (M ² /SEC)	r ² ws (M ²)		
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT MBG			
APPARENT QUALITY OF WATER			
WATER ANALYSIS	P	C	B
WATER TEMPERATURE	°C	DATE; WRITTEN BY 26.5.81; F.M.	

AQUIFER

REMARKS

BOREHOLE COMPLETION RECORD

LOCATION: <i>Noblezi village, Fringa</i>		BH NO. <i>56/81</i> CCKK NO. <i>152</i>																																																																																					
COORDINATES: <i>2°15'15" S ; 35°14'15" E</i>		ELEVATION: <i>m.asl</i>	MAP NO. <i>QCS 232</i>																																																																																				
COMPLETION DATE: <i>25/4-81</i>		DRILL. METHOD: <i>auger</i>																																																																																					
DRILLER/ORGANIZATION: <i>F. Lyimo, Maye</i>		DRILL UNIT NO. <i>53</i>																																																																																					
CLIENT: <i>Water Master Plan</i>																																																																																							
FORMATION BY	DESCRIPTION	DEPTH M	SYM-BOL																																																																																				
	<i>black mbuga soils</i>	<i>1.5</i>	<i>T</i>																																																																																				
	<i>black/white mottled soils, clay</i>	<i>3</i>	<i>C</i>																																																																																				
	<i>koolin - white clay soils</i>	<i>6.0</i>	<i>C</i>																																																																																				
	<i>brownish laterite soils</i>	<i>13.7</i>	<i>Ti</i>																																																																																				
	<i>weathered biotite granite</i>	<i>22.8</i>	<i>Pw</i>																																																																																				
	<i>biotite granite</i>	<i>24.38</i>	<i>Pb</i>																																																																																				
AQUIFER <i>weathered zone biotite granite</i>																																																																																							
REMARKS <i>Test abandoned when screen was blocked.</i>																																																																																							
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="4">CONSTRUCTION DETAILS</td> </tr> <tr> <td>DRILLED DEPTH</td> <td><i>24.38</i> M</td> <td>COMPL. DEPTH</td> <td>M</td> </tr> <tr> <td>DRILLED DIAM.</td> <td>MM</td> <td>FROM</td> <td>TO</td> </tr> <tr> <td></td> <td><i>148</i></td> <td><i>0</i></td> <td><i>24.38</i></td> </tr> <tr> <td colspan="4">DETAILS OF CASING LEFT IN BOREHOLE</td> </tr> <tr> <td>INTERNAL DIAM. CLASS</td> <td>MM</td> <td>PLAN FROM</td> <td>PERFORATED FROM TO</td> </tr> <tr> <td></td> <td><i>pvc</i></td> <td><i>0</i></td> <td><i>1.5</i> <i>7.5</i></td> </tr> <tr> <td colspan="4">SCREENING</td> </tr> <tr> <td>INTERNAL DIAM. TYPE</td> <td>MM</td> <td>SLOT SIZE</td> <td>FROM TO</td> </tr> <tr> <td>GRAVEL PACK</td> <td>MM</td> <td>FROM M</td> <td>TO M</td> </tr> <tr> <td>WATER</td> <td></td> <td></td> <td></td> </tr> <tr> <td>WATER STRUCK</td> <td></td> <td><i>2.44</i></td> <td>MBG</td> </tr> <tr> <td>STANDING WATER LEVEL</td> <td></td> <td><i>1.06</i></td> <td>MBG</td> </tr> <tr> <td>TEST YIELD M³/HR</td> <td>MAX</td> <td><i>1.5</i></td> <td>STEADY <i>1.5</i></td> </tr> <tr> <td>MAXIMUM DRAWD.</td> <td><i>2.8</i> M</td> <td>DURATION TEST</td> <td><i>90</i> MIN</td> </tr> <tr> <td>T (M²/SEC)</td> <td></td> <td>r²ws (M²)</td> <td></td> </tr> <tr> <td colspan="4">METHOD OF PUMPING <i>submersible pump</i></td> </tr> <tr> <td>SUCTION/AIR OUTLET SET AT</td> <td></td> <td><i>6</i></td> <td>MBG</td> </tr> <tr> <td colspan="4">APPARENT QUALITY OF WATER <i>good</i></td> </tr> <tr> <td>WATER ANALYSIS</td> <td>P ⊕</td> <td>C ⊕</td> <td>B —</td> </tr> <tr> <td>WATER TEMPERATURE</td> <td><i>19.0</i> °C</td> <td>DATE, WRITTEN BY</td> <td><i>MJJ 1/9-81</i></td> </tr> </table>				CONSTRUCTION DETAILS				DRILLED DEPTH	<i>24.38</i> M	COMPL. DEPTH	M	DRILLED DIAM.	MM	FROM	TO		<i>148</i>	<i>0</i>	<i>24.38</i>	DETAILS OF CASING LEFT IN BOREHOLE				INTERNAL DIAM. CLASS	MM	PLAN FROM	PERFORATED FROM TO		<i>pvc</i>	<i>0</i>	<i>1.5</i> <i>7.5</i>	SCREENING				INTERNAL DIAM. TYPE	MM	SLOT SIZE	FROM TO	GRAVEL PACK	MM	FROM M	TO M	WATER				WATER STRUCK		<i>2.44</i>	MBG	STANDING WATER LEVEL		<i>1.06</i>	MBG	TEST YIELD M ³ /HR	MAX	<i>1.5</i>	STEADY <i>1.5</i>	MAXIMUM DRAWD.	<i>2.8</i> M	DURATION TEST	<i>90</i> MIN	T (M ² /SEC)		r ² ws (M ²)		METHOD OF PUMPING <i>submersible pump</i>				SUCTION/AIR OUTLET SET AT		<i>6</i>	MBG	APPARENT QUALITY OF WATER <i>good</i>				WATER ANALYSIS	P ⊕	C ⊕	B —	WATER TEMPERATURE	<i>19.0</i> °C	DATE, WRITTEN BY	<i>MJJ 1/9-81</i>
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WATER TEMPERATURE	<i>19.0</i> °C	DATE, WRITTEN BY	<i>MJJ 1/9-81</i>																																																																																				

BOREHOLE COMPLETION RECORD

LOCATION: <i>Ndolezi village, Iringa</i>		BH NO. <i>57/81</i> CCKK NO. <i>15 3</i>	
COORDINATES: <i>8°15.15'S ; 35°14.9'E</i>		ELEVATION: <i>m. asl</i>	MAP NO. <i>QDS232</i>
COMPLETION DATE: <i>28/4 81</i>		DRILL. METHOD: <i>auger</i>	
DRILLER/ORGANIZATION: <i>F. Lyimo, Maji</i>		DRILL UNIT NO. <i>53</i>	
CLIENT: <i>Water Master Plan</i>			

DEPTH M	SYM-BOL	FORMATION BY	DESCRIPTION DATE
<i>1.5</i>	<i>T</i>	<i>black ubuga soil</i>	
<i>4.5</i>	<i>C</i>	<i>brownish clay soils</i>	
<i>15.2</i>	<i>C</i>	<i>whitish clay soils</i>	
<i>18.2</i>	<i>T_i</i>	<i>tatonitic clay soils</i>	
<i>25.9</i>	<i>T_i</i>	<i>tatonitic soils</i>	
<i>30.4</i>	<i>Pw</i>	<i>weathered biotite granite</i>	

CONSTRUCTION DETAILS			
DRILLED DEPTH	30.4 M	COMPL. DEPTH	30.4 M
DRILLED DIAM.	MM	FROM	TO
	<i>168</i>	<i>0</i>	<i>30.4</i>
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. CLASS	MM	PLAN FROM	PERFORATED TO
SCREENING			
INTERNAL DIAM. TYPE	MM	SLOT SIZE	FROM TO
GRAVEL PACK	MM	FROM	TO
WATER			
WATER STRUCK		<i>1.8</i>	MBG
STANDING WATER LEVEL		<i>1.2</i>	MBG
TEST YIELD M ³ /HR	MAX	—	STEADY —
MAXIMUM DRAWD.	— M	DURATION TEST	— MIN
T (M ² /SEC)	—	r ² ws (M ²)	—
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT	—	—	MBG
APPARENT QUALITY OF WATER			
WATER ANALYSIS	P	C	B
WATER TEMPERATURE	°C	DATE, WRITTEN BY	<i>RLU 1/9 81</i>

AQUIFER	<i>weathered zone</i>
REMARKS	<i>hole completely cased off</i>

BOREHOLE COMPLETION RECORD

LOCATION: <i>Mboa village, Iringa</i>		BH NO. <i>58/81</i> CCKK NO. <i>13 4</i>	
COORDINATES: <i>7°47.25'S ; 35°23.2'E</i>		ELEVATION: <i>m.asl</i>	MAP NO.
COMPLETION DATE:		DRILL. METHOD: <i>auger</i>	<i>QDS 214</i>
DRILLER/ORGANIZATION: <i>F. Lyimo, Maji</i>		DRILL UNIT NO. <i>53</i>	
CLIENT: <i>Water Master Plan</i>			

DEPTH M	SYM- BOL	FORMATION BY	DESCRIPTION DATE
<i>1.5</i>	<i>T</i>	<i>light brown sandy soil</i>	
<i>6</i>	<i>S</i>	<i>sandy alluvium</i>	
<i>9.0</i>	<i>Si</i>	<i>silty sand</i>	
<i>15</i>	<i>Pw</i>	<i>weathered granite</i>	
<i>18.2</i>	<i>Pw</i>	<i>friable granite/gneiss</i>	

CONSTRUCTION DETAILS		COMPL. DEPTH		M	
DRILLED DEPTH <i>18.28</i> M	FROM	TO			
DRILLED DIAM. <i>168</i> MM	FROM	TO			
	<i>0</i>	<i>18.28</i>			
DETAILS OF CASING LEFT IN BOREHOLE					
INTERNAL DIAM. <i>168</i> MM	PLAN	PERFORATED			
CLASS	FROM	TO	FROM	TO	
SCREENING					
INTERNAL DIAM. <i>168</i> MM	SLOT SIZE	FROM	TO		
GRAVEL PACK <i>168</i> MM	FROM	M	TO	M	
WATER					
WATER STRUCK <i>7.62</i>	MBG				
STANDING WATER LEVEL <i>3.20</i>	MBG				
TEST YIELD <i>2.7</i> M ³ /HR	MAX	<i>1.7</i>	STEADY	<i>1.7</i>	
MAXIMUM DRAWD. <i>2.2 x 10⁻⁵</i> M	DURATION TEST <i>16</i> MIN				
T (M ² /SEC) <i>2.2 x 10⁻⁵</i>	r ² ws (M ²) <i>3.6 x 10⁻²</i>				
METHOD OF PUMPING <i>submersible pump</i>					
SUCTION/AIR OUTLET SET AT <i>12</i>	MBG				
APPARENT QUALITY OF WATER					
WATER ANALYSIS	P	—	C	—	B —
WATER TEMPERATURE — °C	DATE, WRITTEN BY <i>MLJ</i> <i>1/9-81</i>				

AQUIFER *alluvium, weathered granite*

REMARKS *hole completed with 4" UPVC casing.*

BOREHOLE COMPLETION RECORD

LOCATION: <i>Mboa village, Fringa</i>				BH NO. <i>59/81</i> CCKK NO. <i>75 5</i>	
COORDINATES: <i>7°40' S ; 35°23.1 E</i> ELEVATION: <i>m.asl</i>				MAP NO. <i>Q05214</i>	
COMPLETION DATE: <i>13/5-81</i> DRILL. METHOD: <i>auger</i>					
DRILLER/ORGANIZATION: <i>F. Lyimo, Maji</i>				DRILL UNIT NO. <i>53</i>	
CLIENT: <i>Water Master Plan</i>					
CONSTRUCTION DETAILS		DEPTH M		SYMBOL	
DRILLED DEPTH <i>19.8</i> M	COMPL. DEPTH	1.5	T	FORMATION DESCRIPTION DATE	
DRILLED DIAM. <i>168</i> MM	FROM	6	Ci	<i>light grey top soil</i>	
	TO	10.6	Pw	<i>silty clay with</i>	
		19.8	Pw	<i>plagioclase</i>	
DETAILS OF CASING LEFT IN BOREHOLE				<i>weathered biotite gneiss</i>	
INTERNAL DIAM. <i>100</i> MM	PLAN FROM	19.8		<i>friable biotite gneiss</i>	
CLASS <i>UPVC</i>	TO				
	PERFORATED FROM				
	TO				
SCREENING					
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO		
		0	2.1		
		2.1	19.7		
GRAVEL PACK MM	FROM	M	TO	AQUIFER	
				<i>weathered zone</i>	
WATER STRUCK	<i>10.67</i>				
STANDING WATER LEVEL	<i>3.65</i>				
TEST YIELD M ³ /HR	MAX	STEADY	MIN		
MAXIMUM DRAWD. M	DURATION TEST	MIN			
T (M ² /SEC)					
METHOD OF PUMPING				REMARKS	
SUCTION/AIR OUTLET SET AT				<i>Living last i borehole during</i>	
APPARENT QUALITY OF WATER	<i>not good?</i>			<i>development.</i>	
WATER ANALYSIS	P	C	B		
WATER TEMPERATURE	°C	DATE, WRITTEN BY <i>MLJ</i>		<i>1/9-81</i>	

BOREHOLE COMPLETION RECORD

LOCATION: <i>Mloa village, Fringa</i>		BH NO. <i>60/81</i> CCKK NO. <i>IS 6</i>	
COORDINATES: <i>7°40.5' S; 35°23.1' E</i> ELEVATION: <i>m.asl</i>		MAP NO. <i>065214</i>	
COMPLETION DATE: <i>15/5-81</i> DRILL. METHOD: <i>auger</i>			
DRILLER/ORGANIZATION: <i>F. Lyimo, Maji</i>		DRILL UNIT NO. <i>53</i>	
CLIENT: <i>Water Master Plan</i>			
DEPTH M	SYM- BOL	FORMATION DESCRIPTION DATE	
<i>1.5</i>	<i>T</i>	<i>top soil, dark brown</i>	
<i>3</i>	<i>C</i>	<i>light greyish clay</i>	
<i>7.6</i>	<i>Pw</i>	<i>weathered gneiss</i>	
<i>10.7</i>	<i>Pw</i>	<i>weathered biotite gneiss</i>	
<i>11.3</i>	<i>Pf</i>	<i>fresh biotite gneiss</i>	
			AQUIFER <i>weathered zone</i>
			REMARKS <i>Testing impossible, but yield during airlift good.</i>
CONSTRUCTION DETAILS			
DRILLED DEPTH <i>11.27</i> M	COMPL. DEPTH <i>11.27</i> M	FROM	TO
DRILLED DIAM. <i>168</i> MM		<i>0</i>	<i>11.27</i>
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. <i>100</i> MM	PLAN	PERFORATED	
CLASS <i>PVC</i>	FROM	FROM	TO
	<i>0</i>	<i>2.16</i>	<i>11.27</i>
SCREENING			
INTERNAL DIAM. <i>100</i> MM	SLOT SIZE	FROM	TO
GRAVEL PACK <i>8.53</i> M FROM <i>3.96</i> M TO <i>11.27</i> M			
WATER			
WATER STRUCK		MBG	
STANDING WATER LEVEL		MBG	
TEST YIELD <i>M³/HR</i> MAX		STEADY	
MAXIMUM DRAWD. <i>M</i>		DURATION TEST	
T (<i>M²/SEC</i>)		<i>r_w²S (M²)</i>	
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT		MBG	
APPARENT QUALITY OF WATER <i>good</i>			
WATER ANALYSIS	P	C	B
WATER TEMPERATURE	°C	DATE, WRITTEN BY <i>MJJ</i>	<i>1/9-81</i>

BOREHOLE COMPLETION RECORD

LOCATION: <i>Mloa, Fringa</i>		BH NO. <i>61/81</i> CCKK NO. <i>289</i>	
COORDINATES: <i>7°42.5' S ; 35°19' E</i> ELEVATION: <i>m.asl</i>		MAP NO. <i>QDS214</i>	
COMPLETION DATE: <i>16/5-81</i> DRILL. METHOD: <i>Auger</i>			
DRILLER/ORGANIZATION: <i>F. Lyimo, Maji</i>		DRILL UNIT NO. <i>53</i>	
CLIENT: <i>Water Master Plan</i>			
FORMATION BY	DESCRIPTION DATE	DEPTH M	SYM-BOL
<i>top soil, weathered feldspathic gneiss</i>	<i>weathered biotite gneiss</i>	<i>1.5</i>	<i>Pw</i>
<i>weathered biotite gneiss</i>	<i>weathered biotite muscovite gneiss</i>	<i>6.1</i>	<i>Pw</i>
		<i>16.76</i>	<i>Pw</i>
AQUIFER			
REMARKS			
<i>open hole below 9.1 m</i> <i>Insufficient water for testing</i> <i>Water level 11.3 m by 22/10-81</i>			
DATE, WRITTEN BY <i>MJJ</i> <i>1/9-81</i>			
CONSTRUCTION DETAILS			
DRILLED DEPTH <i>16.76</i> M	COMPL. DEPTH <i>16.76</i> M	FROM	TO
DRILLED DIAM. MM			
<i>168</i>	<i>0</i>	<i>0</i>	<i>16.76</i>
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. MM	PLAN FROM	TO	PERFORATED FROM TO
<i>PVC</i>	<i>100</i>	<i>0</i>	<i>9.1</i>
SCREENING			
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO
GRAVEL PACK MM	FROM	M	TO
WATER			
WATER STRUCK <i>13.71</i>			MBG
STANDING WATER LEVEL <i>9.14</i>			MBG
TEST YIELD M ³ /HR MAX	—	STEADY	—
MAXIMUM DRAWD. — M	DURATION TEST	—	MIN
T (M ² /SEC)	—	r ² ws (M ²)	—
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT	—	—	MBG
APPARENT QUALITY OF WATER			
WATER ANALYSIS	P	—	C — B —
WATER TEMPERATURE	°C		

BOREHOLE COMPLETION RECORD

LOCATION: <i>Msimbi village, Fringa</i>	BH NO. <i>62/81</i> CCKK NO. <i>25 8</i>
COORDINATES: <i>7°46.2' S, 35°13' E</i> ELEVATION: <i>m.asl</i>	MAP NO.
COMPLETION DATE: <i>28/5-81</i> DRILL. METHOD: <i>auger</i>	<i>Q05214</i>
DRILLER/ORGANIZATION: <i>F. Lyimo, Maji</i> DRILL UNIT NO. <i>53</i>	
CLIENT:	

DEPTH M	SYM- BOL	FORMATION BY	DESCRIPTION DATE
<i>1.5</i>	<i>T</i>		<i>blackish sandy earth</i>
<i>7.62</i>	<i>S</i>		<i>coarse brown sand</i>
<i>10.66</i>	<i>Cs</i>		<i>kaolinitic clay and coarse sand</i>
<i>15.2</i>	<i>Pwk</i>		<i>kaolinited weathered gneissose rock</i>
<i>30.5</i>	<i>Pw</i>		<i>weathered gneissose rock</i>
AQUIFER			
REMARKS			
<i>Open hole below 9.1 m.</i>			

CONSTRUCTION DETAILS		COMPL. DEPTH <i>30.48</i> M	DEPTH <i>30.48</i> M
DRILLED DEPTH <i>30.48</i> M	MM	FROM	TO
DRILLED DIAM. <i>168</i> MM	MM	<i>0</i>	<i>30.48</i>
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. <i>100</i> MM	MM	PLAN FROM	PERFORATED TO
CLASS <i>PVC</i>	MM	<i>0</i>	<i>9.1</i>
SCREENING			
INTERNAL DIAM. <i>100</i> MM	MM	SLOT SIZE	FROM TO
GRAVEL PACK <i>13.71</i> MM	MM	FROM	TO
WATER			
WATER STRUCK <i>13.71</i> MBG	MBG		
STANDING WATER LEVEL <i>9.14</i> MBG	MBG		
TEST YIELD <i>M³/HR</i> MAX	—	DURATION TEST	— MIN
MAXIMUM DRAWD. <i>—</i> M	—	<i>STEADY</i>	—
T (<i>M²/SEC</i>)	—	<i>r²ws (M²)</i>	—
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT	—	—	MBG
APPARENT QUALITY OF WATER			
WATER ANALYSIS	P	C	B
WATER TEMPERATURE	°C	DATE, WRITTEN BY <i>MJJ</i> <i>1/9-81</i>	

BOREHOLE COMPLETION RECORD

LOCATION: <i>Msimbi village, Fringa</i>	BH NO. <i>176/81</i> CCKK NO <i>159</i>
COORDINATES: <i>7°46.5' S; 35°12.2' E</i> ELEVATION: <i>m.asl</i>	MAP NO. <i>Q05214</i>
COMPLETION DATE: <i>30/5 -81</i> DRILL. METHOD: <i>auger</i>	
DRILLER/ORGANIZATION: <i>F. Lyimo, Maji</i>	DRILL UNIT NO. <i>53</i>
CLIENT: <i>Water Master Plan</i>	

DEPTH M	SYM- BOL	FORMATION BY	DESCRIPTION DATE			
1.5	Sc	<i>clayey sand - brown top soil</i>				
3.0	Sc	<i>blackish clay soil</i>				
10.66	Sc	<i>coarse to medium sand and clay</i>				
24.4	S	<i>coarse sand</i>				
30.5	Pw	<i>weathered gneiss reddish/brown</i>				
AQUIFER						
REMARKS				<i>hole abandoned dry cleaning of the well impossible.</i>		

CONSTRUCTION DETAILS			
DRILLED DEPTH	30.48 M	COMPL. DEPTH	M
DRILLED DIAM.	MM	FROM	TO
	<i>168</i>	<i>0</i>	<i>30.48</i>
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM.	MM	PLAN FROM	PERFORATED FROM TO
	<i>100</i>	<i>0</i>	<i>9.1</i>
SCREENING			
INTERNAL DIAM. TYPE	MM	SLOT SIZE	FROM TO
GRAVEL PACK	MM	FROM	TO
WATER			
WATER STRUCK	<i>dry</i>	MBG	
STANDING WATER LEVEL		MBG	
TEST YIELD M ³ /HR	MAX	STEADY	MIN
MAXIMUM DRAWD.	M	DURATION TEST	MIN
T (M ² /SEC)		r ² ws (M ²)	
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT		MBG	
APPARENT QUALITY OF WATER			
WATER ANALYSIS	P	C	B
WATER TEMPERATURE	°C	DATE, WRITTEN BY	MJJ 1/9-81

BOREHOLE COMPLETION RECORD

LOCATION: <i>Joddi Village, Fringa</i>		BH NO. <i>177/81</i> CCKK NO. <i>25 10</i>	
COORDINATES: <i>7°47.1' S ; 35°12.1' E</i>		ELEVATION: <i>m.asl</i>	MAP NO. <i>QDS 214</i>
COMPLETION DATE: <i>1/6-81</i>		DRILL. METHOD: <i>Auger</i>	
DRILLER/ORGANIZATION: <i>F. Lyimo, Maji</i>		DRILL UNIT NO. <i>53</i>	
CLIENT: <i>Water Master Plan</i>			
FORMATION BY	DESCRIPTION	DEPTH M	SYM-BOL
	<i>sand, earth, blackish</i>	<i>1.5</i>	<i>S</i>
	<i>med-coarse sand</i>	<i>3</i>	<i>S</i>
	<i>clay and rock fragments (quartzite gneiss)</i>	<i>10.6</i>	<i>CR</i>
	<i>clay and quartz pebbles</i>	<i>15.2</i>	<i>CR</i>
	<i>weathered brownish biotite gneiss</i>	<i>30.5</i>	<i>Pw</i>
AQUIFER <i>weathered zone</i>		REMARKS <i>Found blocked 20/10 81, and could not be cleaned below 14 m</i>	
CONSTRUCTION DETAILS			
DRILLED DEPTH	30.48 M	COMPL. DEPTH	30.48 M
DRILLED DIAM.	168 MM	FROM	TO
		0	30.48
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. CLASS	MM	PLAN FROM	PERFORATED TO
		TO	FROM
<i>PVC</i>	<i>100</i>	0	12
			12
			21.1
SCREENING			
INTERNAL DIAM. TYPE	MM	SLOT SIZE	FROM TO
GRAVEL PACK	MM	FROM	TO
		M	M
WATER			
WATER STRUCK		<i>13.10</i>	MBG
STANDING WATER LEVEL		<i>9.14</i>	MBG
TEST YIELD M ³ /HR	MAX	—	STEADY —
MAXIMUM DRAWD.	— M	DURATION TEST	— MIN
T (M ² /SEC)	—	r ² wS (M ²)	—
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT		—	MBG
APPARENT QUALITY OF WATER			
WATER ANALYSIS	P	C	B
WATER TEMPERATURE	°C	DATE, WRITTEN BY	<i>MLJ 2/9-81</i>

BOREHOLE COMPLETION RECORD

LOCATION: <i>Idodi Village, Fringa</i>		BH NO. <i>178/81</i> CCKK NO. <i>15 11</i>	
COORDINATES: <i>7°47.2' S ; 35°11.2' E</i> ELEVATION: <i>m.asl</i>		MAP NO. <i>QUS 214</i>	
COMPLETION DATE: <i>27/5-81</i> DRILL. METHOD: <i>Auger</i>			
DRILLER/ORGANIZATION: <i>F. Lyimo, Maji</i>		DRILL UNIT NO. <i>53</i>	
CLIENT: <i>Water Master Plan</i>			

DEPTH M	SYM-BOL	FORMATION BY	DESCRIPTION DATE
1.5	T	black mbuga soils	
7.6	Y	clay and quartz gneiss fragments - out-wash deposits	
9.1	C	grey kaolinetic clay	
18.2	Pwk	kaolinized biotite gneiss very weathered	
30.5	Pw	black/grey weathered biotite gneiss	

CONSTRUCTION DETAILS		COMPL. DEPTH <i>30.48</i> M	
DRILLED DEPTH <i>30.48</i> M	MM	FROM	TO
DRILLED DIAM. <i>168</i>	MM	0	<i>30.48</i>
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. <i>100</i> MM	PLAN	PERFORATED	
CLASS <i>PVC</i>	FROM	FROM	TO
	0	12	<i>24.2</i>
SCREENING			
INTERNAL DIAM. <i>10.66</i> MM	SLOT SIZE	FROM	TO
TYPE			
GRAVEL PACK <i>WATER</i>	MM	FROM	TO
WATER STRUCK <i>10.66</i> MBG			
STANDING WATER LEVEL <i>4.26</i> MBG			
TEST YIELD <i>4.5</i> M ³ /HR	MAX	STEADY	<i>4.2</i>
MAXIMUM DRAWD. <i>3.0</i> M		DURATION TEST	<i>40</i> MIN
T (<i>2.5</i> × 10 ⁻⁵) M ² /SEC		R ² WS (M ²)	
METHOD OF PUMPING <i>submersible pump</i>			
SUCTION/AIR OUTLET SET AT <i>9</i> MBG			
APPARENT QUALITY OF WATER <i>good</i>			
WATER ANALYSIS	P ⊕	C ⊕	B —
WATER TEMPERATURE	°C	DATE, WRITTEN BY <i>MLJ</i>	2/9-81

BOREHOLE COMPLETION RECORD

LOCATION: <i>Kitanewa Village, Fringa</i>	BH NO. <i>179/81</i> CCKK NO. <i>1512</i>
COORDINATES: <i>7°49.2' S; 35°09' E</i> ELEVATION: <i>m.asl</i>	MAP NO.
COMPLETION DATE: <i>10/6 81</i> DRILL. METHOD: <i>Auger</i>	<i>QDS 214</i>
DRILLER/ORGANIZATION: <i>F. Lyrao, Maji</i> DRILL UNIT NO. <i>53</i>	
CLIENT: <i>Water Master Plan</i>	

DEPTH M	SYM- BOL	FORMATION BY	DESCRIPTION DATE
<i>1.5</i>	<i>T</i>	<i>brownish sandy</i>	<i>black soil,</i>
<i>3.0</i>	<i>S</i>	<i>coarse</i>	<i>brown sand</i>
<i>6.0</i>	<i>S</i>	<i>med-coarse sand</i>	<i>blackish</i>
<i>10.66</i>	<i>Pu</i>	<i>brown</i>	<i>weathered gneiss</i>

CONSTRUCTION DETAILS									
DRILLED DEPTH <i>10.66</i> M		COMPL. DEPTH		DEPTH		M			
DRILLED DIAM. MM		FROM		TO					
<i>168</i>		<i>0</i>		<i>10.66</i>					
DETAILS OF CASING LEFT IN BOREHOLE									
INTERNAL DIAM. MM		PLAN		PERFORATED					
CLASS		FROM TO		FROM TO					
<i>PVC</i>		<i>0</i>		<i>2.60</i>		<i>2.60</i>		<i>8.20</i>	
SCREENING									
INTERNAL DIAM. MM		SLOT SIZE		FROM		TO			
GRAVEL PACK MM		FROM M		TO		M			
WATER									
WATER STRUCK		<i>4.6</i>						MBG	
STANDING WATER LEVEL		<i>2.44</i>						MBG	
TEST YIELD M ³ /HR MAX		-		STEADY		-			
MAXIMUM DRAWD. - M		-		DURATION TEST		-		MIN	
T (M ² /SEC)		-		r ² _w S (M ²)		-			
METHOD OF PUMPING									
SUCTION/AIR OUTLET SET AT		-						MBG	
APPARENT QUALITY OF WATER									
WATER ANALYSIS		P -		C -		B -			
WATER TEMPERATURE		°C		DATE, WRITTEN BY		<i>MLJ</i>		<i>2/9-81</i>	

AQUIFER

REMARKS *Auger last in hole and
hole abandoned at 10.66 m*

BOREHOLE COMPLETION RECORD

LOCATION: <i>Mapogoro Village, Fringa</i>		BH NO. <i>180/81</i> CCKK NO. <i>15 13</i>	
COORDINATES: <i>7°49' S, 35°01.8' E</i> ELEVATION: <i>m.asl</i>		MAP NO. <i>QDS214</i>	
COMPLETION DATE: <i>12/6 -81</i> DRILL. METHOD: <i>Auger</i>			
DRILLER/ORGANIZATION: <i>F. Lyimo, Meji</i>		DRILL UNIT NO. <i>53</i>	
CLIENT: <i>Water Master Plan CCKK</i>			

DEPTH M	SYM- BOL	FORMATION BY	DESCRIPTION DATE
1.5	T	<i>brown mbuga soil</i>	
6.0	G	<i>river gravels</i>	
7.6	G	<i>rounded quartz pebbles with muscovite flakes</i>	
9.1	C	<i>clay with muscovite mica</i>	
13.7	Pw	<i>very micaceous (muscovite) weathered gneiss</i>	
25.9	Pw	<i>brown very weathered quartz gneiss</i>	
		AQUIFER	
		<i>dry</i>	
		REMARKS	
		<i>Hole abandoned</i>	

CONSTRUCTION DETAILS			
DRILLED DEPTH	MM	COMPL. DEPTH	M
<i>25.9</i>		<i>25.9</i>	
DRILLED DIAM.	MM	FROM	TO
<i>168</i>		<i>0</i>	<i>25.9</i>
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM.	MM	PLAN	PERFORATED
		FROM TO	FROM TO
<i>PVC</i>	<i>100</i>	<i>0 3.1</i>	<i>- -</i>
SCREENING			
INTERNAL DIAM.	MM	SLOT SIZE	FROM TO
GRAVEL PACK	MM	FROM M TO	M
WATER			
WATER STRUCK	<i>dry</i>		MBG
STANDING WATER LEVEL			MBG
TEST YIELD M ³ /HR	MAX	STEADY	-
MAXIMUM DRAWD.	M	DURATION TEST	MIN
T (M ² /SEC)		<i>r_wS (M²)</i>	-
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT			MBG
APPARENT QUALITY OF WATER			
WATER ANALYSIS	P	C	B
WATER TEMPERATURE	°C	DATE, WRITTEN BY	<i>MLJ 2/9 -81</i>

BOREHOLE COMPLETION RECORD

LOCATION: <i>Mapogoro Village, Fringa</i>		BH NO. <i>181/81</i> CCKK NO. <i>1514</i>
COORDINATES: <i>7°49' S, 35°04.2' E</i> ELEVATION: <i>m.asl</i>		MAP NO.
COMPLETION DATE: <i>15.7.1981</i> DRILL. METHOD: <i>Auger</i>		<i>QDS 214</i>
DRILLER/ORGANIZATION: <i>F. Lyimo, Maji</i>		DRILL UNIT NO. <i>53</i>
CLIENT: <i>Water Master Plan</i>		
DEPTH M	SYM- BOL	FORMATION DESCRIPTION DATE
<i>1.5</i>	<i>T</i>	<i>black mbuga earths</i>
<i>3.0</i>	<i>T</i>	<i>very fine grained soil</i>
<i>9.1</i>	<i>S</i>	<i>sub rounded coarse sand with muscovite mica flakes</i>
<i>21.3</i>	<i>Pw</i>	<i>very weathered gneiss with abundant muscovite</i>
<i>30.48</i>	<i>Pw</i>	<i>very weathered mica-ecous gneiss</i>
AQUIFER		
REMARKS		
CONSTRUCTION DETAILS		
DRILLED DEPTH <i>30.48</i> M	COMPL. DEPTH <i>30.48</i> M	
DRILLED DIAM. <i>168</i> MM	FROM <i>0</i> TO <i>30.48</i>	
DETAILS OF CASING LEFT IN BOREHOLE		
INTERNAL DIAM. <i>100</i> MM	PLAN FROM <i>0</i> TO <i>11.7</i>	PERFORATED FROM <i>11.7</i> TO <i>23.8</i>
CLASS <i>PVC</i>		
SCREENING		
INTERNAL DIAM. <i>100</i> MM	SLOT SIZE	FROM TO
GRAVEL PACK <i>WATER</i>	MM FROM <i>0</i> TO <i>12.1</i>	M TO M
WATER STRUCK	<i>9.1, 12.1</i>	MBG
STANDING WATER LEVEL	<i>1.82</i>	MBG
TEST YIELD M ³ /HR MAX	<i>6.5</i>	STEADY <i>6.2</i>
MAXIMUM DRAWD. <i>9.1</i> M	DURATION TEST <i>420</i> MIN	
T (M ² /SEC) <i>1.5 x 10⁻⁴</i>	r ² ws (M ²) <i>—</i>	
METHOD OF PUMPING <i>siphonable pump</i>		
SUCTION/AIR OUTLET SFE AT <i>—</i> MBG		
APPARENT QUALITY OF WATER <i>good</i>		
WATER ANALYSIS	P <i>+</i>	C <i>+</i> B <i>—</i>
WATER TEMPERATURE <i>—</i> °C	DATE, WRITTEN BY	

BOREHOLE COMPLETION RECORD

LOCATION: RUUUMA REGION, SONGEA DISTRICT, SONGEA SONGEA TOWNSHIP						BH NO. 13/48 CCKK NO.																																																																																																																																																																																																	
COORDINATES: 35° 39' 10" 41' ELEVATION: m.asl						MAP NO.																																																																																																																																																																																																	
COMPLETION DATE: 14.11.48 DRILL. METHOD:						G.D.S. 299																																																																																																																																																																																																	
DRILLER/ORGANIZATION:				DRILL UNIT NO.																																																																																																																																																																																																			
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DEPTH M		SYM- BOL		FORMATION BY		DESCRIPTION DATE																																																																																																																																																																																																	
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BOREHOLE COMPLETION RECORD

LOCATION: RUUUMA REGION, SONGEA DISTRICT LIKONDE TOBACCO SCHEME						BH NO. 17/50 CCKK NO.	
COORDINATES: 35° 7' 10" 45' ELEVATION: m.asl						MAP NO.	
COMPLETION DATE: 27.10.50 DRILL. METHOD:						Q.D.S. 299	
DRILLER/ORGANIZATION:				DRILL UNIT NO.			
CLIENT:							
DEPTH M		SYM-BOL		FORMATION DESCRIPTION BY DATE		REMARKS	
0 - 6.1 18.0 22.3 39.6		C C SH Pw		Light clay Compact clay shale Weathered gneiss		WEATHERED GNEISS, SHALE	
AQUIFER							
REMARKS							
CONSTRUCTION DETAILS							
DRILLED DEPTH	39.6 M	COMPL. DEPTH	39.6 M				
DRILLED DIAM.	MM	FROM	TO				
	200	0	12.2				
	165	12.2	39.6				
DETAILS OF CASING LEFT IN BOREHOLE							
INTERNAL DIAM.	MM	PLAN	PERFORATED				
CLASS		FROM	FROM	TO			
SCREENING							
INTERNAL DIAM.	MM	SLOT SIZE	FROM	TO			
GRAVEL PACK	MM	FROM	M	TO	M		
WATER							
WATER STRUCK	12.2; 24.7			MBG			
STANDING WATER LEVEL	6.1			MBG			
TEST YIELD M ³ /HR	MAX	STEADY	3.41				
MAXIMUM DRAWD.	M	DURATION TEST	MIN				
T (M ² /SEC)		r ² ws (M ²)					
METHOD OF PUMPING							
SUCTION/AIR OUTLET SET AT					MBG		
APPARENT QUALITY OF WATER							
WATER ANALYSIS	P	C	X	B			
WATER TEMPERATURE	°C	DATE, WRITTEN BY		28.5.81; F.M.			

BOREHOLE COMPLETION RECORD

LOCATION: RUWUMA REGION, SONGEA DISTRICT, LIKONDE TOBACCO SCHEME						BH NO. 22/50 CCKK NO.	
COORDINATES: 35° 7' 10" 45' ELEVATION: m.asl						MAP NO.	
COMPLETION DATE: 7.11.50 DRILL. METHOD:						G.D.S. 299	
DRILLER/ORGANIZATION:				DRILL UNIT NO.			
CLIENT:							
DEPTH M		SYM- BOL		FORMATION DESCRIPTION BY		DATE	
0 - 0.9 7.6 12.5 19.2 41.2		S C C Pw C		Sand Light clay Clay Intensely weathered gneiss Clay			
AQUIFER Weathered gneiss							
REMARKS							
CONSTRUCTION DETAILS							
DRILLED DEPTH 41.2 M		COMPL. DEPTH 41.2 M					
DRILLED DIAM. MM		FROM TO					
200		0 33.5					
165		33.5 41.2					
DETAILS OF CASING LEFT IN BOREHOLE							
INTERNAL DIAM. MM		PLAN		PERFORATED			
CLASS		FROM TO		FROM TO			
SCREENING							
INTERNAL DIAM. MM		SLOT SIZE		FROM TO			
GRAVEL PACK MM		FROM M TO M					
WATER							
WATER STRUCK 5.2, 13.4, 29.0						MBG	
STANDING WATER LEVEL 15.2						MBG	
TEST YIELD M ³ /HR MAX		STEADY					
MAXIMUM DRAWD. M		DURATION TEST		MIN			
T (M ² /SEC)		r ² ws (M ²)					
METHOD OF PUMPING							
SUCTION/AIR OUTLET SET AT MBG							
APPARENT QUALITY OF WATER							
WATER ANALYSIS P		C X B					
WATER TEMPERATURE °C		DATE, WRITTEN BY					

BOREHOLE COMPLETION RECORD

LOCATION: RUJUMA REGION, TUNDURU DISTR. FRELIMO CAMP				BH NO. 207/73 CCKK NO.	
COORDINATES: 10° 57.0'S, 37° 19.0'E			ELEVATION: m.asl		MAP NO.
COMPLETION DATE: 30.12.73			DRILL. METHOD:		Q.D.S. 302
DRILLER/ORGANIZATION: SIDA			DRILL UNIT NO.		
CLIENT:					
CONSTRUCTION DETAILS		DEPTH M		FORMATION DESCRIPTION	
DRILLED DEPTH 178.6 M	COMPL. DEPTH 178.6 M	0 - 7.6	C	Clay	
DRILLED DIAM. 250 MM	FROM 0 TO 24.4	36.6	G	Gravel	
200	24.4 172.0	47.3	S	Sand	
150	172.0 178.6	73.2	S	Sand and pebbles	
DETAILS OF CASING LEFT IN BOREHOLE		178.6	SS	Sandstone	
INTERNAL DIAM. MM	PLAN FROM TO PERFORATED FROM TO				
CLASS	150 0 123.3				
	150 123.3 141.6				
SCREENING					
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO		
150		13.7	19.8		
150		123.3	141.6		
150		147.7	172.0		
GRAVEL PACK MM	FROM M TO M				
WATER					
WATER STRUCK	170.7				
STANDING WATER LEVEL					
TEST YIELD M ³ /HR MAX	STEADY	3.41			
MAXIMUM DRAWD. 115.5 M	DURATION TEST	MIN			
T (M ² /SEC) 4.5 x 10 ⁵	r ² ws (M ²)	0.0012			
METHOD OF PUMPING					
SUCTION/AIR OUTLET SET AT	MBG				
APPARENT QUALITY OF WATER GOOD					
WATER ANALYSIS	P	C	X	B	
WATER TEMPERATURE	°C	DATE, WRITTEN BY 28.5.81, F.M.			
AQUIFER		Sand mixed with clay			
REMARKS		Self flowing well Observation: 7 Feb, 1981			

BOREHOLE COMPLETION RECORD

LOCATION: <i>HANKA RIVER, JONGEA DISTRICT, RUWUMA</i>	BH NO. <i>253/81</i> CCKK NO. <i>RDI</i>
COORDINATES: <i>35°39'E, 10°10'S</i> ELEVATION: <i>470 m.asl</i>	MAP NO. <i>287/1</i>
COMPLETION DATE: <i>31/01/81</i> DRILL. METHOD: <i>AIR HAMMER</i>	<i>150,000</i>
DRILLER/ORGANIZATION: <i>DANIDA / CCKK / MACI</i> DRILL UNIT NO. <i>45</i>	
CLIENT: <i>WATER MASTER PLAN</i>	

CONSTRUCTION DETAILS		DEPTH M	SYM- BOL	FORMATION DESCRIPTION DATE
DRILLED DEPTH	M	0-6	Sc	Yellow-brown clayey sand
DRILLED DIAM.	MM	200	Sc	Red medium-fine clayey sand
		150	Cs	Light brown clayey sand
		100	Is	Light brown clayey sand
DETAILS OF CASING LEFT IN BOREHOLE				
INTERNAL DIAM.	MM			
CLASS				
PIPE	158			
SCREENING				
INTERNAL DIAM.	MM			
TYPE				
GRAVEL PACK	MM			
WATER				
WATER STRUCK				
STANDING WATER LEVEL				
TEST YIELD M ³ /HR	MAX			
MAXIMUM DRAWD.	7.45M			
T (M ² /SEC)				
METHOD OF PUMPING <i>ELECTRIC SUBMERSIBLE</i>				
SUCTION/AIR OUTLET SET AT				
APPARENT QUALITY OF WATER				
WATER ANALYSIS	P X	C	B	
WATER TEMPERATURE		°C		

AQUIFER *KIKKO*

REMARKS *Water struck 17-23m k.band. 460 ychies/cum at 2500. (100) struck at 150m k. sand. 680-700 ychies/cum at 200. 1000 ychies/cum at 500 ychies/cum.*

DATE, WRITTEN BY *30 NOV 81* *1100.*

BOREHOLE COMPLETION RECORD

LOCATION: <i>SUMBERU, BOJANG DISTRICT, MALAYSIA</i>		BH NO. <i>254/3</i> CCKK NO. <i>RD 2</i>		
COORDINATES: <i>3° 38' N 106° 16' E</i>		ELEVATION: <i>885</i> m. a.s.l.		
COMPLETION DATE: <i>5 Nov 81</i>		DRILL. METHOD: <i>AIR HAMMER</i>		
DRILLER/ORGANIZATION: <i>DANIIDA/CCKK/MKSI</i>		DRILL UNIT NO. <i>45</i>		
CLIENT: <i>NATURAL MASTER PLAN</i>				
CONSTRUCTION DETAILS	DRILLED DEPTH	60.95M	COMPL. DEPTH	60 M
	DRILLED DIAM.	200	FROM	0
DETAILS OF CASING LEFT IN BOREHOLE		PLAN	PERFORATED	
INTERNAL DIAM.	MM	FROM	TO	FROM
CLASS		100	48	
SCREENING				
INTERNAL DIAM.	MM	SLOT SIZE	FROM	TO
TYPE			48	60
GRAVEL PACK	MM	FROM	M	TO
WATER				
WATER STRUCK		36		MBG
STANDING WATER LEVEL		18.718		MBG
TEST YIELD M ³ /HR	MAX		STEADY	2.1
MAXIMUM DRAWD.	30 M		DURATION TEST	75 MIN
T (M ² /SEC)	4.3 x 10 ⁻⁶		r ² ws (M ²)	
METHOD OF PUMPING		ELECTRIC	SUBMERGIBLE	
SUCTION/AIR OUTLET SET AT		50		MBG
APPARENT QUALITY OF WATER		FAIR		
WATER ANALYSIS	P X	C	B	
WATER TEMPERATURE	°C			
FORMATION DESCRIPTION BY <i>MJJ</i>		DATE		<i>6 Nov 81</i>
SYMBOL	DEPTH	REMARKS		
<i>1S</i>	<i>0-14</i>	<i>Chocolate v. fine from to brittle clayey siltstone and v. fine sandstone.</i>		
<i>M</i>	<i>14-54</i>	<i>Dark brown mudstone, reddish brown mica-bearing siltstone.</i>		
<i>1S</i>	<i>54-60</i>	<i>Gray - dark gray siltstone and v. fine mudstone and mudstone.</i>		
		AQUIFER <i>KARST STONES AND MUDSTONES.</i>		
		REMARKS <i>WATER CONDUCTIVITY 1100 μhos/cm at 25°C.</i>		
DATE, WRITTEN BY		<i>5 Nov 81 MJJ.</i>		

BOREHOLE COMPLETION RECORD

LOCATION: MTUKANO, SONJEA DISTRICT, ROUVUMI				BH NO. 255/81 CCKK NO. RD 3	
COORDINATES: 35°40' 10" S ELEVATION: 880m. asl				MAP NO. 287/1	
COMPLETION DATE: 6 NOV 81				DRILL. METHOD: AIR HAMMER	
DRILLER/ORGANIZATION: DANIDA CCKK (MARI)				DRILL UNIT NO. 45	
CLIENT: WATER MASTER PLAN					
CONSTRUCTION DETAILS		FORMATION DESCRIPTION			
DRILLED DEPTH	51 M	COMPL. DEPTH	49 M	SYMBOL	S
DRILLED DIAM.	200 MM	FROM	0	DATE	7/10/81
		TO	51	DESCRIPTION	Red variegated sands and cobbles
DETAILS OF CASING LEFT IN BOREHOLE		Red mottled grey claystone			
INTERNAL DIAM.	100 MM	PLAN			
CLASS	PVC	FROM	0		
		TO	31		
SCREENING		Red sand - coarse cobble			
INTERNAL DIAM.	100 MM	SLOT SIZE	ca 10		
TYPE	PVC	FROM	31		
		TO	49		
GRAVEL PACK		Mottled red yellow claystone			
WATER		FROM			
		TO			
WATER STRUCK	31	45-50			
STANDING WATER LEVEL		26.8			
TEST YIELD M ³ /HR MAX		STEADY	3.6		
MAXIMUM DRAWD. S. 2 M		DURATION TEST	7/10 MIN		
T (M ² /SEC)	2.0 x 10 ⁻⁴	r ² ws (M ²)			
METHOD OF PUMPING		ELECTRIC SUBMERSIBLE			
SUCTION/AIR OUTLET SET AT	4.8				
APPARENT QUALITY OF WATER	Excellent.				
WATER ANALYSIS	P	C	X	B	
WATER TEMPERATURE	°C	DATE, WRITTEN BY 7 th NOV 81 W.S.J.			

AQUIFER: SANDS
AND SILTSTONES

REMARKS: WATER CONDUCTIVITY ca 40 μ mhos/cm at 21°C

BOREHOLE COMPLETION RECORD

LOCATION: <u>NDENNENLE TUNJURU DISTRICT, ROUMBA</u>						BH NO. <u>256/51</u> CCKK NO. <u>RD4</u>	
COORDINATES: <u>36°57'30"E 10°46'50"S</u> ELEVATION: <u>760</u> m. asl						MAP NO.	
COMPLETION DATE: <u>11/NOV/81</u> DRILL. METHOD: <u>AIR HAMMER</u>						<u>201/4</u>	
DRILLER/ORGANIZATION: <u>JANOR/CCKK/MAFC</u> DRILL UNIT NO. <u>45</u>							
CLIENT: <u>WATER MASTER PLAN</u>							
CONSTRUCTION DETAILS		DEPTH M		SYM-BOL		FORMATION DESCRIPTION DATE 12-11-81	
DRILLED DEPTH 42.0M	COMPL. DEPTH 42.0M	FROM	TO	0-5	SS	Red med fine very clayey soft friable sandstone	
DRILLED DIAM. 200	MM	0	42.0	5-24	SS	Lt yellow - buff fine grained well sorted micaceous sandstone	
DETAILS OF CASING LEFT IN BOREHOLE							
INTERNAL DIAM. CLASS	MM	PLAN FROM	TO	PERFORATED FROM	TO		
UPVC	100	0	18	24-30	S	Greenish buff v. biolite rich sand	
SCREENING							
INTERNAL DIAM. TYPE	MM	SLOT SIZE	FROM	TO	30-37	Pb	Very dark gray biolite and quartz rock
UPVC	100	10	10	37-42	P	Lt red - pink quartz v. biolite granitic granite with v. mica (quartz)	
GRAVEL PACK	MM	FROM	M	TO	M		
WATER							
WATER STRUCK	25, 38	MBG					
STANDING WATER LEVEL	7.0	MBG					
TEST YIELD M ³ /HR MAX	STEADY	5.34			AQUIFER Weathered caproble zone thought to contain Karoo sediments. i.e. Part of pre Karoo sequence.		
MAXIMUM DRAWD. (M)	DURATION TEST	600 MIN			REMARKS Notes conductivity during test 580 $\mu\text{mhos/cm}$ at 25°C		
T (M ² /SEC)	5.4×10^{-4}	$r^2_{ws} (M^2)$	5.1×10^{-3}				
METHOD OF PUMPING <u>ELECTRIC SUBMERSIBLE</u>							
SUCTION/AIR OUTLET SET AT	40	MBG					
APPARENT QUALITY OF WATER <u>Good</u>							
WATER ANALYSIS	P	C	X	B			
WATER TEMPERATURE	°C	DATE, WRITTEN BY	11/NOV/81				

BOREHOLE COMPLETION RECORD

LOCATION: <u>NDEYENDE TONDURU DISTRICT, TONDURU</u>						BH NO. <u>257/3</u> CCKK NO. <u>RD 5</u>	
COORDINATES: <u>36°57'30"E 10°45'30"S</u> ELEVATION: <u>84 Om. asl</u>						MAP NO. <u>301/4</u>	
COMPLETION DATE: <u>12 NOV 81</u> DRILL. METHOD: <u>AIR Hammer</u>							
DRILLER/ORGANIZATION: <u>DANDA/CCKK/MAEI</u> DRILL UNIT NO. <u>45</u>							
CLIENT: <u>WATER MASTER PLAN</u>							
CONSTRUCTION DETAILS		DEPTH M		SYM-BOL		FORMATION DESCRIPTION DATE	
DRILLED DEPTH	13.5 M	COMPL. DEPTH	— M	0-26	Sc	brick red lateritic clayey sand	12 NOV 81
DRILLED DIAM.	200 MM	FROM	0	26-35	Sc	lt yellow - buff limonitic clayey sand	
		TO	73.5	35-41	Ss	orange - yellow v. clayey limonitic sand	
DETAILS OF CASING LEFT IN BOREHOLE				41-73.5	Sc	buff sandy clay (freq. bottle and mineral grains).	
INTERNAL DIAM. CLASS	MM	PLAN FROM	TO	AQUIFER			
NIL				REMARKS: SAPROLITE ZONE			
SCREENING				HOT ALUMINUMED PBY			
INTERNAL DIAM. TYPE	MM	SLOT SIZE	FROM TO				
NIL							
GRAVEL PACK	MM	FROM	M TO				
WATER							
WATER STRUCK	NIL						
STANDING WATER LEVEL	NIL						
TEST YIELD M ³ /HR	MAX	—	STEADY				
MAXIMUM DRAWD.	— M	DURATION TEST	— MIN				
T (M ² /SEC)	—	r ² ws (M ²)	—				
METHOD OF PUMPING							
SUCTION/AIR OUTLET SET AT							
APPARENT QUALITY OF WATER							
WATER ANALYSIS	P	C	B				
WATER TEMPERATURE	°C	DATE, WRITTEN BY		13 NOV 81 MJJ			

BOREHOLE COMPLETION RECORD

LOCATION: HANDEMED, TUNDURU DISTRICT, RUVUMA						BH NO. 255/31 CCKK NO. RD6	
COORDINATES: 37° 14' E 10° 57' 30" S ELEVATION: 600m.asl						MAP NO. 302/3	
COMPLETION DATE: 14 NOV 81 DRILL. METHOD: AIR METHOD							
DRILLER/ORGANIZATION: DINDA/CCKK/MAZI DRILL UNIT NO. 45							
CLIENT: WATER MASTER PLAN							
CONSTRUCTION DETAILS		DEPTH M		SYM-BOL		FORMATION DESCRIPTION DATE	
DRILLED DEPTH	67.25M	COMPL. DEPTH	63 M			BY M.J.O. DATE 20 NOV 81	
DRILLED DIAM.	200	FROM	0			brick red tabular clayey sand.	
		TO	67.25			Pale brick red to cream med coarse sand	
DETAILS OF CASING LEFT IN BOREHOLE							
INTERNAL DIAM.	MM	PLAN	PERFORATED			Cream fine-med sand with weathered telodopus	
CLASS		FROM	FROM	TO			
UPVC	100	0	30				Clayey cream sand
SCREENING							
INTERNAL DIAM.	MM	SLOT SIZE	FROM	TO			Reddish Kitan clayey conglomerate.
TYPE							lt yellow/brown med-fine grained sandstone
UPVC	100	CA 10	30	63			Red med-fine well sorted sandstone.
GRAVEL PACK	MM	FROM	M	TO	M		
WATER							
WATER STRUCK	31, 62 (fracture)				MBG		
STANDING WATER LEVEL	26.46				MBG		
TEST YIELD M ³ /HR	MAX	STEADY	6.28				
MAXIMUM DRAWD.	0.7 M	DURATION TEST	300 MIN				
T (M ² /SEC)	1.7 x 10 ⁻³	r ² WS (M ²)					
METHOD OF PUMPING ELECTRIC SUBMERSIBLE							
SUCTION/AIR OUTLET SET AT	48				MBG		
APPARENT QUALITY OF WATER GOOD							
WATER ANALYSIS	P	C	X	B			
WATER TEMPERATURE	°C	DATE, WRITTEN BY	20 NOV 81	M.J.O.			
REMARKS WATER CONDUCTIVITY						210 μmhos at 25°C	

BOREHOLE COMPLETION RECORD

LOCATION: MUHWESI - MSAQUA, TUMBUKU DISTRICT
RUVUMBA

COORDINATES: 37°27'E, 10°52'S ELEVATION: 510 m.asl

COMPLETION DATE: 16 Nov 81 DRILL. METHOD: AIR HAMMER

DRILLER/ORGANIZATION: DANDA/CCKK/MAJI DRILL UNIT NO. 45

CLIENT: WATER MASTER PHAN

BH NO. 257/81
CCKK NO. RD7

MAP NO. 302/4

CONSTRUCTION DETAILS				DEPTH M	SYM- BOL	FORMATION DESCRIPTION BY M.T.J
DRILLED DEPTH	3.6	M	COMPL. DEPTH	0-10	S _c	YELLOW BUFF LIMONITIC CLAYEY SAND
DRILLED DIAM.	100	MM	FROM	10-20	C _s	WET STICKY YELLOW RED - RED BROWN SANDY CLAY
			TO	20-25	C _s	WET STICKY RED BROWN SANDY CLAY
				25-	M	WET SOFT STICKY RED MUDSTONE - CLAY
				29	K	WHITE / LT GRAY CLAY (KAOLIN)
				29.25		
				29.5		
DETAILS OF CASING LEFT IN BOREHOLE						
INTERNAL DIAM.		MM	PLAN			
CLASS			PERFORATED			
			FROM			
			TO			
			FROM			
			TO			
			FROM			
			TO			
SCREENING						
INTERNAL DIAM.		MM	SLOT SIZE			
			FROM			
			TO			
			FROM			
			TO			
GRAVEL PACK						
		MM	FROM			
			M			
			TO			
			M			
WATER						
WATER STRUCK						
STANDING WATER LEVEL						
TEST YIELD M ³ /HR						
		MAX	STEADY			
			TEST			
MAXIMUM DRAWD.		M	DURATION			
			TEST			
T (M ² /SEC)			r ² ws (M ²)			
METHOD OF PUMPING						
SUCTION/AIR OUTLET SET AT						
APPARENT QUALITY OF WATER						
WATER ANALYSIS						
		P	C			
			B			
WATER TEMPERATURE						
		°C	DATE, WRITTEN BY			
			20 Nov 81			
			M.T.J			

AQUIFER FORMATION - SANDSTONE?
OVERLYING BASEMENT

REMARKS: HOLE NEARLY FULL OF
TO DRILLING DIFFICULTIES.
HOLE BLOCKED AT 11.00 ON
17 NOV 81.

BOREHOLE COMPLETION RECORD

LOCATION: <u>SISTARHOLEI TOLUWA DISTRICT</u>						BH NO. <u>262/81</u> CCKK NO. <u>ED</u>	
COORDINATES: <u>37°23'E, 10°52'S</u>						ELEVATION: <u>635</u> m.asl	
COMPLETION DATE: <u>17 No/81</u>						DRILL. METHOD: <u>AIR RIGGING</u>	
DRILLER/ORGANIZATION: <u>DANDA / CCKK MACI</u>						DRILL UNIT NO. <u>45</u>	
CLIENT: <u>WATER MASTER FARM</u>							
CONSTRUCTION DETAILS		DEPTH M		SYM-BOL		FORMATION DESCRIPTION	
DRILLED DEPTH <u>4.7</u> M	COMPL. DEPTH <u>—</u> M	14	Cs	Light red sandy clayey loam			
DRILLED DIAM. <u>100</u> MM	FROM <u>0</u> TO <u>4.7</u>	14-22	C	Lt red - buff v. micaceous granular clayey loam			
DETAILS OF CASING LEFT IN BOREHOLE		22-25	C	Ltr red yellow mottled calcareous clay			
INTERNAL DIAM. <u>—</u> MM	PLAN FROM <u>—</u> TO <u>—</u>	25-29	C	Salt red - white v. calcareous clay with quartz and v. weathered feldspar			
CLASS <u>—</u>	PERFORATED FROM <u>—</u> TO <u>—</u>	29-35	S	Red v. clayey quartz sand with v. feldspar			
SCREENING		35-35	C	Very wet soft silty clay with quartz and v. weathered feldspar sand.			
INTERNAL DIAM. <u>—</u> MM	SLOT SIZE FROM <u>—</u> TO <u>—</u>	AQUIFER					
GRAVEL PACK <u>—</u> MM FROM <u>—</u> M TO <u>—</u> M							
WATER STRUCK <u>—</u> MBG							
STANDING WATER LEVEL <u>—</u> MBG							
TEST YIELD <u>—</u> M ³ /HR MAX	STEADY <u>—</u>						
MAXIMUM DRAWD. <u>—</u> M	DURATION TEST <u>—</u> MIN						
T (M ² /SEC) <u>—</u>							
METHOD OF PUMPING <u>—</u>		REMARKS <u>Well abandoned due to less of circulation.</u>					
SUCTION/AIR OUTLET SET AT <u>—</u> MBG							
APPARENT QUALITY OF WATER							
WATER ANALYSIS	P <u>—</u> C <u>—</u> B <u>—</u>						
WATER TEMPERATURE <u>—</u> °C	DATE, WRITTEN BY <u>20 No/81</u> <u>MSI</u>						

BOREHOLE COMPLETION RECORD

LOCATION: SISIKWASISI #2, TUNDURU DISTRICT, RUWUMA						BH NO. 26/81 CCKK NO. RD9	
COORDINATES: 37°23'E, 10°59'30"S ELEVATION: 500 m. asl						MAP NO. 302/4	
COMPLETION DATE: 18 th Nov 81 DRILL. METHOD: AIR Hammer							
DRILLER/ORGANIZATION: JANDA/CCKK/WAJO						DRILL UNIT NO. 45	
CLIENT: WATER MASTER PLAN							
CONSTRUCTION DETAILS		DEPTH M		SYM-BOL		FORMATION DESCRIPTION DATE	
DRILLED DEPTH	67.2	COMPL. DEPTH	67				20/10/81
DRILLED DIAM.	200	FROM	0				Orange brown limonitic clay
		TO	67.25				A/A kind becoming scabidic
DETAILS OF CASING LEFT IN BOREHOLE							
INTERNAL DIAM. CLASS	MM	PLAN FROM	TO	PERFORATED FROM	TO		
11VC	100	0	48				Mottled white & red clayey sands
SCREENING							
INTERNAL DIAM. TYPE	MM	SLOT SIZE	FROM	TO			
DIVE	100	ca 10	48	62			mid grey plastic R. notomitic clay
							Red plastic clay
							lt - mid gray plastic clay
							red plastic sandy clay with clayey sands.
							lt yellow brown red - coarse grey sand
GRAVEL PACK	MM	FROM	M	TO	M		
WATER							
WATER STRUCK			60	63	MBG		
STANDING WATER LEVEL					MBG		
TEST YIELD M ³ /HR	MAX				STEADY		
MAXIMUM DRAWD.	M	DURATION TEST			MIN		
T (M ² /SEC)		r ² ws (M ²)					
METHOD OF PUMPING							
SUCTION/AIR OUTLET SET AT					MBG		
APPARENT QUALITY OF WATER							
WATER ANALYSIS	P	C			B		
WATER TEMPERATURE	°C	DATE, WRITTEN BY	SONDUSI		MBG		
AQUIFER		REMARKS					
Possibly down suitable zone of oxidized basement		Remarks look to sleep to test with pumps available		8" hammer bit broken off in bottom of hole.			

BOREHOLE COMPLETION RECORD

LOCATION: <u>HAMIDABAD, TOLKUDU DISTRICT, RD/10/15</u>		BH NO. <u>267/8/</u> CCKK NO. <u>RD/10</u>	
COORDINATES: <u>37°38'E 10°52'S</u> ELEVATION: <u>440m.asl</u>		MAP NO. <u>303/3</u>	
COMPLETION DATE: <u>19 Nov 81</u> DRILL. METHOD: <u>AIR HAMMER</u>			
DRILLER/ORGANIZATION: <u>D/10/10/CCKK/MAJI</u> DRILL UNIT NO. <u>45</u>			
CLIENT: <u>WATER MASTER PLAN</u>			

DEPTH M	SYM-BOL	FORMATION DESCRIPTION
0-10	N	Top sandy laterite
10-36	S	Orange/brown laterite sand
36-48	Se	White to red very silty sand with sh. weathered laterite
48	Se	A/N bank zone clayey
48-67.25	Q	Red granular quartz mica and feldspar partly weathered Rock type: <u>lt red-red quartz rich granite - gneiss</u>

DEPTH M	67.25	FORMATION	AQUIFER
SYMBOL			
DESCRIPTION			REMARKS: <u>100-150m below 67.25</u>

CONSTRUCTION DETAILS			
DRILLED DEPTH	67.25 M	COMPL. DEPTH	67 M
DRILLED DIAM.	150 MM	FROM	0
		TO	67.25
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM.	MM	PLAN	PERFORATED
CLASS		FROM	FROM
UVV	100	0	30
SCREENING			
INTERNAL DIAM.	MM	SLOT SIZE	FROM
UVV	100	4.12	20
			67
GRAVEL PACK	MM	FROM	TO
WATER			
WATER STRUCK	42 (in clay)	52	MBG
STANDING WATER LEVEL	4.75	(20th Nov 81)	MBG
TEST YIELD M ³ /HR	MAX	STEADY	5.34
MAXIMUM DRAWD.	12.5 M	DURATION TEST	350 MIN
T (M ² /SEC)	3.4 x 10 ⁻⁵	r ² WS (M ²)	—
METHOD OF PUMPING	submersible pump		
SUCTION/AIR OUTLET SET AT	MBG		
APPARENT QUALITY OF WATER	GOOD		
WATER ANALYSIS	P	C	X B
WATER TEMPERATURE	°C	DATE, WRITTEN BY	20/11/81

BOREHOLE COMPLETION RECORD

LOCATION: <i>MARITIME, TAMIL NADU, DISTRICT</i>	BH NO. <i>263/31</i> CCKK NO. <i>RD11</i>
COORDINATES: <i>37°34'E 10°52'S</i> ELEVATION: <i>462 m. asl</i>	MAP NO.
COMPLETION DATE: <i>20 Nov 81</i> DRILL. METHOD: <i>AIR Hammer</i>	<i>303/3</i>
DRILLER/ORGANIZATION: <i>DAVIDA/CCKK/MARI</i> DRILL UNIT NO. <i>45</i>	
CLIENT: <i>WATER MASTER PLAN</i>	

DEPTH M	SYM- BOL	FORMATION BY	DESCRIPTION DATE
<i>0-3</i>	<i>T</i>	<i>11/37</i>	<i>Red laterite sand</i>
<i>3-6</i>	<i>CS</i>		<i>Buff clay and sand with biotite</i>
<i>6-23</i>	<i>Q</i>		<i>Greenish buff clayey quartz and biotite sand</i>
<i>23-45</i>	<i>S</i>		<i>Greenish gray quartz and mica sand</i>
<i>45-73.50</i>	<i>Pb</i>		<i>Quartz biotite grains with no feldspars apparent.</i>
AQUIFER <i>SANDSTONE.</i>			
REMARKS <i>Water conductivity 440 µmho/cm at 25°C</i>			

CONSTRUCTION DETAILS			
DRILLED DEPTH	MM	COMPL. DEPTH	M
<i>73.50</i>		<i>54</i>	
DRILLED DIAM.	MM	FROM	TO
<i>150</i>		<i>0</i>	<i>73.50</i>
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM.	MM	PLAN	PERFORATED
CLASS		FROM TO	FROM TO
<i>UPVC</i>	<i>100</i>	<i>0</i>	<i>12</i>
SCREENING			
INTERNAL DIAM.	MM	SLOT SIZE	FROM TO
TYPE			
<i>UPVC</i>	<i>100</i>	<i>ca 10</i>	<i>12</i> <i>54</i>
GRAVEL PACK	MM	FROM	TO
		<i>M</i>	<i>M</i>
WATER			
WATER STRUCK	<i>11</i>	<i>37</i>	MBG
STANDING WATER LEVEL		<i>3.24 (21 Nov 81)</i>	MBG
TEST YIELD M ³ /HR MAX		<i>STEADY 1.94</i>	
MAXIMUM DRAWD. <i>35</i> M		DURATION TEST <i>240</i> MIN	
T (M ² /SEC) <i>7.6 x 10⁻⁵</i>		r ² WS (M ²)	
METHOD OF PUMPING <i>ELECTRIC SVENTKENSISKE</i>			
SUCTION/AIR OUTLET SET AT	<i>48</i>	MBG	
APPARENT QUALITY OF WATER			
WATER ANALYSIS	P	C x	B
WATER TEMPERATURE	°C	DATE, WRITTEN BY <i>24 Nov 81</i> <i>11/81</i>	

BOREHOLE COMPLETION RECORD

LOCATION: AHINGA RIVER, JOUGAER DISTRICT, KUVVINA						BH NO. 264/81 CCKK NO. RS2	
COORDINATES: 35°39'35" E 10°10' S						ELEVATION: 770 m. asl	
COMPLETION DATE: 18 OCT 81						DRILL. METHOD: AUGER	
DRILLER/ORGANIZATION: DANIDA/UKK/MCSI						DRILL UNIT NO. 53	
CLIENT: WATER MASTER PLAIN							
CONSTRUCTION DETAILS		DEPTH M		SYMBOL		FORMATION DESCRIPTION DATE (Nov 81)	
DRILLED DEPTH 30.9 M	COMPL. DEPTH 27 M	0 - 11	Se	Brown/Yellow v. fine clayey sand			
DRILLED DIAM. 168	FROM 0 TO 30.7	11 - 30.9	S	Brown/Yellow v. fine - med silty sand some mica.			
DETAILS OF CASING LEFT IN BOREHOLE							
INTERNAL DIAM. MM	PLAN FROM TO	PERFORATED FROM TO					
CLASS UPVC	100 0 12						
SCREENING							
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO				
TYPE UPVC	100	ca 10	12	27			
GRAVEL PACK	MM	FROM	M	TO	M		
WATER							
WATER STRUCK	6.2	18.0	MBG				
STANDING WATER LEVEL	3.1	STEADY	MBG				
TEST YIELD M ³ /HR	MAX	MIN					
MAXIMUM DRAWD. M	DURATION TEST	MIN					
T (M ² /SEC)	r ² ws (M ²)						
METHOD OF PUMPING							
SUCTION/AIR OUTLET SET AT							
APPARENT QUALITY OF WATER							
WATER ANALYSIS	P	C	B				
WATER TEMPERATURE	°C	DATE, WRITTEN BY		30 Nov 81 MJD.			
REMARKS NOT TESTED							

BOREHOLE COMPLETION RECORD

LOCATION: <i>HANSA RIVER, SONGERI DISTRICT, RUVUMBI</i>	BH NO. <i>265/31</i> CCKK NO. <i>RS 2</i>
COORDINATES: <i>35°39'30" E 10°10' S</i> ELEVATION: <i>666 m. asl</i>	MAP NO. <i>287/1</i>
COMPLETION DATE: <i>21 Oct 81</i> DRILL. METHOD: <i>Auger</i>	
DRILLER/ORGANIZATION: <i>DANDA/CLKK/INACI</i> DRILL UNIT NO. <i>53</i>	

CLIENT: *WATER MASTER PLAN*

DEPTH M	SYM- BOL	FORMATION BY	DESCRIPTION DATE
<i>0-5</i>	<i>CS</i>	<i>MJJ</i>	<i>Dark brown sandy silty clay</i> <i>1 Nov 81</i>
<i>5-6</i>	<i>SS</i>		<i>Bluish grey fine sandstone with silty fine matrix - (lead soil horizon)</i>
<i>6-30</i>	<i>SS</i>		<i>Yellowish - med brown v. fine silty sand- stone with some clayey horizon.</i>
		AQUIFER	
		<i>KAROO SANDSTONES</i>	
		REMARKS	
		<i>MOLE COLLAPSED ON CLEANING, CASING REMOVED TO RECOVER AIR PIPE</i>	

CONSTRUCTION DETAILS			
DRILLED DEPTH	M	COMPL. DEPTH	M
<i>30.9</i>			
DRILLED DIAM.	MM	FROM	TO
<i>168</i>	<i>0</i>		<i>30.9</i>
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM.	MM	PLAN	PERFORATED
CLASS		FROM TO	FROM TO
SCREENING			
INTERNAL DIAM.	MM	SLOT SIZE	FROM TO
GRAVEL PACK	MM	FROM TO	M TO M
WATER			
WATER STRUCK	<i>6.2</i>	<i>12.4</i>	<i>21.0</i>
STANDING WATER LEVEL		<i>1.3</i>	MBG
TEST YIELD M ³ /HR MAX		STEADY	
MAXIMUM DRAWD. - M		DURATION TEST - MIN	
T (M ² /SEC)		r ² ws (M ²)	
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT		MBG	
APPARENT QUALITY OF WATER			
WATER ANALYSIS	P	C	B
WATER TEMPERATURE	°C	DATE, WRITTEN BY	
		<i>30 Nov 81</i>	<i>1477</i>

BOREHOLE COMPLETION RECORD

LOCATION: MATYAJI IMBOE, SONDET DISTRICT, KUVINGA						BH NO. 211/1 CCKK NO. RS 3	
COORDINATES: 33°39' E 10°22' S ELEVATION: 1000 m.asl						MAP NO.	
COMPLETION DATE: 27 OCT 81 DRILL. METHOD: WJACK						287/1	
DRILLER/ORGANIZATION: DANIELA/CCKK/MAT. DRILL UNIT NO. 53							
CLIENT: WATER WASTEPLAN							
CONSTRUCTION DETAILS		DEPTH M		SYM-BOL		FORMATION DESCRIPTION DATE (11/11/81)	
DRILLED DEPTH 36.6 M	COMPL. DEPTH	0	0-20	Sc	Lt to med brown clayey sand with some mica		
DRILLED DIAM. 168	FROM	36.6	20-36.6	C	Mid brown micaceous clay with quartz grains		
DETAILS OF CASING LEFT IN BOREHOLE							
INTERNAL DIAM. MM	PLAN FROM	TO	PERFORATED FROM	TO			
CLASS							
SCREENING							
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO				
TYPE							
GRAVEL PACK	MM	FROM	M	TO	M		
WATER	NIL						
WATER STRUCK	MBG						
STANDING WATER LEVEL	MBG						
TEST YIELD M ³ /HR MAX	STEADY						
MAXIMUM DRAWD. M	DURATION TEST			MIN			
T (M ² /SEC)	r ² ws (M ²)						
METHOD OF PUMPING							
SUCTION/AIR OUTLET SET AT	MBG						
APPARENT QUALITY OF WATER							
WATER ANALYSIS	P	C	B				
WATER TEMPERATURE	°C	DATE, WRITTEN BY	2 NOV 81				
REMARKS AFRICAN SURFACE - V. thick weathered zone. Still in clayey horizon of conglomerate 36.6m.							

BOREHOLE COMPLETION RECORD

LOCATION: <u>1. TAPA, Soljani DISTRICT, RUVUMA</u>	BH NO. <u>267/S1</u> CCKK NO. <u>RS 4</u>
COORDINATES: <u>35°59'E, 10°18'S</u> ELEVATION: <u>375 m.asl</u>	MAP NO. <u>267/3</u>
COMPLETION DATE: <u>29 Oct 81</u> DRILL. METHOD: <u>HUGER</u>	
DRILLER/ORGANIZATION: <u>DANIDA/CCKK/MRSI</u> DRILL UNIT NO. <u>53</u>	
CLIENT: <u>WATER MASTER PLAN</u>	

DEPTH M	SYM- BOL	FORMATION DESCRIPTION BY FM DATE (DD/EE)
0-12	2	MUD - AT CROWN SILT
12-30.9	M	Black dark grey mudstone

CONSTRUCTION DETAILS			
DRILLED DEPTH	30.9 M	COMPL. DEPTH M	
DRILLED DIAM.	MM	FROM	TO
	168	0	30.9
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM.	MM	PLAN FROM	PERFORATED FROM TO
CLASS		TO	TO
SCREENING			
INTERNAL DIAM.	MM	SLOT SIZE	FROM TO
GRAVEL PACK	MM	FROM M	TO M
WATER			
WATER STRUCK			
			MBG
STANDING WATER LEVEL			
			MBG
TEST YIELD M ³ /HR MAX	STEADY		
MAXIMUM DRAWD.	M	DURATION TEST	MIN
T (M ² /SEC)	r ² ws (M ²)		
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT			
			MBG
APPARENT QUALITY OF WATER			
WATER ANALYSIS	P	C	B
WATER TEMPERATURE	°C	DATE, WRITTEN BY	
		20/10/81 MRSI	

AQUIFER

REMARKS: DRY HOLE

BOREHOLE COMPLETION RECORD

LOCATION: <i>CUMILING, SONOSET DISTRICT, BANGLADESH</i>		BH NO. <i>268/51</i> CCKK NO. <i>RS 5</i>	
COORDINATES: <i>35°38'E 10°46'S</i>		ELEVATION: <i>888</i> m. asl	
COMPLETION DATE: <i>1 NOV 81</i>		DRILL. METHOD: <i>AVGER</i>	
DRILLER/ORGANIZATION: <i>DANIDA/CCCK/MITJ</i>		DRILL UNIT NO. <i>57</i>	
CLIENT: <i>WATER MASTER PLAN</i>			
DEPTH M	SYMBOL	FORMATION BY MITJ	DESCRIPTION DATE
0-14	IS	<i>Red brown, chocolate fine clayey siltstone and mudstone</i>	<i>6 Nov 81</i>
14 - 30.9	IS	<i>Dark red brown micaceous siltstone and interbedded dark brown mudstone</i>	
CONSTRUCTION DETAILS		AQUIFER	
DRILLED DEPTH	30.9 M	REMARKS	
DRILLED DIAM.	168	<i>KAKROO SILTS AND CONCRETES.</i>	
COMPL. DEPTH	0		
PERFORATED	FROM TO	DATE, WRITTEN BY <i>4 NOV 81 MITJ</i>	
INTERNAL DIAM. CLASS	NIL		
SCREENING		METHOD OF PUMPING	
INTERNAL DIAM. TYPE	NIL		
GRAVEL PACK	NIL	SUCTION/AIR OUTLET SET AT	
WATER			
WATER STRUCK	NIL	APPARENT QUALITY OF WATER	
STANDING WATER LEVEL	<i>Nil</i>		
TEST YIELD	M ³ /HR MAX	WATER ANALYSIS	
MAXIMUM DRAWD.	M		
T	(M ² /SEC)	WATER TEMPERATURE	

BOREHOLE COMPLETION RECORD

LOCATION: HANGA RIVER, SONGEM DISTRICT, RUVUNA						BH NO. 269/1 CCKK NO. RS6	
COORDINATES: 35°39'E 10°10'S				ELEVATION: 440 m.asl		MAP NO. 287/1	
COMPLETION DATE: 4 NOV 81						DRILL. METHOD: Auger	
DRILLER/ORGANIZATION: DANIDA/CCKK/MK01 DRILL UNIT NO. 03							
CLIENT: WATER MASTER PLAN							
CONSTRUCTION DETAILS		DEPTH M		SYM-BOL		FORMATION DESCRIPTION DATE 5 NOV 81	
DRILLED DEPTH 36.5 M	COMPL. DEPTH 36. M	0-3	S	lt brown clayey s.s. fine grained sand			
DRILLED DIAM. 168 MM	FROM 0 TO 36.5	3-6	S	Yellow sand			
DETAILS OF CASING LEFT IN BOREHOLE		6-15	SS	Red brown fine grained sandstone			
INTERNAL DIAM. 100mm MM	PLAN FROM 0 TO 23	15-22.5	SS	Red brown clayey sandstone			
CLASS UPVC		22.5-27	SS	Red med grained sandstone w/ minor clay			
SCREENING		27-29	Sc	Red v. fine clayey sand.			
INTERNAL DIAM. 100 MM	SLOT SIZE FROM ea 10 TO 36	29-36	Cs	lt red brown sandy gravel.			
GRAVEL PACK --- MM	FROM --- M TO --- M	AQUIFER KIKOO					
WATER		REMARKS OBSERVATION WELL					
WATER STRUCK --- MM	15.0 MBG	10 DR1 R: 40m to NE.					
STANDING WATER LEVEL --- M	4.45 MBG	DATE, WRITTEN BY 5th NOV 81 MJJ					
TEST YIELD M³/HR MAX	STEADY						
MAXIMUM DRAWD. --- M	DURATION TEST --- MIN						
T (M²/SEC)	r ² wS (M²)						
METHOD OF PUMPING							
SUCTION/AIR OUTLET SET AT --- MBG							
APPARENT QUALITY OF WATER							
WATER ANALYSIS P	C	B					
WATER TEMPERATURE --- °C							

BOREHOLE COMPLETION RECORD

LOCATION: <u>MAHAR RIVER, SANDER DISTRICT, KUVVUR.</u>		BH NO. <u>270/81</u> CCKK NO. <u>RS 7</u>	
COORDINATES: <u>30°35'20"E 10°10'S</u> ELEVATION: <u>666 m. asl</u>		MAP NO. <u>287/1</u>	
COMPLETION DATE: <u>6/10/81</u> DRILL. METHOD: <u>WATER</u>			
DRILLER/ORGANIZATION: <u>DAVIDA/CCKK/MAHAR</u> DRILL UNIT NO. <u>53</u>			
CLIENT: <u>WATER MASTER PLAN</u>			
FORMATION DESCRIPTION		DATE	
BY <u>MSJ</u>	<u>Dark brown sandy silty clay</u>	<u>0-5</u>	<u>1</u>
	<u>Bluish grey fine sandstone with leached clay matrix</u>	<u>5-6</u>	<u>19</u>
	<u>Yellowish/brown v. fine silty clayey sandstone with clayey horizons</u>	<u>6-22.8</u>	<u>55</u>
DEPTH M	SYM-BOL	AQUIFER	
		<u>KA100</u>	
		REMARKS <u>1000 MPA. 100 TO 1000 SW2.</u>	
CONSTRUCTION DETAILS			
DRILLED DEPTH <u>22.8</u> M	COMPL. DEPTH <u>22.8</u> M	FROM	TO
DRILLED DIAM. <u>168</u> MM	<u>0</u>	<u>0</u>	<u>22.8</u>
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. <u>100</u> MM	PLAN	PERFORATED	
CLASS <u>UPVC</u>	FROM <u>0</u>	FROM	TO
		<u>0</u>	<u>22</u>
SCREENING			
INTERNAL DIAM. <u>100</u> MM	SLOT SIZE	FROM	TO
TYPE <u>UPVC</u>	<u>ca 10</u>	<u>0</u>	<u>22</u>
GRAVEL PACK <u>100</u> MM	FROM	M	TO
WATER			
WATER STRUCK <u>10.0</u>	<u>15.0</u>		MBG
STANDING WATER LEVEL	<u>3.71</u>		MBG
TEST YIELD M ³ /HR MAX	—	STEADY	—
MAXIMUM DRAWD. M	DURATION TEST	MIN	
T (M ² /SEC)	r ² ws (M ²)		
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT			MBG
APPARENT QUALITY OF WATER			
WATER ANALYSIS	P	C	B
WATER TEMPERATURE	°C	DATE, WRITTEN BY <u>MSJ</u> <u>11/1/81</u>	

BOREHOLE COMPLETION RECORD

LOCATION: AZIMIO, TUNDURU DISTRICT, RUVUMA	BH NO. 271/91 CCKK NO. 258
COORDINATES: 37°17'30"E 11°07'30"S ELEVATION: 560 m. asl	MAP NO. 314/2
COMPLETION DATE: 16 Nov 81 DRILL. METHOD: AUGER	
DRILLER/ORGANIZATION: DANILA/CCKK/MAJI DRILL UNIT NO. 53	
CLIENT: WATER WALTER FRAN	

CONSTRUCTION DETAILS	DEPTH M	SYM-BOL	FORMATION BY	DESCRIPTION DATE
DRILLED DEPTH 10.6 M	0-1.52	C		Dark gray clay
DRILLED DIAM. 168 MM	-3.05	Si		yellowish silty sand
	-6.10	Sc		Green gray fine/medium sand with clay
DETAILS OF CASING LEFT IN BOREHOLE	9.14	Sc		Yellowish fine/coarse sand w. clay - wet
INTERNAL DIAM. MM				
CLASS				
VPC 100				
SCREENING				
INTERNAL DIAM. MM				
TYPE				
VPC 100				
GRAVEL PACK MM				
WATER				
WATER STRUCK 5.6				
STANDING WATER LEVEL 0.8				
TEST YIELD M ³ /HR MAX				
MAXIMUM DRAWD. M				
T (M ² /SEC)				
METHOD OF PUMPING				
SUCTION/AIR OUTLET SET AT				
APPARENT QUALITY OF WATER				
WATER ANALYSIS P				
WATER TEMPERATURE °C				

AQUIFER

REMARKS TOO LITTLE WATER TO TEST

DATE, WRITTEN BY 2 DEC 81 MJO

DATA LOG TO FOLLOW

BOREHOLE COMPLETION RECORD

LOCATION: <u>AZIMMO, TOLLING DISTRICT, PUNJAB</u>				BH NO. <u>270/121</u>	
COORDINATES: <u>30°17' E 11°03' N</u>				ELEVATION: <u>509</u> m.asl	
COMPLETION DATE: <u>11/12/11</u>				DRILL. METHOD: <u>Hand</u>	
DRILLER/ORGANIZATION: <u>SHAR/CLKK/MACI</u>				DRILL UNIT NO. <u>010</u>	
CLIENT: <u>Water for irrigation</u>					
CONSTRUCTION DETAILS		DEPTH M		SYMBOL	
DRILLED DEPTH	COMPL. DEPTH	FORMATION DESCRIPTION		DATE	
12.1	12.1	Green clay			
16.5	16.5	Dark grey clay			
		Grey clay			
		Fine grey sand - wet			
		Grey clay w fine sand - wet			
		Fine/medium grey sand - wet			
DETAILS OF CASING LEFT IN BOREHOLE		AQUIFER		REMARKS	
INTERNAL DIAM. MM	PLAN PERFORATED	WATER		TOO LITTLE WATER TO	
CLASS	FROM TO	WATER STRUCK		T.C.	
PVC	0 5	STANDING WATER LEVEL			
100	0 5	TEST YIELD M ³ /HR MAX			
		MAXIMUM DRAWD. M			
		T (M ² /SEC)			
		METHOD OF PUMPING			
		SUCTION/AIR OUTLET SET AT			
		APPARENT QUALITY OF WATER			
		WATER ANALYSIS P			
		WATER TEMPERATURE °C			
		DATE, WRITTEN BY		2 Dec 81	
				MJS	

BOREHOLE COMPLETION RECORD

LOCATION: AZIMIO, TUNDURU DISTRICT, RUVUMA						BH NO. 273/81 CCKK NO. RS10	
COORDINATES: 27°16'30"E 11°09'S						ELEVATION: 540 m. asl	
COMPLETION DATE: 18 Nov 81						DRILL. METHOD: AUGER	
DRILLER/ORGANIZATION: DANDA/CCKK/MARI						DRILL UNIT NO. 53	
CLIENT: WATER MASTER PLAN							
CONSTRUCTION DETAILS		DEPTH M		SYM-BOL		FORMATION DESCRIPTION DATE	
DRILLED DEPTH	18.3 M	COMPL. DEPTH	17.5 M				
DRILLED DIAM.	168	FROM	0				
		TO	18.3				
DETAILS OF CASING LEFT IN BOREHOLE							
INTERNAL DIAM. CLASS	MM	PLAN FROM	TO	PERFORATED FROM	TO		
UPVC	100	0	8.5				
SCREENING							
INTERNAL DIAM. TYPE	MM	SLOT SIZE	FROM	TO			
UPVC	100	0.1 ID	8.5	17.5			
GRAVEL PACK	MM	FROM	M	TO	M		
WATER							
WATER STRUCK			10 - 15			MBG	
STANDING WATER LEVEL			0.8			MBG	
TEST YIELD M ³ /HR	MAX					STEADY	
MAXIMUM DRAWD.	M	DURATION TEST				MIN	
T (M ² /SEC)		r ² WS (M ²)					
METHOD OF PUMPING							
SUCTION/AIR OUTLET SET AT							MBG
APPARENT QUALITY OF WATER							
WATER ANALYSIS	P	C	B				
WATER TEMPERATURE	°C	DATE, WRITTEN BY		21 DEC 81		MJJ	
REMARKS: TOP LITTLE WATER TO TEST							

WITH LOG TO FOLLOW

BOREHOLE COMPLETION RECORD

LOCATION: AZIMIO, TUNDURU DISTRICT, RUVUMA						BH NO. 274/31 CCKK NO. RS 11	
COORDINATES: 37°13'00" , 11°11' ELEVATION: 640 m.asl						MAP NO. 314/11	
COMPLETION DATE: 18 Nov 81 DRILL. METHOD: AUGER							
DRILLER/ORGANIZATION: DANIDA/CCKK/MAJI DRILL UNIT NO. 53							
CLIENT: WATER MASTER PLAN							
CONSTRUCTION DETAILS				DEPTH	SYM-BOL	FORMATION	DESCRIPTION
DRILLED DEPTH	26.4	M	COMPL. DEPTH	-	M		
DRILLED DIAM.	168	MM	FROM	0			Silty medium grained Sand w. Soil
			TO	26.4			Brown fine/coarse sand
DETAILS OF CASING LEFT IN BOREHOLE							
INTERNAL DIAM. CLASS	MM	PLAN	PERFORATED				
		FROM	FROM	TO	TO		
		TO					
SCREENING							
INTERNAL DIAM. TYPE	MM	SLOT SIZE	FROM	TO			
	NIL						
GRAVEL PACK	MM	FROM	M	TO	M		
WATER STRUCK							
STANDING WATER LEVEL			18.1		MBG		
TEST YIELD M ³ /HR	MAX		3.5	(19 Nov 81)	MBG		
MAXIMUM DRAWD.	M	DURATION TEST			MIN		
T (M ² /SEC)		Y ² WS (M ²)					
METHOD OF PUMPING							
SUCTION/AIR OUTLET SET AT					MBG		REMARKS 11011 118/11000 NFD 4RY.
APPARENT QUALITY OF WATER							
WATER ANALYSIS	P	C			B		
WATER TEMPERATURE	°C	DATE, WRITTEN BY	2	DEC	81	MJZ	

WATH LOG TO FOLLOW

BOREHOLE COMPLETION RECORD

LOCATION: <i>AZIMID, TUNDURU DISTRICT, RUVUMA</i>				BH NO. <i>275/3</i> CCKK NO. <i>RS12</i>	
COORDINATES: <i>37° 13' 58" N, 110° 48" E</i> ELEVATION: <i>640</i> m.asl				MAP NO. <i>314/1</i>	
COMPLETION DATE:		DRILL. METHOD: <i>AUGER</i>			
DRILLER/ORGANIZATION: <i>DANIDA/CCKK/MAZI</i> DRILL UNIT NO. <i>53</i>					
CLIENT: <i>WATER MASTER PLAN</i>					
CONSTRUCTION DETAILS		DEPTH M		SYMBOL	
DRILLED DEPTH	22.1 M	COMPL. DEPTH			
DRILLED DIAM.	168 MM	FROM	0		
		TO	23.1		
DETAILS OF CASING LEFT IN BOREHOLE					
INTERNAL DIAM. CLASS	MM	PLAN FROM		PERFORATED FROM	TO
	<i>NIL</i>				
SCREENING					
INTERNAL DIAM. TYPE	MM	SLOT SIZE	FROM	TO	
	<i>NIL</i>				
GRAVEL PACK	MM	FROM	M	TO	M
WATER STRUCK					MBG
					<i>NIL</i>
STANDING WATER LEVEL					MBG
					<i>14.38</i>
TEST YIELD M ³ /HR	MAX			STEADY	
MAXIMUM DRAWD.	M	DURATION TEST	MIN		
T (M ² /SEC)		r ² ws (M ²)			
METHOD OF PUMPING					
SUCTION/AIR OUTLET SET AT					MBG
APPARENT QUALITY OF WATER					
WATER ANALYSIS	P	C	B		
WATER TEMPERATURE	°C	DATE, WRITTEN BY	<i>2 DEC 1981</i>	WJ	

AQUIFER

REMARKS *HOLE ABANDONED DRY*

WITH LOG TO FOLLOW

MBEYA

BOREHOLE COMPLETION RECORD

LOCATION: MBAYA REGION, CHUNYA DISTRICT, CHUNYA LUPA GOLDFIELD CONTROLLED AREA						BH NO. 5/36 CCKK NO.																																																																																																																																																																																	
COORDINATES:				ELEVATION: m.asl		MAP NO.																																																																																																																																																																																	
COMPLETION DATE: 6.6.36				DRILL. METHOD:		Q.D.S. 244																																																																																																																																																																																	
DRILLER/ORGANIZATION:				DRILL UNIT NO.																																																																																																																																																																																			
CLIENT: GOVERNMENT																																																																																																																																																																																							
DEPTH M		SYM- BOL		FORMATION BY		DESCRIPTION DATE																																																																																																																																																																																	
AQUIFER Fractured epidotized granite																																																																																																																																																																																							
REMARKS																																																																																																																																																																																							
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CONSTRUCTION DETAILS				DETAILS OF CASING LEFT IN BOREHOLE																																																																																																																																																																																			
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WATER TEMPERATURE	°C		DATE, WRITTEN BY 23.5.81, F/M.																																																																																																																																																																																				

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REGION, CHUNYA DISTRICT, FLINGAJONI LUPA GOLDFIELD										BH NO. 6/36 CCKK NO.					
COORDINATES: 8°27'5"S; 33°16'E										ELEVATION: m.asl		MAP NO.			
COMPLETION DATE: 4.6.37										DRILL. METHOD:		QDS 228			
DRILLER/ORGANIZATION:										DRILL UNIT NO.					
CLIENT: GOVERNMENT															
FORMATION DESCRIPTION															
BY DATE															
Sandy clay with a few minerals Weathered granite Granite, mineralized with Sulphides and iron oxides															
SYM-BOL															
C P _w P															
DEPTH															
M															
0 - 4.6 15.2 89.0															
AQUIFER															
granite															
REMARKS															
Dry well															
CONSTRUCTION DETAILS															
DRILLED DEPTH. 89.0 M		COMPL. DEPTH 89.0 M													
DRILLED DIAM. 170 MM		FROM 0		TO 89.0											
DETAILS OF CASING LEFT IN BOREHOLE															
INTERNAL DIAM. MM		PLAN		PERFORATED											
CLASS		FROM TO		FROM TO											
SCREENING															
INTERNAL DIAM. MM		SLOT SIZE		FROM TO											
GRAVEL PACK MM		FROM M TO M													
WATER															
WATER STRUCK MBG															
STANDING WATER LEVEL MBG															
TEST YIELD M ³ /HR MAX		STEADY													
MAXIMUM DRAWD. M		DURATION TEST MIN													
T (M ² /SEC)		r ² ws (M ²)													
METHOD OF PUMPING															
SUCTION/AIR OUTLET SET AT MBG															
APPARENT QUALITY OF WATER															
WATER ANALYSIS P		C		B											
WATER TEMPERATURE °C		DATE, WRITTEN BY													

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REGION, CHUNYA DIST. MAKONCOLDZI						BH NO. 8/36 CCKK NO.	
COORDINATES: 8° 24.4'S 33° 09.8'E ELEVATION: m.asl						MAP NO. QDS. 228	
COMPLETION DATE: 26.11.36 DRILL. METHOD:							
DRILLER/ORGANIZATION:				DRILL UNIT NO.			
CLIENT: GOVERNMENT							
DEPTH M		SYM-BOL		FORMATION BY		DESCRIPTION DATE	
0 - 61 28.4 57.9		G Pw Pf		Gravel Weathered granite Fresh granite			
AQUIFER Fractured granite							
REMARKS							
CONSTRUCTION DETAILS							
DRILLED DEPTH	57.9 M	COMPL. DEPTH	57.9 M				
DRILLED DIAM.	MM	FROM	TO				
DETAILS OF CASING LEFT IN BOREHOLE							
INTERNAL DIAM.	MM	PLAN FROM	TO	PERFORATED FROM	TO		
CLASS							
SCREENING							
INTERNAL DIAM.	MM	SLOT SIZE		FROM	TO		
TYPE							
GRAVEL PACK	MM	FROM	M	TO	M		
WATER							
WATER STRUCK	26	STANDING WATER LEVEL		6.1	MBG		
TEST YIELD M ³ /HR MAX				STEADY	1.8		
MAXIMUM DRAWD.	M	DURATION TEST		MIN			
T (M ² /SEC)		r ² _w S (M ²)					
METHOD OF PUMPING							
SUCTION/AIR OUTLET SET AT				MBG			
APPARENT QUALITY OF WATER							
WATER ANALYSIS	P	C	X	B			
WATER TEMPERATURE	°C	DATE, WRITTEN BY					

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REGION, CHUNYA DISTRICT, CHUNYA TOWNSHIP LUPA GOLDFIELD CONTROLLED AREA, PUMP HOUSE		BH NO. 9137 CCKK NO.	
COORDINATES: 8°30.8'S, 33°25.8'E		ELEVATION: 1467 m.asl	
COMPLETION DATE: 6.10.37		DRILL. METHOD:	
DRILLER/ORGANIZATION:		DRILL UNIT NO.	
CLIENT: GOVERNMENT			
CONSTRUCTION DETAILS		DEPTH M	
DRILLED DEPTH 55.0 M DRILLED DIAM. MM 150	COMPL. DEPTH 55.0 M FROM 0 TO 55	0 - 12 11.3 54.9	FORMATION DESCRIPTION DATE Top soil Quartz gravel Granite gneiss
DETAILS OF CASING LEFT IN BOREHOLE		SYM-BOL T Q P	
INTERNAL DIAM. MM CLASS	PLAN FROM TO PERFORATED FROM TO		
SCREENING			
INTERNAL DIAM. MM TYPE	SLOT SIZE FROM TO		
GRAVEL PACK MM WATER	FROM M TO M		
WATER STRUCK MBG			
STANDING WATER LEVEL MBG			
TEST YIELD M ³ /HR MAX	STEADY 2.27	AQUIFER Fractured gneiss	
MAXIMUM DRAWD. M T (M ² /SEC)	DURATION TEST MIN r ² ws (M ²)	REMARKS Salinity: 389/gall.	
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT MBG			
APPARENT QUALITY OF WATER			
WATER ANALYSIS P X C B			
WATER TEMPERATURE °C		DATE, WRITTEN BY 28.5.81, F.M.	

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REGION; CHUNYA DISTR. KUNGUTA'S LUPA CONTROLLED AREA						BH NO. 13/37 CCKK NO.	
COORDINATES: 8°28.5'S, 33°14.8'E				ELEVATION: m.asl		MAP NO.	
COMPLETION DATE: 23.12.37				DRILL. METHOD:		Q.D.S. 228	
DRILLER/ORGANIZATION:				DRILL UNIT NO.			
CLIENT:							
DEPTH M		SYM-BOL		FORMATION DESCRIPTION BY DATE			
0 - 0.9 2.7 6.4 49.1		T C Rw Rw		Top soil Yellow clay Weathered granite Slightly weathered granite			
CONSTRUCTION DETAILS							
DRILLED DEPTH 49.1 M		COMPL. DEPTH 49.1 M					
DRILLED DIAM. MM		FROM TO					
49.1		0 49.1					
DETAILS OF CASING LEFT IN BOREHOLE							
INTERNAL DIAM. MM		PLAN FROM TO		PERFORATED FROM TO			
CLASS							
SCREENING							
INTERNAL DIAM. MM		SLOT SIZE FROM TO					
TYPE							
GRAVEL PACK MM		FROM M TO M					
WATER							
WATER STRUCK 37.5				MBG			
STANDING WATER LEVEL 1				MBG			
TEST YIELD M ³ /HR MAX		STEADY 10.9					
MAXIMUM DRAWD. M		DURATION TEST MIN					
T (M ² /SEC)		r ² ws (M ²)					
METHOD OF PUMPING							
SUCTION/AIR OUTLET SET AT		MBG					
APPARENT QUALITY OF WATER							
WATER ANALYSIS		P X C B					
WATER TEMPERATURE		°C		DATE, WRITTEN BY 28.5.84; F.M.			
REMARKS		Now PDW water supply					
AQUIFER		Weathered granite					

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REGION CHUNYA DISTR. KASANGA VILLAGE						BH NO. 2/38 CCKK NO.	
COORDINATES:				ELEVATION: m.asl		MAP NO.	
COMPLETION DATE: 8.2.38				DRILL. METHOD:			
DRILLER/ORGANIZATION:						DRILL UNIT NO.	
CLIENT: GOVERNMENT							
CONSTRUCTION DETAILS		DEPTH M		FORMATION BY		DESCRIPTION DATE	
DRILLED DEPTH 19 M	COMPL. DEPTH 19 M	FROM	TO				
DRILLED DIAM. MM							
DETAILS OF CASING LEFT IN BOREHOLE							
INTERNAL DIAM. MM	PLAN	PERFORATED					
CLASS	FROM	TO	FROM	TO			
SCREENING							
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO				
GRAVEL PACK MM	FROM	M	TO	M			
WATER							
WATER STRUCK					MBG		
STANDING WATER LEVEL					MBG		
TEST YIELD M ³ /HR	MAX	STEADY					
MAXIMUM DRAWD. M	DURATION TEST	MIN					
T (M ² /SEC)	r ² ws (M ²)						
METHOD OF PUMPING							
SUCTION/AIR OUTLET SET AT MBG							
APPARENT QUALITY OF WATER							
WATER ANALYSIS	P	C	B				
WATER TEMPERATURE	°C	DATE, WRITTEN BY	28.5.81	F.M.			
REMARKS				Dry well			
AQUIFER							

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REGION; CHUNYA DISTRICT; NTUMBI EVENING STAR GOLD MINING SYNDICATE						BH NO. 2/40 CCKK NO.	
COORDINATES: Appr. 8°22'S, 33°18.5'E ELEVATION: m.asl						MAP NO.	
COMPLETION DATE: 19.8.40 DRILL. METHOD:						Q.D.S 228	
DRILLER/ORGANIZATION:						DRILL UNIT NO.	
CLIENT: E.S. MINING SYNDICATE							
CONSTRUCTION DETAILS		DRILLED DEPTH 49.1 M DRILLED DIAM. 200 MM 165	COMPL. DEPTH 49.1 M FROM 0 26.5 49.1	TO 26.5 49.1	DETAILS OF CASING LEFT IN BOREHOLE INTERNAL DIAM. 165 MM CLASS	PLAN FROM 0 TO 20.6 PERFORATED FROM TO	TO
SCREENING		INTERNAL DIAM. TYPE	SLOT SIZE	FROM TO			
GRAVEL PACK		MM 45	FROM M TO M	TO M			
WATER STRUCK		45			MBG		
STANDING WATER LEVEL		33.5			MBG		
TEST YIELD M ³ /HR MAX		1.8	M	DURATION TEST 930 MIN	STEADY 12.7		
MAXIMUM DRAWD. T (M ² /SEC)		1.8	M	DURATION TEST 930 MIN	STEADY 12.7		
METHOD OF PUMPING		SUCTION/AIR OUTLET SET AT MBG					
APPARENT QUALITY OF WATER		WATER ANALYSIS P X C B					
WATER TEMPERATURE		°C	DATE, WRITTEN BY 28.5.84; F.M.				
DEPTH M	SYM-BOL	FORMATION BY	DESCRIPTION DATE				
0 - 1.2	C	Black clay					
2.7	C	Yellow clay					
3.7	Q	Quartz boulders, washed					
33.5	Pw	Decomposed granite					
36.0	Q	Quartz					
44.8	R	Granite					
49.1	R	Greenstone					
				AQUIFER GREENSTONE			
				REMARKS			

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REGION			MBEYA DISTR.			MBEYA TOWNSHIP			BH NO. 3/40	
			MBEYA AIRPORT						CCKK NO.	
COORDINATES: 8°55.0'S, 33°27.5'E						ELEVATION: 1707 m.asl			MAP NO.	
COMPLETION DATE: 27.9.40						DRILL. METHOD:			Q.O.S. 244	
DRILLER/ORGANIZATION:						DRILL UNIT NO.				
CLIENT:						GOVERNMENT				
FORMATION DESCRIPTION DATE		SYM-BOL		DEPTH M		REMARKS				
Volcanic soil		V		0-0.6		AQUIFER Lava				
Pumice		V		12.2						
Lava		V		79.2						
CONSTRUCTION DETAILS										
DRILLED DEPTH 79.2 M		COMPL. DEPTH 79.2 M								
DRILLED DIAM. 200 MM		FROM 0		TO 79.2						
DETAILS OF CASING LEFT IN BOREHOLE										
INTERNAL DIAM. 165 MM		PLAN FROM 0		PERFORATED FROM 79.2						
SCREENING										
INTERNAL DIAM. MM		SLOT SIZE		FROM TO						
GRAVEL PACK MM		FROM M		TO M						
WATER										
WATER STRUCK 56		MBG								
STANDING WATER LEVEL 736.6		MBG								
TEST YIELD M ³ /HR MAX		STEADY 3.6								
MAXIMUM DRAWD. M		DURATION TEST 960 MIN								
T (M ² /SEC)		r ² ws (M ²)								
METHOD OF PUMPING										
SUCTION/AIR OUTLET SET AT		MBG								
APPARENT QUALITY OF WATER GRACIOUS										
WATER ANALYSIS		P X C B								
WATER TEMPERATURE °C		DATE, WRITTEN BY 28.5.81; F.M.								

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REGION, CHUNYA DISTRICT, NTUMBI SHEENZI REEF, LUPA GOLDFIELD MENZIES AND WRIGHT						BH NO. 4/40 CCKK NO.	
COORDINATES: 8° 22' S; 33° 18' 5" E				ELEVATION: m.asl		MAP NO.	
COMPLETION DATE: 28.10.40				DRILL. METHOD:		Q.D.S. 228	
DRILLER/ORGANIZATION:				DRILL UNIT NO.			
CLIENT: MENZIES & WRIGHT							
CONSTRUCTION DETAILS		DEPTH M		SYM-BOL		FORMATION DESCRIPTION DATE	
DRILLED DEPTH M DRILLED DIAM. MM	COMPL. DEPTH M FROM TO	0-0.9 2.4 45.3 57.9 91.4	T L P R P	Top soil Limestone Granite Schist Granite			
DETAILS OF CASING LEFT IN BOREHOLE							
INTERNAL DIAM. MM CLASS	PLAN FROM TO	PERFORATED FROM TO					
200 150	0 79.2 91.4	0 3					
SCREENING							
INTERNAL DIAM. MM TYPE	SLOT SIZE	FROM TO					
GRAVEL PACK MM WATER	FROM M TO M						
WATER STRUCK	79.2						
STANDING WATER LEVEL	64						
TEST YIELD M ³ /HR MAX	STEADY 0.03						
MAXIMUM DRAWD. M T (M ² /SEC)	DURATION TEST MIN						
METHOD OF PUMPING							
SUCTION/AIR OUTLET SET AT MBG							
APPARENT QUALITY OF WATER							
WATER ANALYSIS	P X C B						
WATER TEMPERATURE °C	DATE, WRITTEN BY 28.5.81; F.M.						
REMARKS		Borehole unsuccessful					
AQUIFER		Granite					

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REG. CHUNYA DISTR. NTUMBI MINE SHEENZI REEF. MENZIES AND WRIGHT		BH NO. 1/41 CCKK NO.	
COORDINATES: 8°22'S; 33°18.5'E		ELEVATION: m.asl	
COMPLETION DATE: 30.6.46		DRILL. METHOD:	
DRILLER/ORGANIZATION:		DRILL UNIT NO.	
CLIENT: MENZIES & WRIGHT			
DEPTH M	SYM- BOL	FORMATION DESCRIPTION BY	DATE
0 - 1.5 51.8	T GB	Black soil Fine grained norite	
AQUIFER Fractured Norite			
REMARKS			
CONSTRUCTION DETAILS			
DRILLED DEPTH 51.8 M	COMPL. DEPTH 51.8 M		
DRILLED DIAM. MM	FROM TO		
200	0 22.5		
150	22.5 51.8		
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. MM	PLAN FROM TO	PERFORATED FROM TO	
CLASS 150	0 21.9		
SCREENING			
INTERNAL DIAM. MM	SLOT SIZE FROM TO		
GRAVEL PACK MM FROM M TO M			
WATER			
WATER STRUCK	19.5	MBG	
STANDING WATER LEVEL	14	MBG	
TEST YIELD M ³ /HR MAX	STEADY 1.4		
MAXIMUM DRAWD. M	DURATION TEST 1400 MIN		
T (M ² /SEC)	r ² ws (M ²)		
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT	MBG		
APPARENT QUALITY OF WATER BRACKISH			
WATER ANALYSIS	P X C B		
WATER TEMPERATURE	°C	DATE, WRITTEN BY 28.5.91; F.M.	

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REG. MBUZI DISTR. MBIMBA	BH NO. 33/52 CCKK NO.
COORDINATES: 9°05.2'S, 32°57.3'E ELEVATION: m.asl	MAP NO. G.D.S. 257
COMPLETION DATE: 16.12.52 DRILL. METHOD:	
DRILLER/ORGANIZATION: DRILL UNIT NO.	
CLIENT: DEPARTMENT OF AGRICULTURE	

DEPTH M	SYM- BOL	FORMATION DESCRIPTION DATE
0 - 8.8	S	Fine to coarse sand
49.4	K	Kaoline with mica
53.2	R _w	Weathered granite
59.4	R _w	Granite gneiss
AQUIFER Sand		
REMARKS		

CONSTRUCTION DETAILS			
DRILLED DEPTH	59.4 M	COMPL. DEPTH	59.4 M
DRILLED DIAM.	MM	FROM	TO
	200	0	53.2
	185	33.2	59.4
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM.	MM	PLAN	PERFORATED
CLASS		FROM	FROM
	150	0	52.2
SCREENING			
INTERNAL DIAM.	MM	SLOT SIZE	FROM
TYPE			TO
GRAVEL PACK	MM	FROM	M TO M
WATER			
WATER STRUCK	6		MBG
STANDING WATER LEVEL	1		MBG
TEST YIELD M ³ /HR	MAX	STEADY	2.6
MAXIMUM DRAWD.	M	DURATION TEST	MIN
T (M ² /SEC)		r ² ws (M ²)	
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT			MBG
APPARENT QUALITY OF WATER			
WATER ANALYSIS	P	C	B
WATER TEMPERATURE	°C	DATE, WRITTEN BY 28.5.81; F.M.	

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REGION, MBOZI DISTR. IUUNA SALT PANS		BH NO. 30/52 CCKK NO.
COORDINATES: 8°25.8'S, 32°29.1'E		ELEVATION: 930 m.asl MAP NO.
COMPLETION DATE: 15.10.52		DRILL. METHOD: G.D.S. 226 226/IV
DRILLER/ORGANIZATION:		DRILL UNIT NO.
CLIENT: GEOLOGICAL SURVEY		

DEPTH M	SYM- BOL	FORMATION BY	DESCRIPTION DATE
0 - 1.2	T	Black soil	
2.1	S	Fine sand	
4.6	S	Fine sand and limestone	
13.7	Cs	Sandy clay	
14.3	S	Fine sand	
16.5	C	Black clay	
84.4	Cs	Bluish green clayey sand	
85.3	SS	Reddish sandstone	

CONSTRUCTION DETAILS		COMPL. DEPTH 85.3 M	
DRILLED DEPTH 85.3 M	MM	FROM	TO
DRILLED DIAM. 165	MM	0	85.3
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. MM	PLAN	PERFORATED	
CLASS Non	FROM TO	FROM TO	
SCREENING			
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO
GRAVEL PACK MM FROM M TO M			
WATER			
WATER STRUCK 14, 39			MBG
STANDING WATER LEVEL 10			MBG
TEST YIELD M ³ /HR MAX		STEADY TEST 1.82	
MAXIMUM DRAWD. M		DURATION TEST 150 MIN	
T (M ² /SEC)		r ² ws (M ²)	
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT MBG			
APPARENT QUALITY OF WATER			
WATER ANALYSIS P X	C	B	
WATER TEMPERATURE °C	DATE, WRITTEN BY 28.5.91; F.M.		

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REGION, MB021 DISTRICT		IUNNA SALT PANS		BH NO. 18/52	
COORDINATES: 8°25.8'S; 32°29.1'E		ELEVATION: 930 m.asl		MAP NO.	
COMPLETION DATE: 13.10.52		DRILL. METHOD:		Q.D.S. 226 226/10	
DRILLER/ORGANIZATION:			DRILL UNIT NO.		
CLIENT: GEOLOGICAL SURVEY					
CONSTRUCTION DETAILS		DEPTH M		SYMBOL	
DRILLED DEPTH 91.4 M	COMPL. DEPTH 91.4 M	0 - 2.4	C	FORMATION DESCRIPTION	
DRILLED DIAM. 200 MM	FROM 0 TO 10.0	3.0	C	BY	
165	10.0 TO 91.4	52	S	Black clay	
DETAILS OF CASING LEFT IN BOREHOLE		7.0	Cs	Fine gray clay	
INTERNAL DIAM. 150 MM	PLAN FROM 0 TO 81.8	19.5	Cs	Fine gray sand	
CLASS		70.3	Cs	Black sandy clay	
		91.4	S	Bluish sandy clay	
				Bluish sandy clay, limestone and gravel	
				Red muddy sand.	
SCREENING		AQUIFER			
INTERNAL DIAM. MM	SLOT SIZE	Sand and gravel with lime material			
		REMARKS			
GRAVEL PACK MM	FROM M TO M				
WATER					
WATER STRUCK 15, 19.5, 46, 67					
STANDING WATER LEVEL	8				
TEST YIELD M ³ /HR MAX	STEADY 109				
MAXIMUM DRAWD. M	DURATION TEST 1644 MIN				
T (M ² /SEC)	r ² ws (M ²)				
METHOD OF PUMPING					
SUCTION/AIR OUTLET SET AT		MBG			
APPARENT QUALITY OF WATER		Brackish			
WATER ANALYSIS	P X C B				
WATER TEMPERATURE	°C	DATE, WRITTEN BY 28.5.81; F.M.			

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REG. MB021 DISTR. MBIMBA III COFFEE RESEARCH CENTRE		BH NO. 42155 CCKK NO.	
COORDINATES: 9°05.3'S ; 32°57.3'E		ELEVATION: m.asl	MAP NO.
COMPLETION DATE: 22.12.55		DRILL. METHOD:	
DRILLER/ORGANIZATION:		DRILL UNIT NO.	
CLIENT: AGRICULTURAL DEPARTMENT			
DEPTH M	SYM- BOL	FORMATION BY	DESCRIPTION DATE
AQUIFER Gravel, amphibolites			
REMARKS			
CONSTRUCTION DETAILS			
DRILLED DEPTH 36.6 M	COMPL. DEPTH 36.6 M	FROM	TO
DRILLED DIAM. 200 MM	0	16.7	36.6
165	16.7		
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. MM	PLAN	PERFORATED	
CLASS	FROM TO	FROM TO	
200	0 16.7		
150	16.7 32.9		
SCREENING			
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO
GRAVEL PACK MM	FROM M	TO	M
WATER			
WATER STRUCK 20			MBG
STANDING WATER LEVEL -0.6			MBG
TEST YIELD M ³ /HR MAX	STEADY	3	
MAXIMUM DRAWD. M	DURATION TEST	3930	MIN
T (M ² /SEC)	r ² ws (M ²)		
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT			MBG
APPARENT QUALITY OF WATER			
WATER ANALYSIS	P	C	X B
WATER TEMPERATURE	°C	DATE, WRITTEN BY	28.5.81, F.M.

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REG. MB021 DISTR. MBIMBA U COFFEE RESEARCH STATION	BH NO. 49/55 CCKK NO.
COORDINATES: 9° 05.3'S; 32° 57.3'E ELEVATION: m.asl	MAP NO.
COMPLETION DATE: 23.1.55 DRILL. METHOD:	Q.D.S. 257
DRILLER/ORGANIZATION: DRILL UNIT NO.	
CLIENT: AGRICULTURAL DEPARTMENT	

DEPTH M	SYM- BOL	FORMATION BY	DESCRIPTION DATE
0 - 0.9	T	Top soil	
18.3	C	Alternating grey, black and light grey layers of clay	
59.4	P _w	Weathered granite	
61.6	P	Granite	

CONSTRUCTION DETAILS			
DRILLED DEPTH	61.5 M	COMPL. DEPTH	61.5 M
DRILLED DIAM.	MM	FROM	TO
	200	0	61.5
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM.	MM	PLAN	PERFORATED
		FROM	FROM
		TO	TO
SCREENING			
INTERNAL DIAM.	MM	SLOT SIZE	FROM TO
GRAVEL PACK	MM	FROM	M TO M
WATER			
WATER STRUCK			MBG
STANDING WATER LEVEL			MBG
TEST YIELD M ³ /HR	MAX	STEADY	MIN
MAXIMUM DRAWD.	M	DURATION TEST	MIN
T (M ² /SEC)		r ² wS (M ²)	
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT			MBG
APPARENT QUALITY OF WATER			
WATER ANALYSIS	P	C	B
WATER TEMPERATURE	°C	DATE, WRITTEN BY 28.5.81. F.M.	

REMARKS
Borehole abandoned as fine silt enters valve on pump test.

AQUIFER

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REG. CHUNYA DISTR. CHUNYA TOWNSHIP PUMP HOUSE		BH NO. 42/57 CCKK NO.	
COORDINATES: 8°30.8'S, 33°25.8'E		ELEVATION: 1465 m.asl	
COMPLETION DATE: 30.1.58		DRILL. METHOD:	
DRILLER/ORGANIZATION:		DRILL UNIT NO.	
CLIENT: PUBLIC WORKS DEPT.			
FORMATION DESCRIPTION		DATE	
BY			
SYM-BOL			
DEPTH M			
AQUIFER			
REMARKS			
DATE, WRITTEN BY 28.5.81, F.M			
CONSTRUCTION DETAILS			
DRILLED DEPTH 25.0 M	COMPL. DEPTH 25.0 M	FROM	TO
DRILLED DIAM. MM			
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. MM	PLAN	PERFORATED	
CLASS	FROM	FROM	TO
SCREENING			
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO
GRAVEL PACK MM	FROM	M	TO
WATER			
WATER STRUCK 6			MBG
STANDING WATER LEVEL 3 9.23			MBG
TEST YIELD M ³ /HR MAX	STEADY	10.9	
MAXIMUM DRAWD. M	DURATION TEST	1440	MIN
T (M ² /SEC)	r ² ws (M ²)		
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT MBG			
APPARENT QUALITY OF WATER			
WATER ANALYSIS	P	C	X B
WATER TEMPERATURE	°C	DATE, WRITTEN BY 28.5.81, F.M	

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REGION MBOZI DISTRICT TUNDUMA TOWN CUSTOMS POST						BH NO. 6158 CCKK NO.	
COORDINATES: 9°15.8'S; 32°45.2'E ELEVATION: m.asl						MAP NO.	
COMPLETION DATE: 5.4.58 DRILL. METHOD:						QDs 257	
DRILLER/ORGANIZATION:				DRILL UNIT NO.			
CLIENT: P. E. D.							
CONSTRUCTION DETAILS		COMPL. DEPTH 60.9 M FROM TO		DEPTH M 0 - 1.0 2.4 4.6 7.0 9.4 11.9 13 13.7 30.5 35.3 47.8 47.8-60.9		SYM-BOL C S C S C S Qw Qw Qw Qw Qw Q Q Qw	
DRILLED DEPTH 60.9 M DRILLED DIAM. 200 MM 165		42.6 60.9		1.0 2.4 4.6 7.0 9.4 11.9 13 13.7 30.5 35.3 47.8 47.8-60.9		DESCRIPTION Sand gray clay Buff coloured sand and clay with iron stained quartz pebbles and brown flakes of muscovite. Decomposed muscovite schist, weathering to iron stained clayey material Weathered quartz mica schist to muscovite -do- less weathered -do- but brown iron staining of mica visible Decomposed mica (quartz schist (soapy feel) -do- less mica Iron stained quartz band Fairly fresh quartz mica schist Muscovite less predominant Quartz mica schist, more weathered	
DETAILS OF CASING LEFT IN BOREHOLE							
INTERNAL DIAM. MM CLASS 150		PLAN FROM TO 44.8		PERFORATED FROM TO		REMARKS Slightly weathered mica schist well is productive	
SCREENING							
INTERNAL DIAM. MM		SLOT SIZE		FROM TO		AQUIFER	
GRAVEL PACK MM		FROM M TO M		WATER		WATER STRUCK 7 MBG	
WATER STRUCK		7 MBG		WATER		STANDING WATER LEVEL 1.5 MBG	
TEST YIELD M ³ /HR MAX		DURATION TEST 1900 MIN		STEADY 1.23		METHOD OF PUMPING	
MAXIMUM DRAWD. 55.1 M		r ² wS (M ²)		SUCTIION/AIR OUTLET SET AT MBG		APPARENT QUALITY OF WATER	
WATER ANALYSIS P		C X B		WATER TEMPERATURE °C		DATE, WRITTEN BY 28.5.81; F.M.	

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REGION KYELA DISTRICT KYELA TOWNSHIP Pump house		BH NO. 8/58 CCKK NO.	
COORDINATES: 9°36.2'S; 33°51.7'E ELEVATION: m.asl		MAP NO.	
COMPLETION DATE: 5.6.58 DRILL. METHOD:		Q.D.S. 272	
DRILLER/ORGANIZATION:		DRILL UNIT NO.	
CLIENT: NATIVE AUTHORITY			
FORMATION DESCRIPTION DATE		SYM-BOL	
0-3.0 7.1 10.7 21.9 27.7 36.7 42.7 76.2 93.9		Cs S S S S S S S Sc	
DEPTH M		AQUIFER Gravel	
REMARKS			
CONSTRUCTION DETAILS			
DRILLED DEPTH 93.9 M	COMPL. DEPTH 93.9 M	FROM TO	
DRILLED DIAM. 200 MM	0	39.6	
165	39.6	93.9	
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. MM	PLAN FROM TO	PERFORATED FROM TO	
CLASS 150	0 85.9	FROM TO	
SCREENING			
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO
GRAVEL PACK MM FROM M TO M			
WATER			
WATER STRUCK 70	MBG		MBG
STANDING WATER LEVEL 30	MBG		MBG
TEST YIELD M ³ /HR MAX	STEADY 8.2	DURATION TEST 2640 MIN	
MAXIMUM DRAWD. 1.8 M	T (M ² /SEC) r ² ws (M ²)		
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT		MBG	
APPARENT QUALITY OF WATER			
WATER ANALYSIS P	C	X	B
WATER TEMPERATURE °C	DATE, WRITTEN BY 28.5.81; F.M.		

BOREHOLE COMPLETION RECORD

LOCATION: MBEVA REG. KYELA DISTRICT, KYELA						BH NO. 13/58 CCKK NO.	
COORDINATES: 9°36.2'S; 33°51.7'E						ELEVATION: m.asl	
COMPLETION DATE: 17.6.58						DRILL. METHOD:	
DRILLER/ORGANIZATION:						DRILL UNIT NO.	
CLIENT: NATIVE AUTHORITY							
FORMATION BY		DESCRIPTION		DATE			
C		Light brown clay with volcanic material pebbles & sand					
G		Medium to coarse gravel with volcanic material					
S		Fine to coarse sand					
V		Volcanic material with gray and bluish sandy clay					
DEPTH M		SYM-BOL		FORMATION DESCRIPTION			
0-12.8		C		Light brown clay with volcanic material pebbles & sand			
14.6		G		Medium to coarse gravel with volcanic material			
16.2		S		Fine to coarse sand			
18.6		V		Volcanic material with gray and bluish sandy clay			
AQUIFER				Alluvium sand			
REMARKS							
CONSTRUCTION DETAILS							
DRILLED DEPTH 22.9 M		COMPL. DEPTH 22.9 M					
DRILLED DIAM. MM		FROM		TO			
200		0		13.7			
165		13.7		22.8			
DETAILS OF CASING LEFT IN BOREHOLE							
INTERNAL DIAM. MM		PLAN FROM		TO		PERFORATED FROM TO	
SCREENING							
INTERNAL DIAM. MM		SLOT SIZE		FROM		TO	
GRAVEL PACK MM		FROM		M		TO M	
WATER							
WATER STRUCK 10						MBG	
STANDING WATER LEVEL		6.1				MBG	
TEST YIELD M ³ /HR MAX				STEADY 11.4			
MAXIMUM DRAWD. M				DURATION TEST		MIN	
T (M ² /SEC)				r ² WS (M ²)			
METHOD OF PUMPING							
SUCTION/AIR OUTLET SET AT MBG							
APPARENT QUALITY OF WATER							
WATER ANALYSIS		P		C X		B	
WATER TEMPERATURE		°C		DATE, WRITTEN BY 28.8.81; F.M.			

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REGION, MBEYA DISTRICT, PANDA HILL						BH NO. 22/59 CCKK NO.	
COORDINATES: 8°59.5'S, 33°14.5'E						ELEVATION: m.asl	
COMPLETION DATE: 6.5.60						DRILL. METHOD:	
DRILLER/ORGANIZATION:						DRILL UNIT NO.	
CLIENT: MBEYA EXPLORATION COMPANY LIMITED							
CONSTRUCTION DETAILS		DEPTH M		SYM-BOL		FORMATION DESCRIPTION DATE	
DRILLED DEPTH 1100 M	COMPL. DEPTH 1100 M	0 - 157	C	Brown clay			
DRILLED DIAM. MM	FROM TO	76.2	V	Volcanic ash with boulders			
250	0 110.0	91.4	C	Brown clay			
DETAILS OF CASING LEFT IN BOREHOLE		93.0	Q	Quartzite			
INTERNAL DIAM. MM	PLAN FROM TO	103.6	Cs	Light grey, dark brown sandy clay			
CLASS	PERFORATED FROM TO	103.2	C	Brown clay			
		110.0	C	Brown & grey clay			
SCREENING							
INTERNAL DIAM. MM	SLOT SIZE FROM TO						
GRAVEL PACK MM	FROM M TO M						
WATER							
WATER STRUCK 71.9		AQUIFER Volcanic ash.					
STANDING WATER LEVEL 48.7							
TEST YIELD M ³ /HR MAX	STEADY 0.36						
MAXIMUM DRAWD. M	DURATION TEST 1320 MIN						
T (M ² /SEC)	r ² ws (M ²)						
METHOD OF PUMPING		REMARKS					
SUCTION/AIR OUTLET SET AT	MBG						
APPARENT QUALITY OF WATER							
WATER ANALYSIS P	C X B						
WATER TEMPERATURE °C	DATE, WRITTEN BY 26.5.84, r.m.						

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REGION, CHUNYA DIST. NTUMBI				BH NO. 6/66 CCKK NO.	
COORDINATES: appr. 8°22'S, 33°18.5'E ELEVATION: m.asl				MAP NO.	
COMPLETION DATE: 11.8.66 DRILL. METHOD:				O.D.S. 228	
DRILLER/ORGANIZATION:			DRILL UNIT NO.		
CLIENT: DISTRICT COUNCIL					
CONSTRUCTION DETAILS		DEPTH M		FORMATION DESCRIPTION DATE	
DRILLED DEPTH 52.4 M	COMPL. DEPTH 52.4 M	0 - 21.3	C	Clay weathered granite	
DRILLED DIAM. MM	FROM TO	21.3	Av		
		52.4	P		
DETAILS OF CASING LEFT IN BOREHOLE		AQUIFER		Weathered granite	
INTERNAL DIAM. CLASS	MM PLAN FROM TO	PERFORATED FROM TO		REMARKS	
				Borehole not found	
SCREENING					
INTERNAL DIAM. TYPE	MM	SLOT SIZE	FROM	TO	
GRAVEL PACK	MM	FROM	M	TO	M
WATER					
WATER STRUCK	23, 32, 47				
STANDING WATER LEVEL	17.1				
TEST YIELD M ³ /HR MAX	STEADY 7.1				
MAXIMUM DRAWD. 16.4 M	DURATION TEST	MIN			
T (M ² /SEC) 4 x 10 ⁻⁵	r ² wS (M ²)	0.011			
METHOD OF PUMPING					
SUCTION/AIR OUTLET SET AT		MBG			
APPARENT QUALITY OF WATER					
WATER ANALYSIS	P	C	B		
WATER TEMPERATURE	°C	DATE, WRITTEN BY 20.5.81; F.M.			

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REGION, CHUNYA DISTR. LUPATINGATINGA						BH NO. 7/66 CCKK NO.	
COORDINATES: 8°00.2'S; 33°16.2'E						ELEVATION: m.asl	
COMPLETION DATE: 30.9.66				DRILL. METHOD:		MAP NO. Q.D.S. 228	
DRILLER/ORGANIZATION:				DRILL UNIT NO.			
CLIENT:							
CONSTRUCTION DETAILS		DEPTH M		SYM-BOL		FORMATION DESCRIPTION DATE	
DRILLED DEPTH 41.5 M	COMPL. DEPTH 41.5 M	0 - 3.0	T	Brown argillaceous soil bearing coarse sand			
DRILLED DIAM. 250	FROM 0	4.6	C	Gray clay with quartz gravel			
200	25.9	25.9	Pw	Weathered granite			
150	35.3	41.5	Pw	Slightly weathered granite			
DETAILS OF CASING LEFT IN BOREHOLE							
INTERNAL DIAM. MM	PLAN FROM	PERFORATED FROM	TO				
CLASS	TO	TO	TO				
SCREENING							
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO				
TYPE							
GRAVEL PACK	MM	FROM	M	TO	M		
WATER							
WATER STRUCK	3, 17				MBG		
STANDING WATER LEVEL	3				MBG		
TEST YIELD M ³ /HR	MAX	STEADY	0.71				
MAXIMUM DRAWD.	M	DURATION TEST	MIN				
T (M ² /SEC)		I ² wS (M ²)					
METHOD OF PUMPING							
SUCTION/AIR OUTLET SET AT					MBG		
APPARENT QUALITY OF WATER							
WATER ANALYSIS	P	C	B				
WATER TEMPERATURE	°C	DATE, WRITTEN BY	28.5.81	F.M.			
AQUIFER		Gravel and weathered granite					
REMARKS							

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REGION, CHUNYA DISTR., NTUMBI MINE AT OLD MINING SITE, BEFORE ENTERING TO MILITARY CAMP										BH NO. 8/66 CCKK NO.																																																																																																																																																																																																																																																													
COORDINATES: 8°22'S; 33°18.5'E						ELEVATION: m.asl		MAP NO. Q.D.S. 228																																																																																																																																																																																																																																																															
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BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REGION: MBEYA DISTRICT, MBEYA CAMP EAST OF MBEYA AIRPOR ON HILL OVERLOOKING AIRPORT										BH NO. 15/69 CCKK NO.	
COORDINATES: 8° 55.3'S ; 33° 27.1'E								ELEVATION: 1742 m.asl		MAP NO. 0.D.S. 244	
COMPLETION DATE: 2.9.69					DRILL. METHOD:						
DRILLER/ORGANIZATION:						DRILL UNIT NO.					
CLIENT:											
DEPTH M			SYM- BOL		FORMATION BY			DESCRIPTION DATE			
0 - 5.5			✓		Gray whitish volcanic ash (pumice) Alternating layers of gray brown volcanic material						
82.0			✓		Gray whitish volcanic ash						
119.8			✓		Gray brown volcanic ash.						
125.9			✓								
AQUIFER											
VOLCANIC ASH											
REMARKS											
GOOD WATER											

CONSTRUCTION DETAILS											
DRILLED DEPTH		125.9 M		COMPL. DEPTH		125.9 M					
DRILLED DIAM.		MM		FROM		TO					
DETAILS OF CASING LEFT IN BOREHOLE											
INTERNAL DIAM.		MM		PLAN		PERFORATED					
CLASS		FROM		TO		FROM		TO			
150		0		98.7							
SCREENING											
INTERNAL DIAM.		MM		SLOT SIZE		FROM		TO			
GRAVEL PACK		MM		FROM		M		TO		M	
WATER											
WATER STRUCK		86								MBG	
STANDING WATER LEVEL		80								MBG	
TEST YIELD M ³ /HR MAX				STEADY		9.1					
MAXIMUM DRAWD.		M		DURATION TEST		1440 MIN					
T (M ² /SEC)				r ² ws (M ²)							
METHOD OF PUMPING											
PUMP											
SUCTION/AIR OUTLET SET AT		115.4		MBG							
APPARENT QUALITY OF WATER											
Good											
WATER ANALYSIS		P		C		B					
WATER TEMPERATURE		°C		DATE,		WRITTEN BY		28.5.81; F.M.			

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REGION CHUNYA DISTR. UDINDE VILL. SHALLOW WELL						BH NO. 2/71 CCKK NO.	
COORDINATES: 8°06.8'S, 32°37.3'E ELEVATION: m.asl						MAP NO. Q.D.S 227	
COMPLETION DATE:				DRILL. METHOD:			
DRILLER/ORGANIZATION:				DRILL UNIT NO.			
CLIENT:							
DEPTH M		SYM-BOL		FORMATION		DESCRIPTION DATE	
AQUIFER							
REMARKS							
CONSTRUCTION DETAILS							
DRILLED DEPTH	M	COMPL. DEPTH		M			
DRILLED DIAM.	MM	FROM	TO				
DETAILS OF CASING LEFT IN BOREHOLE							
INTERNAL DIAM.	MM	PLAN	PERFORATED				
CLASS		FROM	TO	FROM	TO		
SCREENING							
INTERNAL DIAM.	MM	SLOT SIZE		FROM	TO		
TYPE							
GRAVEL PACK	MM	FROM	M	TO	M		
WATER							
WATER STRUCK							
STANDING WATER LEVEL							
TEST YIELD	M ³ /HR	MAX	STEADY				
MAXIMUM DRAWD.	M	DURATION TEST		MIN			
T (M ² /SEC)		r ² ws (M ²)					
METHOD OF PUMPING							
SUCTION/AIR OUTLET SET AT							
APPARENT QUALITY OF WATER							
WATER ANALYSIS	P	C	X	B			
WATER TEMPERATURE	°C	DATE, WRITTEN BY					

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REGION, CHUNYA DISTR. UDINDE VILLAGE										BH NO. 17/71 CCKK NO.																																																																																																																				
COORDINATES: 8°06.2'S, 32°37.1'E						ELEVATION: m.asl		MAP NO.																																																																																																																						
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WATER TEMPERATURE		°C		DATE, WRITTEN BY 28.5.81, F.M.																																																																																																																										

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REGION, CHUANYA DISTR. MATUNDASI		BH NO. 241 CCKK NO.	
COORDINATES: 8° 27.0'S, 33° 16.1'E		ELEVATION: m.asl	MAP NO.
COMPLETION DATE:		DRILL. METHOD:	Q.D. 228
DRILLER/ORGANIZATION: MATI		DRILL UNIT NO.	
CLIENT: R.W.E			
CONSTRUCTION DETAILS DRILLED DEPTH 153 M DRILLED DIAM. MM COMPL. DEPTH 153 M FROM TO DETAILS OF CASING LEFT IN BOREHOLE INTERNAL DIAM. MM PLAN PERFORATED FROM TO FROM TO CLASS 200 0 18.9 SCREENING INTERNAL DIAM. MM SLOT SIZE FROM TO TYPE GRAVEL PACK MM FROM M TO M WATER WATER STRUCK MBG STANDING WATER LEVEL MBG TEST YIELD M ³ /HR MAX 12.6 STEADY 3.4 MAXIMUM DRAWD. 19 M DURATION TEST MIN T (M ² /SEC) 7.4 x 10 ⁻⁶ r ² ws (M ²) / 0.14 METHOD OF PUMPING AIR LIFT SUCTION/AIR OUTLET SET AT 91.4 MBG APPARENT QUALITY OF WATER WATER ANALYSIS P X C B WATER TEMPERATURE °C DATE, WRITTEN BY 28.5.81 ; F.M.		DEPTH M 0-0.9 0.9-15 15-70 70-92 92-99 99-153 SYM-BOL C S G P Q R P FORMATION DESCRIPTION DATE Clay, sand Gravel Granitic rock, quartz, hornblende Feldspar, quartz Basic intrusion Granite with calcareous intrusion AQUIFER Fractured granite REMARKS	

BOREHOLE COMPLETION RECORD

LOCATION: MBESA REC. CHUNYA DISTR. KAMBIKATOTO VILLAGE						BH NO. 31/71 CCKK NO.																																																																																					
COORDINATES: 7° 14' S, 33° 30' E				ELEVATION: 1360 m.asl		MAP NO.																																																																																					
COMPLETION DATE: 15.10.71				DRILL. METHOD:		Q05. 142																																																																																					
DRILLER/ORGANIZATION:				DRILL UNIT NO.																																																																																							
CLIENT:																																																																																											
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<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="4">CONSTRUCTION DETAILS</th> </tr> <tr> <td>DRILLED DEPTH</td> <td>97 M</td> <td>COMPL. DEPTH</td> <td>97 M</td> </tr> <tr> <td>DRILLED DIAM.</td> <td>MM</td> <td>FROM</td> <td>TO</td> </tr> <tr> <td colspan="4">DETAILS OF CASING LEFT IN BOREHOLE</td> </tr> <tr> <td>INTERNAL DIAM.</td> <td>MM</td> <td>PLAN</td> <td>PERFORATED</td> </tr> <tr> <td>CLASS</td> <td></td> <td>FROM</td> <td>TO</td> </tr> <tr> <td colspan="4">SCREENING</td> </tr> <tr> <td>INTERNAL DIAM.</td> <td>MM</td> <td>SLOT SIZE</td> <td>FROM TO</td> </tr> <tr> <td colspan="4">GRAVEL PACK</td> </tr> <tr> <td></td> <td>MM</td> <td>FROM</td> <td>M TO M</td> </tr> <tr> <td colspan="4">WATER</td> </tr> <tr> <td colspan="4">WATER STRUCK</td> </tr> <tr> <td colspan="4">STANDING WATER LEVEL</td> </tr> <tr> <td>TEST YIELD</td> <td>M³/HR</td> <td>MAX</td> <td>STEADY</td> </tr> <tr> <td>MAXIMUM DRAWD.</td> <td>M</td> <td>DURATION TEST</td> <td>MIN</td> </tr> <tr> <td>T(N²/SEC)</td> <td></td> <td>r² vs S (M²)</td> <td></td> </tr> <tr> <td colspan="4">METHOD OF PUMPING</td> </tr> <tr> <td colspan="4">SUCTION/AIR OUTLET SET AT</td> </tr> <tr> <td colspan="4">APPARENT QUALITY OF WATER</td> </tr> <tr> <td>WATER ANALYSIS</td> <td>P</td> <td>C</td> <td>X B</td> </tr> <tr> <td>WATER TEMPERATURE</td> <td>°C</td> <td colspan="2">DATE, WRITTEN BY 25.5.81, C.M.</td> </tr> </table>								CONSTRUCTION DETAILS				DRILLED DEPTH	97 M	COMPL. DEPTH	97 M	DRILLED DIAM.	MM	FROM	TO	DETAILS OF CASING LEFT IN BOREHOLE				INTERNAL DIAM.	MM	PLAN	PERFORATED	CLASS		FROM	TO	SCREENING				INTERNAL DIAM.	MM	SLOT SIZE	FROM TO	GRAVEL PACK					MM	FROM	M TO M	WATER				WATER STRUCK				STANDING WATER LEVEL				TEST YIELD	M ³ /HR	MAX	STEADY	MAXIMUM DRAWD.	M	DURATION TEST	MIN	T(N ² /SEC)		r ² vs S (M ²)		METHOD OF PUMPING				SUCTION/AIR OUTLET SET AT				APPARENT QUALITY OF WATER				WATER ANALYSIS	P	C	X B	WATER TEMPERATURE	°C	DATE, WRITTEN BY 25.5.81, C.M.	
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AQUIFER				REMARKS																																																																																							

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REG. CHUNYA DISTR. KAMBIKATOTO VILLAGE MOKILEM CONSTRUCTION CDM. LTD						BH NO. 118/71 CCKK NO.	
COORDINATES: 7°14'S, 33°30'E ELEVATION: 1360 m.asl						MAP NO.	
COMPLETION DATE: 4.1.72 DRILL. METHOD:						Q.D.S. 192	
DRILLER/ORGANIZATION:				DRILL UNIT NO.			
CLIENT:							
CONSTRUCTION DETAILS		DEPTH M		SYM-BOL		FORMATION DESCRIPTION DATE	
DRILLED DEPTH 76.2 M	COMPL. DEPTH 76.2 M	0 - 1.5	S	Medium to coarse yellowish sand			
DRILLED DIAM. MM	FROM TO	4.6	S	gravel and ferrogous Medium to coarse sand quartz fragm.			
DETAILS OF CASING LEFT IN BOREHOLE		20.7	S	and feldspar Medium to coarse whitish sand			
INTERNAL DIAM. MM	PLAN FROM TO	13.7	Pw	with quartz Weathered granite with biotite			
CLASS	PERFORATED FROM TO	15.2	Q	Quartz and feldspar fragments			
		16.7	Pw	Weathered granite with a small amount of biotite			
		29.0	P	Greiss			
		36.5	P	Granite			
		76.2	X	No samples			
SCREENING		AQUIFER		Sand, quartz & feldspar			
INTERNAL DIAM. MM	SLOT SIZE FROM TO						
GRAVEL PACK MM	FROM M TO M						
WATER							
WATER STRUCK	9	MBG					
STANDING WATER LEVEL	6.1	MBG					
TEST YIELD M ³ /HR MAX	13.6	STEADY TEST	1.36				
MAXIMUM DRAWD. 41.1 M	DURATION TEST	1380 MIN					
T(M ² /SEC) 3.5 x 10 ⁻⁶	r _w ² (M ²)	0.0084					
METHOD OF PUMPING							
SUCTION/AIR OUTLET SET AT		MBG					
APPARENT QUALITY OF WATER							
WATER ANALYSIS	P	C	X	B			
WATER TEMPERATURE	°C	DATE, WRITTEN BY 28.5.81; F.M.					

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REGION, RUNGWE DISTR. KIWIRA HYDRO PROJECT						BH NO. 120/72 CCKK NO.	
COORDINATES:				ELEVATION: m.asl		MAP NO.	
COMPLETION DATE:				DRILL. METHOD:		Q.D.S. 259	
DRILLER/ORGANIZATION: MAJ				DRILL UNIT NO.			
CLIENT:							
DEPTH M		SYM- BOL		FORMATION BY		DESCRIPTION DATE	
CONSTRUCTION DETAILS							
DRILLED DEPTH	8 M	COMPL. DEPTH		8	M		
DRILLED DIAM.	MM	FROM	TO				
DETAILS OF CASING LEFT IN BOREHOLE							
INTERNAL DIAM.	MM	PLAN	PERFORATED				
CLASS		FROM	TO	FROM	TO		
SCREENING							
INTERNAL DIAM.	MM	SLOT SIZE		FROM	TO		
GRAVEL PACK							
WATER		MM	FROM	M	TO	M	
WATER STRUCK							
STANDING WATER LEVEL							
TEST YIELD M ³ /HR		MAX	STEADY				
MAXIMUM DRAWD.	M	DURATION TEST		MIN			
T (M ² /SEC)	r ² ws (M ²)						
METHOD OF PUMPING							
SUCTION/AIR OUTLET SET AT							
APPARENT QUALITY OF WATER							
WATER ANALYSIS		P	C	B			
WATER TEMPERATURE		°C		DATE, WRITTEN BY 28.5.51: P.M			

AQUIFER

REMARKS

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REG., RUMUWE DIST. KIWIRA HYDRO PROJECT						BH NO. 120/72A CCKK NO.	
COORDINATES:				ELEVATION: m.asl		MAP NO.	
COMPLETION DATE:				DRILL. METHOD:		Q.D.s. 259	
DRILLER/ORGANIZATION:				DRILL UNIT NO.			
CLIENT:							
CONSTRUCTION DETAILS		DEPTH M		SYM-BOL		FORMATION DESCRIPTION DATE	
DRILLED DEPTH 26 M	COMPL. DEPTH 26 M						
DRILLED DIAM. MM	FROM TO						
DETAILS OF CASING LEFT IN BOREHOLE							
INTERNAL DIAM. MM	PLAN	PERFORATED					
CLASS	FROM TO	FROM TO					
SCREENING							
INTERNAL DIAM. MM	SLOT SIZE	FROM TO					
TYPE							
GRAVEL PACK MM	FROM M TO M						
WATER							
WATER STRUCK MBG							
STANDING WATER LEVEL MBG							
TEST YIELD M ³ /HR	MAX	STEADY					
MAXIMUM DRAWD. M	DURATION TEST	MIN					
T (M ² /SEC)	r ² _w S (M ²)						
METHOD OF PUMPING							
SUCTION/AIR OUTLET SET AT MBG							
APPARENT QUALITY OF WATER							
WATER ANALYSIS	P	C	B				
WATER TEMPERATURE °C	DATE, WRITTEN BY 28.5.81; F.M.						
AQUIFER		REMARKS					

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REGION, RUNGWE DISTR; KIKWIRA HYDRO PROJECT		BH NO. 120/72B CCKK NO.	
COORDINATES:		ELEVATION: m.asl	MAP NO.
COMPLETION DATE:		DRILL. METHOD:	QDS. 259
DRILLER/ORGANIZATION:		DRILL UNIT NO.	
CLIENT:			
DEPTH M	SYM- BOL	FORMATION BY	DESCRIPTION DATE
AQUIFER			
REMARKS			
CONSTRUCTION DETAILS			
DRILLED DEPTH 16 M	COMPL. DEPTH 16 M	FROM	TO
DRILLED DIAM. MM			
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. MM	PLAN	PERFORATED	
CLASS	FROM TO	FROM TO	
SCREENING			
INTERNAL DIAM. MM	SLOT SIZE	FROM TO	
TYPE			
GRAVEL PACK	MM FROM	M TO	M
WATER			
WATER STRUCK			MBG
STANDING WATER LEVEL			MBG
TEST YIELD M ³ /HR	MAX	STEADY	
MAXIMUM DRAWD. M	DURATION TEST	MIN	
T (M ² /SEC)	T _{WS} (M ²)		
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT			MBG
APPARENT QUALITY OF WATER			
WATER ANALYSIS	P	C	B
WATER TEMPERATURE	°C	DATE, WRITTEN BY	28.5.81 / F.M

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REGION, RUNGWE DISTR. KIWIRA HYDRO PROJECT						BH NO. 120/72C CCKK NO.	
COORDINATES:				ELEVATION: m.asl		MAP NO.	
COMPLETION DATE:				DRILL. METHOD:		Q.D.S. 250	
DRILLER/ORGANIZATION:				DRILL UNIT NO.			
CLIENT:							
CONSTRUCTION DETAILS		DEPTH M		SYM-BOL		FORMATION DESCRIPTION DATE	
DRILLED DEPTH 22.0 M	COMPL. DEPTH 22.0 M	FROM	TO				
DRILLED DIAM. MM							
DETAILS OF CASING LEFT IN BOREHOLE							
INTERNAL DIAM. MM	PLAN	PERFORATED					
CLASS	FROM	TO	FROM	TO			
SCREENING							
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO				
TYPE							
GRAVEL PACK MM	FROM	M	TO	M			
WATER							
WATER STRUCK					MBG		
STANDING WATER LEVEL					MBG		
TEST YIELD M ³ /HR	MAX			STEADY			
MAXIMUM DRAWD. M				DURATION TEST	MIN		
T (M ² /SEC)				r ² _w S (M ²)			
METHOD OF PUMPING							
SUCTION/AIR OUTLET SET AT					MBG		
APPARENT QUALITY OF WATER							
WATER ANALYSIS	P	C	B				
WATER TEMPERATURE	°C			DATE, WRITTEN BY	28.5.81	F.M.	
				REMARKS			
				AQUIFER			

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REGION, RUNGWE DISTR. KIWIRA HYDRO PROJECT		BH NO. 126/72 D CCKK NO.	
COORDINATES:		ELEVATION: m.asl	MAP NO. Q.D.S 259
COMPLETION DATE:		DRILL. METHOD:	
DRILLER/ORGANIZATION:		DRILL UNIT NO.	
CLIENT:			
CONSTRUCTION DETAILS		DEPTH M	FORMATION DESCRIPTION DATE
DRILLED DEPTH 19.0 M	COMPL. DEPTH 19.0 M		
DRILLED DIAM. MM	FROM TO		
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. MM	PLAN FROM TO		
CLASS	PERFORATED FROM TO		
SCREENING			
INTERNAL DIAM. MM	SLOT SIZE FROM TO		
GRAVEL PACK MM	FROM M TO M		
WATER			
WATER STRUCK			
STANDING WATER LEVEL			
TEST YIELD M ³ /HR MAX	STEADY		
MAXIMUM DRAWD. M	DURATION TEST MIN		
T (M ² /SEC)	r ² ws (M ²)		
METHOD OF PUMPING		AQUIFER	
SUCTION/AIR OUTLET SET AT		REMARKS	
APPARENT QUALITY OF WATER			
WATER ANALYSIS P	C		
WATER TEMPERATURE °C	DATE, WRITTEN BY		

28.5.81, F.M.

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REGION, RUKIGWE DIST. KIWIRA HYDRO PROJECT						BH NO. 120/72 E CCKK NO.		
COORDINATES:				ELEVATION: m.asl		MAP NO.		
COMPLETION DATE:				DRILL. METHOD:		G.D.S. 259		
DRILLER/ORGANIZATION:				DRILL UNIT NO.				
CLIENT:								
CONSTRUCTION DETAILS		DEPTH M		SYM-BOL		FORMATION DESCRIPTION		
DRILLED DEPTH 15 M	COMPL. DEPTH 15 M							
DRILLED DIAM. MM	FROM TO							
DETAILS OF CASING LEFT IN BOREHOLE								
INTERNAL DIAM. MM	PLAN FROM TO	PERFORATED FROM TO						
CLASS								
SCREENING								
INTERNAL DIAM. MM	SLOT SIZE FROM TO							
TYPE								
GRAVEL PACK MM	FROM M	TO M						
WATER								
WATER STRUCK								
STANDING WATER LEVEL								
TEST YIELD M ³ /HR	MAX	STEADY						
MAXIMUM DRAWD. M	DURATION TEST		MIN					
T (M ² /SEC)	r ² ws (M ²)							
METHOD OF PUMPING								
SUCTION/AIR OUTLET SET AT								
APPARENT QUALITY OF WATER								
WATER ANALYSIS		P	C	B				
WATER TEMPERATURE		°C		DATE, WRITTEN BY		28.5.81, F.M.		
REMARKS								

BOREHOLE COMPLETION RECORD

LOCATION: MBeya REGION; Rungwe District, Kiwira										BH NO. 120/72F CCKK NO.	
COORDINATES:					ELEVATION: m.asl			MAP NO..			
COMPLETION DATE:					DRILL. METHOD:			G.D.S 259			
DRILLER/ORGANIZATION:							DRILL UNIT NO.				
CLIENT:											
FORMATION DESCRIPTION DATE											
SYM-BOL											
DEPTH M											
AQUIFER											
REMARKS											
CONSTRUCTION DETAILS											
DRILLED DEPTH M		COMPL. DEPTH M									
DRILLED DIAM. MM		FROM TO									
DETAILS OF CASING LEFT IN BOREHOLE											
INTERNAL DIAM. MM		PLAN FROM TO		PERFORATED FROM TO							
SCREENING											
INTERNAL DIAM. MM		SLOT SIZE		FROM TO							
GRAVEL PACK MM		FROM M TO M									
WATER											
WATER STRUCK MBG											
STANDING WATER LEVEL MBG											
TEST YIELD M ³ /HR MAX		STEADY									
MAXIMUM DRAWD. M		DURATION TEST		MIN							
T (M ² /SEC)		r ² ws (M ²)									
METHOD OF PUMPING											
SUCTION/AIR OUTLET SET AT MBG											
APPARENT QUALITY OF WATER											
WATER ANALYSIS P		C		B							
WATER TEMPERATURE °C		DATE, WRITTEN BY 28.5.81, F.M									

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REGION, CHUNYA DISTRICT; MAFYEKO						BH NO. 153/77 CCKK NO.	
COORDINATES: 7°22.7' S; 33°29.6' E ELEVATION: m.asl						MAP NO.	
COMPLETION DATE: 19.8.77 DRILL. METHOD:						Q.D.S. 192	
DRILLER/ORGANIZATION: MAJI				DRILL UNIT NO.			
CLIENT: R.W.E.							
CONSTRUCTION DETAILS		COMPL. DEPTH		DEPTH		SYMBOL	
DRILLED DEPTH	92.9 M	FROM	92.9 M	0 - 1.5	S	Sand	
DRILLED DIAM.	MM	TO	9.1	3.0	C	clay	
	310			9.1	Rw	Weathered rock	
	200		50.2	41.1	Q	Quartzite mica	
	165		92.9	57.9	V	Dolerite	
DETAILS OF CASING LEFT IN BOREHOLE		PLAN		PERFORATED		DESCRIPTION	
INTERNAL DIAM.	MM	FROM	TO	FROM	TO	DATE	
CLASS	250	-0.45	8.1				
STEEL							
SCREENING							
INTERNAL DIAM.	MM	SLOT SIZE		FROM	TO		
TYPE							
GRAVEL PACK	MM	FROM	M	TO	M		
WATER							
WATER STRUCK	58					AQUIFER	
STANDING WATER LEVEL	4.6					Jointed granite	
TEST YIELD M ³ /HR	MAX	STEADY					
MAXIMUM DRAWD.	M	DURATION TEST					
T (M ² /SEC)		r ² ws (M ²)					
METHOD OF PUMPING							
SUCTION/AIR OUTLET SET AT		MBG					
APPARENT QUALITY OF WATER							
WATER ANALYSIS	P	C	B				
WATER TEMPERATURE	°C	DATE, WRITTEN BY		28.5.81; F.M.			
REMARKS: No test							

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REGION CHUNYA DISTR. MAKONGOLDSI		BH NO. 173/77 CCKK NO.	
COORDINATES: 8°26'S; 33°10'E		ELEVATION: m.asl	MAP NO. Q.D.S. 228
COMPLETION DATE: 19.9.77		DRILL. METHOD:	
DRILLER/ORGANIZATION: MAJI		DRILL UNIT NO.	
CLIENT: R.W.E.			
DEPTH M	SYM-BOL	FORMATION DESCRIPTION	DATE
0-1.5	C	Clay	
6.1	R	Soft rock	
7.6	Rw	Weathered rock	
13.7	P	Granite	
51.8	CC	Calcite	
76.2	P	Granite	
119.9	CC	Calcite	
123.4	V	Dolerite	
AQUIFER Jointed granite			
REMARKS 100mm rising main dropped in the borehole from 123.4m BG to 70m BG			
CONSTRUCTION DETAILS			
DRILLED DEPTH 123.4 M	COMPL. DEPTH 123.4 M		
DRILLED DIAM. MM	FROM TO		
310	0 6.1		
200	6.1 51.8		
165	51.8 123.4		
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. MM	PLAN FROM TO	PERFORATED FROM TO	
CLASS			
STEEL 250	-0.3 6.2		
SCREENING			
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO
GRAVEL PACK MM	FROM M	TO M	
WATER			
WATER STRUCK 8, 52, 104			MBG
STANDING WATER LEVEL 3.5			MBG
TEST YIELD M ³ /HR MAX 33.4	STEADY 1.4		
MAXIMUM DRAWD. 33.4 M	DURATION TEST 300 MIN		
T (M ² /SEC) 3.2 x 10 ⁻⁶	r ² WS (M ²) 0.002		
METHOD OF PUMPING AIR LIFT			
SUCTION/AIR OUTLET SET AT 91.8			MBG
APPARENT QUALITY OF WATER			
WATER ANALYSIS P	C	B	
WATER TEMPERATURE	°C	DATE, WRITTEN BY 28.5.81; F.M.	

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REG. CHUNYA DISTR. MAKONGOLOSI VILLAGE		BH NO. 194/77 CCKK NO.	
COORDINATES: 8°25'S, 33°40'		ELEVATION: m.asl	
COMPLETION DATE: 28.9.77		DRILL. METHOD:	
DRILLER/ORGANIZATION: MAJI		DRILL UNIT NO.	
CLIENT: R.W.E.			
<p>CONSTRUCTION DETAILS</p> <p>DRILLED DEPTH 138.6 M COMPL. DEPTH 138.6 M</p> <p>DRILLED DIAM. MM FROM TO</p> <p>316 0 6.1</p> <p>200 6.1 70.0</p> <p>165 70.0 138.6</p> <p>DETAILS OF CASING LEFT IN BOREHOLE</p> <p>INTERNAL DIAM. MM PLAN PERFORATED</p> <p>CLASS FROM TO FROM TO</p> <p>STEEL 250 -0.6 5.5</p> <p>SCREENING</p> <p>INTERNAL DIAM. MM SLOT SIZE FROM TO</p> <p>GRAVEL PACK MM FROM M TO M</p> <p>WATER</p> <p>WATER STRUCK 15.2, 94.4, 127.9 MBG</p> <p>STANDING WATER LEVEL 6.6 MBG</p> <p>TEST YIELD M³/HR MAX 52.5 STEADY 1.11</p> <p>MAXIMUM DRAWD. 50.6 M DURATION TEST 720 MIN</p> <p>T (M²/SEC) 2.7 x 10⁻⁶ r² WS (M²) 0.0014</p> <p>METHOD OF PUMPING AIR LIFT</p> <p>SUCTION/AIR OUTLET SET AT 109.6 MBG</p> <p>APPARENT QUALITY OF WATER</p> <p>WATER ANALYSIS P C X B</p> <p>WATER TEMPERATURE °C DATE, WRITTEN BY 28.5.81, F.M.</p>		<p>DEPTH M</p> <p>0-1.5</p> <p>6.1</p> <p>137</p> <p>54</p> <p>76.2</p> <p>132.0</p> <p>138.6</p> <p>SYM-BOL</p> <p>C</p> <p>Pw</p> <p>V</p> <p>X</p> <p>P</p> <p>CC</p> <p>V</p> <p>FORMATION DESCRIPTION DATE</p> <p>Clay</p> <p>Weathered granite</p> <p>Broken dolerite</p> <p>No data</p> <p>Granite</p> <p>Calcite</p> <p>Dolerite</p> <p>AQUIFER</p> <p>Fractured granite</p> <p>REMARKS</p>	

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REG. CHUNYA DISTR. N. MBANGALA VILLAGE						BH NO. 195/77 CCKK NO.	
COORDINATES: 8°21.7' S. 32°54.1' E				ELEVATION: m.asl		MAP NO.	
COMPLETION DATE: 25.10.77				DRILL. METHOD:		Q.D.S.227	
DRILLER/ORGANIZATION: MAJI				DRILL UNIT NO.			
CLIENT: R.W.E							
CONSTRUCTION DETAILS		DEPTH M		SYM-BOL		FORMATION DESCRIPTION DATE	
DRILLED DEPTH 99.1 M	COMPL. DEPTH 99.1 M	0 - 1.5	T	Soil and gravel			
DRILLED DIAM. 310	FROM 0 TO 9.1	3.1	G	Gravel			
200	9.1	9.1	Pw	Weathered friable granite			
165	54.8	21.3	Q	Quartzite			
DETAILS OF CASING LEFT IN BOREHOLE		22.9	Pw	Weathered granite			
INTERNAL DIAM. MM	PLAN FROM TO	21.4	Q	Quartzite			
CLASS	PERFORATED FROM TO	44.2	CC	Calcite			
220	-0.6 11.0	45.7	Pw	Weathered granite			
		99.1	CC	Calcite, granite			
SCREENING		AQUIFER					
INTERNAL DIAM. MM	SLOT SIZE FROM TO	Jointed granite					
		REMARKS					
GRAVEL PACK MM	FROM M TO M	AQUIFER					
WATER		Jointed granite					
WATER STRUCK 44-45		REMARKS					
STANDING WATER LEVEL 6.6		AQUIFER					
TEST YIELD M ³ /HR MAX 72.6	STEADY 5.4	Jointed granite					
MAXIMUM DRAWD. 47.6 M	DURATION TEST 595 MIN	REMARKS					
T (M ² /SEC) 4.8 x 10 ⁶	r ² WS (M ²) 0.0049	AQUIFER					
METHOD OF PUMPING AIR LIFT		REMARKS					
SUCTION/AIR OUTLET SET AT 191.0	MBG	AQUIFER					
APPARENT QUALITY OF WATER		REMARKS					
WATER ANALYSIS P	C X B	AQUIFER					
WATER TEMPERATURE °C	DATE, WRITTEN BY 28.5.81; F.M.	AQUIFER					

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REC. CHUNYA DISTR. MAPOGOLLO VILL.		BH NO. 209/77 CCKK NO.	
COORDINATES: 8°25.8'S; 33°26.8'E		ELEVATION: m.asl	MAP NO.
COMPLETION DATE: 9.11.77		DRILL. METHOD:	
DRILLER/ORGANIZATION: MAJI		DRILL UNIT NO.	
CLIENT: R.W.E.			
CONSTRUCTION DETAILS		DEPTH M	SYMBOL
DRILLED DEPTH 123.3 M	COMPL. DEPTH 123.3 M	0. - 1.5	C
DRILLED DIAM. MM	FROM TO	3.0	G
310	0 9.1	9.1	Rw
220	9.1 56.3	123.3	Rw
165	56.3 123.3		
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. MM	PLAN FROM TO		
CLASS	PERFORATED FROM TO		
STEEL 220	-0.6 11.0		
SCREENING			
INTERNAL DIAM. MM	SLOT SIZE FROM TO		
GRAVEL PACK MM	FROM M TO M		
WATER			
WATER STRUCK 23-24	28-50		MBG
STANDING WATER LEVEL 13.42			MBG
TEST YIELD M ³ /HR MAX 36.8	STEADY TEST 10.5		
MAXIMUM DRAWD. 38.4 M	DURATION TEST 720 MIN		
T (M ² /SEC) 1.4 x 10 ⁻⁵	r ² ws (M ²) 0.0049		
METHOD OF PUMPING AIR LIFT			
SUCTION/AIR OUTLET SET AT 109.6			MBG
APPARENT QUALITY OF WATER			
WATER ANALYSIS P	C X B		
WATER TEMPERATURE °C	DATE, WRITTEN BY 28.5.81, F.M.		
FORMATION DESCRIPTION		REMARKS	
BY	DATE		
Black clay		AQUIFER	
Gravel		Weathered granite	
Weathered granite			
Granite slightly weathered			

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REGION CHUNYA DISTR. KIWANJA					BH NO. 222/77 CCKK NO.	
COORDINATES: 8°32.8'S; 33°26.1'E					ELEVATION: m.asl	
COMPLETION DATE: 16.11.77					DRILL. METHOD:	
DRILLER/ORGANIZATION: MAJI					DRILL UNIT NO.	
CLIENT: R.W.E						
CONSTRUCTION DETAILS		FORMATION DESCRIPTION DATE				
DRILLED DEPTH	76.2 M	COMPL. DEPTH	76.2 M	BY		
DRILLED DIAM.	MM	FROM	TO	Clay		
	200	0	76.2	Weathered granite		
				Fresh granite		
DETAILS OF CASING LEFT IN BOREHOLE						
INTERNAL DIAM.	MM	PLAN	PERFORATED	SYMBOL		
CLASS		FROM	FROM	DEPTH		
		TO	TO	M		
				0-30		
				54.9		
				76.2		
SCREENING						
INTERNAL DIAM.	MM	SLOT SIZE	FROM	REMARKS		
TYPE			TO	Dry borehole		
				AQUIFER		
				Granite		
GRAVEL PACK	MM	FROM	M	TEST YIELD M ³ /HR MAX		
WATER			TO	STEADY		
				DURATION TEST		
				MIN		
				T (M ² /SEC)		
				r ² ws (M ²)		
METHOD OF PUMPING						
SUCTION/AIR OUTLET SET AT MBG						
APPARENT QUALITY OF WATER						
WATER ANALYSIS		P	C	B		
WATER TEMPERATURE		°C	DATE, WRITTEN BY	28.5.81; F.M.		

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REC. CHUNYA DISTR. CHUNYA TOWNSHIP CHUNYA WATER SUPPLY		BH NO. 223/77 CCKK NO.																																																																																																																	
COORDINATES: 8°30.8'S; 33°25.8'E		ELEVATION: 1467 m.asl																																																																																																																	
COMPLETION DATE: 23.11.77		DRILL. METHOD:																																																																																																																	
DRILLER/ORGANIZATION: MAJI		DRILL UNIT NO.																																																																																																																	
CLIENT: R.W.E																																																																																																																			
DEPTH M		SYMBOL																																																																																																																	
0-1.5		C																																																																																																																	
2.4		Pw																																																																																																																	
30.5		Pj																																																																																																																	
FORMATION BY		DESCRIPTION DATE																																																																																																																	
Clay		Weathered granite																																																																																																																	
Weathered granite		Fractured granite																																																																																																																	
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WATER TEMPERATURE	°C	DATE, WRITTEN BY	23.5.81; F.M.																																																																																																																
REMARKS																																																																																																																			
AQUIFER Weathered granite																																																																																																																			

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REGION, CHUNYA DIST. KIWANJA				BH' NO. 224/77 CCKK NO.	
COORDINATES: 8° 32.4'S, 33° 25.5'E			ELEVATION: m.asl		MAP NO.
COMPLETION DATE: 11.12.77			DRILL. METHOD: ROTARY, DRY		Q.D.S. 224
DRILLER/ORGANIZATION: MAJI			DRILL UNIT NO. RIG N° 38		
CLIENT: R.W.E					
CONSTRUCTION DETAILS		DEPTH M		SYMBOL	
DRILLED DEPTH 152.3 M	COMPL. DEPTH 152.3 M	0 - 6.1		Rw	
DRILLED DIAM. 310	FROM 0 TO 3.5	30.0		P	
200	3.5 51.8	105.0		P	
150	51.8 152.3	115.7		Pw	
DETAILS OF CASING LEFT IN BOREHOLE		134.0		Pw	
INTERNAL DIAM. MM	PLAN FROM TO	140.1		Pw	
CLASS	250 0 3.5	152.3		Pf	
SCREENING					
INTERNAL DIAM. MM	SLOT SIZE	FROM TO		FORMATION DESCRIPTION DATE	
				Soft rock	
				Medium hard granite	
				Granite	
				Soft rock, weathered granite	
				Lightly weathered granite	
				Weathered granite	
				Hard granite, fresh.	
GRAVEL PACK		MM FROM M TO M		AQUIFER	
WATER				Jointed granite	
WATER STRUCK 106.5				REMARKS	
STANDING WATER LEVEL					
TEST YIELD M ³ /HR MAX	39.5	STEADY	0.66		
MAXIMUM DRAWD. 113.9 M	DURATION TEST	MIN			
T (M ² /SEC)	r ² _{ws} (M ²)				
METHOD OF PUMPING		AIR LIFT			
SUCTION/AIR OUTLET SET AT		MBG			
APPARENT QUALITY OF WATER		GOOD			
WATER ANALYSIS	P	C	B		
WATER TEMPERATURE	°C	DATE, WRITTEN BY 28.5.84; F.M.			

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REGION, CHUNYA DIST. SANGAPI APP. 600M. EAST OF ROAD FROM SENYELA TO SENGAMBI		BH NO. 247/77 CCKK NO.	
COORDINATES: 8°31.8'S, 33°37.1'E		ELEVATION: m.asl	
COMPLETION DATE: 22.12.77		DRILL. METHOD:	
DRILLER/ORGANIZATION: MAJI		DRILL UNIT NO.	
CLIENT: R.W.E			
CONSTRUCTION DETAILS		FORMATION DESCRIPTION BY DATE	
DRILLED DEPTH 421.9 M	COMPL. DEPTH 121.9 M	0-12.2 76.2 121.9	Pw Pw Pf
DRILLED DIAM. 310 MM	FROM TO 0 11.7		
200	11.7 73.7		
165	73.7 106.5		
150	106.5 121.9		
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. MM	PLAN FROM TO	PERFORATED FROM TO	
CLASS 200	0 12.2		
SCREENING			
INTERNAL DIAM. MM	SLOT SIZE	FROM TO	
GRAVEL PACK MM FROM M TO M			
WATER			
WATER STRUCK 12.2, 95.9, 109.6			MBG
STANDING WATER LEVEL 2.6			MBG
TEST YIELD M ³ /HR MAX 73.5	STEADY 9.2		
MAXIMUM DRAWD. 55.9 M	DURATION TEST 1440 MIN		
T (M ² /SEC)	I ² WS (M ²)		
METHOD OF PUMPING AIR LIFT		REMARKS	
SUCTION/AIR OUTLET SET AT 109.6		Weathered granite	
APPARENT QUALITY OF WATER		Geotechnics performed	
WATER ANALYSIS P	C	B	
WATER TEMPERATURE °C	DATE, WRITTEN BY 28.5.01; F.M.		

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REGION, KYELA DIST. KYELA TOWNSHIP						BH NO. 258/77 CCKK NO.	
COORDINATES: 9°36.2'S, 33°51.7'E ELEVATION: m.asl						MAP NO.	
COMPLETION DATE: 0 DRILL. METHOD:						Q.O.S. 272	
DRILLER/ORGANIZATION: MAJI				DRILL UNIT NO.			
CLIENT: R.W.E							
DEPTH M		SYM-BOL		FORMATION DESCRIPTION		DATE	
0-7.6 24.4		S S		Sand Fine sand			
AQUIFER Sand							
REMARKS							
CONSTRUCTION DETAILS							
DRILLED DEPTH M	MM	COMPL. DEPTH M	MM	FROM	TO	FROM	TO
DETAILS OF CASING LEFT IN BOREHOLE							
INTERNAL DIAM. MM	PLAN	PERFORATED	FROM	TO	FROM	TO	
SCREENING							
INTERNAL DIAM. MM	SLOT SIZE		FROM	TO	FROM	TO	
GRAVEL PACK MM	FROM	M	TO	M	TO	M	
WATER							
WATER STRUCK	MBG						
STANDING WATER LEVEL	MBG						
TEST YIELD M ³ /HR MAX	STEADY						
MAXIMUM DRAWD. M	DURATION TEST		MIN				
T (M ² /SEC)	r ² _{ws} (M ²)						
METHOD OF PUMPING							
SUCTION/AIR OUTLET SET AT MBG							
APPARENT QUALITY OF WATER							
WATER ANALYSIS		P	C	B			
WATER TEMPERATURE		°C	DATE, WRITTEN BY		28.5.91; F.M		

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REGION, KYELA DISTRICT, KYELA						BH NO. 11/78 CCKK NO.	
COORDINATES: 9°36.2'S; 33°51.8'E						ELEVATION: m.asl	
COMPLETION DATE: 16.2.78						DRILL. METHOD:	
DRILLER/ORGANIZATION: MAJI						DRILL UNIT NO.	
CLIENT: R.W.E							
CONSTRUCTION DETAILS		DEPTH M		SYM-BOL		FORMATION DESCRIPTION DATE	
DRILLED DEPTH	91.4 M	COMPL. DEPTH	91.4 M	0 - 1.5	S	Sand	
DRILLED DIAM.	MM	FROM	TO	6.1	S _c	Sand with clay	
	380	0	51.8	13.7	S	Sand	
	310	51.8	91.4	36.6	S _c	Gravel with sand and clay, black	
DETAILS OF CASING LEFT IN BOREHOLE				91.4	S	Fine sand	
INTERNAL DIAM.	MM	PLAN	PERFORATED				
CLASS		FROM	TO	FROM	TO		
STEEL	170	-1.5	37.2				
SCREENING							
INTERNAL DIAM.	MM	SLOT SIZE		FROM	TO		
TYPE				40.7	50.6		
	170						
GRAVEL PACK 10-20 MM		FROM	M	TO	M		
WATER							
WATER STRUCK		19.8			MBG		
STANDING WATER LEVEL		18.3			MBG		
TEST YIELD M ³ /HR	MAX	76.5	STEADY	61.5			
MAXIMUM DRAWD.	-5.6 M	DURATION TEST		1980 MIN			
T (M ² /SEC)		T ² WS (M ²)					
METHOD OF PUMPING		AIR LIFT					
SUCTION/AIR OUTLET SET AT		85-3			MBG		
APPARENT QUALITY OF WATER							
WATER ANALYSIS		P	C	B			
WATER TEMPERATURE		°C	DATE, WRITTEN BY		28.5.81; F.M.		

AQUIFER
Gravel

REMARKS
Water level rises during pumping.
Test unreliable

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REC. KYELA DISTR. IPYANA				BH NO. 23/78 CCKK NO.	
COORDINATES: 9°37.3'S, 33°52.7'E ELEVATION: m.asl				MAP NO.	
COMPLETION DATE: 16.3.78 DRILL. METHOD: AIR				Q.D.S. 272	
DRILLER/ORGANIZATION: MAJI				DRILL UNIT NO. RIG 38	
CLIENT: R.W.E.					
CONSTRUCTION DETAILS		DEPTH M		FORMATION DESCRIPTION DATE	
DRILLED DEPTH 91.4 M	COMPL. DEPTH 91.4 M	0 - 1.5	S	Sand	
DRILLED DIAM. 380	FROM 0 TO 4.6	6.1	C	Clay	
310	4.6 91.4	12.2	Cs	Clay with sand	
		18.3	S	Sand with gravel	
DETAILS OF CASING LEFT IN BOREHOLE		24.4	S	Sand	
INTERNAL DIAM. MM	PLAN FROM TO PERFORATED FROM TO	42.7	G	Gravel	
CLASS	FROM TO	48.8	S	Sand	
355	0 5.2	54.9	G	Gravel with sand	
220	5.2 60.9	91.4	S	Fine sand with shells	
SCREENING					
INTERNAL DIAM. MM	SLOT SIZE FROM TO				
TYPE		60.9			
		91.4			
GRAVEL PACK 10 MM	FROM M TO M				
WATER					
WATER STRUCK					
STANDING WATER LEVEL					
TEST YIELD M ³ /HR MAX	STEADY				
MAXIMUM DRAWD. M	DURATION TEST MIN				
T (M ² /SEC)	r ² ws (M ²)				
METHOD OF PUMPING					
SUCTION/AIR OUTLET SET AT					
APPARENT QUALITY OF WATER					
WATER ANALYSIS P	C	B			
WATER TEMPERATURE °C	DATE, WRITTEN BY 28.5.81; C.M.				
AQUIFER		Gravel		REMARKS	
				Dry borehole	

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REGION, MBOZI DISTRICT, TUNDUMA						BH NO. 61/78 CCKK NO.	
COORDINATES: 9°15.8'S, 32°45.4'E ELEVATION: m.asl						MAP NO.	
COMPLETION DATE: 16.6.78 DRILL. METHOD: AIR						O.D.S. 257	
DRILLER/ORGANIZATION: MAJI				DRILL UNIT NO. RIG No 38			
CLIENT: R.W.E							
FORMATION BY		DESCRIPTION DATE					
T		Black top soil					
C		Brown clay					
Sc		Clayey sand					
Ysc		Alternating layers of some gravel and clay					
DEPTH M	SYM-BOL	AQUIFER					
0-1.5	T	Sand and gravel					
6.0	C						
13.7	Sc						
91.4	Ysc						
REMARKS							
CONSTRUCTION DETAILS							
DRILLED DEPTH 91.4 M	COMPL. DEPTH 91.4 M						
DRILLED DIAM. 300 MM	FROM 0	TO 22.5					
200	22.5	74.6					
165	74.6	91.4					
DETAILS OF CASING LEFT IN BOREHOLE							
INTERNAL DIAM. MM	PLAN	PERFORATED					
CLASS	FROM TO	FROM TO					
150	-0.91 47.2						
SCREENING							
INTERNAL DIAM. 5 MM	SLOT SIZE	FROM	TO				
CALVANIZED 150		47.2	74.6				
GRAVEL PACK MM	FROM M	TO M					
WATER							
WATER STRUCK	21.3	MBG					
STANDING WATER LEVEL	1.8	MBG					
TEST YIELD M ³ /HR MAX	61.3	STEADY	35.1				
MAXIMUM DRAWD. M	DURATION TEST		1440 MIN				
T (M ² /SEC)	r ² ws (M ²)						
METHOD OF PUMPING AIR LIFT							
SUCTION/AIR OUTLET SET AT		85.3	MBG				
APPARENT QUALITY OF WATER GOOD							
WATER ANALYSIS	P	C	B				
WATER TEMPERATURE	°C	DATE, WRITTEN BY		28.6.81	F.M.		

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REGION, MBEYA DISTRICT IYUNGA SOAP FACTORY		BH NO. 79/78 CCKK NO.	
COORDINATES: 8° 55.7'S; 33° 23.4'E		ELEVATION: m.asl	
COMPLETION DATE: 14.8.78		DRILL. METHOD: AIR	
DRILLER/ORGANIZATION:		DRILL UNIT NO. RIC. No 38	
CLIENT:			
DEPTH M 0 - 9.1 57.9 161.5		SYM-BOL Ycs Rw Pf	
FORMATION DESCRIPTION BY Alternating layers of clay and Sand Weathered granite Granite		REMARKS Dry well	
AQUIFER			
REMARKS			
DATE, WRITTEN BY 28.5.81; F.M.			
CONSTRUCTION DETAILS			
DRILLED DEPTH 161.5 M	COMPL. DEPTH 161.5 M	TO	
DRILLED DIAM. MM	FROM	TO	FROM
300	0	9.1	
200	9.1	137.0	
165	137.0	161.5	
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. MM	PLAN	PERFORATED	
	FROM TO	FROM TO	
SCREENING			
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO
GRAVEL PACK MM	FROM M	TO M	
WATER			
WATER STRUCK MBG			
STANDING WATER LEVEL MBG			
TEST YIELD M ³ /HR MAX	STEADY		
MAXIMUM DRAWD. M	DURATION TEST	MIN	
T (M ² /SEC)	r ² ws (M ²)		
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT MBG			
APPARENT QUALITY OF WATER			
WATER ANALYSIS P	C	B	
WATER TEMPERATURE °C	DATE, WRITTEN BY		

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REG. CHUNYA DISTR. MAGAMBA VILLAGE				BH NO. 161/78 CCKK NO.	
COORDINATES: 8°33'S, 32°57'E ELEVATION: m.asl				MAP NO.	
COMPLETION DATE: 19.11.78 DRILL. METHOD:				Q.D.S. 243	
DRILLER/ORGANIZATION: MAJI			DRILL UNIT NO.		
CLIENT: R.W.E.					
FORMATION DESCRIPTION DATE		SYM-BOL T Yci Top soil? Alternating layers of clay, silt and gravel.			
DEPTH M		0-15 15-68.6 AQUIFER Sand and gravel			
CONSTRUCTION DETAILS DRILLED DEPTH 68.6 M COMPL. DEPTH 68.6 M DRILLED DIAM. MM FROM TO 52 68.6 310 5.2 DETAILS OF CASING LEFT IN BOREHOLE INTERNAL DIAM. MM PLAN PERFORATED CLASS FROM TO FROM TO 170 -1.8 22.5 SCREENING INTERNAL DIAM. MM SLOT SIZE FROM TO TYPE 170 22.5 45.7 GRAVEL PACK 5 MM FROM M TO M WATER WATER STRUCK 15.2, 25.9 45.7 MBG STANDING WATER LEVEL 9.1 MBG TEST YIELD M ³ /HR MAX 20.9 STEADY TEST 12.0 MAXIMUM DRAWD. 13.7 M DURATION TEST 440 MIN T (M ² /SEC) r ² ws (M ²) METHOD OF PUMPING Air Lift SUCTION/AIR OUTLET SET AT 60.9 MBG APPARENT QUALITY OF WATER GOOD WATER ANALYSIS P C B WATER TEMPERATURE °C DATE, WRITTEN BY 28.6.81; F.M.					
REMARKS		The area forms the Songwe Trough covered with lacustrine fine sand sediments.			

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REGION, MBOZI DISTRICT, MKUTANO VILL.						BH NO. 182/78 CCKK NO.	
COORDINATES: 8°42'0"S, 32°10'2"E						ELEVATION: m.asl	
COMPLETION DATE:						DRILL. METHOD:	
DRILLER/ORGANIZATION: MAJI						DRILL UNIT NO.	
CLIENT: R.W.E.							
CONSTRUCTION DETAILS		DEPTH M		FORMATION DESCRIPTION		DATE	
DRILLED DEPTH M	COMPL. DEPTH M	FROM	TO				
DRILLED DIAM. MM							
DETAILS OF CASING LEFT IN BOREHOLE							
INTERNAL DIAM. MM	PLAN	PERFORATED					
CLASS	FROM	TO	FROM	TO			
SCREENING							
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO				
GRAVEL PACK MM	FROM	M	TO	M			
WATER							
WATER STRUCK					MBG		
STANDING WATER LEVEL					MBG		
TEST YIELD M ³ /HR	MAX	STEADY					
MAXIMUM DRAWD. M	DURATION TEST	MIN					
T (M ² /SEC)	r ² ws (M ²)						
METHOD OF PUMPING							
SUCTION/AIR OUTLET SET AT					MBG		
APPARENT QUALITY OF WATER							
WATER ANALYSIS	P	C	B				
WATER TEMPERATURE	°C	DATE, WRITTEN BY	28.5.81	F.M.			
AQUIFER				REMARKS			
				See borehole 182/78			

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REGION, MBOZI DIST. MKUTANO VILLAGE		BH NO. 182/78 CCKK NO.	
COORDINATES: 8°42'3"S, 32°10.5'E		ELEVATION: m.asl	MAP NO.
COMPLETION DATE: 27.11.79		DRILL. METHOD: AIR	G.O.S 242
DRILLER/ORGANIZATION: MAJI		DRILL UNIT NO. RIC. No 38	
CLIENT: R.W.E.			
FORMATION DESCRIPTION BY DATE		SYM-BOL	
0-12.2		CS	
15.2		Pw	
45.2		Pw	
50.3		Pw	
77.7		Pw	
82.3		Pw	
91.4		Pw	
DEPTH M		AQUIFER	
Weathered gneiss		REMARKS	
CONSTRUCTION DETAILS			
DRILLED DEPTH 91.4 M	COMPL. DEPTH 91.4 M		
DRILLED DIAM. 355 MM	FROM 0 TO 15.2		
200	15.2 63.9		
165	63.9 91.4		
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. MM	PLAN FROM TO	PERFORATED FROM TO	
CLASS PLAIN 250	-0.9 14.3		
SCREENING			
INTERNAL DIAM. MM	SLOT SIZE	FROM TO	
GRAVEL PACK MM FROM M TO M			
WATER			
WATER STRUCK 38.1,	85.3	MBG	
STANDING WATER LEVEL	10.7	MBG	
TEST YIELD M ³ /HR MAX	2.54	STEADY	0.80
MAXIMUM DRAWD. 42.7 M	DURATION TEST MIN		
T (M ² /SEC) 4.7 x 10 ⁻⁶	r ² ws (M ²)		
METHOD OF PUMPING AIR LIFT			
SUCTION/AIR OUTLET SET AT	67.0	MBG	
APPARENT QUALITY OF WATER			
WATER ANALYSIS	P	C	X B
WATER TEMPERATURE	°C	DATE, WRITTEN BY 28.5.81; F.M.	

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REGION, RUNGWE DISTR. KYEJO		BH NO. 64/79 CCKK NO.	
COORDINATES: 9°13' S, 33°47.5' E		ELEVATION: 7135 m.asl	
COMPLETION DATE: 7.11.79		DRILL. METHOD:	
DRILLER/ORGANIZATION: MAJI		DRILL UNIT NO.	
CLIENT: N.D.C. CO ₂ EXPL. PROJECT			
FORMATION DESCRIPTION BY		SYMBOL	
Ash beds and soil cover		V	
Ash beds		V	
Decayed quartz and old volcanic rocks		V	
Pumice with sand		V	
DEPTH M		AQUIFER	
0-13.7		REMARKS	
25.0		CO ₂ well	
64.0			
161.4			
CONSTRUCTION DETAILS			
DRILLED DEPTH	161.4 M	COMPL. DEPTH	161.4 M
DRILLED DIAM.	MM	FROM	TO
250	0	12.2	
170	12.2	24.4	
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM.	MM	PLAN	PERFORATED
CLASS		FROM	FROM
170	0	24.4	TO
SCREENING			
INTERNAL DIAM.	MM	SLOT SIZE	FROM
			TO
GRAVEL PACK	MM	FROM	M
			TO
WATER			M
WATER STRUCK	26.2		MBG
STANDING WATER LEVEL	12.2		MBG
TEST YIELD M ³ /HR	MAX	STEADY	
MAXIMUM DRAWD.	M	DURATION TEST	MIN
T (M ² /SEC)		r ² WS (M ²)	
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT			MBG
APPARENT QUALITY OF WATER			
WATER ANALYSIS	P	C	X
			B
WATER TEMPERATURE	°C	DATE, WRITTEN BY 28.5.81, F.M	

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REC. MBOTI DISTR. NZOKA VILLAGE		BH NO. 21/79 CCKK NO.																																																																																																																					
COORDINATES: 8°46'S; 32°11.4'E		ELEVATION: m.asl	MAP NO.																																																																																																																				
COMPLETION DATE: 17.12.79		DRILL. METHOD:																																																																																																																					
DRILLER/ORGANIZATION: MAJI		DRILL UNIT NO.																																																																																																																					
CLIENT: R.W.E.																																																																																																																							
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BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REG. RUNGWE DISTR. KYEJO						BH NO. 126/79 CCKK NO.	
COORDINATES: 9°13'S, 33°47.5'E						ELEVATION: 7125 m.asl	
COMPLETION DATE: 16.11.79						DRILL. METHOD:	
DRILLER/ORGANIZATION: MAJI						DRILL UNIT NO.	
CLIENT: N.D.C. CO ₂ EXPL. PROJECT							
CONSTRUCTION DETAILS		DEPTH M		SYMBOL		FORMATION DESCRIPTION DATE	
DRILLED DEPTH 96.8 M	COMPL. DEPTH 96.8 M	0 - 61	T	Soil cover			
DRILLED DIAM. 280 MM	FROM 0	137	V	Lunice and ash beds			
250	12.2	96.8	V	Basaltic rock			
165	34.1						
DETAILS OF CASING LEFT IN BOREHOLE							
INTERNAL DIAM. MM	PLAN FROM	PERFORATED FROM	TO				
CLASS	250	0	10.7				
	170	10.7	29.8				
SCREENING							
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO				
GRAVEL PACK	MM	FROM	M	TO	M		
WATER							
WATER STRUCK	45.7, 76.2, 91.4			MBG			
STANDING WATER LEVEL					MBG		
TEST YIELD M ³ /HR MAX					STEADY		
MAXIMUM DRAWD. M					DURATION TEST MIN		
T (M ² /SEC)					r ² ws (M ²)		
METHOD OF PUMPING							
SUCTION/AIR OUTLET SET AT					MBG		
APPARENT QUALITY OF WATER							
WATER ANALYSIS	P	C	B				
WATER TEMPERATURE	°C			DATE, WRITTEN BY 28.5.84, F.M.			
AQUIFER		REMARKS					
		CO ₂ well					

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REGION, RUKWEE DISTR. KYEJO		BH NO. 133/79 CCKK NO.	
COORDINATES: 9°13'S; 33°47.5'E		ELEVATION: 7135 m.asl	
COMPLETION DATE: 14/1/80		DRILL. METHOD:	
DRILLER/ORGANIZATION:		DRILL UNIT NO.	
CLIENT:			
CONSTRUCTION DETAILS		DEPTH M	SYMBOL
DRILLED DEPTH 32.0 M	COMPL. DEPTH 32.0 M	0-3.0	C/S
DRILLED DIAM. 310 MM	FROM 0 TO 6.1	12.2	V
DRILLED DIAM. 250 MM	FROM 6.1 TO 25.8	16.7	V
		32.0	V
DETAILS OF CASING LEFT IN BOREHOLE		FORMATION DESCRIPTION DATE	
INTERNAL DIAM. 250 MM	PLAN FROM TO PERFORATED FROM TO	Sandy clay	
CLASS Plastic	FROM 0 TO 6.1	Ash beds	
P.V.C.	FROM 6.1 TO 12.2	Volcanic rock	
		Pumice with ash beds	
SCREENING			
INTERNAL DIAM. 150 MM	SLOT SIZE FROM TO		
TYPE JOHNSON	FROM 12.2 TO 19.7		
GRAVEL PACK 150 MM	FROM M TO M		
WATER			
WATER STRUCK			
STANDING WATER LEVEL			
TEST YIELD M ³ /HR MAX	STEADY		
MAXIMUM DRAWD. M	DURATION TEST MIN		
T (M ² /SEC)	r ² w/s (M ²)		
METHOD OF PUMPING		AQUIFER	
SUCTION/AIR OUTLET SET AT		REMARKS	
APPARENT QUALITY OF WATER		CO ₂ well	
WATER ANALYSIS P C B			
WATER TEMPERATURE °C	DATE, WRITTEN BY 28.5.81; F.M		

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REGION, RUNGWE DISTRICT, KYEJO						BH NO. 11/80 CCKK NO.	
COORDINATES: 9°13'S; 33°47.5'E						ELEVATION: 7135 m.asl	
COMPLETION DATE: 17.11.80						DRILL. METHOD: AIR	
DRILLER/ORGANIZATION: MAJ						DRILL UNIT NO. RIG N° 38	
CLIENT: N.D.C. CO ₂ EXPL.CO.							
CONSTRUCTION DETAILS		DEPTH M		SYM-BOL		FORMATION DESCRIPTION DATE	
DRILLED DEPTH 32.0 M	COMPL. DEPTH 32.0 M	0 - 3.0	SC	Sand and clay			
DRILLED DIAM. MM	FROM TO	42.2	✓	Ash beds			
750	0 6.1	167	✓	Basaltic rock			
250	6.1 9.1	32.0	✓	Pumice with ash beds			
200	9.1 23.4						
DETAILS OF CASING LEFT IN BOREHOLE							
INTERNAL DIAM. MM	PLAN FROM TO	PERFORATED FROM TO					
CLASS							
SCREENING							
INTERNAL DIAM. MM	SLOT SIZE FROM TO						
TYPE							
GRAVEL PACK MM	FROM M TO M						
WATER							
WATER STRUCK		MBG					
STANDING WATER LEVEL		MBG					
TEST YIELD M ³ /HR MAX	STEADY						
MAXIMUM DRAWD. M	DURATION TEST MIN						
T (M ² /SEC)	r ² ws (M ²)						
METHOD OF PUMPING							
SUCTION/AIR OUTLET SET AT MBG							
APPARENT QUALITY OF WATER							
WATER ANALYSIS P	C	B					
WATER TEMPERATURE °C	DATE, WRITTEN BY 29.5.81; F.M.						
AQUIFER		REMARKS Gas well					

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REGION, RUKWE DISTR. KYEJO						BH NO. 13/80 CCKK NO.	
COORDINATES: 9°13'S, 31°47.5'E						ELEVATION: 7135 m.asl	
COMPLETION DATE: 4.2.80				DRILL. METHOD: AIR		MAP NO. Q.O.S.259	
DRILLER/ORGANIZATION: MAJI				DRILL UNIT NO. RIC No 38			
CLIENT: N.O.C. CO ₂ EXPL. CO.							
CONSTRUCTION DETAILS		DEPTH M		SYM-BOL		FORMATION DESCRIPTION DATE	
DRILLED DEPTH 32.0 M	COMPL. DEPTH 32.0 M	0 - 3.0		SC	Sand and clay		
DRILLED DIAM. MM	FROM TO	12.2		V	Ash beds		
310	0 4.6	16.7		V	Basaltic rock		
250	4.6 12.2	32.0		V	Pumice with ash beds		
140	12.2 32.0						
DETAILS OF CASING LEFT IN BOREHOLE							
INTERNAL DIAM. MM	PLAN	PERFORATED					
CLASS	FROM TO	FROM	TO				
250	0 4.6						
150	4.6 12.2						
GALVAN/150	12.2 32.0						
SCREENING							
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO				
GRAVEL PACK MM FROM M TO M							
WATER							
WATER STRUCK MBG							
STANDING WATER LEVEL MBG							
TEST YIELD M ³ /HR MAX	DURATION TEST	STEADY					
MAXIMUM DRAWD. M	T (M ² /SEC)	r ² ws (M ²)					
METHOD OF PUMPING							
SUCTION/AIR OUTLET SET AT MBG							
APPARENT QUALITY OF WATER							
WATER ANALYSIS	P	C	B				
WATER TEMPERATURE °C		DATE, WRITTEN BY 29.5.81; F.M.					
AQUIFER				REMARKS			
				Gas well			

BOREHOLE COMPLETION RECORD

LOCATION: MBeya REGION, MBOZI DISTRICT, SENJELE VILL.						BH NO. 57/80 CCKK NO.	
COORDINATES: 8° 57.4'S, 33° 11.3'E						ELEVATION: 1460 m.asl	
COMPLETION DATE: 19.5.80				DRILL. METHOD: AIR		MAP NO. Q.D.S. 244	
DRILLER/ORGANIZATION: MAJI				DRILL UNIT NO. RIG. NO. 38			
CLIENT: R.W.E.							
FORMATION DESCRIPTION BY DATE		SYMBOL		DEPTH M		REMARKS	
Alternation of silt and volcanic tuff and ash, & fine sand		Yiv		0 - 70.0		dry borewell	
AQUIFER							
REMARKS							
dry borewell							
DATE, WRITTEN BY 29.5.81; F.M							

CONSTRUCTION DETAILS					
DRILLED DEPTH 70.0 M	COMPL. DEPTH 70.0 M	TO			
DRILLED DIAM. MM	FROM	FROM	TO		
310	0	12.2	12.2		
200	12.2	70.0	70.0		
DETAILS OF CASING LEFT IN BOREHOLE					
INTERNAL DIAM. CLASS	MM	PLAN		PERFORATED	
		FROM	TO	FROM	TO
SCREENING					
INTERNAL DIAM. TYPE	MM	SLOT SIZE		FROM	TO
GRAVEL PACK	MM	FROM	M	TO	M
WATER					
WATER STRUCK					MBG
STANDING WATER LEVEL					MBG
TEST YIELD M ³ /HR	MAX	STEADY			
MAXIMUM DRAWD. M	DURATION TEST	MIN			
T (M ² /SEC)	r ² ws (M ²)				
METHOD OF PUMPING					
SUCTION/AIR OUTLET SET AT MBG					
APPARENT QUALITY OF WATER					
WATER ANALYSIS	P	C	B		
WATER TEMPERATURE	°C				

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REGION, MB021 DISTRICT, SENJELE VILLAGE				BH NO. 68/80 CCKK NO.	
COORDINATES: 8°57.6'S; 33°11'E ELEVATION: 1470 m.asl				MAP NO.	
COMPLETION DATE: 6.6.80 DRILL. METHOD: AIR				Q.D.S. 244	
DRILLER/ORGANIZATION: MASI			DRILL UNIT NO. RIG No 38		
CLIENT: R.W.E.					
FORMATION DESCRIPTION		DATE			
BY					
Sandy clay					
Red silt and brown sand					
Brown medium sandy silt					
Greyish sand and silt					
Silt & brown volcanic material					
DEPTH M	SYM-BOL				
0 - 3.0	Cs				
4.6	IS				
25.4	IS				
68.5	IS				
85.3	IV				
AQUIFER					
REMARKS		Dry borehole			

CONSTRUCTION DETAILS					
DRILLED DEPTH 85.3 M	COMPL. DEPTH 85.3 M				
DRILLED DIAM. MM	FROM	TO			
203	0	85.3			
DETAILS OF CASING LEFT IN BOREHOLE					
INTERNAL DIAM. MM	PLAN FROM	TO	PERFORATED FROM	TO	
SCREENING					
INTERNAL DIAM. MM	SLOT SIZE		FROM	TO	
GRAVEL PACK MM	FROM	M	TO	M	
WATER					
WATER STRUCK					
STANDING WATER LEVEL					
TEST YIELD M ³ /HR	MAX	STEADY			
MAXIMUM DRAWD. M	DURATION TEST		MIN		
T (M ² /SEC)	r ² ws (M ²)				
METHOD OF PUMPING					
SUCTION/AIR OUTLET SET AT	MBG				
APPARENT QUALITY OF WATER					
WATER ANALYSIS	P	C	B		
WATER TEMPERATURE	°C	DATE, WRITTEN BY		29.5.81; F.M.	

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REC. MBOZI DISTRICT MBOZI MISSION		BH NO. 83/80 CCKK NO.	
COORDINATES: 9°2' S, 32°55.9'E ELEVATION: 1553 m.asl		MAP NO.	
COMPLETION DATE: 10.6.80 DRILL. METHOD: AIR		Q.D.S. 257	
DRILLER/ORGANIZATION: MAJI		DRILL UNIT NO. RIC No 38	
CLIENT: R.W.E.			
FORMATION DESCRIPTION BY DATE		SYM-BOL	
0.-21.3 Sand with clay		Sc	
25.3 Highly weathered gneiss		Aw	
55.3 Silty sand and weathered gneiss		Aw	
64.0 Highly weathered gneiss		Aw	
79.2 Silty sand & weathered rock		Aw	
91.4 Clayey sand		Sc	
DEPTH M		REMARKS	
0.-21.3		AQUIFER	
25.3		Dry borehole, Weathered gneiss	
55.3			
64.0			
79.2			
91.4			
CONSTRUCTION DETAILS			
DRILLED DEPTH M	COMPL. DEPTH M		
DRILLED DIAM. MM	FROM TO		
310	0 6.1		
250	6.1 12.2		
200	12.2 91.4		
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. MM	PLAN FROM TO	PERFORATED FROM TO	
CLASS			
SCREENING			
INTERNAL DIAM. MM	SLOT SIZE	FROM TO	
TYPE			
GRAVEL PACK MM	FROM M TO M		
WATER			
WATER STRUCK	24.4	MBG	
STANDING WATER LEVEL		MBG	
TEST YIELD M ³ /HR MAX	STEADY		
MAXIMUM DRAWD. M	DURATION TEST	MIN	
T (M ² /SEC)	r ² wS (M ²)		
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT	MBG		
APPARENT QUALITY OF WATER			
WATER ANALYSIS P	C	B	
WATER TEMPERATURE °C	DATE, WRITTEN BY 2.5.81: F.M.		

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REGION, MBOZI DISTRICT, RUNGWA VILL.		BH NO. 85/80 CCKK NO.																																																																													
COORDINATES: appx 8° 52.3'S; 32° 59.4' E		ELEVATION: m.asl	MAP NO.																																																																												
COMPLETION DATE: 23.5.80		DRILL. METHOD: AIR	Q.O.S. 243																																																																												
DRILLER/ORGANIZATION: MAFI		DRILL UNIT NO. RIG No 38																																																																													
CLIENT: R.W.E.																																																																															
FORMATION DESCRIPTION BY F.M.		DEPTH M	SYM-BOL																																																																												
Light gray clay		0-3.1	C																																																																												
Light grayish-brown clay		7.6	C																																																																												
Grayish green clay		12.2	C																																																																												
Weathered gneiss		19.8	Pw																																																																												
Fresh gneiss, fractured		38.1	Pf																																																																												
Fresh gneiss		59.4	Pf																																																																												
AQUIFER		weathered gneiss																																																																													
REMARKS		Abandoned borehole																																																																													
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="4">CONSTRUCTION DETAILS</th> </tr> <tr> <td>DRILLED DEPTH</td> <td>59.4 M</td> <td>COMPL. DEPTH</td> <td>59.4 M</td> </tr> <tr> <td>DRILLED DIAM.</td> <td>MM</td> <td>FROM</td> <td>TO</td> </tr> <tr> <td colspan="4">DETAILS OF CASING LEFT IN BOREHOLE</td> </tr> <tr> <td>INTERNAL DIAM. CLASS</td> <td>MM</td> <td>PLAN FROM</td> <td>PERFORATED TO</td> </tr> <tr> <td colspan="4">SCREENING</td> </tr> <tr> <td>INTERNAL DIAM. TYPE</td> <td>MM</td> <td>SLOT SIZE</td> <td>FROM TO</td> </tr> <tr> <td>GRAVEL PACK</td> <td>MM</td> <td>FROM M</td> <td>TO M</td> </tr> <tr> <td colspan="4">WATER</td> </tr> <tr> <td>WATER STRUCK</td> <td>22.9</td> <td colspan="2">MBG</td> </tr> <tr> <td>STANDING WATER LEVEL</td> <td>4.2</td> <td colspan="2">MBG</td> </tr> <tr> <td>TEST YIELD M³/HR</td> <td>MAX</td> <td>STEADY</td> <td>1.5</td> </tr> <tr> <td>MAXIMUM DRAWD. dry</td> <td>M</td> <td>DURATION TEST</td> <td>MIN</td> </tr> <tr> <td>T (M²/SEC)</td> <td></td> <td>r²ws (M²)</td> <td></td> </tr> <tr> <td colspan="4">METHOD OF PUMPING</td> </tr> <tr> <td>SUCTION/AIR OUTLET SET AT</td> <td></td> <td colspan="2">MBG</td> </tr> <tr> <td colspan="4">APPARENT QUALITY OF WATER</td> </tr> <tr> <td>WATER ANALYSIS</td> <td>P</td> <td>C</td> <td>B</td> </tr> <tr> <td>WATER TEMPERATURE</td> <td>°C</td> <td colspan="2">DATE, WRITTEN BY 29.5.81; F.M.</td> </tr> </table>				CONSTRUCTION DETAILS				DRILLED DEPTH	59.4 M	COMPL. DEPTH	59.4 M	DRILLED DIAM.	MM	FROM	TO	DETAILS OF CASING LEFT IN BOREHOLE				INTERNAL DIAM. CLASS	MM	PLAN FROM	PERFORATED TO	SCREENING				INTERNAL DIAM. TYPE	MM	SLOT SIZE	FROM TO	GRAVEL PACK	MM	FROM M	TO M	WATER				WATER STRUCK	22.9	MBG		STANDING WATER LEVEL	4.2	MBG		TEST YIELD M ³ /HR	MAX	STEADY	1.5	MAXIMUM DRAWD. dry	M	DURATION TEST	MIN	T (M ² /SEC)		r ² ws (M ²)		METHOD OF PUMPING				SUCTION/AIR OUTLET SET AT		MBG		APPARENT QUALITY OF WATER				WATER ANALYSIS	P	C	B	WATER TEMPERATURE	°C	DATE, WRITTEN BY 29.5.81; F.M.	
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WATER TEMPERATURE	°C	DATE, WRITTEN BY 29.5.81; F.M.																																																																													

BOREHOLE COMPLETION RECORD

LOCATION: <i>Mbeya Reg., Mbozi District, Nkhargamo</i>		BH NO. <i>113/80</i> CCKK NO. <i>ms 1</i>	
COORDINATES: <i>9° 7.0'S, 32° 21.7'E</i>		ELEVATION: <i>m. asl</i>	MAP NO.
COMPLETION DATE: <i>27.9.1980</i>		DRILL. METHOD: <i>Auger</i>	<i>QDS 242</i>
DRILLER/ORGANIZATION:		DRILL UNIT NO.	
CLIENT:			
FORMATION BY	DESCRIPTION DATE	SYMBOL	DEPTH M
	<i>Reddish brown lateritic soil, the top formation with mica.</i>	<i>T1</i>	<i>3,0</i>
	<i>Greyish brown wet clay with quite weathered amphibolitic schist (mica).</i>	<i>SHw</i>	<i>6,1</i>
	<i>Silvery grey weathered amphibolitic mica schist with chips of quartz.</i>	<i>SHw</i>	<i>13,7</i>
	<i>Dark grey weathered amphibolitic schist, muscovite and biotite.</i>	<i>SHw</i>	<i>16,8</i>
	<i>Silvery-grey, quite weathered amphibolitic mica schist with some clay.</i>	<i>SHw</i>	<i>21,3</i>
		AQUIFER	
		REMARKS	
CONSTRUCTION DETAILS			
DRILLED DEPTH M	COMPL. DEPTH M	FROM	TO
<i>2,3</i>	<i>18,3</i>	<i>0</i>	<i>18,3</i>
DRILLED DIAM. MM			
<i>168</i>			
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. MM	PLAN FROM TO	PERFORATED FROM TO	
<i>51</i>	<i>0 12,2</i>	<i>12,2 18,3</i>	
SCREENING			
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO
GRAVEL PACK WATER	MM	FROM	TO
WATER STRUCK	<i>5,2</i>		MBG
STANDING WATER LEVEL	<i>4,9</i>		MBG
TEST YIELD M ³ /HR MAX		STEADY	
MAXIMUM DRAWD. M		DURATION TEST	MIN
T (M ² /SEC)		<i>I_wS (M²)</i>	
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT			MBG
APPARENT QUALITY OF WATER			
WATER ANALYSIS P		C X	B
WATER TEMPERATURE °C		DATE, WRITTEN BY	

BOREHOLE COMPLETION RECORD

LOCATION: <i>Mbeya Reg., Mbozi District, Nkhangamo</i>				BH NO. <i>114/180</i> CCKK NO. <i>MS 2</i>	
COORDINATES: <i>9° 7' S, 32° 21.3' E</i> ELEVATION: <i>m.asl</i>				MAP NO.	
COMPLETION DATE: <i>3.11.1980</i> DRILL. METHOD:				<i>QDS 242</i>	
DRILLER/ORGANIZATION:			DRILL UNIT NO.		
CLIENT:					
DEPTH M	SYM- BOL	FORMATION BY	DESCRIPTION DATE		
<i>1,5</i>	<i>T_L</i>	<i>Brownish-red dry lateritic soil.</i>			
<i>3,0</i>	<i>T_L</i>	<i>Brownish-red friable late- ritic soil.</i>			
<i>4,6</i>	<i>T_L</i>	<i>Brownish-red, dry course to medium grained late- ritic soil with probably granite pebbles.</i>			
<i>6,1</i>	<i>I</i>	<i>Dark brown, slightly wet silt.</i>			
<i>7,6</i>	<i>S</i>	<i>Dark brown, slightly wet- tened medium to course grained sand with quartz chips.</i>			
<i>9,1</i>	<i>S_{hw}</i>	<i>Wet grey, quite weathered schist.</i>			
				AQUIFER	
				REMARKS	
				<i>Open hole</i>	

CONSTRUCTION DETAILS					
DRILLED DEPTH	229	M	COMPL. DEPTH		M
DRILLED DIAM.	168	MM	FROM	0	TO
				229	
DETAILS OF CASING LEFT IN BOREHOLE					
INTERNAL DIAM.	MM	PLAN	PERFORATED		
CLASS		FROM	FROM		TO
		TO	TO		
SCREENING					
INTERNAL DIAM.	MM	SLOT SIZE	FROM	TO	
TYPE					
GRAVEL PACK					
	MM	FROM	M	TO	M
WATER					
WATER STRUCK		3,0			MBG
STANDING WATER LEVEL		4,6			MBG
TEST YIELD M ³ /HR	MAX		STEADY		
MAXIMUM DRAWD.	M		DURATION TEST		MIN
T (M ² /SEC)			r ² ws (M ²)		
METHOD OF PUMPING					
SUCTION/AIR OUTLET SET AT					MBG
APPARENT QUALITY OF WATER					
WATER ANALYSIS	P		C	X	B
WATER TEMPERATURE	°C				DATE, WRITTEN BY

BOREHOLE COMPLETION RECORD

Continued

LOCATION:		BH NO. 114/80 CCKK NO. MS2	
COORDINATES:		ELEVATION: m.asl	MAP NO.
COMPLETION DATE:		DRILL. METHOD:	
DRILLER/ORGANIZATION:		DRILL UNIT NO.	
CLIENT:			
FORMATION BY		DESCRIPTION DATE	
SYMBOL		DEPTH M	
12,2 SHw		12,2	
13,7 SHw		13,7	
15,2 SHw		15,2	
21,3 SHw		21,3	
22,9 C		22,9	
WET GREY, QUITE WEATHERED RED MICA SCHIST.		WET GREY, QUITE WEATHERED MICA SCHIST WITH PEBBLES OF QUARTZ.	
WET GREY, QUITE WEATHERED MICA SCHIST. ALL ARE CLAYEY CHARACTERIZES		DARK-GREY, QUITE WEATHERED RED MICA SCHIST, CLAY CHARACTERIZES.	
DARK-GREY CLAY WITH QUARTZ PEBBLES AND MICA.		AQUIFER	
REMARKS			
CONSTRUCTION DETAILS			
DRILLED DEPTH M	COMPL. DEPTH M	FROM	TO
DRILLED DIAM. MM			
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. MM	PLAN FROM	PERFORATED FROM	TO
CLASS	TO		
SCREENING			
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO
GRAVEL PACK MM	FROM M	TO M	
WATER			
WATER STRUCK			MBG
STANDING WATER LEVEL			MBG
TEST YIELD M ³ /HR	MAX	STEADY	
MAXIMUM DRAWD. M	DURATION TEST	MIN	
T (M ² /SEC)		r ² WS (M ²)	
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT			MBG
APPARENT QUALITY OF WATER			
WATER ANALYSIS P	C	B	
WATER TEMPERATURE °C	DATE, WRITTEN BY		

BOREHOLE COMPLETION RECORD

LOCATION: <i>Mbeya Reg., Mbozi District, Mdemba</i>		BH NO. <i>127/80</i> CCKK NO. <i>MS 3</i>	
COORDINATES: <i>9° 15.8' S, 32° 49.9' E</i>		ELEVATION: <i>m. asl</i>	MAP NO.
COMPLETION DATE: <i>7.11.1980</i>		DRILL. METHOD: <i>ADS 257</i>	
DRILLER/ORGANIZATION:		DRILL UNIT NO.	
CLIENT:			
FORMATION DESCRIPTION		DATE	
BY	DATE		
<i>Orange brown, top wet lateritic soil.</i>			
<i>Grey clay with quartz particles.</i>			
<i>Grey highly weathered to slightly weathered gneiss.</i>			
<i>Grey micaceous clay.</i>			
DEPTH M	SYM-BOL		
<i>1.5</i>	<i>T₁</i>		
<i>3.0</i>	<i>C</i>		
<i>7.6</i>	<i>P_w</i>		
<i>9.1</i>	<i>C</i>		
AQUIFER			
REMARKS		<i>No pipe to insert into the hole</i>	
CONSTRUCTION DETAILS			
DRILLED DEPTH M	COMPL. DEPTH M		
DRILLED DIAM. MM	FROM TO		
<i>168</i>	<i>0 9.1</i>		
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. MM	PLAN FROM TO	PERFORATED FROM TO	
<i>none</i>			
SCREENING			
INTERNAL DIAM. MM	SLOT SIZE	FROM TO	
GRAVEL PACK MM	FROM TO	M TO M	
WATER			
WATER STRUCK		<i>3.0</i>	MBG
STANDING WATER LEVEL		<i>4.6</i>	MBG
TEST YIELD M ³ /HR MAX		STEADY	
MAXIMUM DRAWD. M	DURATION TEST	MIN	
T (M ² /SEC)	r ² ws (M ²)		
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT		MBG	
APPARENT QUALITY OF WATER			
WATER ANALYSIS P	C	B	
WATER TEMPERATURE °C	DATE, WRITTEN BY		

BOREHOLE COMPLETION RECORD

LOCATION: <i>Mbeya Reg, Mbozi District, Mdemba</i>		BH NO. <i>128/80</i> CCKK NO. <i>MS 4</i>	
COORDINATES: <i>9°15.88', 32°49.8' E</i> ELEVATION: m.asl		MAP NO.	
COMPLETION DATE: <i>8.11.1980</i> DRILL. METHOD:		<i>QDS 257</i>	
DRILLER/ORGANIZATION:		DRILL UNIT NO.	
CLIENT:			
FORMATION BY	DESCRIPTION	DEPTH M	SYM-BOL
<i>Clay grey.</i>	<i>Highly weathered gneiss to dark slightly weathered gneiss.</i>	<i>3,0</i>	<i>C</i>
		<i>6,1</i>	<i>Pw</i>
CONSTRUCTION DETAILS		AQUIFER	
DRILLED DEPTH M	COMPL. DEPTH M	REMARKS	
<i>6,1</i>	<i>0</i>		
DRILLED DIAM. MM	FROM TO		
<i>168</i>	<i>0 6,1</i>		
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. MM	PLAN FROM TO	PERFORATED FROM TO	
<i>none</i>			
SCREENING			
INTERNAL DIAM. MM	SLOT SIZE	FROM TO	
GRAVEL PACK MM	FROM M TO M		
WATER			
WATER STRUCK			MBG
STANDING WATER LEVEL			MBG
TEST YIELD M ³ /HR MAX	STEADY		
MAXIMUM DRAWD. M	DURATION TEST	MIN	
T (M ² /SEC)	r ² ws (M ²)		
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT			MBG
APPARENT QUALITY OF WATER			
WATER ANALYSIS	P	C	B
WATER TEMPERATURE	°C	DATE, WRITTEN BY	

BOREHOLE COMPLETION RECORD

LOCATION: <i>Mbeya Reg., Mbozi District, Nandanga</i>		BH NO. <i>134/80</i> CCKK NO. <i>ms 5</i>	
COORDINATES: <i>9°16.7'S, 32°53.6'E</i> ELEVATION: <i>m.asl</i>		MAP NO.	
COMPLETION DATE: <i>14.11.80</i> DRILL. METHOD:		<i>RDS 257</i>	
DRILLER/ORGANIZATION:		DRILL UNIT NO.	
CLIENT:			
FORMATION BY		DESCRIPTION DATE	
<i>C</i>		<i>Dark to grey clay.</i>	
<i>I</i>		<i>Dark-brown to grey to clayey silt.</i>	
<i>Q</i>		<i>Quartz pebbles.</i>	
<i>C</i>		<i>Clay-grey with quartz pebbles.</i>	
<i>P</i>		<i>Low grade metamorphic gneiss (Core).</i>	
DEPTH M	SYM-BOL	AQUIFER	
<i>4,6</i>	<i>C</i>	REMARKS <i>The hole was left open because no pipes are available to insert</i>	
<i>10,7</i>	<i>I</i>		
<i>12,2</i>	<i>Q</i>		
<i>13,7</i>	<i>C</i>		
<i>15,2</i>	<i>P</i>		
CONSTRUCTION DETAILS			
DRILLED DEPTH <i>15,2</i> M	COMPL. DEPTH M	TO	
DRILLED DIAM. <i>168</i> MM	FROM <i>0</i>	TO <i>15,2</i>	
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. MM	PLAN FROM	TO	PERFORATED FROM TO
<i>none</i>			
SCREENING			
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO
GRAVEL PACK MM	FROM	M	TO M
WATER			
WATER STRUCK	<i>12,2</i>	MBG	
STANDING WATER LEVEL	<i>6,4</i>	MBG	
TEST YIELD M ³ /HR MAX		STEADY	
MAXIMUM DRAWD. M		DURATION TEST	MIN
T (M ² /SEC)		r ² ws (M ²)	
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT		MBG	
APPARENT QUALITY OF WATER			
WATER ANALYSIS	P	C	X B
WATER TEMPERATURE	°C	DATE, WRITTEN BY	

BOREHOLE COMPLETION RECORD

LOCATION: <i>Mbeya Reg., Mbozi District, Nandanga</i>		BH NO. <i>135/80</i> CCKK NO. <i>MS 6</i>	
COORDINATES: <i>9°16.5'S, 32°53.3'E</i>		ELEVATION: <i>m.asl</i>	MAP NO.
COMPLETION DATE: <i>21.11.1980</i>		DRILL. METHOD: <i>RDS 257</i>	
DRILLER/ORGANIZATION:		DRILL UNIT NO.	
CLIENT:			
DEPTH M	SYM- BOL	FORMATION BY	DESCRIPTION DATE
<i>1,5</i>	<i>C</i>	<i>Dark grey clay</i>	
<i>3,0</i>	<i>T_L</i>	<i>Dark-brown lateritic soil.</i>	
<i>7,6</i>	<i>C</i>	<i>Grey clay - wet.</i>	
<i>9,1</i>	<i>I</i>	<i>Dark-brown to grey wet clayey silt.</i>	
<i>10,7</i>	<i>I</i>	<i>Dark-brown to grey clayey silt.</i>	
<i>12,2</i>	<i>I_c</i>	<i>Dark-grey clayey silt.</i>	
AQUIFER		<i>As the bore hole was dry no pipe was inserted</i>	
REMARKS			
CONSTRUCTION DETAILS			
DRILLED DEPTH	<i>12,2</i> M	COMPL. DEPTH	M
DRILLED DIAM.	<i>168</i> MM	FROM	TO
		<i>0</i>	<i>12,2</i>
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM.	MM	PLAN	PERFORATED
CLASS		FROM	FROM
		TO	TO
	<i>none</i>		
SCREENING			
INTERNAL DIAM.	MM	SLOT SIZE	FROM
TYPE			TO
GRAVEL PACK	MM	FROM	M
WATER		TO	M
WATER STRUCK		<i>Dry</i>	MBG
STANDING WATER LEVEL			MBG
TEST YIELD M ³ /HR	MAX	STEADY	
MAXIMUM DRAWD.	M	DURATION TEST	MIN
T (M ² /SEC)		r ² _{WS} (M ²)	
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT			MBG
APPARENT QUALITY OF WATER			
WATER ANALYSIS	P	C	B
WATER TEMPERATURE	°C	DATE,	WRITTEN BY

BOREHOLE COMPLETION RECORD

LOCATION: <i>Mbeya Reg., Ileje District, Mbebe</i>	BH NO. <i>136/80</i> CCKK NO. <i>MS 7</i>
COORDINATES: <i>9°18.6'S, 32°57.2'E</i> ELEVATION: <i>m.asl</i>	MAP NO.
COMPLETION DATE: <i>30.11.1980</i> DRILL. METHOD:	<i>RDS 257</i>
DRILLER/ORGANIZATION:	DRILL UNIT NO.

CLIENT:

DEPTH M	SYM- BOL	FORMATION BY	DESCRIPTION DATE
<i>16,8</i>	<i>C</i>	<i>Gray clay.</i>	
<i>21,3</i>	<i>C</i>	<i>Micaceous clay.</i>	
<i>22,9</i>	<i>R</i>	<i>Bed rock.</i>	

CONSTRUCTION DETAILS									
DRILLED DEPTH	<i>22,9</i>	M	COMPL. DEPTH		M				
DRILLED DIAM.	<i>168</i>	MM	FROM	<i>0</i>	TO	<i>22,9</i>			
DETAILS OF CASING LEFT IN BOREHOLE									
INTERNAL DIAM.	MM	PLAN	PERFORATED						
CLASS		FROM	TO	FROM	TO				
	<i>none</i>								
SCREENING									
INTERNAL DIAM.	MM	SLOT SIZE	FROM	TO					
TYPE									
GRAVEL PACK	MM	FROM	M	TO	M				
WATER									
WATER STRUCK		<i>10,7</i>			MBG				
STANDING WATER LEVEL		<i>5,5</i>			MBG				
TEST YIELD	M ³ /HR	MAX	STEADY						
MAXIMUM DRAWD.	M	DURATION TEST	MIN						
T (M ² /SEC)		r ² ws (M ²)							
METHOD OF PUMPING									
SUCTION/AIR OUTLET SET AT					MBG				
APPARENT QUALITY OF WATER									
WATER ANALYSIS	P	C	X	B					
WATER TEMPERATURE	°C	DATE, WRITTEN BY							

AQUIFER

REMARKS

Open hole

BOREHOLE COMPLETION RECORD

LOCATION: <i>Mbeya Reg., Mbozi District, Mbimba</i>				BH NO. <i>148/80</i> CCKK NO. <i>MS 8</i>	
COORDINATES: <i>9°3.6'S, 32°56.9'E</i> ELEVATION: <i>m. asl</i>				MAP NO.	
COMPLETION DATE: <i>6.12.1980</i> DRILL. METHOD:				<i>QDS 257</i>	
DRILLER/ORGANIZATION:			DRILL UNIT NO.		
CLIENT:					
CONSTRUCTION DETAILS		DEPTH M		SYM-BOL	
DRILLED DEPTH	33,5 M	COMPL. DEPTH	M		
DRILLED DIAM.	168	FROM	TO		
		0	33,5		
DETAILS OF CASING LEFT IN BOREHOLE					
INTERNAL DIAM.	MM	PLAN	PERFORATED		
CLASS		FROM	TO		
SCREENING					
INTERNAL DIAM.	MM	SLOT SIZE	FROM	TO	
GRAVEL PACK					
	MM	FROM	M	TO	M
WATER					
WATER STRUCK		<i>10,7</i>			MBG
STANDING WATER LEVEL		<i>6,3</i>			MBG
TEST YIELD M ³ /HR	MAX				STEADY
MAXIMUM DRAWD.	M	DURATION TEST			MIN
T (M ² /SEC)		r ² ws (M ²)			
METHOD OF PUMPING					
SUCTION/AIR OUTLET SET AT					MBG
APPARENT QUALITY OF WATER					
WATER ANALYSIS	P		C	X	B
WATER TEMPERATURE		°C			DATE, WRITTEN BY
FORMATION DESCRIPTION		DATE		REMARKS	
BY				<i>No pipes inserted</i>	
	<i>Black cotton soil.</i>				
	<i>Dark gray clay.</i>				
	<i>Brown gray silty sand.</i>				
	<i>Brown gray clayey sand</i>				
	<i>with gravels and mafic</i>				
	<i>minerals.</i>				
	<i>Gray sandy-clay with</i>				
	<i>mafic minerals.</i>				
	<i>Light to dark gray clay</i>				
	<i>with mafic minerals.</i>				

BOREHOLE COMPLETION RECORD

LOCATION: MBEYA REGION, KYELA DISTRICT KYELA						BH NO. 306/80 CCKK NO:	
COORDINATES:				ELEVATION: m.asl		MAP NO.	
COMPLETION DATE:				DRILL. METHOD:		Q.D.S. 272	
DRILLER/ORGANIZATION:				DRILL UNIT NO.			
CLIENT:							
CONSTRUCTION DETAILS		DEPTH M		SYM-BOL		FORMATION DESCRIPTION DATE	
DRILLED DEPTH M	COMPL. DEPTH M	FROM	TO				
DRILLED DIAM. MM							
DETAILS OF CASING LEFT IN BOREHOLE							
INTERNAL DIAM. MM	PLAN FROM	TO	PERFORATED FROM	TO			
CLASS							
SCREENING							
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO				
GRAVEL PACK MM	FROM	M	TO	M			
WATER							
WATER STRUCK							MBG
STANDING WATER LEVEL							MBG
TEST YIELD M ³ /HR	MAX			STEADY			MIN
MAXIMUM DRAWD. M				DURATION TEST			
T (M ² /SEC)				r ² _w S (M ²)			
METHOD OF PUMPING							REMARKS
SUCTION/AIR OUTLET SET AT							MBG
APPARENT QUALITY OF WATER							
WATER ANALYSIS	P			C	X	B	
WATER TEMPERATURE	°C			DATE, WRITTEN BY			

BOREHOLE COMPLETION RECORD

LOCATION: <i>Mbeya Region, Kyela Dist., Kikusya Village</i>		BH NO. <i>19/81</i> CCKK NO. <i>MS 10</i>	
COORDINATES: <i>9°34.3'S, 33°50.9'E</i>		ELEVATION: <i>m.asl</i>	MAP NO. <i>272/2</i>
COMPLETION DATE:		DRILL. METHOD: <i>auger</i>	
DRILLER/ORGANIZATION: <i>Maji</i>		DRILL UNIT NO. <i>53</i>	
CLIENT:			
FORMATION BY	DESCRIPTION DATE	DEPTH M	SYM-BOL
<i>Brown dry soil</i>		<i>1.5</i>	<i>T</i>
<i>Brown friable dry silty sand</i>		<i>3.0</i>	<i>Si</i>
<i>Grey wet fine silty clay to coarse sand with some mica</i>		<i>10.7</i>	<i>Cl</i>
<i>Light grey friable silt with coarse minerals</i>		<i>12.2</i>	<i>I</i>
<i>Grey silty sand</i>		<i>15.2</i>	<i>Si</i>
<i>Grey wet fine silt with pebbles of dark rock particles of high sphericity</i>		<i>33.5</i>	<i>I</i>
		AQUIFER	
		REMARKS	
CONSTRUCTION DETAILS			
DRILLED DEPTH 33.5 M	COMPL. DEPTH 15.2 M		
DRILLED DIAM. MM	FROM TO		
<i>148</i>	<i>0 33.5</i>		
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. MM	PLAN FROM TO	PERFORATED FROM TO	
<i>PVC</i>	<i>153 -0.4 8.7</i>		
SCREENING			
INTERNAL DIAM. MM	SLOT SIZE	FROM TO	
<i>PVC</i>	<i>153</i>	<i>8.7 14.8</i>	
GRAVEL PACK	MM FROM M TO M		
WATER			
WATER STRUCK	<i>2.6</i>	MBG	
STANDING WATER LEVEL	<i>4.9</i>	MBG	
TEST YIELD M ³ /HR MAX		STEADY	<i>2.2</i>
MAXIMUM DRAWD. <i>1.7</i> M	DURATION TEST <i>180</i> MIN		
T (M ² /SEC) <i>7.5 × 10⁻⁴</i>	r ² ws (M ²)		
METHOD OF PUMPING <i>submersible pump</i>			
SUCTION/AIR OUTLET SET AT MBG			
APPARENT QUALITY OF WATER <i>good</i>			
WATER ANALYSIS	P ⊕	C ⊕	B
WATER TEMPERATURE <i>26.5</i> °C		DATE, WRITTEN BY	

BOREHOLE COMPLETION RECORD

LOCATION: <i>Mbeja Reg, Kyeta Dist, Itungi Port</i>						BH NO. <i>20/81</i> CCKK NO. <i>MS 11</i>	
COORDINATES: <i>9°35.0'S, 33°56.8'E</i> ELEVATION: m.asl						MAP NO. <i>272/2</i>	
COMPLETION DATE:				DRILL. METHOD: <i>auger</i>			
DRILLER/ORGANIZATION: <i>Maji</i>				DRILL UNIT NO. <i>53</i>			
CLIENT:							
CONSTRUCTION DETAILS		DEPTH M		SYM-BOL		FORMATION DESCRIPTION DATE	
DRILLED DEPTH 32.0 M	COMPL. DEPTH 6.1 M	4.6	S	Medium to coarse sand			
DRILLED DIAM. MM	FROM TO			mainly quartz and some dark minerals			
<i>168</i>	<i>0 32.0</i>			Dark minerals and dolomite less being quartz.			
DETAILS OF CASING LEFT IN BOREHOLE							
INTERNAL DIAM. MM	PLAN FROM TO	PERFORATED FROM TO					
<i>153</i>	<i>0 3.0</i>						
SCREENING							
INTERNAL DIAM. MM	SLOT SIZE	FROM TO					
<i>153</i>		<i>3.0 6.1</i>					
GRAVEL PACK — MM	FROM M TO M						
WATER STRUCK	<i>3.0 and 13.7</i>	MBG					
STANDING WATER LEVEL	<i>0.1</i>	MBG					
TEST YIELD M ³ /HR MAX	—	STEADY					
MAXIMUM DRAWD. — M	DURATION TEST — MIN						
T (M ² /SEC)	r ² ws (M ²)						
METHOD OF PUMPING							
SUCTION/AIR OUTLET SET AT	—	MBG					
APPARENT QUALITY OF WATER							
WATER ANALYSIS P	C X B						
WATER TEMPERATURE °C	DATE, WRITTEN BY						
REMARKS <i>found blocked 2 m bg</i> <i>14/10-81</i>							

BOREHOLE COMPLETION RECORD

LOCATION: <i>Mbeya Reg., Kyela Dist., Ngaranaga Village</i>		BH NO. <i>2181</i> CCKK NO. <i>M5 12</i>	
COORDINATES: <i>9°37.5'S, 33°52.7'E</i>		ELEVATION: <i>m.asl</i>	MAP NO. <i>272/2</i>
COMPLETION DATE:		DRILL. METHOD: <i>auger</i>	
DRILLER/ORGANIZATION: <i>Maji</i>		DRILL UNIT NO. <i>53</i>	
CLIENT:			
AQUIFER			
REMARKS			
<i>Borehole blocked</i>			
AQUIFER			
REMARKS			
<i>Borehole blocked</i>			

CONSTRUCTION DETAILS			
DRILLED DEPTH	MM	COMPL. DEPTH	M
<i>30.5</i>		<i>24.4</i>	
DRILLED DIAM.	MM	FROM	TO
<i>169</i>		<i>0</i>	<i>30.5</i>
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM.	MM	PLAN	PERFORATED
CLASS		FROM	FROM
<i>none</i>			TO
SCREENING			
INTERNAL DIAM.	MM	SLOT SIZE	FROM
			TO
<i>PVC</i>	<i>153</i>		<i>-0.3</i>
			<i>24.4</i>
GRAVEL PACK	MM	FROM	TO
<i>---</i>			
WATER			
WATER STRUCK		<i>4.6 and 13.7</i>	MBG
STANDING WATER LEVEL		<i>4.3</i>	MBG
TEST YIELD M ³ /HR	MAX	STEADY	MIN
MAXIMUM DRAWD.	M	DURATION TEST	MIN
T (M ² /SEC)		r ² ws (M ²)	
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT			MBG
APPARENT QUALITY OF WATER			
WATER ANALYSIS	P	C	X
			B
WATER TEMPERATURE	°C	DATE,	WRITTEN BY

BOREHOLE COMPLETION RECORD

LOCATION: <i>Mbeya Reg., Kyela Dist., Fderya Ngongo Village</i>						BH NO. <i>22/81</i> CCKK NO. <i>MS 13</i>	
COORDINATES: <i>9° 39.2' S, 33° 54.2' E</i> ELEVATION: <i>m.asl</i>						MAP NO. <i>272/2</i>	
COMPLETION DATE:				DRILL. METHOD: <i>auger</i>			
DRILLER/ORGANIZATION: <i>Maji</i>				DRILL UNIT NO. <i>53</i>			
CLIENT:							
CONSTRUCTION DETAILS		COMPL. DEPTH <i>21.3</i> M		DEPTH M		SYM-BOL	
DRILLED DEPTH <i>30.5</i> M	MM	FROM	TO				
DRILLED DIAM. <i>168</i>	MM	<i>0</i>	<i>30.5</i>	<i>1.5</i>	<i>I</i>	<i>Brown fine dry silt with mica</i>	
DETAILS OF CASING LEFT IN BOREHOLE				<i>3.0</i>	<i>S</i>	<i>Brown grey wet fine sand</i>	
INTERNAL DIAM. CLASS	MM	PLAN FROM	TO	<i>4.6</i>	<i>S</i>	<i>Greyish brown wet fine sand</i>	
<i>none</i>				<i>6.1</i>	<i>Si</i>	<i>Dark grey wet fine silty sand</i>	
SCREENING				<i>7.6</i>	<i>Si</i>	<i>Brown wet fine silty sand</i>	
INTERNAL DIAM. TYPE	MM	SLOT SIZE FROM	TO	<i>19.8</i>	<i>Si</i>	<i>Dark grey wet fine silty clay</i>	
<i>PVC</i>	<i>153</i>	<i>-0.3</i>	<i>21.3</i>	<i>27.4</i>	<i>Si</i>	<i>Grey brown wet fine silty sand</i>	
GRAVEL PACK	MM	FROM	TO	<i>29.0</i>	<i>S</i>	<i>Dark grey medium to coarse sand</i>	
WATER				<i>30.5</i>	<i>Si</i>	<i>Dark grey fine sand silty</i>	
WATER STRUCK		<i>7.6</i>		AQUIFER			
STANDING WATER LEVEL		<i>4.8</i>		REMARKS			
TEST YIELD M ³ /HR	MAX	<i>2.1</i>	STEADY				
			<i>2.0</i>				
MAXIMUM DRAWD. <i>1.3</i> M		DURATION TEST <i>120</i> MIN					
T (M ² /SEC) <i>2.0 x 10⁻⁴</i>		r ² wS (M ²)					
METHOD OF PUMPING <i>submersible pump</i>							
SUCTION/AIR OUTLET SET AT		<i>7</i>		MBG			
APPARENT QUALITY OF WATER <i>good</i>							
WATER ANALYSIS	P	⊕	C	⊕	B		
WATER TEMPERATURE	°C	DATE, WRITTEN BY					

BOREHOLE COMPLETION RECORD

LOCATION: <i>Mbeya Reg., Kyela Dist., Kazumbo Songwe Vill.</i>		BH NO. <i>23181</i> CCKK NO. <i>MS 14</i>	
COORDINATES: <i>9°40.8' S, 33°55.0' E</i>		ELEVATION: <i>m.asl</i>	MAP NO.
COMPLETION DATE:		DRILL. METHOD: <i>auger</i>	<i>272/2</i>
DRILLER/ORGANIZATION: <i>Maji</i>		DRILL UNIT NO. <i>53</i>	
CLIENT:			
DEPTH M	SYM-BOL	FORMATION BY	DESCRIPTION DATE
<i>3.0</i>	<i>I</i>	<i>Dark brown wet silt</i>	
<i>7.6</i>	<i>I_s</i>	<i>Dark brown wet sandy silt</i>	
<i>12.2</i>	<i>S</i>	<i>Brown sands</i>	
<i>16.8</i>	<i>S</i>	<i>Coarse grained colourless sand, mainly quartz</i>	
<i>30.5</i>	<i>S</i>	<i>Fine to medium grained sand with some mica</i>	
AQUIFER			
REMARKS <i>Abandoned 14/16 81 during development</i>			
CONSTRUCTION DETAILS			
DRILLED DEPTH <i>30.5</i> M	COMPL. DEPTH <i>12.2</i> M		
DRILLED DIAM. <i>168</i> MM	FROM TO		
	<i>0</i> <i>30.5</i>		
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. <i>168</i> MM	PLAN PERFORATED		
CLASS <i>none</i>	FROM TO		
SCREENING			
INTERNAL DIAM. <i>153</i> MM	SLOT SIZE	FROM TO	
		<i>-0.2</i>	<i>12.2</i>
GRAVEL PACK <i>---</i> MM	FROM M TO M		
WATER			
WATER STRUCK	<i>3.0</i>	MBG	
STANDING WATER LEVEL	<i>1.12</i>	MBG	
TEST YIELD M ³ /HR MAX	<i>---</i>	STEADY	<i>---</i>
MAXIMUM DRAWD. <i>---</i> M	DURATION TEST <i>---</i> MIN		
T (M ² /SEC)	<i>---</i>	r ² _{ws} (M ²)	<i>---</i>
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT	<i>---</i>	MBG	
APPARENT QUALITY OF WATER			
WATER ANALYSIS	P	C	B
WATER TEMPERATURE	°C	DATE, WRITTEN BY	

BOREHOLE COMPLETION RECORD

LOCATION: <i>Mbeya Reg., Kyela Dist., Kabongo Village</i>		BH NO. <i>24181</i> CCKK NO. <i>MS 15</i>	
COORDINATES: <i>9° 37.8' S, 33° 49.3' E</i>		ELEVATION: m.asl	MAP NO.
COMPLETION DATE:		DRILL. METHOD:	<i>272/2</i>
DRILLER/ORGANIZATION: <i>Maji</i>		DRILL UNIT NO. <i>53</i>	
CLIENT:			
DEPTH M	SYM- BOL	FORMATION BY	DESCRIPTION DATE
<i>4.6</i>	<i>M</i>	<i>Pegmaetic rock and mud-stone</i>	
<i>7.6</i>	<i>I</i>	<i>Dark grey to brown wet silt</i>	
<i>9.1</i>	<i>C</i>	<i>Black wet clay</i>	
<i>12.2</i>	<i>Sc</i>	<i>Coarse sand with dark grey clay</i>	
<i>13.7</i>	<i>S</i>	<i>Coarse black sand</i>	
<i>15.2</i>	<i>C</i>	<i>Dark grey clay</i>	
<i>21.3</i>	<i>Sc</i>	<i>Clayey sand and dark clay</i>	
<i>22.9</i>	<i>S</i>	<i>Coarse sand with cobbles of Mafois</i>	
<i>30.5</i>	<i>C</i>	<i>Dark clay with cobbles of Mafois</i>	
AQUIFER			REMARKS
AQUIFER			
CONSTRUCTION DETAILS			
DRILLED DEPTH 30.5 M	COMPL. DEPTH 15.2 M		
DRILLED DIAM. MM	FROM TO		
<i>168</i>	<i>0 30.5</i>		
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. MM	PLAN FROM TO	PERFORATED FROM TO	
<i>153</i>	<i>0.3 15.2</i>		
SCREENING			
INTERNAL DIAM. MM	SLOT SIZE	FROM TO	
<i>none</i>			
GRAVEL PACK — MM	FROM TO	M TO M	
WATER			
WATER STRUCK	<i>6.1</i>		MBG
STANDING WATER LEVEL	<i>0.8</i>		MBG
TEST YIELD M ³ /HR MAX		STEADY 1.8	
MAXIMUM DRAWD. 2.5 M		DURATION TEST 240 MIN	
T (M ² /SEC) <i>4.2 x 10⁻⁵</i>		r ² ws (M ²) <i>2.0 x 10⁻²</i>	
METHOD OF PUMPING <i>submersible pump</i>			
SUCTION/AIR OUTLET SET AT	<i>8</i>		MBG
APPARENT QUALITY OF WATER <i>good</i>			
WATER ANALYSIS	P ⊕	C ⊕	B
WATER TEMPERATURE	°C	DATE, WRITTEN BY	

BOREHOLE COMPLETION RECORD

LOCATION: <i>Mbeya Reg, Mbozi District, Mbozi Mission</i>		BH NO. <i>25/81</i> CCKK NO. <i>—</i>	
COORDINATES: <i>9° 1.1'S, 32° 58.7'E</i> ELEVATION: <i>m.asl</i>		MAP NO. <i>QDS 257</i>	
COMPLETION DATE: <i>18/4-81</i> DRILL. METHOD:			
DRILLER/ORGANIZATION:		DRILL UNIT NO.	
CLIENT:			
DEPTH M	SYM-BOL	FORMATION DESCRIPTION	DATE
<i>6.1</i>	<i>C</i>	<i>clay</i>	
<i>10.7</i>	<i>CS</i>	<i>clay and sand</i>	
<i>18.3</i>	<i>CI</i>	<i>greyish clay and silt</i>	
<i>29.0</i>	<i>CI</i>	<i>silt and black clay</i>	
<i>35.1</i>	<i>Rw</i>	<i>weathered rock and silt</i>	
<i>53.3</i>	<i>Pw</i>	<i>weathered granite</i>	
<i>93.0</i>	<i>V</i>	<i>basaltic rocks and dolerite</i>	
AQUIFER		REMARKS	
		<i>Helium, nitrogen and sulphur gases found around 83 m</i>	
CONSTRUCTION DETAILS			
DRILLED DEPTH	93.0 M	COMPL. DEPTH	M
DRILLED DIAM.	MM	FROM	TO
	<i>305</i>	<i>0</i>	<i>53.3</i>
	<i>203</i>	<i>53.3</i>	<i>93.0</i>
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM.	MM	PLAN	PERFORATED
CLASS		FROM	FROM
	<i>203</i>	<i>0</i>	<i>357</i>
SCREENING			
INTERNAL DIAM.	MM	SLOT SIZE	FROM
TYPE			TO
GRAVEL PACK	MM	FROM	M TO
WATER			M
WATER STRUCK		<i>6.2</i>	MBG
STANDING WATER LEVEL		<i>0</i>	MBG
TEST YIELD M ³ /HR	MAX	<i>24.0</i>	STEADY
MAXIMUM DRAWD.	<i>23.8</i> M		<i>1.5</i>
T (M ² /SEC)	<i>2 x 10⁻⁷</i>	DURATION TEST	<i>720</i> MIN
METHOD OF PUMPING <i>airlifting</i>			
SUCTION/AIR OUTLET SET AT		<i>36.5</i>	MBG
APPARENT QUALITY OF WATER			
WATER ANALYSIS	P	C	X B
WATER TEMPERATURE	°C	DATE, WRITTEN BY	

BOREHOLE COMPLETION RECORD

LOCATION: <i>Mbeya Region, Kyela District, Tenende Village</i>		BH NO. <i>29181</i> CCKK NO. <i>ms 16</i>	
COORDINATES: <i>9°32.8'S, 33°53.4'E</i>		ELEVATION: m.asl	MAP NO. <i>272/2</i>
COMPLETION DATE:		DRILL. METHOD: <i>auger</i>	
DRILLER/ORGANIZATION: <i>Maje</i>		DRILL UNIT NO. <i>53</i>	
CLIENT:			
DEPTH M	SYM-BOL	FORMATION BY	DESCRIPTION DATE
4.6	Si	<i>Wet brown grey silty sand</i>	
6.1	Si	<i>Fluidy silty sand, brown grey</i>	
7.6	C	<i>Dark clay</i>	
9.1	Si	<i>Fluidy brown grey silty sand</i>	
12.2	C	<i>Wet black clay</i>	
13.7	Cs	<i>Black wet sandy clay</i>	
16.8	C	<i>Black wet clay</i>	
19.8	Cs	<i>Black clay with sand</i>	
21.3	C	<i>Black clay with pebbles</i>	
22.9	Cs	<i>Black clayey sand</i>	
30.5	S	<i>Coarse (wet) sand</i>	
AQUIFER		REMARKS	
CONSTRUCTION DETAILS			
DRILLED DEPTH	30.5 M	COMPL. DEPTH	24.4 M
DRILLED DIAM.	MM	FROM	TO
	<i>108</i>	0	30.5
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM.	MM	PLAN	PERFORATED
CLASS		FROM	FROM
	<i>none</i>		TO
SCREENING			
INTERNAL DIAM.	MM	SLOT SIZE	FROM
TYPE			TO
	<i>PVC</i>		<i>-0.5</i>
	<i>153</i>		<i>24.4</i>
GRAVEL PACK	MM	FROM	M TO
			M
WATER			
WATER STRUCK		<i>4.6</i>	MBG
STANDING WATER LEVEL		<i>2.0</i>	MBG
TEST YIELD M ³ /HR	MAX	<i>6.0</i>	STEADY <i>5.0</i>
MAXIMUM DRAWD.	0.2 M	DURATION TEST <i>160</i> MIN	
T (M ² /SEC)	<i>4.2 x 10⁻³</i>	r ² ws (M ²)	
METHOD OF PUMPING <i>submersible pump</i>			
SUCTION/AIR OUTLET SET AT MBG			
APPARENT QUALITY OF WATER <i>good</i>			
WATER ANALYSIS	P (+)	C (+)	B —
WATER TEMPERATURE	°C	DATE, WRITTEN BY	

BOREHOLE COMPLETION RECORD

LOCATION: <i>Mbeya Reg, Kyela District, Spinda Village</i>		BH NO. <i>30/81</i> CCKK NO. <i>MS 17</i>	
COORDINATES: <i>9°29.1'S, 33°53.8'E</i> ELEVATION: <i>m.asl</i>		MAP NO. <i>272/2</i>	
COMPLETION DATE:		DRILL. METHOD: <i>auger</i>	
DRILLER/ORGANIZATION: <i>Maje</i>		DRILL UNIT NO. <i>53</i>	
CLIENT:			
DEPTH M	SYM-BOL	FORMATION BY	DESCRIPTION DATE
3.0	T	<i>Brown silty overburden</i>	
4.6	Si	<i>Brown very fine silty sand</i>	
15.2	S	<i>Grey to dark grey fine sand</i>	
16.8	S	<i>medium grained sand</i>	
21.3	C	<i>Clay (wet) with pebbles of rock</i>	
22.9	S	<i>Coarse grained sand, dark grey</i>	
30.5	S	<i>as above</i>	
AQUIFER			
REMARKS			
CONSTRUCTION DETAILS			
DRILLED DEPTH	30.5 M	COMPL. DEPTH	24.4 M
DRILLED DIAM.	MM	FROM	TO
	<i>168</i>	0	30.5
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM.	MM	PLAN	PERFORATED
CLASS		FROM	FROM
		TO	TO
SCREENING			
INTERNAL DIAM.	MM	SLOT SIZE	FROM
	<i>153</i>		TO
			<i>-0.9</i>
			<i>244</i>
GRAVEL PACK	MM	FROM	M TO
			M
WATER			
WATER STRUCK		<i>7.6</i>	MBG
STANDING WATER LEVEL		<i>3.76</i>	MBG
TEST YIELD M ³ /HR	MAX	<i>6.6</i>	STEADY <i>6.5</i>
MAXIMUM DRAWD.	6.2 M	DURATION TEST	300 MIN
T (M ² /SEC)	<i>6.4 × 10⁻⁴</i>	r ² ws (M ²)	-
METHOD OF PUMPING <i>submersible pump</i>			
SUCTION/AIR OUTLET SET AT MBG			
APPARENT QUALITY OF WATER <i>good</i>			
WATER ANALYSIS	P	<input checked="" type="radio"/>	C <input checked="" type="radio"/> B <input type="radio"/>
WATER TEMPERATURE	°C	DATE, WRITTEN BY	

BOREHOLE COMPLETION RECORD

LOCATION: <i>Mbeya Reg., Kyela District, Ndobe Village</i>		BH NO. <i>73/81</i> CCKK NO. <i>MS 18</i>	
COORDINATES: <i>9°29.4'S, 33°55.6'E</i> ELEVATION: <i>m.asl</i>		MAP NO. <i>272/2</i>	
COMPLETION DATE:		DRILL. METHOD: <i>auger</i>	
DRILLER/ORGANIZATION: <i>Maji</i>		DRILL UNIT NO. <i>53</i>	
CLIENT:			
DEPTH M	SYM-BOL	FORMATION BY	DESCRIPTION DATE
<i>4.6</i>	<i>I</i>	<i>Dark brown silt with some mica</i>	
<i>10.7</i>	<i>Si</i>	<i>Greyish brown silty sand with some mica</i>	
<i>12.2</i>	<i>Ci</i>	<i>Dark brown silty clay</i>	
<i>13.7</i>	<i>C</i>	<i>Clay wet</i>	
<i>15.2</i>	<i>Sc</i>	<i>Dark to bluish grey clayey sand</i>	
<i>22.9</i>	<i>Cs</i>	<i>Black clay wet with medium sand to dark bluish grey clayey sand</i>	
<i>30.5</i>	<i>Ci</i>	<i>Dark brown silty clay with some mica</i>	
AQUIFER		REMARKS <i>Samples not clearly labelled</i>	
CONSTRUCTION DETAILS			
DRILLED DEPTH M	30.5	COMPL. DEPTH M	12.2
DRILLED DIAM. MM	168	FROM	0
		TO	30.5
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. MM		PLAN FROM	PERFORATED FROM
CLASS		TO	TO
	<i>none</i>		
SCREENING			
INTERNAL DIAM. MM		SLOT SIZE MM	FROM
TYPE	<i>152</i>		TO
			<i>0</i>
			<i>12.2</i>
GRAVEL PACK MM	—	FROM	M
		TO	M
WATER			
WATER STRUCK	3.0		MBG
STANDING WATER LEVEL	2.4		MBG
TEST YIELD M ³ /HR MAX		STEADY	5.4
MAXIMUM DRAWD. M	0.4	DURATION TEST	60 MIN
T (M ² /SEC)	<i>1.4 x 10⁻²</i>	r _w ² S (M ²)	—
METHOD OF PUMPING <i>submersible/pump</i>			
SUCTION/AIR OUTLET SET AT	26		MBG
APPARENT QUALITY OF WATER	<i>good</i>		
WATER ANALYSIS	P ⊕	C ⊕	B ⊖
WATER TEMPERATURE	°C	DATE,	WRITTEN BY

BOREHOLE COMPLETION RECORD

LOCATION: <i>Mbaya Reg., Kyela District, Mpunguti Village</i>	BH NO. <i>74/81</i> CCKK NO. <i>M519</i>
COORDINATES: <i>9°25.7' S, 33°55.4' E</i> ELEVATION: <i>m.asl</i>	MAP NO. <i>272/2</i>
COMPLETION DATE: _____	DRILL. METHOD: _____
DRILLER/ORGANIZATION: <i>Maji</i>	DRILL UNIT NO. <i>53</i>

CLIENT: _____

DEPTH M	SYM- BOL	FORMATION BY	DESCRIPTION DATE
3.0	I		<i>Brown silt with some weathered rock particles</i>
6.1	S		<i>Grey and black sand, med to fine</i>
7.6	Ci		<i>Dark grey to black silty clay and some fine mica</i>
10.7	Si		<i>Dark and pebbles and silt and with mica</i>
12.2	I		<i>Orange grey silt and some mica</i>
13.7	Sc		<i>Black wet clayey sand</i>
19.8	Ic		<i>Grey silt to dark clayey and some sand also with some mica</i>
21.3	G		<i>Gravel grey with sand</i>
29.0	S		<i>Fine to medium sand wet (dark)</i>

CONSTRUCTION DETAILS			
DRILLED DEPTH 30.5 M	COMPL. DEPTH 0 M		
DRILLED DIAM. 168 MM	FROM 0	TO 30.5	
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. MM	PLAN	PERFORATED	
CLASS	FROM TO	FROM TO	
<i>none</i>			
SCREENING			
INTERNAL DIAM. MM	SLOT SIZE	FROM TO	
<i>none</i>			
GRAVEL PACK MM	FROM M TO M		
WATER			
WATER STRUCK	6.1		MBG
STANDING WATER LEVEL	3.0		MBG
TEST YIELD M ³ /HR MAX	—	STEADY	—
MAXIMUM DRAWD. — M		DURATION TEST	— MIN
T (M ² /SEC)	—	r ² ws (M ²)	—
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT	—		MBG
APPARENT QUALITY OF WATER			
WATER ANALYSIS	P	C X B	
WATER TEMPERATURE	°C	DATE, WRITTEN BY	

AQUIFER

REMARKS

BOREHOLE COMPLETION RECORD

LOCATION: <i>Chiwanda village, Mbeya</i>		BH NO. <i>76181</i> CCKK NO. <i>MD3</i>	
COORDINATES: <i>9°10.8'S, 32°34.0'E</i>		ELEVATION: <i>m.asl</i>	MAP NO.
COMPLETION DATE: <i>25/5-81</i>		DRILL. METHOD: <i>air</i>	<i>QDS 257</i>
DRILLER/ORGANIZATION: <i>J. Muski, Maji</i>		DRILL UNIT NO. <i>45</i>	
CLIENT: <i>Water Master Plan</i>			
CONSTRUCTION DETAILS	DRILLED DEPTH <i>39.62</i> M	COMPL. DEPTH <i>39.62</i> M	FORMATION DESCRIPTION DATE
	DRILLED DIAM. MM	FROM TO	
	<i>166</i>	<i>0</i>	<i>red brown toberidic soil with abundant mineral fragments</i>
	<i>140</i>	<i>3</i>	<i>coarse grained quartz, kaolinitized feldspar weathered garnets</i>
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. CLASS	MM	PLAN FROM TO	
	<i>100</i>	<i>0</i>	<i>weathered to slightly weathered very light grey medium grained biotite greiss.</i>
SCREENING			
INTERNAL DIAM. TYPE	MM	SLOT SIZE FROM TO	
GRAVEL PACK	MM	FROM TO	
WATER			
WATER STRUCK	<i>12.19</i>	<i>15.24 - 24.0</i>	
STANDING WATER LEVEL	<i>3.04</i>		
TEST YIELD M ³ /HR	MAX	STEADY	<i>0.7</i>
MAXIMUM DRAWD.	<i>20.0</i> M	DURATION TEST	<i>150</i> MIN
T (M ² /SEC)	<i>2.2 x 10⁻⁵</i>	r ² WS (M ²)	<i>3.4 x 10⁻³</i>
METHOD OF PUMPING <i>submersible pump</i>			
SUCTION/AIR OUTLET SET AT			REMARKS
APPARENT QUALITY OF WATER	<i>very muddy</i>		<i>open hole below 9.1 m</i>
WATER ANALYSIS	P ⊕ C ⊕ B ⊖		<i>BH Number is provisional</i>
WATER TEMPERATURE	°C	DATE, WRITTEN BY <i>MLJ</i>	<i>1/9-81</i>

BOREHOLE COMPLETION RECORD

LOCATION: <i>Mbeya Reg., Mbozi District, Mpemba</i>		BH NO. CCKK NO. <i>MD 2</i>	
COORDINATES: <i>9°15.8' S, 32°49.1' E</i> ELEVATION: <i>m.asl</i>		MAP NO.	
COMPLETION DATE: <i>30.6.1981</i> DRILL. METHOD: <i>Air-hammer</i>		<i>QDS 257</i>	
DRILLER/ORGANIZATION:		DRILL UNIT NO.	
CLIENT:			
FORMATION DESCRIPTION BY DATE		DEPTH M	SYM-BOL
<i>Light brown sandy soil.</i>		<i>1,5</i>	<i>T</i>
<i>Light tan, fine grained quartz with very weathered mineral fragments.</i>		<i>4,6</i>	<i>Q</i>
<i>Very weathered dark chocolate brown friable biotite, garnet schist.</i>		<i>10,7</i>	<i>SH</i>
<i>Weathered light green grey biotite, hornblende schist.</i>		<i>18,3</i>	<i>SH</i>
<i>Very fine grained, slightly weathered grey hornblende garnet schist.</i>		<i>45,7</i>	<i>SH</i>
AQUIFER			
REMARKS			
CONSTRUCTION DETAILS			
DRILLED DEPTH <i>45,7</i> M	COMPL. DEPTH <i>45,4</i> M		
DRILLED DIAM. <i>152</i> MM	FROM <i>0</i> TO <i>45,7</i>		
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. <i>102</i> MM	PLAN FROM <i>0</i> TO <i>21,0</i>	PERFORATED FROM <i>21,0</i> TO <i>45,4</i>	
CLASS <i>102</i>			
SCREENING			
INTERNAL DIAM. <i>102</i> MM	SLOT SIZE	FROM	TO
GRAVEL PACK <i>24,7</i> MM		FROM <i>0</i> M	TO <i>24,7</i> M
WATER			
WATER STRUCK	<i>24,7</i>		MBG
STANDING WATER LEVEL	<i>6,1</i>		MBG
TEST YIELD M ³ /HR	<i>0,7</i>	STEADY	<i>0,5</i>
MAXIMUM DRAWD. <i>1,3</i> M	DURATION TEST <i>28</i> MIN		
T (M ² /SEC) <i>7,6 x 10⁻⁶</i>	F ² _{WS} (M ²)		
METHOD OF PUMPING <i>submersible pump</i>			
SUCTION/AIR OUTLET SET AT	<i>—</i>		MBG
APPARENT QUALITY OF WATER <i>good</i>			
WATER ANALYSIS	P <input checked="" type="checkbox"/> C <input checked="" type="checkbox"/> B <input checked="" type="checkbox"/>		
WATER TEMPERATURE	°C	DATE, WRITTEN BY <i>MJJ 1/9-81</i>	

BOREHOLE COMPLETION RECORD

LOCATION: <i>Mbeya Reg., Mbeya District, Luhanga</i>		BH NO: <i>205/81</i> CCKK NO. <i>MS20</i>	
COORDINATES: <i>8°37.8'S, 33°53.1'E</i>		ELEVATION: <i>m.asl</i>	MAP NO. <i>RDS 245</i>
COMPLETION DATE: <i>17.8.1981</i> DRILL. METHOD: <i>Auger</i>			
DRILLER/ORGANIZATION:		DRILL UNIT NO.	
CLIENT:			
FORMATION BY		DESCRIPTION DATE	
		<i>Medium, brown, extremely fine grained, alluvial silt and mud with scaled very fine grained, rounded quartz and mineral fragments.</i>	
		<i>Light brown fine grained rounded to subrounded sand with clay.</i>	
		<i>White, very light, grey-brown, silt with fine grained sand.</i>	
DEPTH M	SYM-BOL		
<i>16,8</i>	<i>I</i>		
<i>22,9</i>	<i>S_c</i>		
<i>36,6</i>	<i>I_s</i>		
AQUIFER		REMARKS	
CONSTRUCTION DETAILS			
DRILLED DEPTH 36,6 M	COMPL. DEPTH 36,6 M		
DRILLED DIAM. 168 MM	FROM 0 TO 36,6		
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. MM	PLAN FROM TO	PERFORATED FROM TO	
<i>102</i>	<i>0 24,4</i>	<i>24,4 36,6</i>	
SCREENING			
INTERNAL DIAM. MM	SLOT SIZE	FROM	TO
GRAVEL PACK MM	FROM	M	TO M
WATER			
WATER STRUCK	<i>24,4-30,5</i>	MBG	
STANDING WATER LEVEL	<i>18,3</i>	MBG	
TEST YIELD M ³ /HR MAX	<i>2,0</i>	STEADY TEST	<i>1,9</i>
MAXIMUM DRAWD. 5,3 M	DURATION TEST <i>60</i> MIN		
T (M ² /SEC) <i>2,8 x 10⁻⁵</i>	r _w S (M ²) <i>5,1 x 10⁻³</i>		
METHOD OF PUMPING <i>submersible pump</i>			
SUCTION/AIR OUTLET SET AT		MBG	
APPARENT QUALITY OF WATER <i>good</i>			
WATER ANALYSIS	P ⊕	C ⊕	B ⊕
WATER TEMPERATURE	°C	DATE, WRITTEN BY <i>MJS 1/9-81</i>	

BOREHOLE COMPLETION RECORD

LOCATION: <i>Mbeya Reg., Mbeya District, Luhanga</i>		BH NO. <i>206/81</i> CCKK NO. <i>MS 21</i>	
COORDINATES: <i>8°36.6'S, 33°53.1'E</i>		ELEVATION: <i>m.asl</i>	MAP NO. <i>QDS 245</i>
COMPLETION DATE: <i>29.8.1981</i>		DRILL. METHOD: <i>Auger</i>	
DRILLER/ORGANIZATION:		DRILL UNIT NO.	
CLIENT:			
FORMATION BY		DESCRIPTION DATE	
<i>Red brown with fine grained alluvial sand.</i>		<i>1,5</i>	
<i>Light tan with fine grained alluvial sand with frequent large rock fragments.</i>		<i>7,6</i>	
<i>Medium greenish grey, very fine grained clayey sand.</i>		<i>10,7</i>	
<i>Greenish grey clay.</i>		<i>13,7</i>	
<i>Greenish, light buff, very fine grained alluvial mud and silt.</i>		<i>16,8</i>	
<i>Greenish grey sandy mud and clay.</i>		<i>30,5</i>	
SYM-BOL		DEPTH M	
<i>S</i>		<i>1,5</i>	
<i>S</i>		<i>7,6</i>	
<i>Sc</i>		<i>10,7</i>	
<i>C</i>		<i>13,7</i>	
<i>I</i>		<i>16,8</i>	
<i>Sc</i>		<i>30,5</i>	
AQUIFER		REMARKS	
CONSTRUCTION DETAILS			
DRILLED DEPTH	30,5 M	COMPL. DEPTH	M
DRILLED DIAM.	168	FROM	TO
		0	30,5
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM.	MM	PLAN FROM	PERFORATED FROM TO
CLASS			
	<i>none</i>		
SCREENING			
INTERNAL DIAM.	MM	SLOT SIZE	FROM TO
TYPE			
GRAVEL PACK	MM	FROM	M TO N
WATER			
WATER STRUCK		<i>Dry</i>	MBG
STANDING WATER LEVEL			MBG
TEST YIELD M ³ /HR	MAX	STEADY	
MAXIMUM DRAWD.	M	DURATION TEST	MIN
T (M ² /SEC)		r ² ws (M ²)	
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT			MBG
APPARENT QUALITY OF WATER			
WATER ANALYSIS	P	C	B
WATER TEMPERATURE	°C	DATE, WRITTEN BY <i>MJS 1/9-81</i>	

BOREHOLE COMPLETION RECORD

LOCATION: <i>Mbeya Reg., Mbeya District, Luhanaga</i>						BH NO. <i>207/81</i> CCKK NO. <i>MS22</i>	
COORDINATES: <i>8°31.0'S, 33°58.3'E</i>				ELEVATION: <i>m.asl</i>		MAP NO.	
COMPLETION DATE: <i>21.8.1981</i>				DRILL. METHOD: <i>Auger</i>		<i>QDS 245</i>	
DRILLER/ORGANIZATION:				DRILL UNIT NO.			
CLIENT:							
FORMATION BY		DESCRIPTION		DATE			
		<i>Brown-tan, very fine grained silt and mud with very fine grained, rounded quartz and rock fragments.</i>					
		<i>Buff, very fine grained sand with clayed matrix</i>					
		<i>Yellow buff, very fine grained sand.</i>					
		<i>Yellow buff, very fine grained sand with clayey matrix</i>					
		<i>Off white, very light buff, very fine grained sand with calcareous matrix.</i>					
SYM-BOL		DEPTH M		AQUIFER		REMARKS	
<i>I</i>		<i>16,8</i>				<i>The borehole abandoned, dry.</i>	
<i>Sc</i>		<i>21,3</i>					
<i>S</i>		<i>22,9</i>					
<i>Sc</i>		<i>25,9</i>					
<i>S</i>		<i>30,5</i>					
CONSTRUCTION DETAILS							
DRILLED DEPTH 30,5 M		COMPL. DEPTH M					
DRILLED DIAM. 168 MM		FROM 0		TO 30,5			
DETAILS OF CASING LEFT IN BOREHOLE							
INTERNAL DIAM. MM		PLAN FROM TO		PERFORATED FROM TO			
<i>none</i>							
SCREENING							
INTERNAL DIAM. MM		SLOT SIZE		FROM TO			
GRAVEL PACK MM		FROM M TO M					
WATER							
WATER STRUCK		<i>Dry</i>					
STANDING WATER LEVEL						MBG	
TEST YIELD M ³ /HR MAX						MBG	
MAXIMUM DRAWD. M		DURATION TEST		MIN			
T (M ² /SEC)		r ² ws (M ²)					
METHOD OF PUMPING							
SUCTION/AIR OUTLET SET AT						MBG	
APPARENT QUALITY OF WATER							
WATER ANALYSIS P		C		B			
WATER TEMPERATURE °C		DATE, WRITTEN BY <i>MJJ 1/9-81</i>					

BOREHOLE COMPLETION RECORD

LOCATION: <i>Mbeya Reg., Mbeya District, Luhanga</i>		BH NO. <i>208/81</i> CCKK NO. <i>MS 23</i>	
COORDINATES: <i>8°35.9'S, 33°52.5'E</i> ELEVATION: <i>m.asl</i>		MAP NO. <i>205 245</i>	
COMPLETION DATE: <i>4.9.1981</i> DRILL. METHOD: <i>Auger</i>			
DRILLER/ORGANIZATION:		DRILL UNIT NO.	
CLIENT:			
CONSTRUCTION DETAILS		FORMATION DESCRIPTION DATE	
DRILLED DEPTH <i>30.5</i> M	COMPL. DEPTH <i>30.0</i> M	SYMBOL	DESCRIPTION
DRILLED DIAM. <i>168</i> MM	FROM <i>0</i> TO <i>30.5</i>		
DETAILS OF CASING LEFT IN BOREHOLE		DEPTH M	
INTERNAL DIAM. <i>102</i> MM	PLAN FROM <i>0</i> TO <i>12.8</i> PERFORATED FROM <i>12.8</i> TO <i>30.0</i>		
SCREENING		AQUIFER	
INTERNAL DIAM. <i>MM</i>	SLOT SIZE FROM <i>MM</i> TO <i>MM</i>		
GRAVEL PACK <i>WATER</i>	FROM <i>18,3</i> TO <i>24,4</i>	REMARKS	
WATER STRUCK	STANDING WATER LEVEL <i>20,1</i>		
TEST YIELD <i>3.6</i> M ³ /HR	MAX <i>1.0</i> STEADY <i>1.0</i>		
MAXIMUM DRAWD. <i>3.6</i> M	DURATION TEST <i>105</i> MIN		
T (M ² /SEC) <i>8.1 x 10⁻⁵</i>	r ² ws (M ²) <i>-</i>		
METHOD OF PUMPING <i>Submersible pump</i>			
SUCTION/AIR OUTLET SET AT <i>MBG</i>			
APPARENT QUALITY OF WATER <i>good</i>			
WATER ANALYSIS	P <i>+</i> C <i>+</i> B <i>-</i>		
WATER TEMPERATURE <i>°C</i>	DATE, WRITTEN BY <i>MJJ 1/9-81</i>		

BOREHOLE COMPLETION RECORD

LOCATION: <i>Mbeya Reg., Mbeya District, UKwaheri</i>				BH NO. <i>209/81</i> CCKK NO. <i>MS 24</i>	
COORDINATES: <i>8°37.3'S, 33°54.1'E</i> ELEVATION: m.asl				MAP NO.	
COMPLETION DATE: <i>24.8.1981</i> DRILL. METHOD: <i>Auger</i>				<i>205 245</i>	
DRILLER/ORGANIZATION:			DRILL UNIT NO.		
CLIENT:					
FORMATION BY		DESCRIPTION DATE			
<i>1s</i>		<i>light cream, fine grained silt and sand of quartz and mineral fragments.</i>			
<i>I</i>		<i>Dark grey silt.</i>			
<i>Ic</i>		<i>Blackish grey clayey silt.</i>			
<i>S</i>		<i>Off white, very light grey calcareous ? sand (fine grained).</i>			
<i>S</i>		<i>Off white, very light grey calcareous sand (medium, fine grained).</i>			
<i>S</i>		<i>Off white, very light grey calcareous sand (medium, fine grained) with some clay material.</i>			
DEPTH M	SYM-BOL	AQUIFER			
<i>1,5</i>	<i>1s</i>	AQUIFER			
<i>3,0</i>	<i>I</i>	AQUIFER			
<i>4,6</i>	<i>Ic</i>	AQUIFER			
<i>7,6</i>	<i>S</i>	AQUIFER			
<i>15,2</i>	<i>S</i>	AQUIFER			
<i>18,3</i>	<i>S</i>	AQUIFER			
REMARKS					
CONSTRUCTION DETAILS					
DRILLED DEPTH 30.5 M	COMPL. DEPTH 30.5 M	FROM	TO		
DRILLED DIAM. 168		0	30.5		
DETAILS OF CASING LEFT IN BOREHOLE					
INTERNAL DIAM. CLASS	MM	PLAN FROM	TO	PERFORATED FROM	TO
<i>102</i>		0	18.3	18.3	30.5
SCREENING					
INTERNAL DIAM. TYPE	MM	SLOT SIZE	FROM	TO	
GRAVEL PACK	MM	FROM	M	TO	M
WATER					
WATER STRUCK		<i>19,8</i>			MBG
STANDING WATER LEVEL		<i>11,6</i>			MBG
TEST YIELD M ³ /HR	MAX	<i>1.5</i>	STEADY	<i>1.2</i>	
MAXIMUM DRAWD. 14	M		DURATION TEST	<i>35</i>	MIN
T (M ² /SEC)	<i>6.5 × 10⁻⁶</i>		r ² ws (M ²)	<i>2.0 × 10⁻³</i>	
METHOD OF PUMPING <i>submersible pump</i>					
SUCTION/AIR OUTLET SET AT					MBG
APPARENT QUALITY OF WATER <i>good</i>					
WATER ANALYSIS	P	⊕	C	⊕	B ⊖
WATER TEMPERATURE	°C		DATE,	WRITTEN BY	<i>MJJ 1/9-81</i>

BOREHOLE COMPLETION RECORD

Continued

LOCATION:		BH NO. 209/81 CCKK NO. 4624	
COORDINATES:		ELEVATION: m.asl	MAP NO.
COMPLETION DATE:		DRILL. METHOD:	QDS 245
DRILLER/ORGANIZATION:		DRILL UNIT NO.	
CLIENT:			
FORMATION BY	DESCRIPTION	DEPTH M	SYM-BOL
	<i>Light grey mud with some sand.</i>	21,3	Cs
	<i>Light grey mud and clay with dark brown lignitic peaky material.</i>	24,4	C
	<i>Greenish grey clay with large calcareous nodules and calcareous bands.</i>	30,5	C
CONSTRUCTION DETAILS		AQUIFER	
DRILLED DEPTH M	COMPL. DEPTH M	REMARKS	
DRILLED DIAM. MM	FROM TO		
DETAILS OF CASING LEFT IN BOREHOLE			
INTERNAL DIAM. MM	PLAN FROM TO	PERFORATED FROM TO	
CLASS			
SCREENING			
INTERNAL DIAM. MM	SLOT SIZE	FROM TO	
GRAVEL PACK MM	FROM M TO M		
WATER			
WATER STRUCK			MBG
STANDING WATER LEVEL			MBG
TEST YIELD M ³ /HR MAX	STEADY		
MAXIMUM DRAWD. M	DURATION TEST MIN		
T (M ² /SEC)	r ² ws (M ²)		
METHOD OF PUMPING			
SUCTION/AIR OUTLET SET AT			MBG
APPARENT QUALITY OF WATER			
WATER ANALYSIS	P	C	B
WATER TEMPERATURE	°C	DATE, WRITTEN BY	

BOREHOLE COMPLETION RECORD

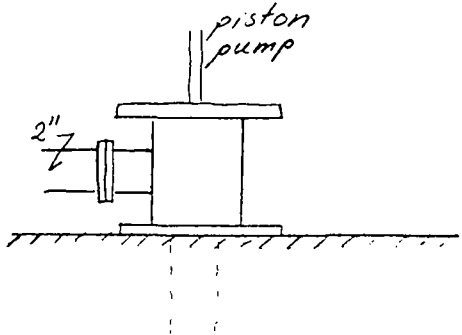
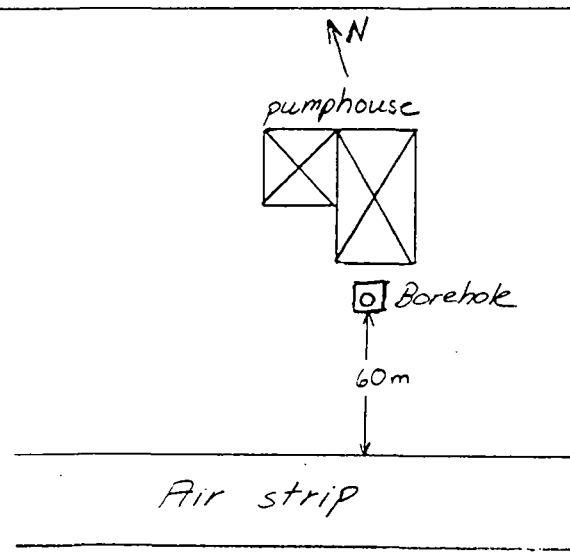
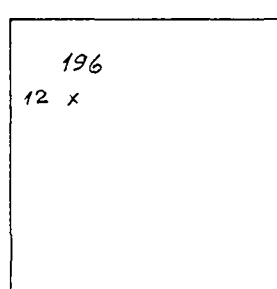
LOCATION: <i>Mbeya Reg., Mbozi District, Vwawa</i>		BH NO. <i>276/81</i> CCKK NO. <i>MD 1</i>	
COORDINATES: <i>9° 4.7'S, 32° 56.0'E</i> ELEVATION: <i>m.asl</i>		MAP NO.	
COMPLETION DATE: <i>10.5.1981</i> DRILL. METHOD: <i>Mud rotary</i>		<i>805 257</i>	
DRILLER/ORGANIZATION:		DRILL UNIT NO.	
CLIENT:			
CONSTRUCTION DETAILS		DEPTH M	SYMBOL
DRILLED DEPTH <i>45.7</i> M	COMPL. DEPTH M	<i>15.2</i>	<i>IS</i>
DRILLED DIAM. <i>152</i> MM	FROM TO <i>0 39.6</i>	<i>29.0</i>	<i>Pw</i>
DETAILS OF CASING LEFT IN BOREHOLE		<i>39.6</i>	<i>Pw</i>
INTERNAL DIAM. <i>102</i> MM	PLAN FROM TO	<i>45.7</i>	<i>Pw</i>
CLASS	PERFORATED FROM TO	FORMATION DESCRIPTION DATE	
SCREENING		<i>Light grey, grained silty sandy alluvium.</i>	
INTERNAL DIAM. MM	SLOT SIZE FROM TO	<i>Completely weathered gneiss, red brown clayey.</i>	
TYPE		<i>Light grey, very weathered red gneiss.</i>	
GRAVEL PACK MM	FROM M TO M	<i>Greenish grey, grained weathered gneiss with garnet and biotite.</i>	
WATER		AQUIFER	
WATER STRUCK	<i>24.4</i> MBG	REMARKS	
STANDING WATER LEVEL	<i>6.1</i> MBG		
TEST YIELD M ³ /HR MAX	<i>4.35</i> STEADY <i>0.65</i>		
MAXIMUM DRAWD. <i>23</i> M	DURATION TEST <i>80</i> MIN		
T (M ² /SEC) <i>3.9 x 10⁻⁶</i>	r ² ws (M ²) <i>4.3 x 10⁻²</i>		
METHOD OF PUMPING <i>submersible pump</i>			
SUCTION/AIR OUTLET SET AT MBG			
APPARENT QUALITY OF WATER <i>muddy</i>			
WATER ANALYSIS P (+) C (+) B (-)			
WATER TEMPERATURE °C	DATE, WRITTEN BY <i>MLJ 1/9-81</i>		

Appendix 2

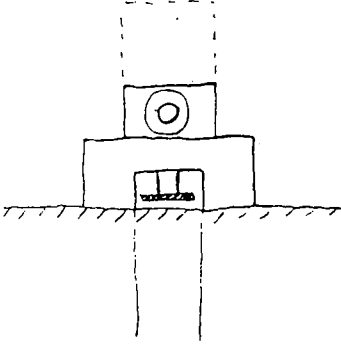
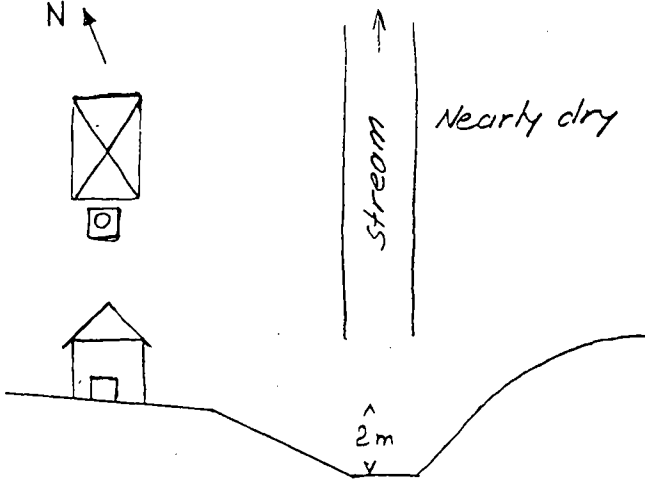
Borehole location records.

IRINGA

BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Iringa, Distr: Iringa</i> <i>Vil: Nduli Airfield</i>		BH NO. <i>22/55</i>	
		CCKK NO.	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>10/7 1955</i>	GROUND ELEV. MASL	
CASING DIA. MM	<i>203</i>	MEASUR. POINT $\frac{a}{b}$	
TYPE OF SCREEN DIAMETER, MM	<i>None</i>	MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M	<i>96</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG		SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>46.6</i>		
STEADY YIELD, M ³ /HR	<i>1.6</i>		
DRAWDOWN, M	<i>Piston pump</i>		
METHOD OF PUMPING			
WATER ANALYSIS	P. <i>(C)</i> B.		
REMARKS	<p style="text-align: center;"> <i>Salinity: 560 ppm</i> <i>Not possible to measure water level</i> </p>		
SKETCH OF WELL SITE		WELL POINT	
		MAP NO.: <i>215/II</i>	
		SCALE: <i>1:50000</i>	
		DISTANCE FROM EDGE OF MAP (MM)	
			
		LOCATED DATE: <i>12/11 - 1980</i>	
		BY: <i>JWL</i>	

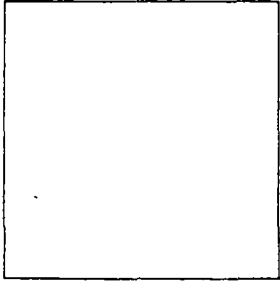
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Iringa, Distr: Iringa</i> <i>Vil: Ismani</i>		BH NO. <i>24/55</i>
		CCKK NO.
DATA COLLECTED	FROM WELL LOG	ON SITE
COMPLETION DATE <i>10/8 1955</i>		GROUND ELEV. MASL
CASING DIA. MM	<i>203</i>	MEASUR. POINT $M_{\frac{a}{b}}^G$
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL
		WATER LEVEL, MBG
DRILLED DEPTH, M	<i>60.9</i>	WATER LEVEL, MASL
STAND. WATER LEVEL, MBG	<i>3.7</i>	<div style="text-align: center;">  </div>
WATER STRUCK, MBG	<i>4.6, 8.5, 54.8</i>	
STEADY YIELD, M ³ /HR	<i>6.5</i>	
DRAWDOWN, M	<i>48.2</i>	
METHOD OF PUMPING		
WATER ANALYSIS	P. <i>(C)</i> B.	
REMARKS	<p align="center"><i>Borehole filled up</i> <i>Pump removed</i></p>	
SKETCH OF WELL SITE	WELL POINT	
<div style="text-align: center;">  </div>	MAP NO.: <i>Q.DS 197</i>	
		SCALE: <i>1:125000</i>
	DISTANCE FROM EDGE OF MAP (MM)	
	<div style="border: 1px solid black; width: 150px; height: 100px; margin: 0 auto; display: flex; flex-direction: column; justify-content: center; align-items: center;"> <i>399.8</i> <i>x 164</i> </div>	
	LOCATED DATE: <i>16/11 1980</i>	
	BY: <i>JLW</i>	

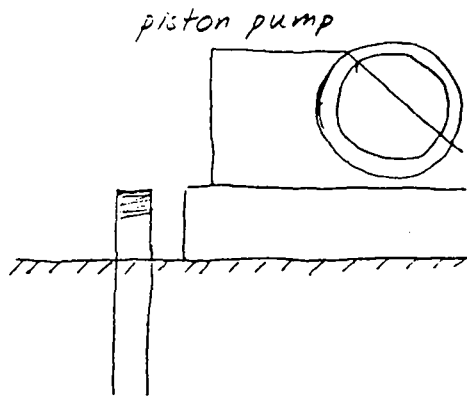
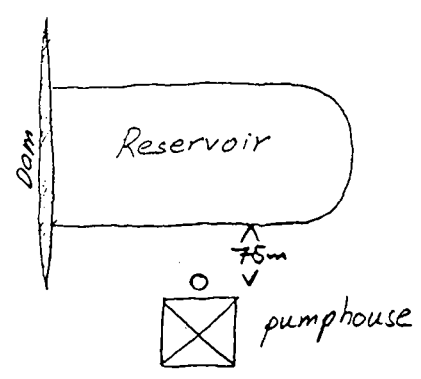
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Iringa, Distr: Njombe</i> <i>Vil: Ilembula</i>		BH NO. <i>5158</i>
		CCKK NO.
DATA COLLECTED	FROM WELL LOG	ON SITE
COMPLETION DATE	<i>18/10 1958</i>	GROUND ELEV. MASL
CASING DIA. MM	<i>203</i>	MEASUR. POINT $M_{\frac{a}{b}}^c$
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL
		WATER LEVEL, MBG
DRILLED DEPTH, M	<i>17.4</i>	WATER LEVEL, MASL
STAND. WATER LEVEL, MBG	<i>6.1</i>	SKETCH OF WELL TOP/MP
WATER STRUCK, MBG	<i>1.0</i>	
STEADY YIELD, M ³ /HR	<i>6.8</i>	
DRAWDOWN, M		
METHOD OF PUMPING	<i>Piston Pump, Climax N°3</i>	
WATER ANALYSIS	<i>P. C+ B.</i>	
REMARKS	<p align="center"><i>Not possible to measure water level</i></p>	
SKETCH OF WELL SITE		WELL POINT
<p><i>River Halali</i> < 30m > \square < 300m > <i>Hospital</i></p> <p align="center"><i>pumphouse w. borehole</i></p>		<p>MAP NO.: <i>247/III</i> SCALE: <i>1:50,000</i></p> <p>DISTANCE FROM EDGE OF MAP (MM)</p> <div style="border: 1px solid black; width: 150px; height: 150px; margin: 10px auto; text-align: center;"> <p><i>320</i></p> <p><i>150 x</i></p> </div>
		LOCATED DATE: <i>2/12 - 1980</i>
		BY: <i>JLW</i>

BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Iringa, Distr: Iringa</i>		BH NO.	<i>39+40/23</i>
<i>Vil: Mbigili</i>		CCKK NO.	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE		GROUND ELEV. MASL	
CASING DIA. MM		MEASUR. POINT $M \frac{a}{b} G$	
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M		WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG		SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG			
STEADY YIELD, M ³ /HR			
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	P. C. B.		
REMARKS	<p align="center"><i>Has never been drilled</i></p>		
SKETCH OF WELL SITE	WELL POINT		
	MAP NO.:		
	SCALE:		
	DISTANCE FROM EDGE OF MAP (MM)		
			
	LOCATED DATE: <i>2/11-1980</i>		
	BY: <i>JLW</i>		

BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Iringa, Distr: Njombe</i> <i>Distr: Wanging'ombe</i>		BH NO. <i>49/68</i>	
		CCKK NO.	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE		GROUND ELEV. MASL	
CASING DIA. MM		MEASUR. POINT $M \frac{a}{b} G$	
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M	<i>150</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>5</i>	SKETCH OF WELL TOP/MP 	
WATER STRUCK, MBG	<i>16, 107</i>		
STEADY YIELD, M ³ /HR	<i>4.7</i>		
DRAWDOWN, M			
METHOD OF PUMPING	<i>piston pump, CEH# 47x24</i>		
WATER ANALYSIS	P. <i>(C)</i> B.		
REMARKS	<p align="center"><i>Not possible to measure water level</i></p>		
SKETCH OF WELL SITE	WELL POINT MAP NO.: <i>247/III</i> SCALE: <i>1:50,000</i> DISTANCE FROM EDGE OF MAP (MM) <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> 21 289 x </div>		
			
		LOCATED DATE: <i>3/12 1980</i>	
		BY: <i>JLW</i>	

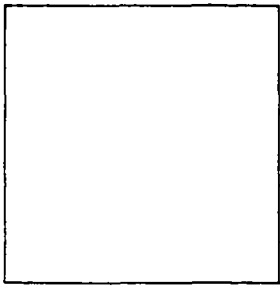
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Iringa, Distr: Ludewa</i> <i>Vil: Mapinduzi</i>		BH NO.	<i>147/72</i>
		CCKK NO.	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE		GROUND ELEV. MASL	
CASING DIA. MM	<i>254</i>	MEASUR. POINT $M_{\frac{a}{b}}G$	
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M	<i>16.2</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>2.4</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG			
STEADY YIELD, M ³ /HR	<i>2.7</i>		
DRAWDOWN, M	<i>2.4</i>		
METHOD OF PUMPING			
WATER ANALYSIS	P. C. B.		
REMARKS	<p align="center"><i>Could not be located</i></p>		
SKETCH OF WELL SITE	<p>WELL POINT</p> <p>MAP NO.:</p> <p>SCALE:</p> <p>DISTANCE FROM EDGE OF MAP (MM)</p> <div align="center" style="border: 1px solid black; width: 150px; height: 100px; margin: 20px auto;"></div>		
	<p>LOCATED DATE: <i>5/12 1980</i></p> <p>BY: <i>JLW</i></p>		

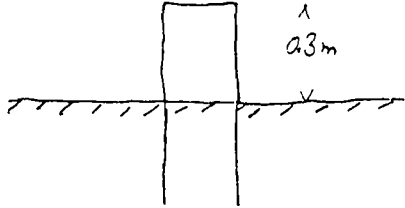
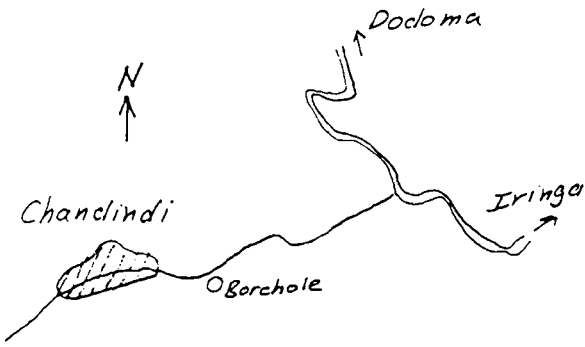
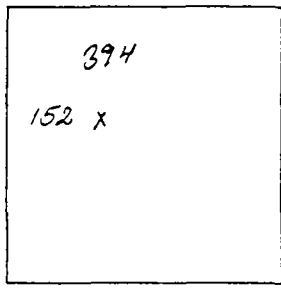
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Fringa Distr: Mufindi</i>		BH NO.	<i>5/74</i>
Vil: <i>Igowole</i>		CCKK NO.	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>14/2 -1974</i>	GROUND ELEV. MASL	
CASING DIA. MM	<i>152</i>	MEASUR. POINT MBG	<i>0.6</i>
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	<i>0.6</i>
DRILLED DEPTH, M	<i>18.3</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>0.5</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>6.6</i>		
STEADY YIELD, M ³ /HR	<i>4.1</i>		
DRAWDOWN, M	<i>18.3</i>		
METHOD OF PUMPING			
WATER ANALYSIS	P. <u>(C)</u> B.		
REMARKS	<p><i>Located in the bottom of deep valley.</i></p> <p><i>Same water level in nearby pools, hand dug wells and borehole</i></p>		
SKETCH OF WELL SITE	WELL POINT		
	MAP NO.: <i>248/I</i> SCALE: <i>1:50,000</i>		
	DISTANCE FROM EDGE OF MAP (MM)		
LOCATED DATE: <i>20/11 1980</i>			
BY: <i>JLW</i>			

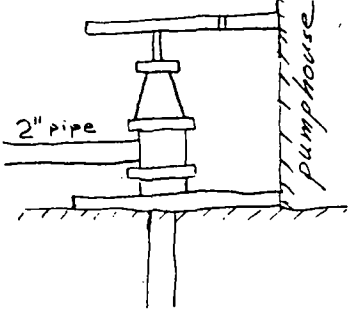
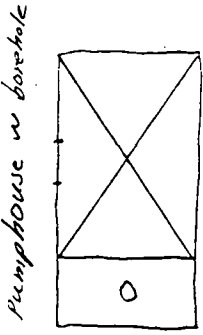
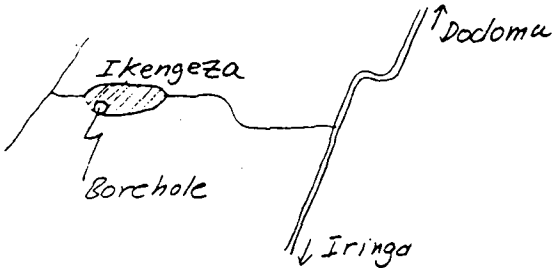
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Iringa, Distr: Ludewa</i>		BH NO.	<i>85/74</i>
<i>Vil: Negelenge</i>		CCKK NO.	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>24/5 1974</i>	GROUND ELEV. MASL	
CASING DIA. MM		MEASUR. POINT $M \frac{a}{b} G$	
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M	<i>14.9</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>1.8</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>6.1</i>		
STEADY YIELD, M ³ /HR	<i>2.3</i>		
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	P. <u>(C)</u> B.		
REMARKS	<p align="center"><i>Could not be located</i></p>		
SKETCH OF WELL SITE	WELL POINT		
	MAP NO.:		
	SCALE:		
	DISTANCE FROM EDGE OF MAP (MM)		
			
LOCATED DATE: <i>4/12-1980</i>			
BY: <i>JLW</i>			

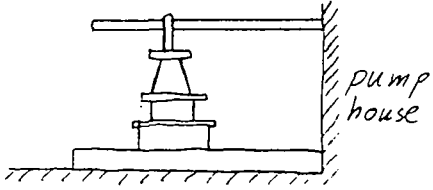
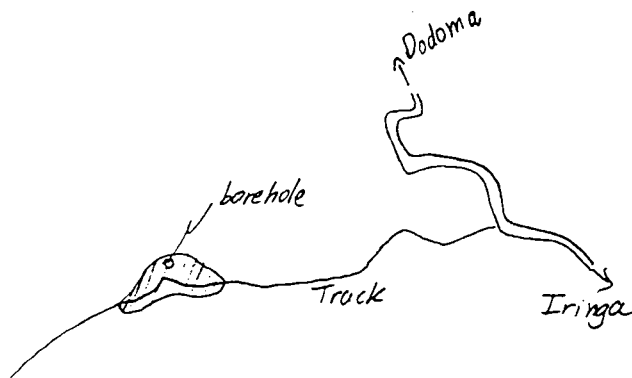
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Iringa, Distr: Iringa</i> <i>Vi: Chandindi</i>		BH NO.	<i>13/76</i>
		CCKK NO.	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>4/2 1976</i>	GROUND ELEV. MASL	
CASING DIA. MM	<i>203</i>	MEASUR. POINT $M_{\frac{a}{b}}G$	
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M	<i>130.3</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>63.6</i>	SKETCH OF WELL TOP/MP 	
WATER STRUCK, MBG	<i>55</i>		
STEADY YIELD, M ³ /HR	<i>0.68</i>		
DRAWDOWN, M	<i>14.0</i>		
METHOD OF PUMPING			
WATER ANALYSIS	P. C. B.		
REMARKS	<i>Borehole filled up.</i>		
SKETCH OF WELL SITE	WELL POINT		
	MAP NO.: <i>QDS 197</i> SCALE: <i>1:125,000</i>		
	DISTANCE FROM EDGE OF MAP (MM)		
			
		LOCATED DATE: <i>14/11-1980</i>	
		BY: <i>JLW</i>	

BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Iringa, Distr Iringa</i> <i>Vil: Ikengeza</i>		BH NO. <i>14/76</i>
		CCKK NO.
DATA COLLECTED	FROM WELL LOG	ON SITE
COMPLETION DATE	<i>19/2 1976</i>	GROUND ELEV. MASL
CASING DIA. MM	<i>203</i>	MEASUR. POINT $M_{\frac{a}{b}}^G$
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL
		WATER LEVEL, MBG
DRILLED DEPTH, M	<i>91.4</i>	WATER LEVEL, MASL
STAND. WATER LEVEL, MBG	<i>21.3</i>	SKETCH OF WELL TOP/MP
WATER STRUCK, MBG	<i>24.4</i>	
STEADY YIELD, M ³ /HR	<i>5.9</i>	
DRAWDOWN, M	<i>24.4</i>	
METHOD OF PUMPING	<i>Mono lift borehole pump BMK1</i>	
WATER ANALYSIS	P. (C) B.	
REMARKS	<p align="center"><i>Not possible to measure water level</i></p>	
SKETCH OF WELL SITE	WELL POINT	
		MAP NO.: <i>QDS 197</i> SCALE: <i>1:125,000</i>
		DISTANCE FROM EDGE OF MAP (MM)
		LOCATED DATE: <i>12/11 1980</i>
		BY: <i>JLW</i>

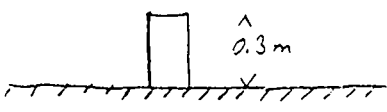
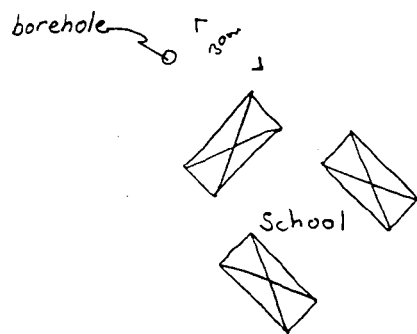
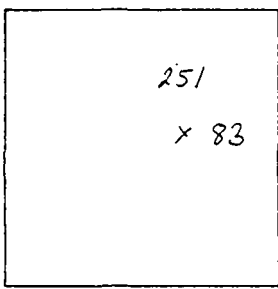
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Iringa, Distr Iringa</i> <i>Vil: Chandiheli</i>		BH NO. <i>29/76</i>	
		CCKK NO.	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>10/2 1976</i>	GROUND ELEV. MASL	
CASING DIA. MM	<i>203</i>	MEASUR. POINT $M_{\frac{a}{b}}G$	
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M	<i>90</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>45.7</i>		
WATER STRUCK, MBG	<i>57.5</i>		
STEADY YIELD, M ³ /HR	<i>4.54</i>		
DRAWDOWN, M	<i>21.3</i>		
METHOD OF PUMPING	<i>Handlift borehole pump BMK ±</i>		
WATER ANALYSIS	P. C. B.		
REMARKS	<p><i>Not possible to measure water level</i></p>		
SKETCH OF WELL SITE	WELL POINT		
	MAP NO.: <i>QDS 197</i>		
	SCALE: <i>1:125,000</i>		
	DISTANCE FROM EDGE OF MAP (MM)		
	<div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p><i>386</i></p> <p><i>185 x</i></p> </div>		
	LOCATED DATE: <i>14/11 1980</i>		
	BY: <i>JLW</i>		

BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Iringa, Distr: Njombe</i>		BH NO.	<i>53/76</i>
<i>Vil. Palangawano</i>		CCKK NO.	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>11/8 1976</i>	GROUND ELEV. MASL	
CASING DIA. MM		MEASUR. POINT $M \frac{a}{b}$	
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M	<i>111.1</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG		SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>4.6</i>		
STEADY YIELD, M ³ /HR			
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	<i>P. C. & B.</i>		
REMARKS	<p><i>Borehole collapsed.</i></p> <p><i>Casing withdrawn</i></p>		
SKETCH OF WELL SITE	WELL POINT		
	MAP NO.: <i>DOS 197</i> SCALE: <i>1:125.000</i>		
	DISTANCE FROM EDGE OF MAP (MM)		
	LOCATED DATE: <i>17/12 1980</i>		
	BY: <i>JLW</i>		

BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Iringa, Distr: Njombe</i> <i>Vil: Uhambule</i>		BH NO.	<i>54/76</i>
		CCKK NO.	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>26/6 1976</i>	GROUND ELEV. MASL	
CASING DIA. MM	<i>203</i>	MEASUR. POINT $\frac{a}{b}$ MBG	<i>0.3</i>
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	<i>6.72</i>
DRILLED DEPTH, M	<i>140.2</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>6.5</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>4.5, 32, 112</i>		
STEADY YIELD, M ³ /HR	<i>1.2</i>		
DRAWDOWN, M	<i>99</i>		
METHOD OF PUMPING			
WATER ANALYSIS	P. <i>(C.)</i> B.		
REMARKS			
SKETCH OF WELL SITE		WELL POINT	
		MAP NO.:	<i>247/III</i>
		SCALE:	<i>1:50,000</i>
		DISTANCE FROM EDGE OF MAP (MM)	
			
		LOCATED DATE: <i>3/12 1980</i>	
		BY: <i>JLW</i>	

BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Iringa Distr: Njombe</i> <i>Vil: Iyayi</i>		BH NO.	<i>55/76</i>
		CCKK NO.	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>12/3 1976</i>	GROUND ELEV. MASL	
CASING DIA. MM	<i>203</i>	MEASUR. POINT M ^a _b G	
TYPE OF SCREEN DIAMETER, MM	<i>Slotted PVC</i> <i>203</i>	MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M	<i>91.4</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>3.0</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>9, 32, 82</i>		
STEADY YIELD, M ³ /HR	<i>9.8</i>		
DRAWDOWN, M	<i>19.8</i>		
METHOD OF PUMPING			
WATER ANALYSIS	P. <i>(C)</i> B.		
REMARKS	<p align="center"><i>Borehole filled up.</i></p>		
SKETCH OF WELL SITE	WELL POINT		
	MAP NO.: <i>247/III</i> SCALE: <i>1:50,000</i> DISTANCE FROM EDGE OF MAP (MM)		
	LOCATED DATE: <i>3/12 1980</i>		
	BY: <i>JLW</i>		

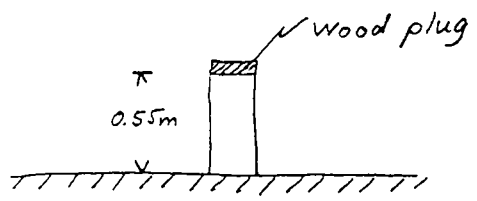
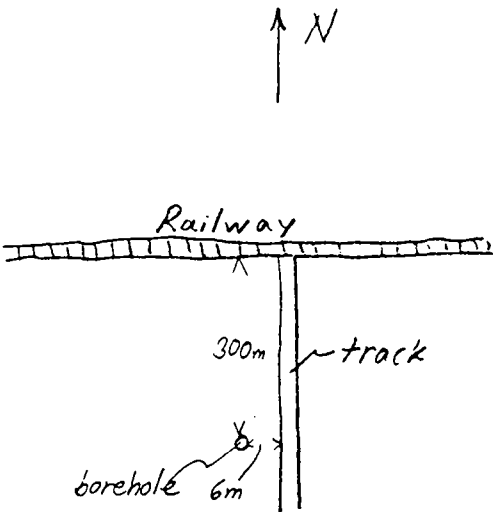
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Iringa Distr: Njombe</i> <i>Vil: Ujindile</i>		BH NO.	<i>67/76</i>
		CCKK NO.	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>20/3 1976</i>	GROUND ELEV. MASL	
CASING DIA. MM	<i>203</i>	MEASUR. POINT $M \frac{a}{b} G$	
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M	<i>25.3</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>6.7</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>15, 36, 73</i>		
STEADY YIELD, M ³ /HR	<i>6.1</i>		
DRAWDOWN, M	<i>22.2</i>		
METHOD OF PUMPING			
WATER ANALYSIS	P. <i>(C)</i> B.		
REMARKS	<p><i>Wood plug not removeable</i></p>		
SKETCH OF WELL SITE	WELL POINT		
	MAP NO.: <i>247/III</i> SCALE: <i>1:50,000</i> DISTANCE FROM EDGE OF MAP (MM)		
	LOCATED DATE: <i>3/12 1980</i>		
	BY: <i>JLW</i>		

BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Iringa, Distr: Njombe</i> <i>Vil: Ikingula</i>		BH NO.	<i>70/76</i>
		CCKK NO.	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>22/5 1976</i>	GROUND ELEV. MASL	
CASING DIA. MM	<i>203</i>	MEASUR. POINT $M \frac{a}{b} G$	
TYPE OF SCREEN DIAMETER, MM	<i>Slotted casing</i> <i>203</i>	MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M	<i>57.9</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>3.0</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>18, 58?</i>		
STEADY YIELD, M ³ /HR	<i>7.5</i>		
DRAWDOWN, M	<i>17.4</i>		
METHOD OF PUMPING			
WATER ANALYSIS	<i>P. C. B.</i>		
REMARKS	<p align="center"><i>Borehole filled up.</i></p>		
SKETCH OF WELL SITE		WELL POINT	
		MAP NO.:	<i>247/III</i>
		SCALE:	<i>1:50,000</i>
		DISTANCE FROM EDGE OF MAP (MM)	
		LOCATED DATE:	<i>3/12 1980</i>
		BY:	<i>JLW</i>

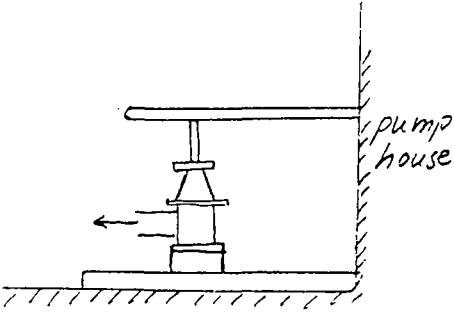
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Iringa, Distr: Njombe</i> <i>Vil: Utiga</i>		BH NO. <i>71/76</i>
		CCKK NO.
DATA COLLECTED	FROM WELL LOG	ON SITE
COMPLETION DATE	<i>17/4 1976</i>	GROUND ELEV. MASL
CASING DIA. MM	<i>203/152</i>	MEASUR. POINT $M_{\frac{a}{b}}^G$
TYPE OF SCREEN	<i>PVC Slotted</i>	MP ELEVATION, MASL
DIAMETER, MM	<i>203</i>	WATER LEVEL, MBG
DRILLED DEPTH, M	<i>155.4</i>	WATER LEVEL, MASL
STAND. WATER LEVEL, MBG	<i>4.6</i>	<div style="text-align: center;">  <p style="margin: 0;">wood plug</p> <p style="margin: 0;">0.55m</p> </div>
WATER STRUCK, MBG	<i>4.6, 129</i>	
STEADY YIELD, M ³ /HR	<i>0.7</i>	
DRAWDOWN, M	<i>138.5</i>	
METHOD OF PUMPING		
WATER ANALYSIS	P. <i>(C)</i> B.	
REMARKS	<p style="font-size: 1.2em; text-align: center;"><i>Impossible to remove plug</i></p>	
SKETCH OF WELL SITE	WELL POINT	
<div style="text-align: center;">  <p style="margin: 5px 0;">Railway</p> <p style="margin: 5px 0;">300m track</p> <p style="margin: 5px 0;">borehole 6m</p> <p style="margin: 5px 0;">N</p> </div>	<p>MAP NO.: <i>247/III</i></p> <p>SCALE: <i>1:50,000</i></p> <p>DISTANCE FROM EDGE OF MAP (MM)</p> <div style="border: 1px solid black; padding: 10px; margin: 10px auto; width: 150px; text-align: center;"> <p><i>138</i></p> <p><i>334 x</i></p> </div>	
	LOCATED DATE: <i>3/12 1980</i>	
	BY: <i>JLW</i>	

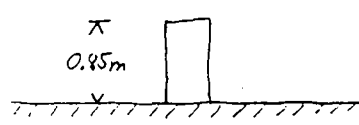
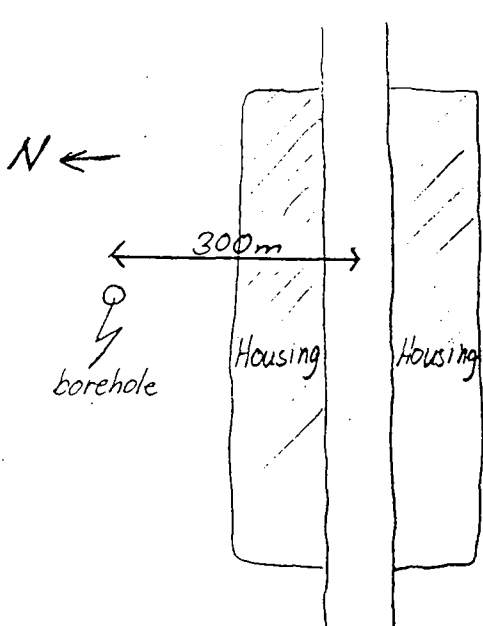
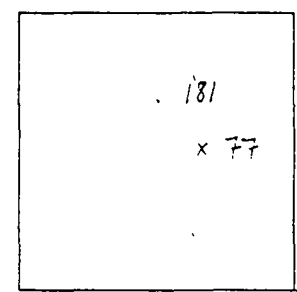
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Iringa Distr: Njombe</i> <i>Vil: Mayale</i>		BH NO.	<i>72/76</i>
		CCKK NO.	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>24/8 1976</i>	GROUND ELEV. MASL	
CASING DIA. MM	<i>203</i>	MEASUR. POINT $M_{\frac{a}{b}}G$	
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M	<i>100</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>9.0</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>30</i>		
STEADY YIELD, M ³ /HR	<i>1.8</i>		
DRAWDOWN, M	<i>73.1</i>		
METHOD OF PUMPING			
WATER ANALYSIS	P. C. B.		
REMARKS	<p><i>Borehole filled up</i></p>		
SKETCH OF WELL SITE	<p>WELL POINT</p> <p>MAP NO.: <i>247/III</i> SCALE: <i>1:50,000</i></p> <p>DISTANCE FROM EDGE OF MAP (MM)</p> <div style="border: 1px solid black; width: 150px; height: 100px; margin: 20px auto; padding: 5px;"> <p align="center"><i>147</i></p> <p><i>51 x</i></p> </div>		
		LOCATED DATE: <i>3/12 1980</i>	
		BY: <i>JLW</i>	

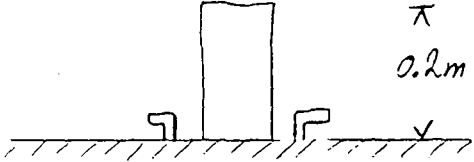
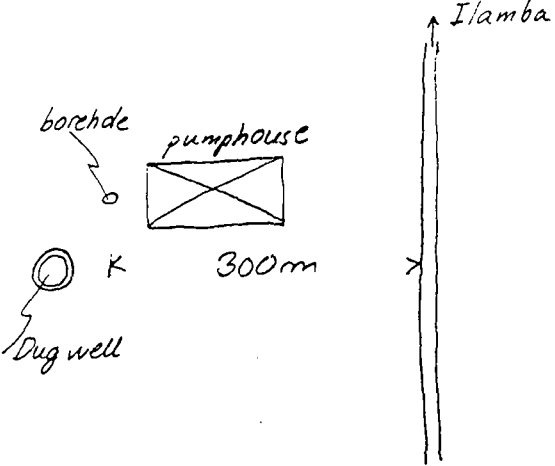
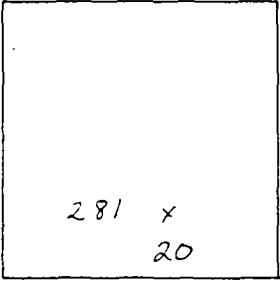
BOREHOLE LOCATION RECORD

LOCATION: Reg: <i>Iringa</i> , Distr: <i>Iringa</i> Vil: <i>Ikuku</i>		BH NO. <i>148176</i>
		CCKK NO.
DATA COLLECTED	FROM WELL LOG	ON SITE
COMPLETION DATE		GROUND ELEV. MASL
CASING DIA. MM		MEASUR. POINT $M_{\frac{a}{b}}^c$
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL
		WATER LEVEL, MBG
DRILLED DEPTH, M		WATER LEVEL, MASL
STAND. WATER LEVEL, MBG		SKETCH OF WELL TOP/MP
WATER STRUCK, MBG		
STEADY YIELD, M ³ /HR		
DRAWDOWN, M		
METHOD OF PUMPING	<i>Monohit borehole pump</i> <i>BMK 1</i>	
WATER ANALYSIS	P. <i>(C)</i> B.	
REMARKS	<p align="center"><i>Impossible to measure water level</i></p>	
SKETCH OF WELL SITE	WELL POINT	
	MAP NO.: <i>QDS 197</i> SCALE: <i>1:125,000</i>	
	DISTANCE FROM EDGE OF MAP (MM)	
	<div style="border: 1px solid black; width: 150px; height: 100px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> <i>416</i> <i>x 24</i> </div>	
	LOCATED DATE: <i>13/11 1980</i>	
	BY: <i>JLW</i>	


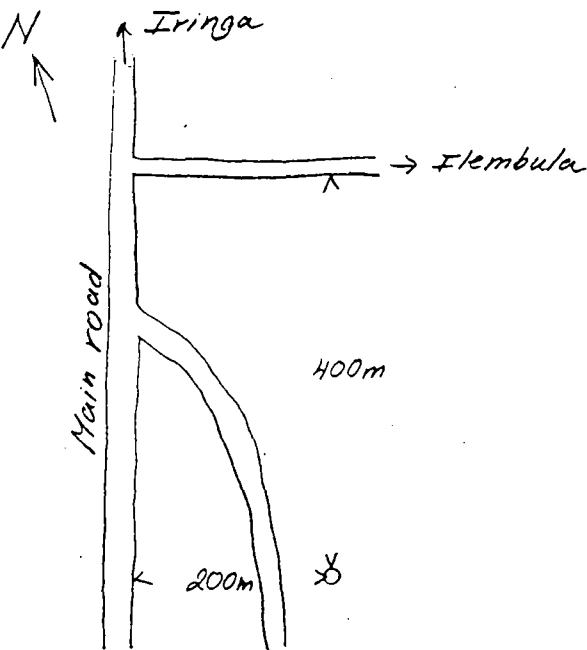
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Iringa, Distr: Mufindi</i> <i>Vil: Malangala</i>		BH NO.: <i>216/76</i>
		CCKK NO.:
DATA COLLECTED	FROM WELL LOG	ON SITE
COMPLETION DATE	<i>22/10 - 1976</i>	GROUND ELEV. MASL
CASING DIA. MM	<i>219</i>	MEASUR. POINT M ^a G <i>0.85</i>
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL
		WATER LEVEL, MBG <i>2.81</i>
DRILLED DEPTH, M	<i>94.5</i>	WATER LEVEL, MASL
STAND. WATER LEVEL, MBG	<i>1.5</i>	SKETCH OF WELL TOP/MP
WATER STRUCK, MBG	<i>18.45, 65</i>	
STEADY YIELD, M ³ /HR	<i>2.7</i>	
DRAWDOWN, M	<i>38.1</i>	
METHOD OF PUMPING		
WATER ANALYSIS	P. (C) B.	
REMARKS	<p align="center"><i>Borehole filled with stones.</i></p>	
SKETCH OF WELL SITE	WELL POINT	
	MAP NO.: <i>247/II</i> SCALE: <i>1:50,000</i>	
	DISTANCE FROM EDGE OF MAP (MM)	
		
	LOCATED DATE: <i>20/11 1980</i>	
	BY: <i>JLW</i>	

BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Iringa, Distr: Mufindi</i> <i>Vil: Ilamba (Kinegemasi)</i>		BH NO.	<i>217/76</i>
		CCKK NO.	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>29/9 1976</i>	GROUND ELEV. MASL	
CASING DIA. MM	<i>219</i>	MEASUR. POINT M _B ^A G	<i>0.2</i>
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	<i>1.43</i>
DRILLED DEPTH, M	<i>50.3</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>1.5</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>12, 15, 18, 40, 46</i>		
STEADY YIELD, M ³ /HR	<i>4.5</i>		
DRAWDOWN, M	<i>26.1</i>		
METHOD OF PUMPING	<i>No pump</i>		
WATER ANALYSIS	P. C. B.		
REMARKS			
SKETCH OF WELL SITE	WELL POINT		
	MAP NO.: <i>247/II</i>		
	SCALE: <i>1:50,000</i>		
	DISTANCE FROM EDGE OF MAP (MM)		
			
	LOCATED DATE: <i>21/11 1980</i>		
	BY: <i>JLW</i>		

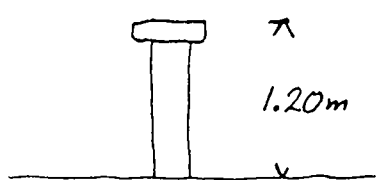
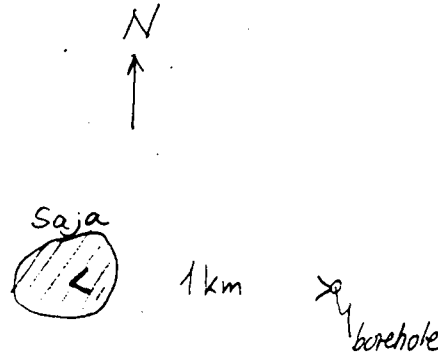
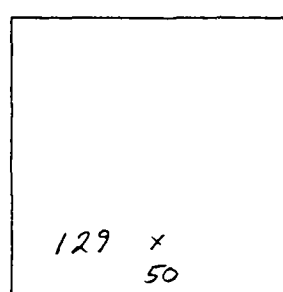
BOREHOLE LOCATION RECORD

LOCATION: - Reg: Iringa, Distr: Njombe Vil: Halali		BH NO. 226/76 CCKK NO.	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	20/3 1976	GROUND ELEV. MASL	
CASING DIA. MM	203	MEASUR. POINT M ^a / _b G	
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
DRILLED DEPTH, M	85.3	WATER LEVEL, MBG	
STAND. WATER LEVEL, MBG	6.7	WATER LEVEL, MASL	
WATER STRUCK, MBG	56, 73	SKETCH OF WELL TOP/MP	
STEADY YIELD, M ³ /HR	6.1		
DRAWDOWN, M	22.2		
METHOD OF PUMPING			
WATER ANALYSIS	P. C. B.		
REMARKS	Borehole filled up.		
SKETCH OF WELL SITE		WELL POINT	
		MAP NO.: 247/III SCALE: 1:50,000 DISTANCE FROM EDGE OF MAP (MM) <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: 0 auto;"> 273 41 x </div>	
		LOCATED DATE: 3/12 1980 BY: JLLW	

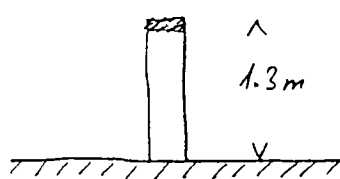
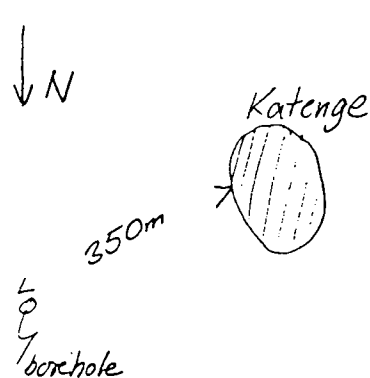
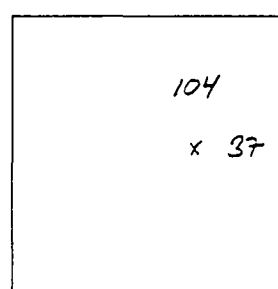
BOREHOLE LOCATION RECORD

LOCATION: Reg: Iringa, Distr Njombe Vil: Idofi		BH NO.	247/76
		CCKK NO.	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	15/11 1976	GROUND ELEV. MASL	
CASING DIA. MM	203	MEASUR. POINT M _B ^a G	0.82
TYPE OF SCREEN DIAMETER, MM	Galvanised	MP ELEVATION, MASL	
		WATER LEVEL, MBG	0.45
DRILLED DEPTH, M	48.7	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	0.3	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	18.30		
STEADY YIELD, M ³ /HR	7.7		
DRAWDOWN, M	11.9		
METHOD OF PUMPING	No pump		
WATER ANALYSIS	P. C. B.		
REMARKS	Pumphouse not finished		
SKETCH OF WELL SITE		WELL POINT	
		MAP NO.: 247/IV SCALE: 1:50,000	
		DISTANCE FROM EDGE OF MAP (MM)	
		LOCATED DATE: 21/11 1980	
		BY: JLV	

BOREHOLE LOCATION RECORD

LOCATION: Reg: Iringa, Distr: Mufindi Vil: Saja		BH NO.	265/76		
		CCKK NO.			
DATA COLLECTED	FROM WELL LOG	ON SITE			
COMPLETION DATE	24/11 - 1976	GROUND ELEV. MASL			
CASING DIA. MM	193	MEASUR. POINT M ^a / _b G	1.2		
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL			
		WATER LEVEL, MBG	0.19		
DRILLED DEPTH, M	91.4	WATER LEVEL, MASL			
STAND. WATER LEVEL, MBG	7.6	SKETCH OF WELL TOP/MP			
WATER STRUCK, MBG	8.0				
STEADY YIELD, M ³ /HR	2.5				
DRAWDOWN, M	56.2				
METHOD OF PUMPING					
WATER ANALYSIS	P. C. B.				
REMARKS	<p align="center">Not in use</p>				
SKETCH OF WELL SITE		WELL POINT			
		MAP NO.: 247/II			
		SCALE: 1:50,000			
		DISTANCE FROM EDGE OF MAP (MM)			
					
		LOCATED DATE: 2/11 1950			
		BY: J/LW			

BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Iringa, Distr: Njombe</i>		BH NO.	<i>272/76</i>
<i>Vil: Katenge</i>		CCKK NO.	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>18/4 1976</i>	GROUND ELEV. MASL	
CASING DIA. MM	<i>193</i>	MEASUR. POINT $M_{\frac{a}{b}}^c$	
TYPE OF SCREEN DIAMETER, MM	<i>Slotted casing</i>	MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M	<i>91.35</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>15.8</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>1.5, 30, 65.5</i>		
STEADY YIELD, M ³ /HR	<i>0.45</i>		
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	P. C. B.		
REMARKS	<p><i>Impossible to remove plug</i> <i>Impossible to drive to borehole w. vehicle.</i></p>		
SKETCH OF WELL SITE	WELL POINT		
	MAP NO.: <i>247/III</i>		
	SCALE: <i>1:50,000</i>		
	DISTANCE FROM EDGE OF MAP (MM)		
			
	LOCATED DATE: <i>3/12 1980</i>		
	BY: <i>JLW</i>		

BOREHOLE LOCATION RECORD

LOCATION: Reg: Iringa, Distr: Njombe Vil: Utiga		BH NO. 86/77	CCKK NO.
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	12/5 1977	GROUND ELEV. MASL	
CASING DIA. MM	203	MEASUR. POINT M ^a / _b G	
TYPE OF SCREEN DIAMETER; MM	203	MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M	97.5	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	9.5	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	9.1, 55.6		
STEADY YIELD, M ³ /HR			
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	P. C. B.		
REMARKS	Borehole filled up		
SKETCH OF WELL SITE	WELL POINT		
	MAP NO.: 247/III		
	SCALE: 1:50,000		
	DISTANCE FROM EDGE OF MAP (MM)		
	LOCATED DATE: 3/12 1980		
	BY: J L W		

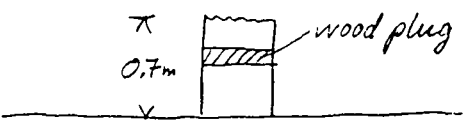
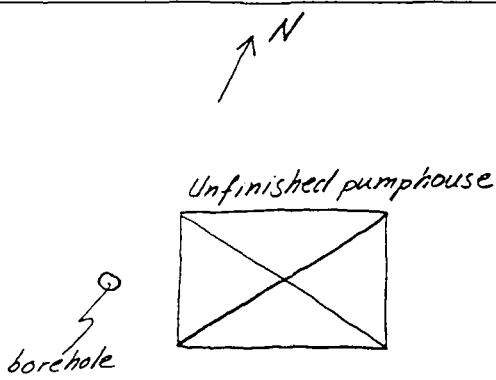
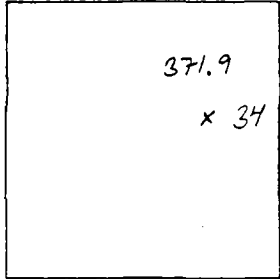
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Iringa, Distr: Njombe</i> <i>Vil: Uhenga</i>		BH NO. <i>87/77</i>	CCKK NO.
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>15/6 - 1977</i>	GROUND ELEV. MASL	
CASING DIA. MM	<i>203</i>	MEASUR. POINT $M \frac{a}{b} G$	
TYPE OF SCREEN DIAMETER, MM	<i>Slotted casing</i> <i>6 mm slot size</i>	MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M	<i>39.6</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>3.0</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>14, 16</i>		
STEADY YIELD, M ³ /HR	<i>2.7</i>		
DRAWDOWN, M	<i>12.2</i>		
METHOD OF PUMPING			
WATER ANALYSIS	P. (C) B.		
REMARKS	<p align="center"><i>Borehole filled up</i></p>		
SKETCH OF WELL SITE	WELL POINT		
	MAP NO.: <i>247/II</i> SCALE: <i>1:50,000</i>		
		DISTANCE FROM EDGE OF MAP (MM)	
	LOCATED DATE: <i>21/11 1980</i>		
	BY: <i>JLW</i>		

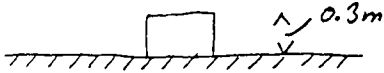
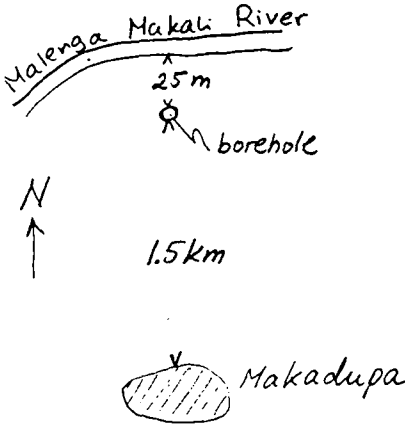
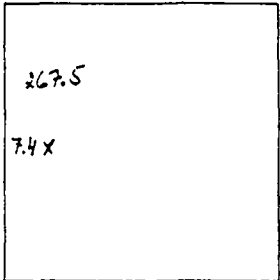
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Iringa, Distr Iringa</i> <i>Vil: Mkulula</i>		BH NO. <i>126/77</i>	CCKK NO.
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>27/8 1977</i>	GROUND ELEV. MASL	
CASING DIA. MM	<i>203</i>	MEASUR. POINT M ^A / _B G	<i>0.45</i>
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	<i>5.63</i>
DRILLED DEPTH, M	<i>51.8</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>6.1</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>16.8, 28.9, 47.2</i>		
STEADY YIELD, M ³ /HR	<i>24.8</i>		
DRAWDOWN, M	<i>15.2</i>		
METHOD OF PUMPING			
WATER ANALYSIS	P. <u>(C)</u> B.		
REMARKS	<p align="center"><i>Not in use</i></p>		
SKETCH OF WELL SITE		WELL POINT	
		MAP NO.: <i>QDS 198</i> SCALE: <i>1:125,000</i> DISTANCE FROM EDGE OF MAP (MM)	
		LOCATED DATE: <i>18/11 1980</i> BY: <i>JLW</i>	


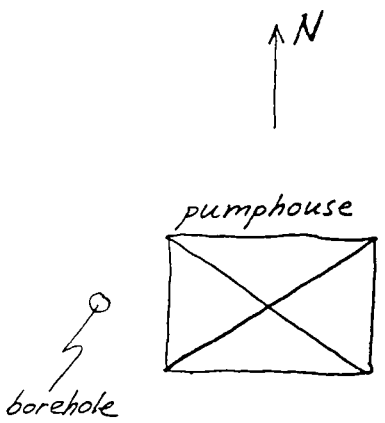
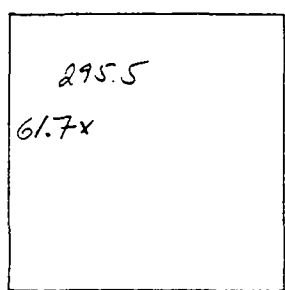
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Iringa, Distr: Iringa</i> <i>Vil: Iguluba</i>		BH NO. <i>127/77</i>
		CCKK NO.
DATA COLLECTED	FROM WELL LOG	ON SITE
COMPLETION DATE	<i>13/7 1977</i>	GROUND ELEV. MASL
CASING DIA. MM	<i>203</i>	MEASUR. POINT $M_{\frac{a}{b}}^G$
TYPE OF SCREEN		MP ELEVATION, MASL
DIAMETER, MM		WATER LEVEL, MBG
DRILLED DEPTH, M	<i>45.7</i>	WATER LEVEL, MASL
STAND. WATER LEVEL, MBG	<i>9.1</i>	SKETCH OF WELL TOP/MP
WATER STRUCK, MBG	<i>15, 21, 27</i>	
STEADY YIELD, M ³ /HR	<i>21.1</i>	
DRAWDOWN, M	<i>6.1</i>	
METHOD OF PUMPING		
WATER ANALYSIS	P. C. B.	
REMARKS	<p style="font-size: 1.2em;"><i>Woodplug not removeable.</i></p>	
SKETCH OF WELL SITE	WELL POINT	MAP NO.: <i>QDS 197</i> SCALE: <i>1:125,000</i>
	DISTANCE FROM EDGE OF MAP (MM)	
		LOCATED DATE: <i>16/11 1980</i>
		BY:

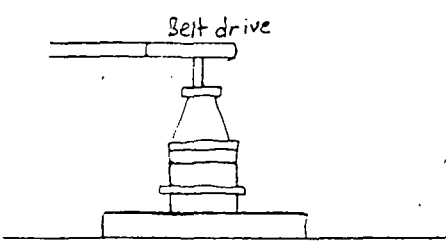
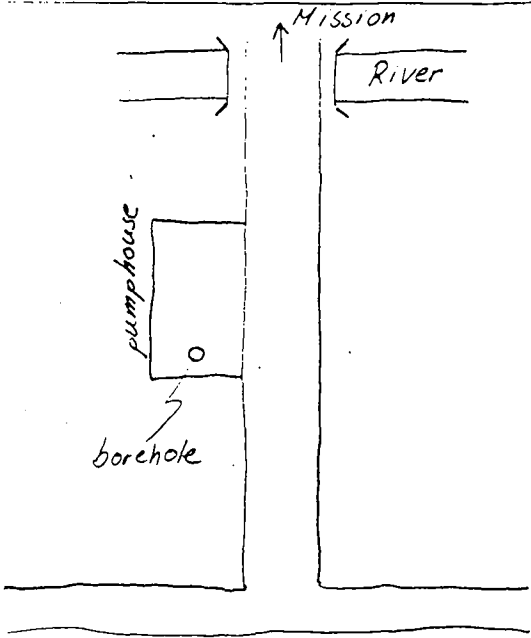
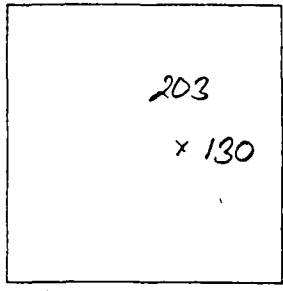
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Iringa, Distr: Iringa</i> <i>Vil: Makadupa</i>		BH NO.	<i>128/77</i>
		CCKK NO.	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>19/7 1977</i>	GROUND ELEV. MASL	
CASING DIA. MM	<i>203</i>	MEASUR. POINT $M_{\frac{a}{b}}G$	
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M	<i>53.3</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>7.6</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>18.3, 24.4</i>		
STEADY YIELD, M ³ /HR	<i>4.8</i>		
DRAWDOWN, M	<i>13.7</i>		
METHOD OF PUMPING			
WATER ANALYSIS	<i>P. C. B.</i>		
REMARKS	<p><i>Borehole filled up.</i></p>		
SKETCH OF WELL SITE		WELL POINT	
		MAP NO.: <i>QDS 198</i> SCALE: <i>1:125,000</i> DISTANCE FROM EDGE OF MAP (MM)	
			
		LOCATED DATE: <i>18/11 1980</i> BY: <i>JLW</i>	

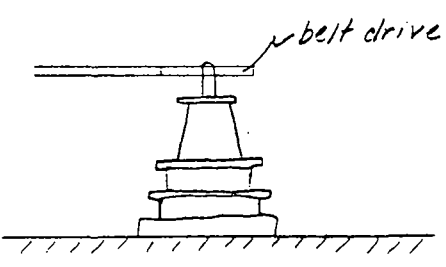
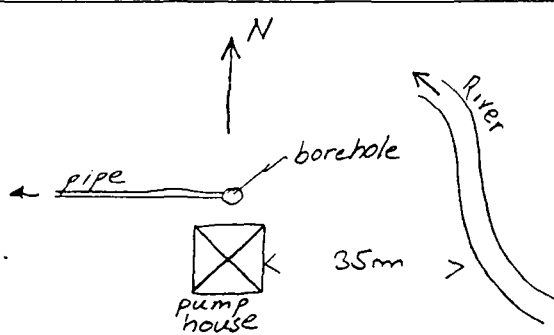
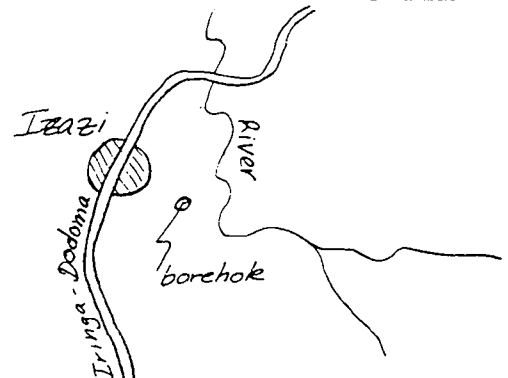
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Iringa, Distr: Iringa</i> <i>Vi: Nyakawangala</i>		BH NO. <i>130/77</i>
		CCKK NO.
DATA COLLECTED	FROM WELL LOG	ON SITE
COMPLETION DATE	<i>8/9 1977</i>	GROUND ELEV. MASL
CASING DIA. MM	<i>168 - 203</i>	MEASUR. POINT $M_{\frac{a}{b}}^G$
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL
		WATER LEVEL, MBG
DRILLED DEPTH, M	<i>91.4</i>	WATER LEVEL, MASL
STAND. WATER LEVEL, MBG	<i>10.7</i>	SKETCH OF WELL TOP/MP 
WATER STRUCK, MBG	<i>16.2, 25.9, 47.2</i>	
STEADY YIELD, M ³ /HR	<i>24</i>	
DRAWDOWN, M	<i>13.7</i>	
METHOD OF PUMPING		
WATER ANALYSIS	P. C. B.	
REMARKS	<p><i>Impossible to remove cap.</i></p> <p><i>No pump</i></p>	
SKETCH OF WELL SITE	WELL POINT	
	MAP NO.: <i>QDS 198</i>	
	SCALE: <i>1:125,000</i>	
	DISTANCE FROM EDGE OF MAP (MM)	
		
	LOCATED DATE: <i>18/11 1980</i>	
	BY: <i>JLW</i>	


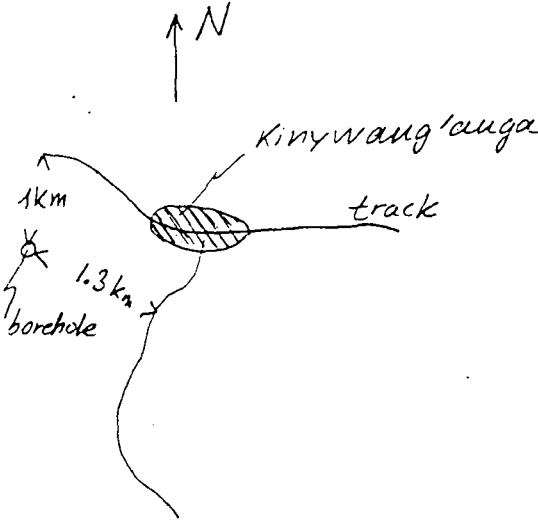
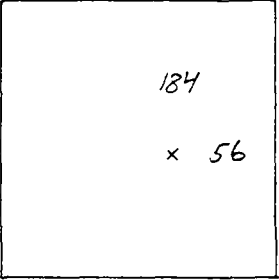
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Iringa, Distr: Iringa</i> <i>Vil: Irole Mission</i>		BH NO. <i>189/77</i>
CCKK NO.		ON SITE
DATA COLLECTED	FROM WELL LOG	ON SITE
COMPLETION DATE	<i>20/10 1977</i>	GROUND ELEV. MASL
CASING DIA. MM	<i>168</i>	MEASUR. POINT $M_{\frac{a}{b}}^G$
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL
DRILLED DEPTH, M	<i>35.1</i>	WATER LEVEL, MBG
STAND. WATER LEVEL, MBG	<i>1.5</i>	WATER LEVEL, MASL
WATER STRUCK, MBG	<i>16.8, 25.9, 30.5</i>	SKETCH OF WELL TOP/MP
STEADY YIELD, M ³ /HR	<i>10.3</i>	
DRAWDOWN, M	<i>15.2</i>	
METHOD OF PUMPING	<i>Monolift borehole pump</i>	
WATER ANALYSIS	<i>P. C. B.</i>	
REMARKS	<p align="center"><i>Impossible to measure water level</i></p>	
SKETCH OF WELL SITE		WELL POINT
		MAP NO.: <i>205 215</i> SCALE: <i>1:125,000</i>
		DISTANCE FROM EDGE OF MAP (MM)
		
		LOCATED DATE: <i>20/11 1977</i>
		BY: <i>JLW</i>

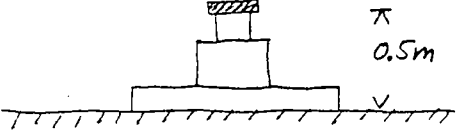
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Iringa, Distr: Iringa</i> <i>Vi: Izazi</i>		BH NO. <i>227/77</i>
		CCKK NO.
DATA COLLECTED	FROM WELL LOG	ON SITE
COMPLETION DATE	<i>9/12 1977</i>	GROUND ELEV. MASL
CASING DIA. MM	<i>152-203</i>	MEASUR. POINT $M_{\frac{a}{b}}^c$
TYPE OF SCREEN DIAMETER, MM	<i>Slotlet casing</i>	MP ELEVATION, MASL
		WATER LEVEL, MBG
DRILLED DEPTH, M	<i>91.4</i>	WATER LEVEL, MASL
STAND. WATER LEVEL, MBG	<i>22.2</i>	SKETCH OF WELL TOP/MP
WATER STRUCK, MBG	<i>28.9, 38.1, 45.7</i>	
STEADY YIELD, M ³ /HR	<i>9.6</i>	
DRAWDOWN, M	<i>23.8</i>	
METHOD OF PUMPING	<i>Monolift Borehole pump</i>	
WATER ANALYSIS	P. <u>C.</u> B.	
REMARKS	<p><i>Well sealed off.</i></p>	
SKETCH OF WELL SITE		WELL POINT
		MAP NO.: <i>QDS 197</i> SCALE: <i>1:125,000</i> DISTANCE FROM EDGE OF MAP (MM)
		<div style="border: 1px solid black; padding: 10px; width: fit-content; margin: 0 auto;"> <p align="center"><i>217</i></p> <p align="center"><i>204.3 x</i></p> </div>
		LOCATED DATE: <i>19/11 1980</i>
		BY: <i>JLW</i>

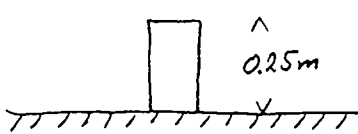
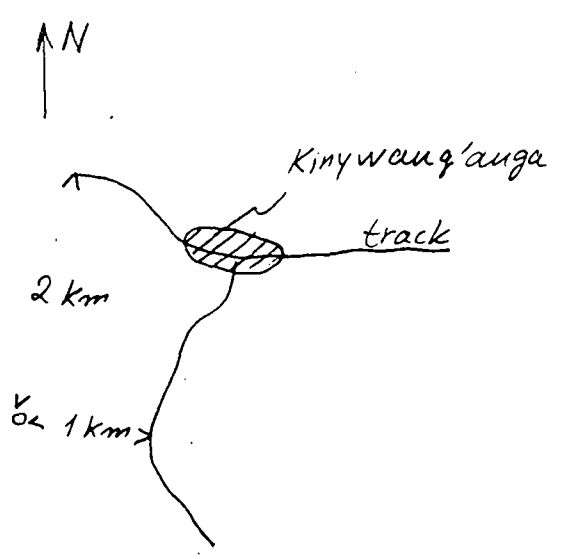
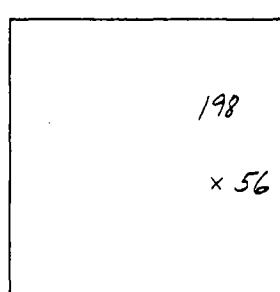
BOREHOLE LOCATION RECORD

LOCATION: Reg: Iringa, Distr: Iringa Vil: Kinywang'anga		BH NO.	17/78
		CCKK NO.	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	22/2 1978	GROUND ELEV. MASL	
CASING DIA. MM		MEASUR. POINT MBG	0.26
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M	97.5	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG		SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG			
STEADY YIELD, M ³ /HR			
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	P. C. B.		
REMARKS	<p align="center">Borehole filled up</p>		
SKETCH OF WELL SITE		WELL POINT	
		MAP NO.: 215/II SCALE: 1:50,000	
		DISTANCE FROM EDGE OF MAP (MM)	
			
		LOCATED DATE: 12/11 1980	
		BY: JLV	

BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Iringa Distr: Iringa</i> <i>Vil: Mtera</i>		BH NO. <i>93/79</i>
		CCKK NO.
DATA COLLECTED	FROM WELL LOG	ON SITE
COMPLETION DATE	<i>23/10 1979</i>	GROUND ELEV. MASL
CASING DIA. MM	<i>152</i>	MEASUR. POINT $M \frac{a}{b} G$
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL
		WATER LEVEL, MBG
DRILLED DEPTH, M	<i>91.4</i>	WATER LEVEL, MASL
STAND. WATER LEVEL, MBG	<i>23</i>	SKETCH OF WELL TOP/MP 
WATER STRUCK, MBG	<i>41.1, 71.6</i>	
STEADY YIELD, M ³ /HR	<i>13.8</i>	
DRAWDOWN, M	<i>2.25</i>	
METHOD OF PUMPING		
WATER ANALYSIS	<i>P. C.X B.</i>	
REMARKS	<p><i>Impossible to remove cap</i> <i>Not in use.</i></p>	
SKETCH OF WELL SITE	WELL POINT	<p>MAP NO.: <i>QDS 197</i> SCALE: <i>1:125,000</i></p> <p>DISTANCE FROM EDGE OF MAP (MM)</p> <div style="border: 1px solid black; width: 150px; height: 100px; margin: 20px auto; text-align: center;"> <p><i>122</i> <i>x 164</i></p> </div> <p>LOCATED DATE: <i>19/11 1980</i> BY: <i>JLW</i></p>


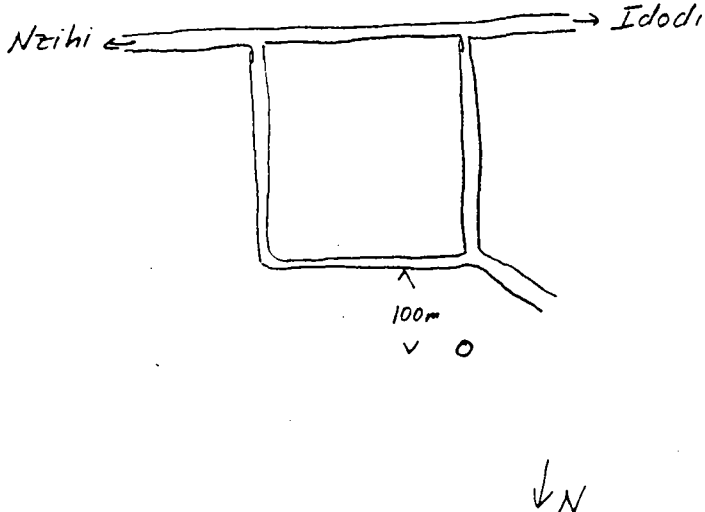
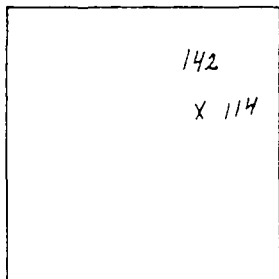
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg; Iringa, Distr: Iringa</i> <i>Vil: Kinywang'anga</i>		BH NO.	<i>48/80</i>
		CCKK NO.	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>28/6 1980</i>	GROUND ELEV. MASL	
CASING DIA. MM	<i>203</i>	MEASUR. POINT $\frac{M}{G}$	<i>0.25</i>
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	<i>52.63</i>
DRILLED DEPTH, M	<i>100</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>8</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>88.3</i>		
STEADY YIELD, M ³ /HR	<i>DRY</i>		
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	<i>P. C. B.</i>		
REMARKS	<p align="center"><i>Dry borehole</i></p>		
SKETCH OF WELL SITE	WELL POINT		
	MAP NO.: <i>215/II</i> SCALE: <i>1:50,000</i>		
	DISTANCE FROM EDGE OF MAP (MM)		
			
	LOCATED DATE: <i>12/11 1980</i>		
	BY: <i>JLW</i>		

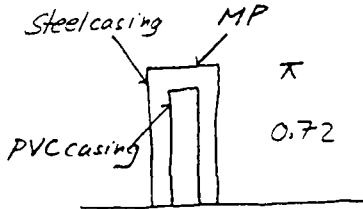
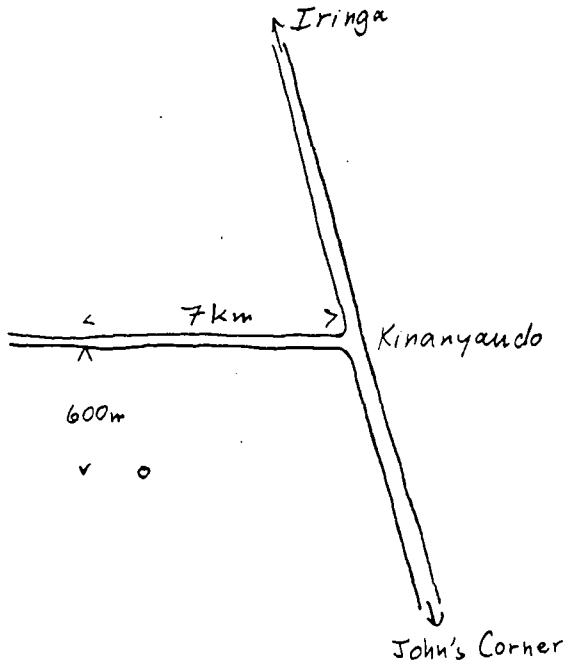
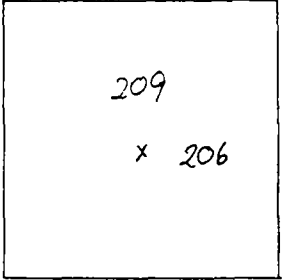
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Iringa Distr: Iringa</i> <i>Vil: Nzihhi</i>		BH NO. <i>2/81</i>
		CCKK NO. <i>101</i>
DATA COLLECTED	FROM WELL LOG	ON SITE
COMPLETION DATE	<i>14/1 1981</i>	GROUND ELEV. MASL
CASING DIA. MM	<i>ASTM 203</i>	MEASUR. POINT $M_{\frac{a}{b}}G$
TYPE OF SCREEN DIAMETER, MM	<i>Eversure stainless 203</i>	MP ELEVATION, MASL
DRILLED DEPTH, M	<i>30.48</i>	WATER LEVEL, MBG
STAND. WATER LEVEL, MBG	<i>5.48</i>	WATER LEVEL, MASL
WATER STRUCK, MBG	<i>19.8</i>	SKETCH OF WELL TOP/MP
STEADY YIELD, M ³ /HR	<i>1.5</i>	
DRAWDOWN, M	<i>1.1</i>	
METHOD OF PUMPING		
WATER ANALYSIS	P. C. B.	
REMARKS		
SKETCH OF WELL SITE	WELL POINT	
	MAP NO.: <i>QDS 215</i> SCALE: <i>1:125,000</i> DISTANCE FROM EDGE OF MAP (MM)	
	LOCATED DATE: <i>2/9 1981</i> BY: <i>HT</i>	

BOREHOLE LOCATION RECORD

LOCATION: <i>Reg Iringa Distr Iringa</i> <i>V1 Mloa</i>		BH NO. <i>4181</i>
		CCKK NO. <i>ID3</i>
DATA COLLECTED	FROM WELL LOG	ON SITE
COMPLETION DATE	<i>25/3 1981</i>	GROUND ELEV. MASL
CASING DIA. MM	<i>ASTM 203</i>	MEASUR. POINT M ^a / _b G <i>0.01</i>
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL
		WATER LEVEL, MBG <i>7.80</i>
DRILLED DEPTH, M	<i>60.96</i>	WATER LEVEL, MASL
STAND. WATER LEVEL, MBG	<i>8.5</i>	SKETCH OF WELL TOP/MP 
WATER STRUCK, MBG	<i>22.8, 30.4</i>	
STEADY YIELD, M ³ /HR	<i>0.9</i>	
DRAWDOWN, M	<i>33.7</i>	
METHOD OF PUMPING		
WATER ANALYSIS	P. <u>C.</u> B.	
REMARKS		
SKETCH OF WELL SITE	WELL POINT	
	MAP NO.: <i>QDS 214</i> SCALE: <i>1:125,000</i>	
	DISTANCE FROM EDGE OF MAP (MM)	
		
LOCATED DATE: <i>2/9 1981</i>		
BY: <i>HT</i>		


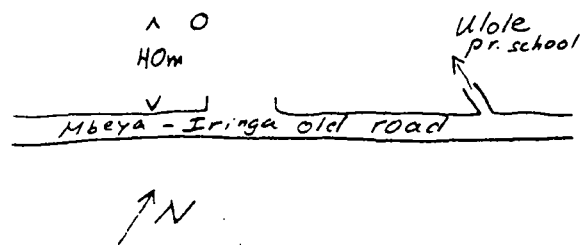
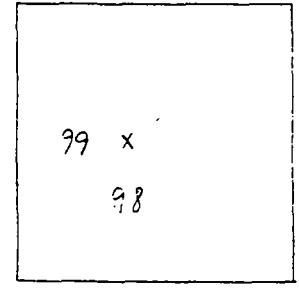
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg. Iringa Distr. Mufindi</i> <i>Vil. Ndolezi</i>		BH NO. <i>5/81</i>	
		CCKK NO. <i>ID 4</i>	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>11/4 1981</i>	GROUND ELEV. MASL	
CASING DIA. MM	<i>152</i>	MEASUR. POINT M ^a / _b G <i>0.72</i>	
TYPE OF SCREEN DIAMETER, MM	<i>PVC</i>	MP ELEVATION, MASL	
DRILLED DEPTH, M	<i>41.15</i>	WATER LEVEL, MBG <i>21.28</i>	
STAND. WATER LEVEL, MBG	<i>8.53</i>	WATER LEVEL, MASL	
WATER STRUCK, MBG	<i>9.14, 12.19</i>	SKETCH OF WELL TOP/MP	
STEADY YIELD, M ³ /HR			
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	P. C. B.		
REMARKS			
SKETCH OF WELL SITE			WELL POINT
			MAP NO.: <i>QDS232</i> SCALE: <i>1:125,000</i> DISTANCE FROM EDGE OF MAP (MM)
			
		LOCATED DATE: <i>3/3 1981</i>	
		BY: <i>HT</i>	

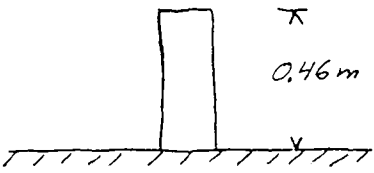
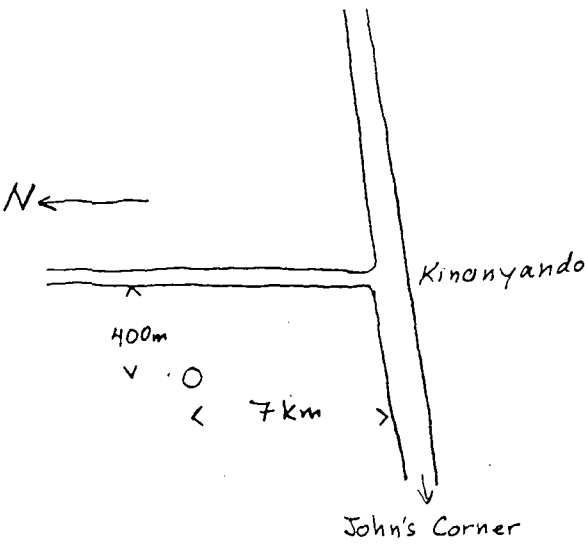
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Iringa, Distr: Mufindi</i> <i>Vil: Tombalungaombe</i>		BH NO.	<i>6/81</i>
		CCKK NO.	<i>ID5</i>
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE		GROUND ELEV. MASL	
CASING DIA. MM		MEASUR. POINT $M \frac{a}{b} G$	
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M	<i>60.96</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG		SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>13.71</i>		
STEADY YIELD, M ³ /HR			
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	P. C. B.		
REMARKS	<i>Borehole dry</i>		
SKETCH OF WELL SITE	WELL POINT		
	MAP NO.: <i>QDS 232</i> SCALE: <i>1:125,000</i>		
	DISTANCE FROM EDGE OF MAP (MM)		
	<div style="border: 1px solid black; width: 150px; height: 100px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> <i>215</i> <i>19x</i> </div>		
	LOCATED DATE: <i>1/9 1981</i>		
	BY: <i>MJJ</i>		

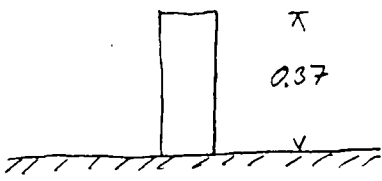
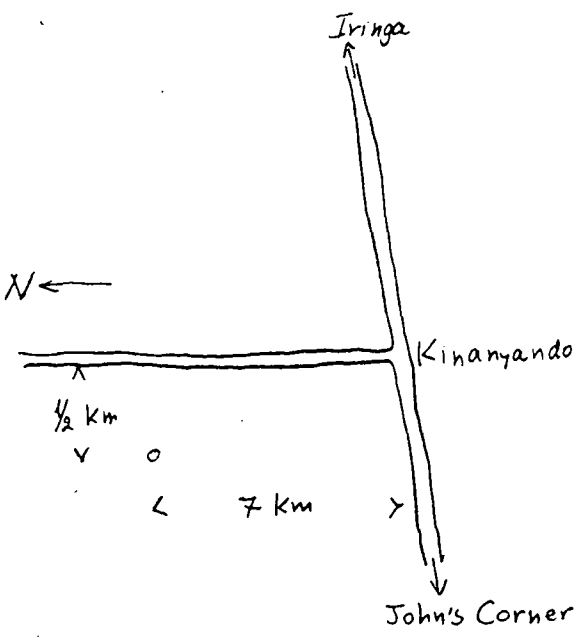
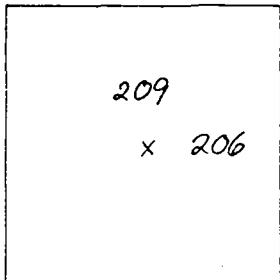
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg Iringa, Distr Mufindi</i> <i>Vil: Matanana</i>		BH NO.	<i>7/81</i>
		CCKK NO.	<i>ID 6</i>
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE		GROUND ELEV. MASL	
CASING DIA. MM	<i>203</i>	MEASUR. POINT M_{MBG}^a	<i>0.31</i>
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	<i>8.24</i>
DRILLED DEPTH, M		WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG		SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG			
STEADY YIELD, M ³ /HR			
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	P. C. B.		
REMARKS			
SKETCH OF WELL SITE		WELL POINT	
		MAP NO.: <i>QDS 232</i>	
		SCALE: <i>1:25,000</i>	
		DISTANCE FROM EDGE OF MAP (MM)	
			
		LOCATED DATE: <i>31/8 1981</i>	
		BY: <i>FM</i>	

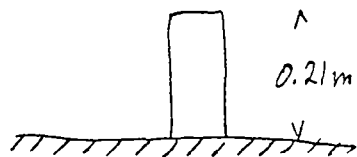
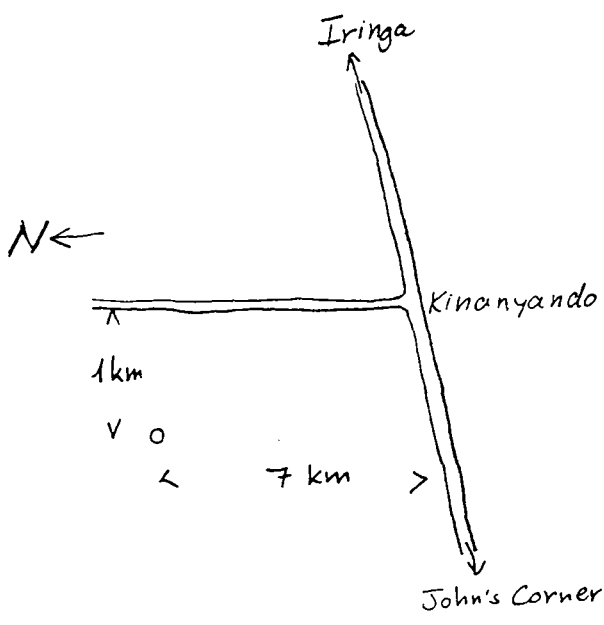
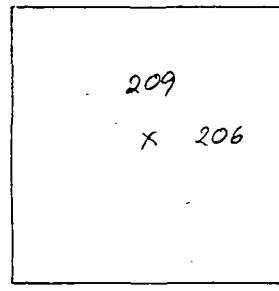
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg Iringa, Distr Mufindi</i> <i>Vil Ndolezi</i>		BH NO. <i>55/81</i>
		CCKK NO. <i>IS 1</i>
DATA COLLECTED	FROM WELL LOG	ON SITE
COMPLETION DATE	<i>24/4 1981</i>	GROUND ELEV. MASL
CASING DIA. MM	<i>152</i>	MEASUR. POINT M_{MBG}^A
TYPE OF SCREEN DIAMETER, MM	<i>PVC 102</i>	MP ELEVATION, MASL
		WATER LEVEL, MBG <i>0.14</i>
DRILLED DEPTH, M	<i>30.4</i>	WATER LEVEL, MASL
STAND. WATER LEVEL, MBG	<i>1.22</i>	
WATER STRUCK, MBG	<i>4.57</i>	
STEADY YIELD, M ³ /HR	<i>4.1</i>	
DRAWDOWN, M	<i>1.3</i>	
METHOD OF PUMPING		
WATER ANALYSIS	P. <i>(C)</i> B.	
REMARKS		
SKETCH OF WELL SITE	WELL POINT	
	MAP NO.: <i>QDS 232</i> SCALE: <i>1:25,000</i>	
		DISTANCE FROM EDGE OF MAP (MM) <div style="border: 1px solid black; width: 150px; height: 100px; margin: 10px auto; text-align: center; padding: 5px;"> 209 x 206 </div>
	LOCATED DATE: <i>30/9 1981</i>	
	BY: <i>HT</i>	

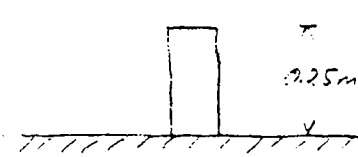
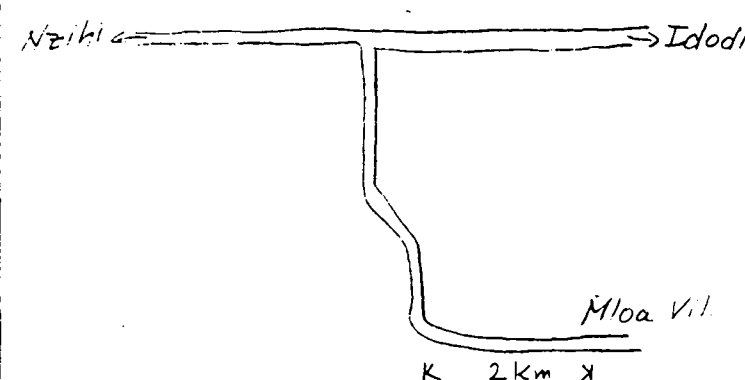
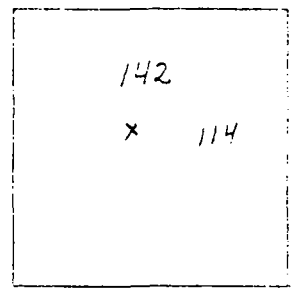
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Iringa, Distr: Mufindi</i>		BH NO.	<i>56/81</i>
<i>Vil: Ndolezi</i>		CCKK NO.	<i>ISZ</i>
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>25/4 1981</i>	GROUND ELEV. MASL	
CASING DIA. MM	<i>152</i>	MEASUR. POINT M ^a G	<i>0.37</i>
TYPE OF SCREEN DIAMETER, MM	<i>102, PVC</i>	MP ELEVATION, MASL	
		WATER LEVEL, MBG	<i>0.45</i>
DRILLED DEPTH, M	<i>24.38</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>1.06</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>2.44</i>		
STEADY YIELD, M ³ /HR	<i>1.5</i>		
DRAWDOWN, M	<i>appr 3.0</i>		
METHOD OF PUMPING			
WATER ANALYSIS	P. (C) B.		
REMARKS			
SKETCH OF WELL SITE	WELL POINT		
	MAP NO.: <i>Q.DS 232</i> SCALE: <i>1:125,000</i>		
		DISTANCE FROM EDGE OF MAP (MM)	
			
	LOCATED DATE: <i>3/9 1981</i>		
	BY: <i>HT</i>		

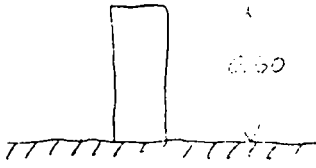
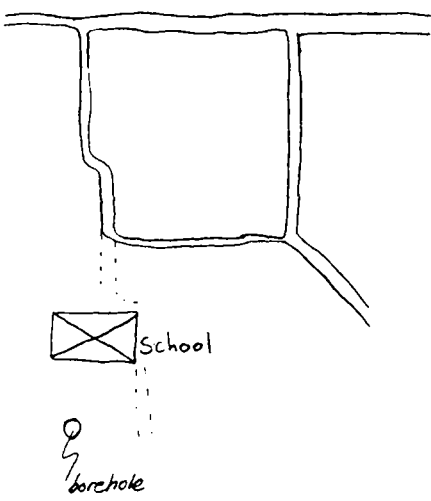
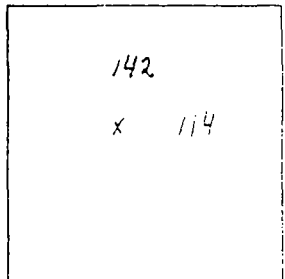
BOREHOLE LOCATION RECORD

LOCATION: Reg: Iringa Distr: Mufindi Vil: Ndolezi		BH NO.	57/81
		CCKK NO.	IS 3
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	28/4 1981	GROUND ELEV. MASL	
CASING DIA. MM	152	MEASUR. POINT M ^a / _B G	0.21
TYPE OF SCREEN DIAMETER, MM	PVC	MP ELEVATION, MASL	
		WATER LEVEL, MBG	0.45
DRILLED DEPTH, M		WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	1.2	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	1.8		
STEADY YIELD, M ³ /HR			
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	P. C. B.		
REMARKS			
SKETCH OF WELL SITE		WELL POINT	
		MAP NO.: QDS 232	
		SCALE: 1:125,000	
		DISTANCE FROM EDGE OF MAP (MM)	
			
		LOCATED DATE: 3/9 1981	
		BY: HT	

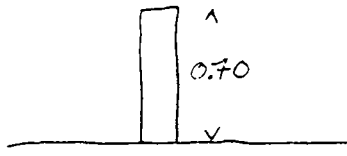
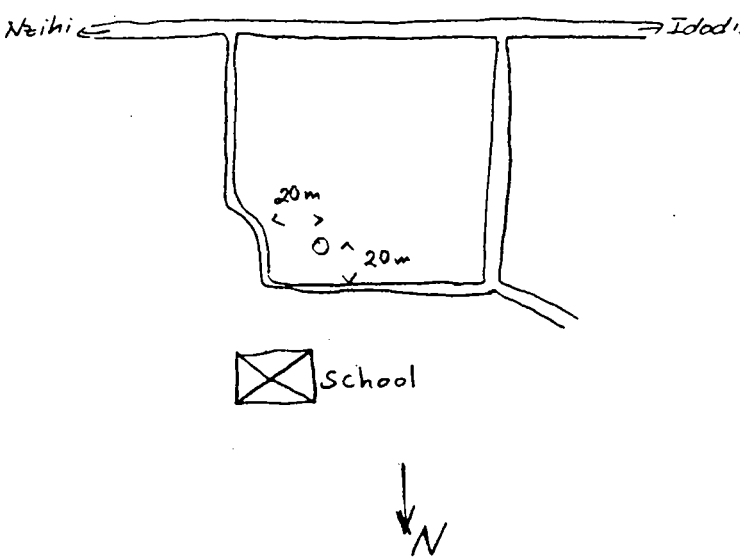
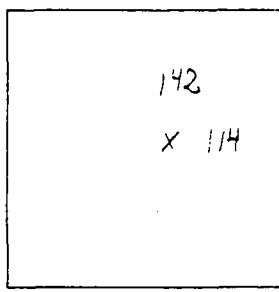
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg Iringa, Distr: Iringa</i> <i>Vil Mloa</i>		BH NO. <i>58181</i>	CHK NO. <i>254</i>
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE		GROUND ELEV. MASL	
CASING DIA. MM	<i>101</i>	MEASUR. POINT $\frac{M}{B}$	<i>0.25</i>
TYPE OF SCREEN DIAMETER, MM	<i>PVC casing</i>	MP ELEVATION, MASL	
		WATER LEVEL, MBG	<i>2.52</i>
DRILLED DEPTH, M		WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>3.20</i>	SKETCH OF WELL TOP/NE 	
WATER STROCK, MBG	<i>7.62</i>		
STEADY YIELD, M ³ /HR	<i>1.7</i>		
DRAWDOWN, M	<i>7.7</i>		
METHOD OF PUMPING			
WATER ANALYSIS	P. C. B.		
REMARKS			
SKETCH OF WELL SITE		WELL POINT	
		MAP NO.: <i>QDS 214</i>	
		SCALE: <i>1:125,000</i>	
		DISTANCE FROM EDGE OF MAP (MM)	
			
○ football ground School		LOCATED DATE: <i>2/a 1991</i>	
		BY: <i>HT</i>	

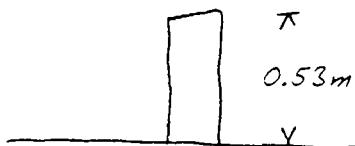
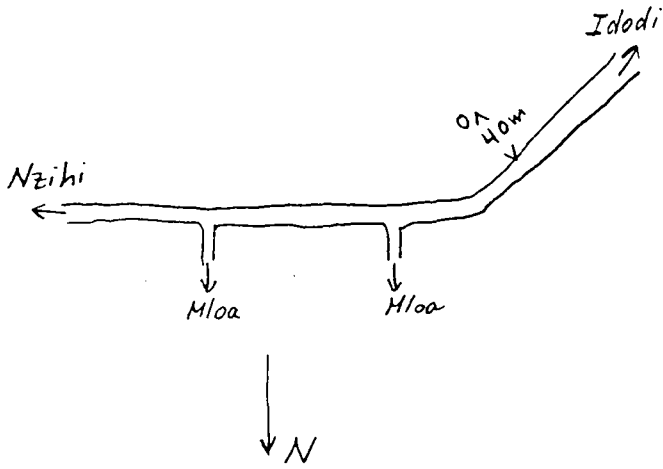
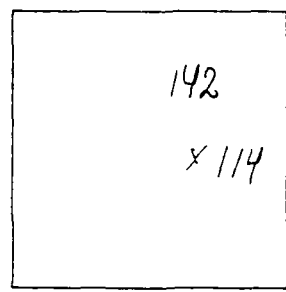
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Iringa</i> <i>Distr: Iringa</i>		BH NO.	<i>59/81</i>
<i>Vil: Mloa</i>		CCKK NO.	<i>I55</i>
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>13/5 1981</i>	GROUND ELEV. MASL	
CASING DIA. MM	<i>UPVC 101</i>	MEASUR. POINT M ^a / _B G	<i>0.60</i>
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	<i>2.28</i>
DRILLED DEPTH, M	<i>19.8</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>3.65</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>10.67</i>		
STEADY YIELD, M ³ /HR			
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	P. C. B.		
REMARKS			
SKETCH OF WELL SITE	WELL POINT		
	MAP NO.: <i>QDS 214</i> SCALE: <i>1/25,000</i>		
	DISTANCE FROM EDGE OF MAP (MM)		
			
		LOCATED DATE:	<i>2/9 1981</i>
		BY:	<i>HT</i>

BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Iringa Distr: Iringa</i> <i>Vi: Mloa</i>		BH NO.	<i>60/81</i>
		CCKK NO.	<i>ZS 6</i>
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>15/5 1981</i>	GROUND ELEV. MASL	
CASING DIA. MM	<i>PVC, 101</i>	MEASUR. POINT $M_{\frac{a}{b}}^G$	
TYPE OF SCREEN DIAMETER, MM	<i>PVC</i>	MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M	<i>11.27</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>3.96</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>8.53</i>		
STEADY YIELD, M ³ /HR			
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	P. C. B.		
REMARKS	<i>Dry borehole</i>		
SKETCH OF WELL SITE		WELL POINT	
		MAP NO.: <i>QDS 214</i>	
		SCALE: <i>1:125,000</i>	
		DISTANCE FROM EDGE OF MAP (MM)	
			
		LOCATED DATE: <i>2/3 1981</i>	
		BY: <i>HT</i>	

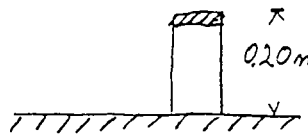
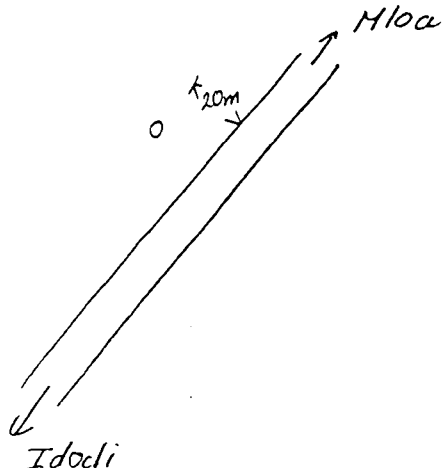
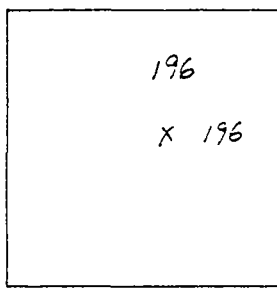
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Iringa Distr: Iringa</i> <i>Vil: Mloa</i>		BH NO. <i>61/81</i>	CCKK NO. <i>IS 7</i>
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>16/5 1981</i>	GROUND ELEV. MASL	
CASING DIA. MM	<i>PVC, 101</i>	MEASUR. POINT $M_{\frac{a}{b}}G$	<i>0.53</i>
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	<i>11.05</i>
DRILLED DEPTH, M		WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>9.14</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>13.71</i>		
STEADY YIELD, M ³ /HR			
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	<i>P. C. B.</i>		
REMARKS			
SKETCH OF WELL SITE	WELL POINT		
	MAP NO.: <i>QDS 214</i>		
	SCALE: <i>1:125,000</i>		
	DISTANCE FROM EDGE OF MAP (MM)		
			
	LOCATED DATE: <i>2/9 1981</i>		
	BY: <i>HT</i>		


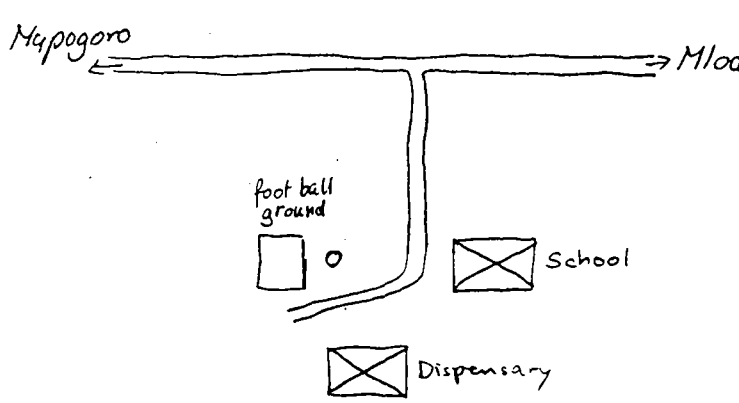
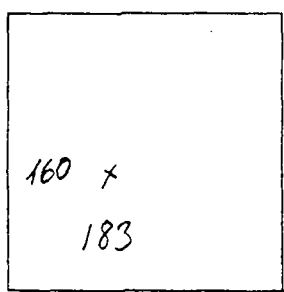
BOREHOLE LOCATION RECORD

LOCATION: Reg: Iringa , Distr: Iringa Vil: Musimbe		BH NO.	62/81
		CCKK NO.	IS 8
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	28/5 1981	GROUND ELEV. MASL	
CASING DIA. MM	PVC, 101	MEASUR. POINT M_b^a	
TYPE OF SCREEN		MP ELEVATION, MASL	
DIAMETER, MM		WATER LEVEL, MBG	
DRILLED DEPTH, M	30.48	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	9.14	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	13.71		
STEADY YIELD, M ³ /HR			
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	P. C. B.		
REMARKS	<p align="center">Dry borehole</p>		
SKETCH OF WELL SITE		WELL POINT	
		MAP NO.: QDS 214	
		SCALE: 1:125,000	
		DISTANCE FROM EDGE OF MAP (MM)	
		LOCATED DATE: 2/4 1981	
		BY: H.T.	

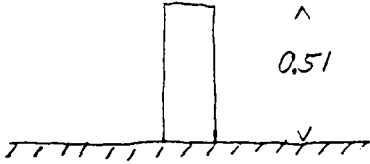
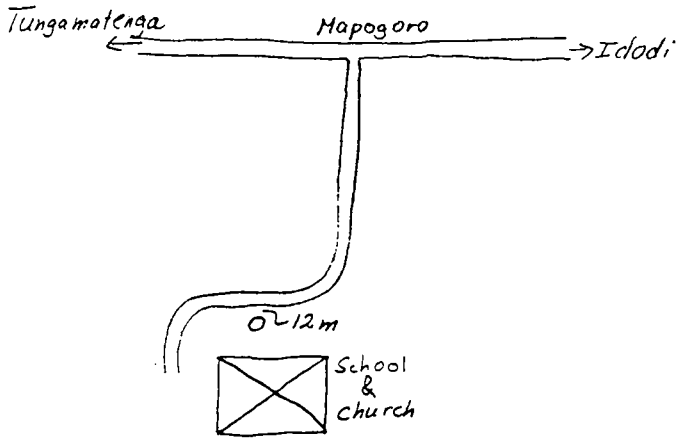
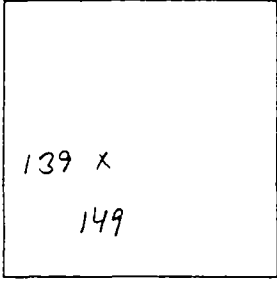
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg Iringa Distr Iringa</i> <i>Vil: Musimbe</i>		BH NO.	<i>176/81</i>	
		CCKK NO.	<i>IS 9</i>	
DATA COLLECTED	FROM WELL LOG	ON SITE		
COMPLETION DATE	<i>30/5 1981</i>	GROUND ELEV. MASL		
CASING DIA. MM	<i>PVC, 101</i>	MEASUR. POINT M_{BG}^a	<i>0.20</i>	
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL		
		WATER LEVEL, MBG		
DRILLED DEPTH, M	<i>30.48</i>	WATER LEVEL, MASL		
STAND. WATER LEVEL, MBG		SKETCH OF WELL TOP/MP		
WATER STRUCK, MBG				
STEADY YIELD, M ³ /HR				
DRAWDOWN, M				
METHOD OF PUMPING				
WATER ANALYSIS	P. C. B.			
REMARKS	<p align="center"><i>Dry borehole</i></p>			
SKETCH OF WELL SITE	WELL POINT			
	MAP NO.: <i>QDS 214</i> SCALE: <i>1:125,000</i>			
	DISTANCE FROM EDGE OF MAP (MM)			
				
		LOCATED DATE: <i>2/9 1981</i>		
		BY: <i>H.T</i>		

BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Iringa Distr: Iringa</i> <i>Vil: Idodi</i>		BH NO.	<i>177/81</i>
		CCKK NO.	<i>IS 10</i>
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>1/6 1981</i>	GROUND ELEV. MASL	
CASING DIA. MM	<i>PVC 101</i>	MEASUR. POINT <i>M₂G</i>	<i>0.17</i>
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M	<i>30.5</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>9.14</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>13.10</i>		
STEADY YIELD, M ³ /HR			
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	<i>P. C. B.</i>		
REMARKS	<i>Dry borehole</i>		
SKETCH OF WELL SITE	WELL POINT		
	MAP NO.: <i>QDS 214</i>		
	SCALE: <i>1:25,000</i>		
	DISTANCE FROM EDGE OF MAP (MM)		
			
	LOCATED DATE: <i>2/9 1981</i>		
	BY: <i>HT</i>		

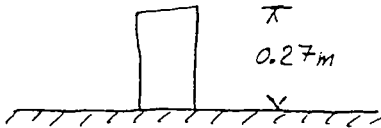
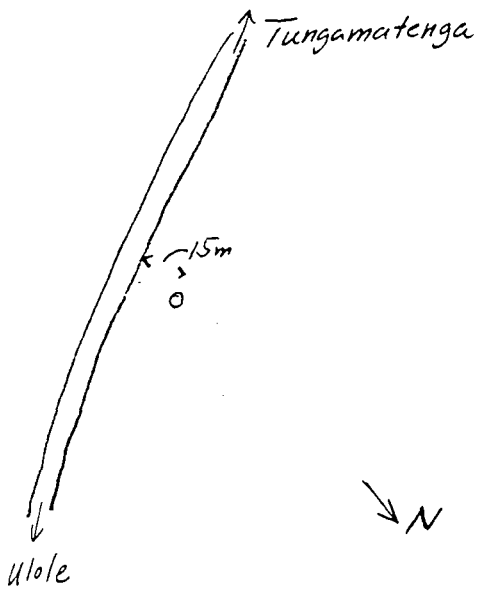
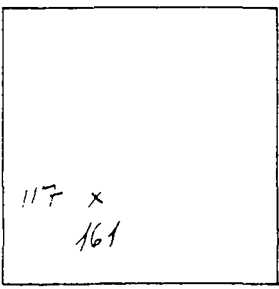
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg Iringa , Distr Iringa</i> <i>Vil: Idodi</i>		BH NO. <i>178/81</i>
		CCKK NO. <i>IS 11</i>
DATA COLLECTED	FROM WELL LOG	ON SITE
COMPLETION DATE	<i>27/5 1981</i>	GROUND ELEV. MASL
CASING DIA. MM	<i>PVC, 101</i>	MEASUR. POINT M ^a /G <i>0.51</i>
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL
		WATER LEVEL, MBG <i>1.23</i>
DRILLED DEPTH, M	<i>30.5</i>	WATER LEVEL, MASL
STAND. WATER LEVEL, MBG	<i>4.26</i>	SKETCH OF WELL TOP/MP 
WATER STRUCK, MBG	<i>10.7, 18.3</i>	
STEADY YIELD, M ³ /HR	<i>4.2</i>	
DRAWDOWN, M	<i>3.0</i>	
METHOD OF PUMPING		
WATER ANALYSIS	P. (C) B.	
REMARKS	<i>Dry borehole</i>	
SKETCH OF WELL SITE	WELL POINT	
	MAP NO.: <i>QAS 214</i> SCALE: <i>1:125,000</i>	
	DISTANCE FROM EDGE OF MAP (MM)	
		
LOCATED DATE: <i>2/9-1981</i>		
BY: <i>HT</i>		

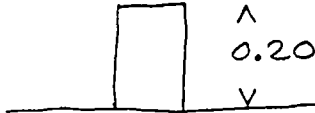
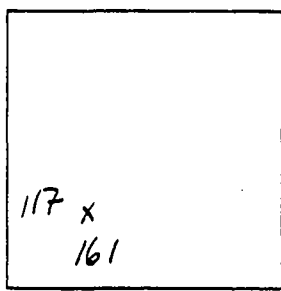
BOREHOLE LOCATION RECORD

LOCATION: Reg: Iringa , Distr: Iringa Vil: Kitanewa		BH NO.	179/81
		CCKK NO.	IS 12
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	10/6 1981	GROUND ELEV. MASL	
CASING DIA. MM	PVC 101	MEASUR. POINT M ^a / _B G	0.35
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M	10.66	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	2.44	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	4.6		
STEADY YIELD, M ³ /HR			
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	P. C. B.		
REMARKS	Auger lost in borehole		
SKETCH OF WELL SITE		WELL POINT	
		MAP NO.: QDS 214 SCALE: 1:125,000 DISTANCE FROM EDGE OF MAP (MM)	
		LOCATED DATE: 2/9 1981	
		BY: HT	

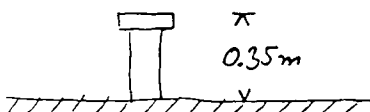
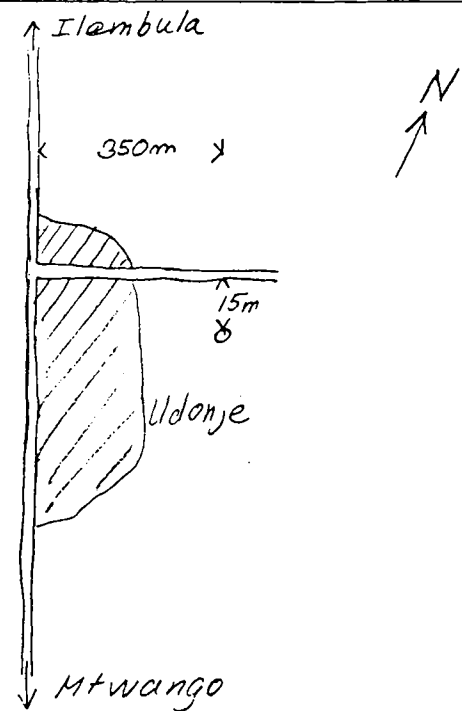
BOREHOLE LOCATION RECORD

LOCATION: Reg: Iring , Distr: Iringa Vil: Mapogoro		BH NO.	180/81
		CCKK NO.	IS 13
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	12/6 1981	GROUND ELEV. MASL	
CASING DIA. MM	PVC, 101	MEASUR. POINT MBG	0.27
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M	25.9	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG		SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG			
STEADY YIELD, M ³ /HR			
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	P. C. B.		
REMARKS	<p align="center">Dry borehole</p>		
SKETCH OF WELL SITE	WELL POINT		
	MAP NO.: Q05 214 SCALE: 1:125,000		
	DISTANCE FROM EDGE OF MAP (MM)		
			
		LOCATED DATE: 2/9 1981	
		BY: HT	

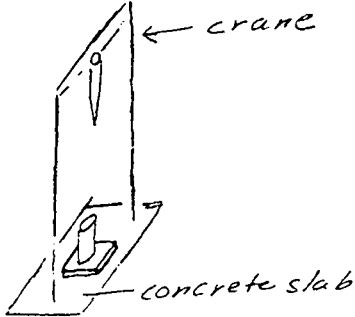
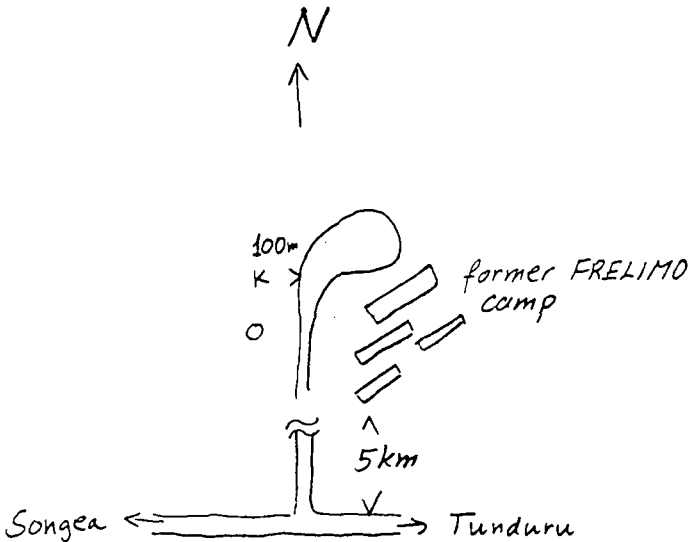
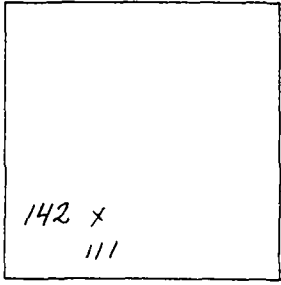
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Iringa Distr: Iringa</i> <i>V.I: Mapogoro</i>		BH NO.	<i>181/81</i>
		CCKK NO.	<i>IS14</i>
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>15/7 1981</i>	GROUND ELEV. MASL	
CASING DIA. MM	<i>101, PVC</i>	MEASUR. POINT M ^a G	<i>0.20</i>
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	<i>2.85</i>
DRILLED DEPTH, M	<i>30.5</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>1.82</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>9.1, 12.1</i>		
STEADY YIELD, M ³ /HR	<i>6.2</i>		
DRAWDOWN, M	<i>9.1</i>		
METHOD OF PUMPING			
WATER ANALYSIS	P. (C) B.		
REMARKS			
SKETCH OF WELL SITE		WELL POINT	
		MAP NO.:	<i>Q25 214</i>
		SCALE:	<i>1:125,000</i>
		DISTANCE FROM EDGE OF MAP (MM)	
			
		LOCATED DATE:	<i>15/7 1981</i>
		BY:	<i>MJJ</i>

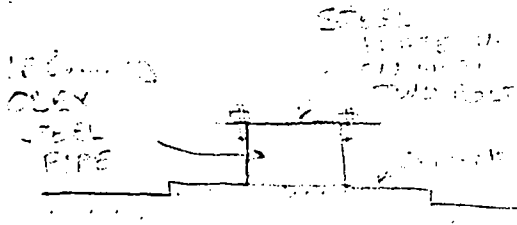
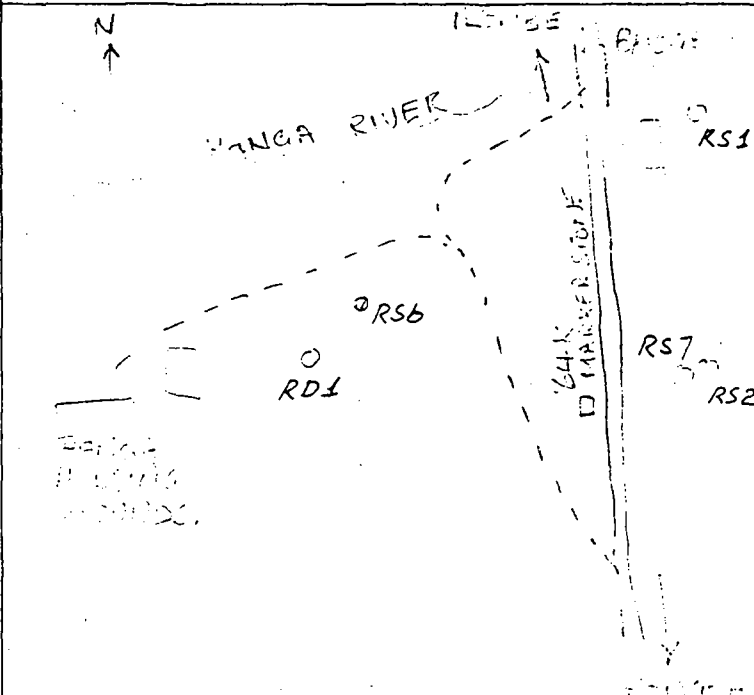
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Iringa Distr: Njombe</i> <i>Vil: Udonje</i>		BH NO. —	CCKK NO.
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>1978 ?</i>	GROUND ELEV. MASL	
CASING DIA. MM	<i>152</i>	MEASUR. POINT $M_{\frac{a}{b}}^G$	
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M		WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG		SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG			
STEADY YIELD, M ³ /HR			
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	P. C. B.		
REMARKS	<p align="center"><i>Borehole not recorded</i></p>		
SKETCH OF WELL SITE		WELL POINT	
		<p>MAP NO.: <i>247 / III</i> SCALE: <i>1:50,000</i></p> <p>DISTANCE FROM EDGE OF MAP (MM)</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: 10px auto;"> <p align="center"><i>464</i></p> <p align="center"><i>209 x</i></p> </div>	
		LOCATED DATE: <i>16/12 1980</i>	
		BY: <i>JLW</i>	

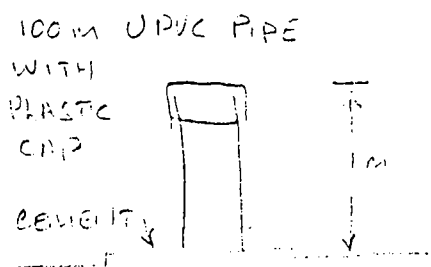
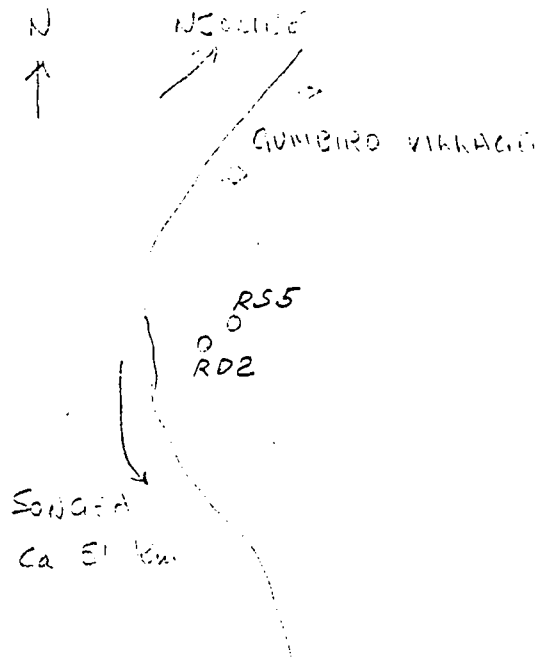
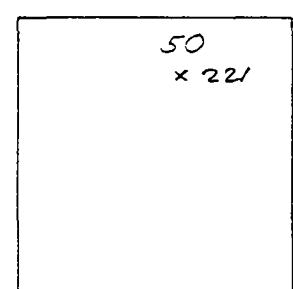
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Ruvuma, Distr: Tunduru</i> <i>Vil: Masonya</i>		BH NO.	<i>207/73</i>
		CCKK NO.	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>30/12 1973</i>	GROUND ELEV. MASL	<i>570</i>
CASING DIA. MM	<i>152</i>	MEASUR. POINT M ^a _B G	<i>0.53</i>
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	<i>free flowing</i>
DRILLED DEPTH, M	<i>178.4</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>6.1</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>170.7</i>		
STEADY YIELD, M ³ /HR	<i>3.4</i>		
DRAWDOWN, M	<i>115.5</i>		
METHOD OF PUMPING			
WATER ANALYSIS	P. <i>(C)</i> B.		
REMARKS			
SKETCH OF WELL SITE		WELL POINT	
		MAP NO.: <i>302 / IV</i>	
		SCALE: <i>1:50,000</i>	
		DISTANCE FROM EDGE OF MAP (MM)	
			
		LOCATED DATE: <i>7/2 1981</i>	
		BY: <i>RORDAM</i>	

BOREHOLE LOCATION RECORD

LOCATION: <i>MANGA RIVER, SANGHA DISTRICT, RUVVHA</i>		BH NO. <i>253/81</i>
		CCKK NO. <i>RD1</i>
DATA COLLECTED <i>3/11/81</i>	FROM WELL LOG	ON SITE <i>3 NOV 81</i>
COMPLETION DATE	<i>3 Nov 81</i>	GROUND ELEV. MASL <i>470</i>
CASING DIA. MM	<i>150</i>	MEASUR. POINT <i>M_BG</i>
TYPE OF SCREEN		MP ELEVATION, MASL <i>+ .3m</i>
DIAMETER, MM		WATER LEVEL, MBG <i>4.77m</i>
DRILLED DEPTH, M	<i>154.6</i>	WATER LEVEL, MASL <i>465.5</i>
STAND. WATER LEVEL, MBG	<i>4.5</i>	SKETCH OF WELL TOP/MP 
WATER STRUCK, MBG	<i>17-23, 136</i>	
STEADY YIELD, M ³ /HR	<i>2.4</i>	
DRAWDOWN, M	<i>> 115m</i>	
METHOD OF PUMPING	<i>Hand-operated</i>	
WATER ANALYSIS	P. X C. B.	
REMARKS	<i>WATER ANALYSIS 17-23 m E. COND. 680-740 μhos/cm at 25°C</i> <i>WATER STRUCK 136 m E. COND. 680-740 μhos/cm at 25°C</i> <i>WATER ANALYSIS TEST</i> <i>340 μhos/cm at 25°C</i>	
SKETCH OF WELL SITE	WELL POINT	
		MAP NO.: SCALE: DISTANCE FROM EDGE OF MAP (MM) <div style="border: 1px solid black; width: 100px; height: 100px; margin: 10px auto; display: flex; align-items: center; justify-content: center;"> x 205 169 </div>
		LOCATED DATE:
		BY:

BOREHOLE LOCATION RECORD

LOCATION: <i>GUMBIRO, Soliga District, PUNJAB</i>		BH NO. <i>251/81</i>	
		CCKK NO. <i>RD2</i>	
DATA COLLECTED <i>5 Nov 81</i>	FROM WELL LOG	ON SITE <i>5 Nov 81</i>	
COMPLETION DATE	<i>5 Nov 81</i>	GROUND ELEV. MASL <i>285</i>	
CASING DIA. MM	<i>100</i>	MEASUR. POINT MBG <i>1m 40cm</i>	
TYPE OF SCREEN	<i>100</i>	MP ELEVATION, MASL <i>286</i>	
DIAMETER, MM	<i>UPVC</i>	WATER LEVEL, MBG <i>18.7</i>	
DRILLED DEPTH, M	<i>60.95</i>	WATER LEVEL, MASL <i>865.3</i>	
STAND. WATER LEVEL, MBG	<i>18.72</i>	SKETCH OF WELL TOP/MP  <p style="font-size: small;">100m UPVC PIPE WITH PLASTIC CAP DEPTH 1m</p>	
WATER STRUCK, MBG	<i>2 1/2 m</i>		
STEADY YIELD, M ³ /HR	<i>2.1</i>		
DRAWDOWN, M	<i>30</i>		
METHOD OF PUMPING	<i>Elec. SUBMERSIBLE</i>		
WATER ANALYSIS	<i>P.X C. B.</i>		
REMARKS	Water Conductivity 1100 μ mhos/cm @ 25°C		
SKETCH OF WELL SITE			WELL POINT
		MAP NO.: <i>287/3</i>	
		SCALE: <i>1:50,000</i>	
		<i>GSD REF. NO. 90 25 24</i>	
		DISTANCE FROM EDGE OF MAP (MM)	
			
		LOCATED DATE: <i>7/11/81</i>	
		BY: <i>[Signature]</i>	

BOREHOLE LOCATION RECORD

LOCATION: MTUKAND, SONGHA DISTRICT, EJUJWA		BH NO.	2537/81
		CCKK NO.	RD3
DATA COLLECTED 6 Nov 81	FROM WELL LOG	ON SITE 6 Nov 81	
COMPLETION DATE	6 Nov 81	GROUND ELEV. MASL	840
CASING DIA. MM	100 mm	MEASUR. POINT M _B ^A G	0.6 m
TYPE OF SCREEN DIAMETER, MM	UPVC 100 mm	MP ELEVATION, MASL	853.2 m
		WATER LEVEL, MBG	26.8 m
DRILLED DEPTH, M	51	WATER LEVEL, MASL	853.2 m
STAND. WATER LEVEL, MBG	26.8	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	31.45-50	<p>100mm steel cap 0.6m 100mm UPVC 100mm</p>	
STEADY YIELD, M ³ /HR	3.6		
DRAWDOWN, M	8.2		
METHOD OF PUMPING	ELECTRIC SUBMERSIBLE		
WATER ANALYSIS	P. (C) B.		
REMARKS	<p>Water PC. ca 40 mg/liter Ca at 25°C</p>		
SKETCH OF WELL SITE		WELL POINT	
<p>MTUKAND RD3 K1177 STATION SONGHA</p>		MAP NO.: 287/1 SCALE: 1:50,000 70 916810 DISTANCE FROM EDGE OF MAP (MM)	
		<p align="center">250 x 194</p>	
		LOCATED DATE: 6 Nov 81 BY: MS	

BOREHOLE LOCATION RECORD

LOCATION: NDENYENDE, TUNDURU DISTRICT, SONOMA		BH NO.	25/181
		CCKK NO.	RD 4
DATA COLLECTED 11 Nov 21	FROM WELL LOG	ON SITE	
COMPLETION DATE	11 Nov 21	GROUND ELEV. MASL	760
CASING DIA. MM	100	MEASUR. POINT M _B ^a G	100
TYPE OF SCREEN DIAMETER, MM	UPVC 100	MP ELEVATION, MASL	761
		WATER LEVEL, MBG	2.47
DRILLED DEPTH, M	42 m	WATER LEVEL, MASL	7.47
STAND. WATER LEVEL, MBG	9 m	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	25.32	<p>100mm Steel Cap 100mm UPVC PIPE CEMENT</p>	
STEADY YIELD, M ³ /HR	5.34		
DRAWDOWN, M	11		
METHOD OF PUMPING	ELECTRIC SUBMERSIBLE		
WATER ANALYSIS	P. (C) B.		
REMARKS	Water Conductivity 580 μ mhos/cm		
SKETCH OF WELL SITE		WELL POINT	
<p>SONGER TUNDURU ca 65km RD5 RD4 2km N</p>		MAP NO.: 301/4 SCALE: 1:50,000 GRID REF BU 757033 DISTANCE FROM EDGE OF MAP (MM)	
		<p>45 x 109</p>	
		LOCATED DATE: 11 Nov 21	
		BY: [Signature]	

BOREHOLE LOCATION RECORD

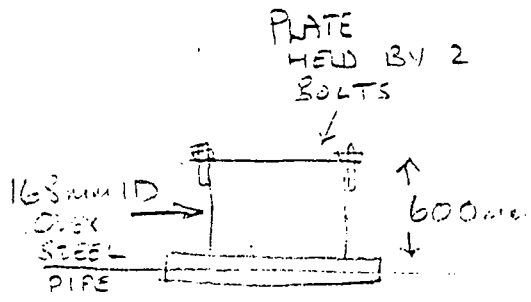
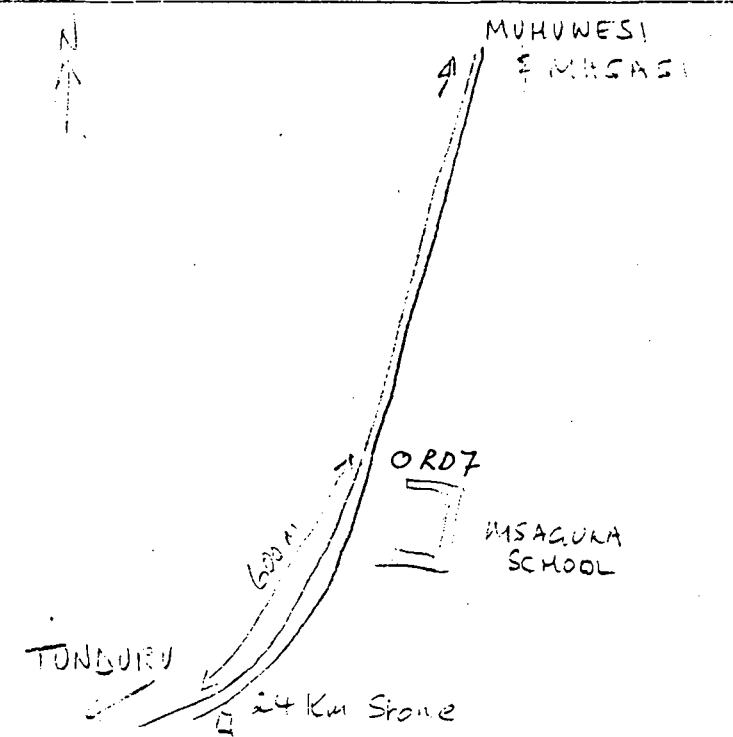
LOCATION: NDEYENDE, TONDURU DISTRICT, RUVUMA		BH NO.	257/81
		CCKK NO.	RD 5
DATA COLLECTED	13 NOV 81	FROM WELL LOG	ON SITE
COMPLETION DATE	12 NOV 81	GROUND ELEV. MASL	240
CASING DIA. MM	—	MEASUR. POINT M ^a / _b G	—
TYPE OF SCREEN DIAMETER, MM	—	MP ELEVATION, MASL	—
		WATER LEVEL, MBG	—
DRILLED DEPTH, M	73.50	WATER LEVEL, MASL	—
STAND. WATER LEVEL, MBG	—	SKETCH OF WELL TOP/MP	—
WATER STRUCK, MBG	—		
STEADY YIELD, M ³ /HR	—		
DRAWDOWN, M	—		
METHOD OF PUMPING	—		
WATER ANALYSIS	P. C. B.		
REMARKS	Hole dry and abandoned.		
SKETCH OF WELL SITE	WELL POINT		
	MAP NO.: 301/4 SCALE: 1:50,000 GRID REF BU 762104 DISTANCE FROM EDGE OF MAP (MM)		
LOCATED DATE: 13/11 1981		BY: MJJ	

BOREHOLE LOCATION RECORD

LOCATION: HANDEMBO, TUNDURU DISTRICT, KUVVINA		BH NO.	258/K1
		CCKK NO.	RD6
DATA COLLECTED 14 Nov 81	FROM WELL LOG	ON SITE	
COMPLETION DATE	14 Nov 81	GROUND ELEV. MASL	530
CASING DIA. MM	100	MEASUR. POINT MBG	0.6m
TYPE OF SCREEN DIAMETER, MM	UPVC 100	MP ELEVATION, MASL	603.6
		WATER LEVEL, MBG	26.46
DRILLED DEPTH, M	67.25	WATER LEVEL, MASL	574.2
STAND. WATER LEVEL, MBG	26.46	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	31.62		
STEADY YIELD, M ³ /HR	5.28		
DRAWDOWN, M	0.7		
METHOD OF PUMPING	ELECTRIC SUPERBURSTING		
WATER ANALYSIS	P. (C) B.		
REMARKS	WATER CONDUCTIVITY 210 μmhos/cm		
SKETCH OF WELL SITE		WELL POINT	
		MAP NO.: 302/3 SCALE: 1:50,000 GRID REF CT: 070 586 DISTANCE FROM EDGE OF MAP (MM)	
		LOCATED DATE: 14 Nov 81	
		BY: [Signature]	

BOREHOLE LOCATION RECORD

257/31

LOCATION: MUHUVESI - MSAGURA, TONDURU DISTRICT, RUVUMA		BH NO. 257	CCKK NO. RD7
DATA COLLECTED 16 Nov 81	FROM WELL LOG	ON SITE	
COMPLETION DATE	16 Nov 81	GROUND ELEV. MASL	510
CASING DIA. MM	168	MEASUR. POINT M ₀ ^a /G	-
TYPE OF SCREEN DIAMETER, MM	-	MP ELEVATION, MASL	510.60
		WATER LEVEL, MBG	-
DRILLED DEPTH, M	36 m	WATER LEVEL, MASL	-
STAND. WATER LEVEL, MBG	-	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	-	 <p style="text-align: center;">PLATE HELD BY 2 BOLTS</p> <p>168mm ID OVER STEEL PIPE</p> <p style="text-align: right;">↑ 600mm ↓</p>	
STEADY YIELD, M ³ /HR	-		
DRAWDOWN, M	-		
METHOD OF PUMPING	-		
WATER ANALYSIS	P. C. B.		
REMARKS	<p>Hole abandoned due to excessive drilling difficulties due to flowing mud.</p> <p>Hole blocked at 11 m on 17 Nov 81</p>		
SKETCH OF WELL SITE		WELL POINT	
 <p align="center">MUHUVESI & MSAGURI</p> <p align="center">MSAGURA SCHOOL</p> <p align="center">TONDURU</p> <p align="center">24 Km Stone</p>		<p>MAP NO.: 302/4</p> <p>SCALE: 1:50,000</p> <p align="center">GRID REF CT305972</p> <p>DISTANCE FROM EDGE OF MAP (MM)</p> <div style="border: 1px solid black; width: 150px; height: 100px; margin: 10px auto; display: flex; align-items: center; justify-content: center;"> <p>286 x 111</p> </div>	
		LOCATED DATE: 16 NOV 81	
		BY: MZJ	

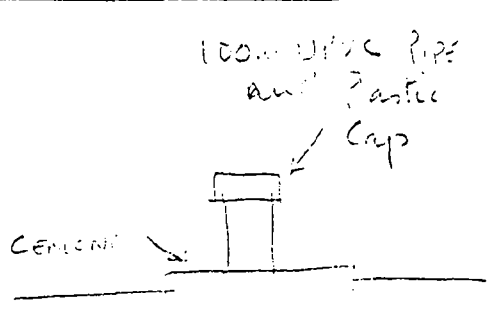
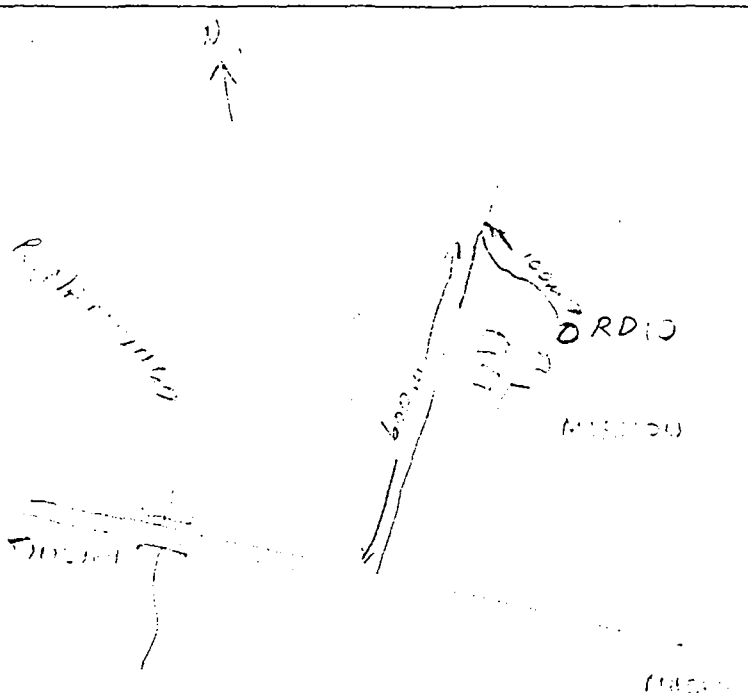
BOREHOLE LOCATION RECORD

LOCATION: SISIKWASISI, TUNDURU DISTRICT, RUVUMA		BH NO.	260/81
		CCKK NO.	RDB
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	17 NOV 81	GROUND ELEV. MASL	—
CASING DIA. MM	—	MEASUR. POINT M ^a / _B G	—
TYPE OF SCREEN DIAMETER, MM	—	MP ELEVATION, MASL	—
		WATER LEVEL, MBG	—
DRILLED DEPTH, M	54.75	WATER LEVEL, MASL	—
STAND. WATER LEVEL, MBG	—	SKETCH OF WELL TOP/MP <input type="checkbox"/>	
WATER STRUCK, MBG	—		
STEADY YIELD, M ³ /HR	—		
DRAWDOWN, M	—		
METHOD OF PUMPING	—		
WATER ANALYSIS	P. C. B.		
REMARKS	Hole abandoned due to drilling difficulties		
SKETCH OF WELL SITE		WELL POINT	
		MAP NO.: 302/C SCALE: 1:50,000 GRID REF: CT 245 832 DISTANCE FROM EDGE OF MAP (MM)	
		<div style="border: 1px solid black; width: 150px; height: 100px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> x 229 64 </div>	
		LOCATED DATE: 17 NOV 81 BY: M.J.	

BOREHOLE LOCATION RECORD

LOCATION: SISIKWASISI, TUNBURU DISTRICT, RUVUMI		BH NO.	261/81
		CCKK NO.	RD 9
DATA COLLECTED: 18/10/81	FROM WELL LOG	ON SITE	
COMPLETION DATE	18 Nov 81	GROUND ELEV. MASL	500
CASING DIA. MM	100	MEASUR. POINT M _B G	1.0
TYPE OF SCREEN DIAMETER, MM	UPVC 100	MP ELEVATION, MASL	501
		WATER LEVEL, MBG	-
DRILLED DEPTH, M	67.25	WATER LEVEL, MASL	-
STAND. WATER LEVEL, MBG	-	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	60, 63	<p>100mm UPVC PIPE AND PLASTIC CAP 10m CEMENT</p>	
STEADY YIELD, M ³ /HR	-		
DRAWDOWN, M	-		
METHOD OF PUMPING	-		
WATER ANALYSIS	P. C. B.		
REMARKS	No test possible. 3" hammer bit broken off at bottom of hole.		
SKETCH OF WELL SITE	WELL POINT		
<p>SISIKWASISI ABANDONED MKHAGIE TUNBURU 9km</p>	MAP NO.: 302/4 SCALE: 1:50,000 Grid Ref. CT 241 842 DISTANCE FROM EDGE OF MAP (MM)		
	<p>x 237 y 12</p>		
		LOCATED DATE: 18 NOV 81	
		BY: [Signature]	

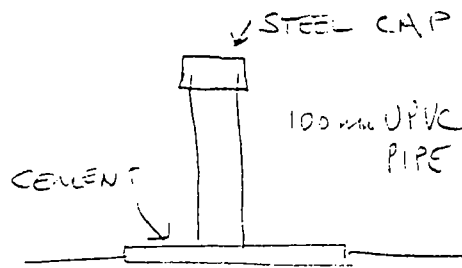
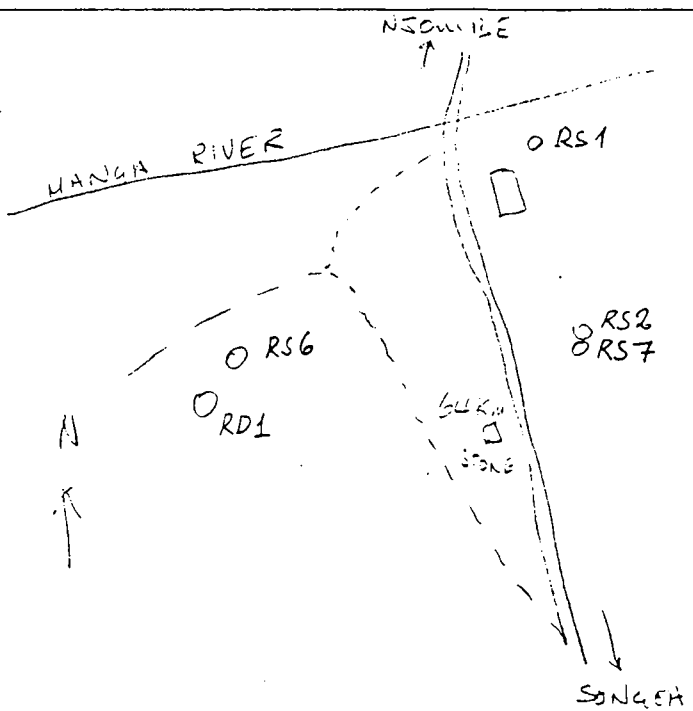
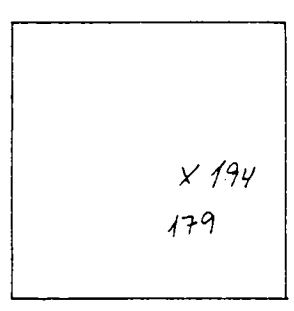
BOREHOLE LOCATION RECORD

LOCATION: <u>NANAYINGO, TUBURAN DISTRICT, RIVNARA</u>		BH NO. <u>702/81</u>	CCKK NO. <u>RD 10</u>
DATA COLLECTED <u>20/11/81</u>	FROM WELL LOG	ON SITE	
COMPLETION DATE	<u>19/11/81</u>	GROUND ELEV. MASL	<u>440</u>
CASING DIA. MM	<u>100</u>	MEASUR. POINT $M_{\frac{a}{b}}G$	<u>0.3m</u>
TYPE OF SCREEN DIAMETER, MM	<u>100mm</u>	MP ELEVATION, MASL	<u>440.3m</u>
		WATER LEVEL, MBG	<u>4.75</u>
DRILLED DEPTH, M	<u>67.25</u>	WATER LEVEL, MASL	<u>432.5</u>
STAND. WATER LEVEL, MBG	<u>4.45 (approx.)</u>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<u>17.0 (approx.) 53</u>	 <p>100mm PVC Pipe and Plastic Cap Cement</p>	
STEADY YIELD, M ³ /HR	<u>5.34</u>		
DRAWDOWN, M	<u>18.5</u>		
METHOD OF PUMPING	<u>Electric Submersible</u>		
WATER ANALYSIS	<u>P. (C) B.</u>		
REMARKS	<u>Water conductivity 420 μmhos</u> <u>Fresh rock at 61m</u>		
SKETCH OF WELL SITE		WELL POINT	
 <p>ROAD</p> <p>ROAD</p> <p>ROAD</p> <p>ORDIO</p> <p>MISION</p>		MAP NO.: <u>303/8</u>	
		SCALE: <u>1:50,000</u>	
		DISTANCE FROM EDGE OF MAP (MM)	
		<div style="border: 1px solid black; width: 100px; height: 100px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> 251 x 243 </div>	
		LOCATED DATE: <u>20/11/81</u>	
		BY: <u>[Signature]</u>	

BOREHOLE LOCATION RECORD

LOCATION: MAJIMAJI, TUNDURU DISTRICT, RUVUMA		BH NO.	263/81
		CCKK NO.	RD 11
DATA COLLECTED 20 NOV 81	FROM WELL LOG	ON SITE	
COMPLETION DATE	20 NOV 81	GROUND ELEV. MASL	462
CASING DIA. MM	100	MEASUR. POINT M ^a / _b G	0.6
TYPE OF SCREEN DIAMETER, MM	UPVC 100	MP ELEVATION, MASL	462.6
		WATER LEVEL, MBG	3.24
DRILLED DEPTH, M	73.50	WATER LEVEL, MASL	458.76
STAND. WATER LEVEL, MBG	3.24 (21 NOV 81)	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	11.37	<p>100mm UPVC pipe with plastic cap CEMENT</p>	
STEADY YIELD, M ³ /HR	1.94		
DRAWDOWN, M	35		
METHOD OF PUMPING	Electric Submersible		
WATER ANALYSIS	P. (C) B.		
REMARKS	Water Conductivity 440 μ hos/cm at 25°C		
SKETCH OF WELL SITE		WELL POINT	
<p>TONDURU ca 40km 40 Km Stone SCHOOL RD 11 MAJIMAJI VILLAGE MASASI</p>		MAP NO.: 303/3 SCALE: 1:50,000 Grid Ref: 438, 997 DISTANCE FROM EDGE OF MAP (MM)	
		<p>234 155 X</p>	
		LOCATED DATE: 20 NOV 81	
		BY: M J J	

BOREHOLE LOCATION RECORD

LOCATION: <i>MANGA RIVER, SONGHA DISTRICT, KVVUVA</i>		BH NO.	<i>284/R1</i>
		CCKK NO.	<i>RS1</i>
DATA COLLECTED <i>30 NOV</i>	FROM WELL LOG	ON SITE <i>INDI 31</i>	
COMPLETION DATE	<i>18 OCT 1981</i>	GROUND ELEV. MASL	<i>770</i>
CASING DIA. MM	<i>100</i>	MEASUR. POINT M _B ^A G	<i>1.0 MASL</i>
TYPE OF SCREEN DIAMETER, MM	<i>UPVC 100</i>	MP ELEVATION, MASL	<i>771</i>
		WATER LEVEL, MBG	<i>2.1</i>
DRILLED DEPTH, M	<i>30.9</i>	WATER LEVEL, MASL	<i>766.9</i>
STAND. WATER LEVEL, MBG	<i>3.1</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>6.2 18.0</i>	 <p style="text-align: center;">STEEL CAP 100 mm UPVC PIPE CEMENT</p>	
STEADY YIELD, M ³ /HR	<i>—</i>		
DRAWDOWN, M	<i>—</i>		
METHOD OF PUMPING	<i>—</i>		
WATER ANALYSIS	<i>P. C. B.</i>		
REMARKS			
SKETCH OF WELL SITE		WELL POINT	
		MAP NO.: <i>287/1</i>	
		SCALE: <i>1:50,000</i>	
		GRID REF: <i>YD 915 748</i>	
		DISTANCE FROM EDGE OF MAP (MM)	
			
		LOCATED DATE: <i>1/1/81</i>	
		BY: <i>[Signature]</i>	

BOREHOLE LOCATION RECORD

LOCATION: HANGA RIVER, SONGER DISTRICT, PUUVUVA		BH NO.	265/81
		CCKK NO.	RS.2
DATA COLLECTED	SONGER	FROM WELL LOG	ON SITE 11/01/81
COMPLETION DATE	21 Oct 81	GROUND ELEV. MASL	666
CASING DIA. MM	100 mm	MEASUR. POINT M ^a G	—
TYPE OF SCREEN DIAMETER, MM	100 mm UPVC	MP ELEVATION, MASL	666
		WATER LEVEL, MBG	1.3
DRILLED DEPTH, M	30.9	WATER LEVEL, MASL	664.7
STAND. WATER LEVEL, MBG	1.3	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	6.2, 12.4, 21.0	Hole 10 m to NE of SW7.	
STEADY YIELD, M ³ /HR	—		
DRAWDOWN, M	—		
METHOD OF PUMPING	—		
WATER ANALYSIS	P. C. B.		
REMARKS	Well collapsed when being cleaned with air compressor and casing removed along with air lift pipe.		
SKETCH OF WELL SITE	WELL POINT		
	MAP NO.: 287/A SCALE: 1:50,000 GRID REF. YD 018706 DISTANCE FROM EDGE OF MAP (MM)		
LOCATED DATE: 1/10/81		BY: WIT.	

BOREHOLE LOCATION RECORD

LOCATION: MTYANGIMBODE, SONGHA DISTRICT, RUWUMA		BH NO.	206/81
		CCKK NO.	RS3
DATA COLLECTED 2 Nov 81	FROM WELL LOG	ON SITE 2 Nov 81	
COMPLETION DATE	27 OCT 81	GROUND ELEV. MASL	1000
CASING DIA. MM	—	MEASUR. POINT MBG	—
TYPE OF SCREEN DIAMETER, MM	—	MP ELEVATION, MASL	—
		WATER LEVEL, MBG	—
DRILLED DEPTH, M	36.6	WATER LEVEL, MASL	—
STAND. WATER LEVEL, MBG	—	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	—		
STEADY YIELD, M ³ /HR	—		
DRAWDOWN, M	—		
METHOD OF PUMPING	—		
WATER ANALYSIS	P. C. B.		
REMARKS	DRY HOLE SITE 50 metres from head in road		
SKETCH OF WELL SITE		WELL POINT	
<p>A hand-drawn sketch of the well site. It shows a track starting from the bottom left and curving upwards and to the right. A north arrow is drawn at the top left. A point on the track is marked with a square and labeled '40 KM STONE'. Further up the track, a hill is marked with a circle and labeled 'ANT HILL ORS3'. The track ends at a point marked with an 'X' and labeled 'SONGHA'.</p>		MAP NO.: 287/3 SCALE: 1:50,000 GRID REF YD 914539 DISTANCE FROM EDGE OF MAP (MM)	
		<div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> 239 X 194 </div>	
		LOCATED DATE: 2 Nov 81 BY: M.J.T.	

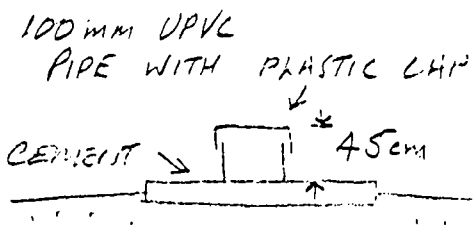
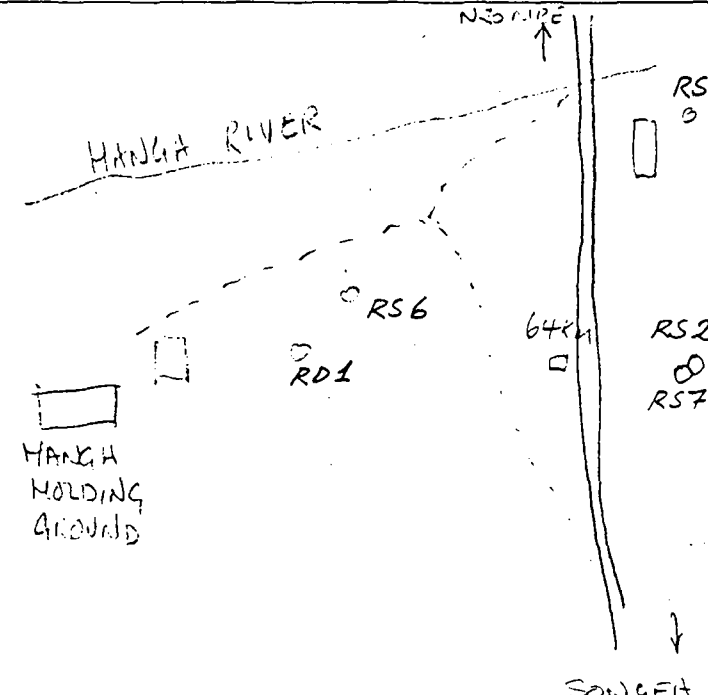
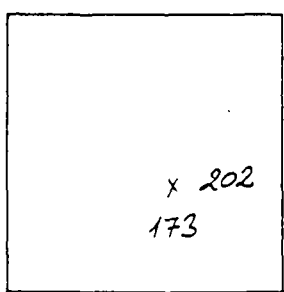
BOREHOLE LOCATION RECORD

LOCATION: MTAPA , SONCEA DISTRICT, RUVUMU		BH NO.	267/81
		CCKK NO.	RS4
DATA COLLECTED	2 Nov 81	FROM WELL LOG	ON SITE 2 Nov 81
COMPLETION DATE	29 Oct. 81	GROUND ELEV. MASL	875
CASING DIA. MM	—	MEASUR. POINT M _a G	—
TYPE OF SCREEN DIAMETER, MM	—	MP ELEVATION, MASL	—
		WATER LEVEL, MBG	—
DRILLED DEPTH, M	30.9	WATER LEVEL, MASL	—
STAND. WATER LEVEL, MBG	—	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	—		
STEADY YIELD, M ³ /HR	—		
DRAWDOWN, M	—		
METHOD OF PUMPING	—		
WATER ANALYSIS	P. C. B.		
REMARKS	DRY HOLE		
SKETCH OF WELL SITE		WELL POINT	
		MAP NO.:	287/3
		SCALE:	1:50,000
		GRID REF YD:	906620
		DISTANCE FROM EDGE OF MAP (MM)	
			76 x 211
		LOCATED DATE:	30 Nov 81
		BY:	MTT

BOREHOLE LOCATION RECORD

LOCATION: <i>GUMBIRO, SONGEA DISTRICT, RUUVUMBA</i>		BH NO.	<i>268131</i>
		CCKK NO.	<i>R55</i>
DATA COLLECTED <i>2 Nov 81</i>	FROM WELL LOG	ON SITE <i>4 Nov 81</i>	
COMPLETION DATE	<i>1 Nov 81</i>	GROUND ELEV. MASL	
CASING DIA. MM	<i>NIL</i>	MEASUR. POINT M _D ^a G	<i>—</i>
TYPE OF SCREEN DIAMETER, MM	<i>NIL</i>	MP ELEVATION, MASL	<i>—</i>
		WATER LEVEL, MBG	<i>—</i>
DRILLED DEPTH, M	<i>30.9</i>	WATER LEVEL, MASL	<i>—</i>
STAND. WATER LEVEL, MBG	<i>NIL</i>	SKETCH OF WELL TOP/MP <i>—</i>	
WATER STRUCK, MBG	<i>NIL</i>		
STEADY YIELD, M ³ /HR	<i>NIL</i>		
DRAWDOWN, M	<i>NIL</i>		
METHOD OF PUMPING	<i>—</i>		
WATER ANALYSIS	P. C. B.		
REMARKS	<i>DRY HOLE.</i>		
SKETCH OF WELL SITE		WELL POINT	
<p><i>N</i> ↑ <i>NDUMBE</i> ↗ <i>GUMBIRO VILLAGE.</i> <i>R55</i> <i>RD2</i> ↓ <i>SONGEA</i> <i>ca 51 km</i></p>		<p>MAP NO.: <i>287/3</i> SCALE: <i>1:50,000</i> GRID REF: <i>YD 903634</i> DISTANCE FROM EDGE OF MAP (MM)</p> <div style="border: 1px solid black; width: 150px; height: 100px; margin: 10px auto; display: flex; align-items: center; justify-content: center;"> <i>49</i> x <i>219</i> </div>	
		LOCATED DATE: <i>4 Nov 81</i>	
		BY: <i>W. J. J.</i>	

BOREHOLE LOCATION RECORD

LOCATION: HANGA RIVER, SONGEEA DISTRICT, RUUVUMH		BH NO.	269/81
		CCKK NO.	RS6
DATA COLLECTED 5 Nov 81	FROM WELL LOG	ON SITE 5 Nov 81	
COMPLETION DATE	4 Nov 81	GROUND ELEV. MASL	770.
CASING DIA. MM	100 UPVC	MEASUR. POINT M ^a / _b G	—
TYPE OF SCREEN DIAMETER, MM	100 UPVC	MP ELEVATION, MASL	
		WATER LEVEL, MBG	4.45
DRILLED DEPTH, M	36.5	WATER LEVEL, MASL	765.55
STAND. WATER LEVEL, MBG	4.45	SKETCH OF WELL TOP/MP 	
WATER STRUCK, MBG	15.0		
STEADY YIELD, M ³ /HR	—		
DRAWDOWN, M	—		
METHOD OF PUMPING	—		
WATER ANALYSIS	P. C. B.		
REMARKS	Observation Well drilled 40 m to NE of RDI.		
SKETCH OF WELL SITE		WELL POINT	
		MAP NO.: 287/1	
		SCALE: 1:50000	
		GRID REF YD 912 746	
		DISTANCE FROM EDGE OF MAP (MM)	
			
		LOCATED DATE: 5 Nov 81	
		BY: M.J.	

BOREHOLE LOCATION RECORD

LOCATION: <u>HANGA RIVER, SANGHA DISTRICT, KUVVUNA</u>		BH NO. <u>270/81</u>
		CCKK NO. <u>RS7</u>
DATA COLLECTED <u>6/10/81</u>	FROM WELL LOG	ON SITE <u>6/10/81</u>
COMPLETION DATE <u>6/10/81</u>		GROUND ELEV. MASL <u>666</u>
CASING DIA. MM <u>100</u>		MEASUR. POINT M _D G <u>1 m AGL</u>
TYPE OF SCREEN DIAMETER, MM <u>UPVC 100</u>		MP ELEVATION, MASL <u>667</u>
		WATER LEVEL, MBG <u>3.71</u>
DRILLED DEPTH, M <u>22.8</u>		WATER LEVEL, MASL <u>662.3</u>
STAND. WATER LEVEL, MBG <u>6.1</u>		SKETCH OF WELL TOP/MP
WATER STRUCK, MBG <u>10.0, 15.0</u>		<p>100 mm UPVC pipe with plastic cap</p>
STEADY YIELD, M ³ /HR <u>—</u>		
DRAWDOWN, M <u>—</u>		
METHOD OF PUMPING		
WATER ANALYSIS <u>P. C. B.</u>		
REMARKS	<p>Hole located 10m SW of SW2. HOLE DRILLED TO REPLACE SW2</p>	
SKETCH OF WELL SITE	WELL POINT	
	MAP NO.: <u>287/1</u>	
	SCALE: <u>1:50,000</u>	
	GRID REF <u>YD918746</u>	
	DISTANCE FROM EDGE OF MAP (MM)	
	LOCATED DATE: <u>07/10/81</u>	
	BY: <u>...</u>	

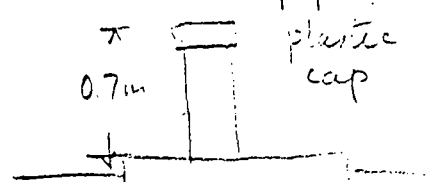
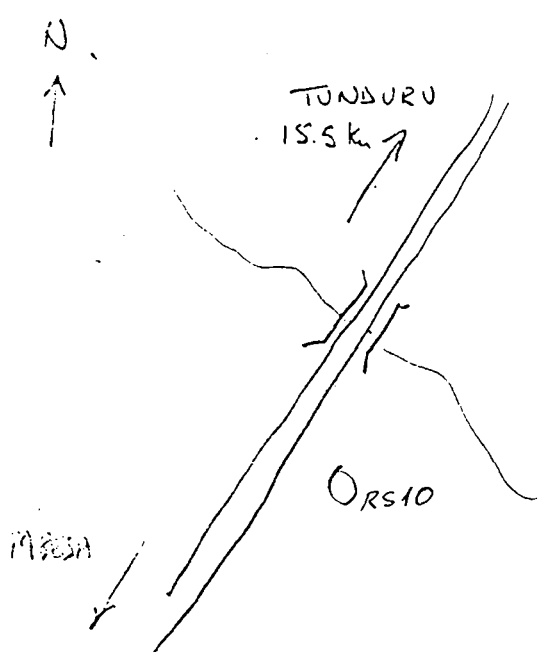
BOREHOLE LOCATION RECORD

LOCATION: AZIMIO, TUNDURU DISTRICT, RUVUMA		BH NO.	27/81
		CCKK NO.	RS'8
DATA COLLECTED 20/10/81	FROM WELL LOG	ON SITE	
COMPLETION DATE	16 NOV 81	GROUND ELEV. MASL	560
CASING DIA. MM	100	MEASUR. POINT M ^A / _B G	0.3
TYPE OF SCREEN DIAMETER, MM	UPVC 100	MP ELEVATION, MASL	560.3
		WATER LEVEL, MBG	0.8
DRILLED DEPTH, M	10.6	WATER LEVEL, MASL	559.2
STAND. WATER LEVEL, MBG	0.8	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	5.6	<p>100 mm UPVC Pipe with plastic cap</p> <p>CEMENT</p>	
STEADY YIELD, M ³ /HR	—		
DRAWDOWN, M	—		
METHOD OF PUMPING	—		
WATER ANALYSIS	P. C. B.		
REMARKS	Water level dropped to 6.83 m after 0.75 min during test. Q less than 0.2 litres sec		
SKETCH OF WELL SITE		WELL POINT	
		MAP NO.: 314/2 SCALE: 1:50,000 Grid Ref Ct: 134689 DISTANCE FROM EDGE OF MAP (MM)	
		<p>90 x 158</p>	
		LOCATED DATE: 20/10/81	
		BY: M J J	

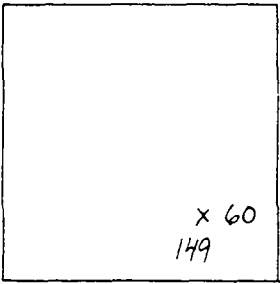
BOREHOLE LOCATION RECORD

LOCATION: AZIMIO, TUNDURU DISTRICT, RUUVUMA		BH NO.	272/R1
		CCKK NO.	RS 9
DATA COLLECTED 20 Nov 81	FROM WELL LOG	ON SITE	
COMPLETION DATE	17 Nov 81	GROUND ELEV. MASL	540
CASING DIA. MM	100	MEASUR. POINT MBG	0.6
TYPE OF SCREEN DIAMETER, MM	UPVC 100	MP ELEVATION, MASL	540.6
		WATER LEVEL, MBG	2.1
DRILLED DEPTH, M	12.1 m	WATER LEVEL, MASL	537.9
STAND. WATER LEVEL, MBG	2.11 m	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	6.1 m	<p>100 mm UPVC pipe with plastic cap</p> <p>CONCRETE</p>	
STEADY YIELD, M ³ /HR	—		
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	P. C. B.		
REMARKS	Insufficient yield to test		
SKETCH OF WELL SITE		WELL POINT	
<p>N ↑</p> <p>TUNDURU ca 14 km</p> <p>RS9</p> <p>ARBESA</p>		MAP NO.: 314/2	
		SCALE: 1:50,000	
		Grid Ref ct: 118,679	
		DISTANCE FROM EDGE OF MAP (MM)	
		<p>59 x 237</p>	
		LOCATED DATE: 20 Nov 81	
		BY: 1133	

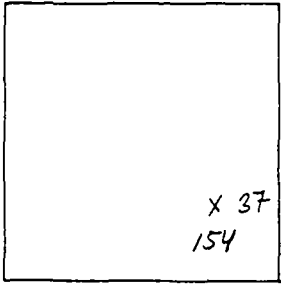
BOREHOLE LOCATION RECORD

LOCATION: AZIMIO, TONDURU DISTRICT, KUVVINKA		BH NO. 273/81
		CCKK NO. RS 10
DATA COLLECTED 20 Nov 81	FROM WELL LOG	ON SITE
COMPLETION DATE	12 Nov 81	GROUND ELEV. MASL 540
CASING DIA. MM	100	MEASUR. POINT M _D ^A G 0.70
TYPE OF SCREEN	UPVC	MP ELEVATION, MASL 540.7
DIAMETER, MM	100	WATER LEVEL, MBG 0.8
DRILLED DEPTH, M	18.3	WATER LEVEL, MASL 539.2
STAND. WATER LEVEL, MBG	0.8	SKETCH OF WELL TOP/MP
WATER STRUCK, MBG	10 - 15m	<div style="text-align: right; margin-bottom: 5px;">100 mm UPVC pipe with plastic cap</div> 
STEADY YIELD, M ³ /HR	-	
DRAWDOWN, M	-	
METHOD OF PUMPING	-	
WATER ANALYSIS	P. C. B.	
REMARKS	Yield too low to test.	
SKETCH OF WELL SITE		WELL POINT
		MAP NO.: 314/2 SCALE: 1:50,000 Grid Ref CT 115,666 DISTANCE FROM EDGE OF MAP (MM)
		<div style="border: 1px solid black; width: 150px; height: 100px; margin: 0 auto; display: flex; flex-direction: column; align-items: center; justify-content: center;"> 48x 212 </div>
		LOCATED DATE: 20 Nov 81
		BY: W. J. C.

BOREHOLE LOCATION RECORD

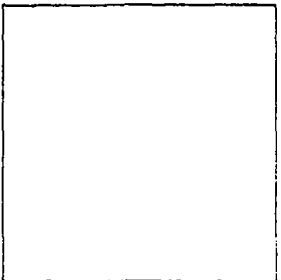
LOCATION: <i>A211410, TUNDURU DISTRICT, PUVUNTA</i>		BH NO. <i>274/81</i>	CCKK NO. <i>RS 11</i>
DATA COLLECTED <i>30/10/81</i>	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>18 Nov 81</i>	GROUND ELEV. MASL	
CASING DIA. MM	-	MEASUR. POINT $M \frac{a}{b}$ G	
TYPE OF SCREEN	-	MP ELEVATION, MASL	
DIAMETER, MM	-	WATER LEVEL, MBG	
DRILLED DEPTH, M	<i>26.4</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>3.5 (19/10/81)</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>18.1</i>		
STEADY YIELD, M ³ /HR	-		
DRAWDOWN, M	-		
METHOD OF PUMPING	-		
WATER ANALYSIS	P. C. B.		
REMARKS	<i>WELL ABANDONED DRY</i>		
SKETCH OF WELL SITE		WELL POINT	
		MAP NO.:	<i>314/1</i>
		SCALE:	<i>1:50,000</i>
		DISTANCE FROM EDGE OF MAP (MM)	
			
		LOCATED DATE:	
		BY:	

BOREHOLE LOCATION RECORD

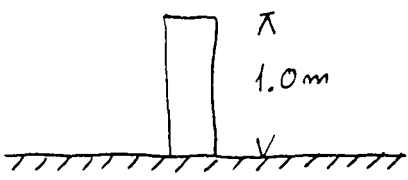
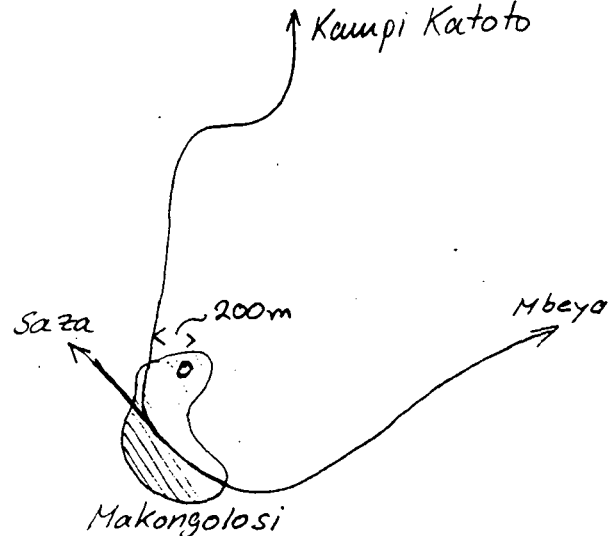
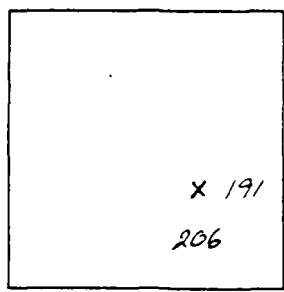
LOCATION: <i>AZIMIO ; TUNDURY DISTRICT, RUVUMIA</i>		BH NO.	<i>275/31</i>
		CCKK NO.	<i>RS 12</i>
DATA COLLECTED <i>20 NOV 81</i>	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>19 NOV 81</i>	GROUND ELEV. MASL	
CASING DIA. MM	<i>—</i>	MEASUR. POINT M_b^a	
TYPE OF SCREEN DIAMETER, MM	<i>—</i>	MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M	<i>23.1</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>—</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>—</i>		
STEADY YIELD, M ³ /HR			
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	P. C. B.		
REMARKS	<i>HOLE ABANDONED DRY</i>		
SKETCH OF WELL SITE		WELL POINT	
		MAP NO.:	<i>314/1</i>
		SCALE:	<i>1:50,000</i>
		€	
		DISTANCE FROM EDGE OF MAP (MM)	
			
		LOCATED DATE:	
		BY:	

MBEYA

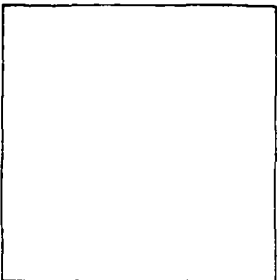
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Mbeya, Distr: Chunya</i>		BH NO.	<i>6/36</i>
<i>Vil: Fungia Jioni</i>		CCKK NO.	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>4/6 1937</i>	GROUND ELEV. MASL	
CASING DIA. MM	<i>203</i>	MEASUR. POINT $M_{\frac{a}{b}}G$	
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M	<i>89.0</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG		SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG			
STEADY YIELD, M ³ /HR			
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	P. C. B.		
REMARKS	<i>Not located</i>		
SKETCH OF WELL SITE	WELL POINT		
	MAP NO.:		
	SCALE:		
	DISTANCE FROM EDGE OF MAP (MM)		
			
	LOCATED DATE: <i>1/11 1980</i>		
	BY: <i>JLW</i>		

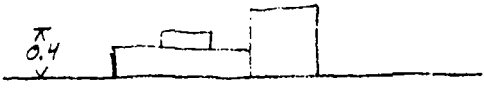
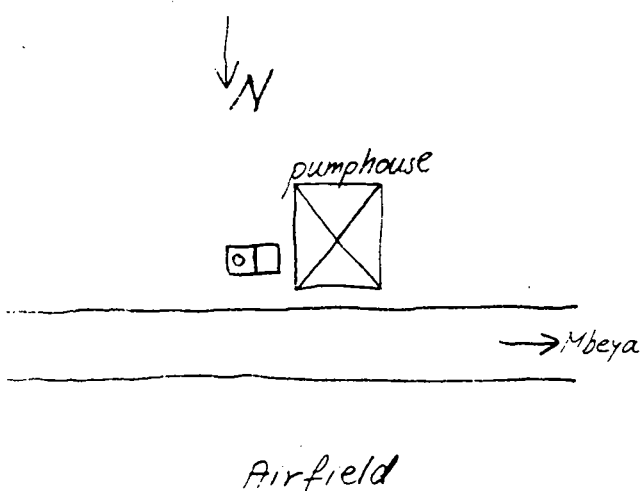
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Mbeya, Distr: Chunya</i> <i>Vil: Makongolasi</i>		BH NO. <i>8/36</i>	
		CCKK NO.	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>26/11 1936</i>	GROUND ELEV. MASL	<i>1230</i>
CASING DIA. MM	<i>203</i>	MEASUR. POINT $M_{\frac{a}{b}}G$	
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M	<i>57.9</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>6.1</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>25</i>		
STEADY YIELD, M ³ /HR	<i>1.8</i>		
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	P. <i>(C)</i> B.		
REMARKS	<p style="font-size: 1.2em;"><i>Dry, Not in use.</i></p> <p style="font-size: 1.2em;"><i>Colapsed</i></p>		
SKETCH OF WELL SITE		WELL POINT	
		MAP NO.: <i>228/III</i> SCALE: <i>1:50,000</i>	
		DISTANCE FROM EDGE OF MAP (MM)	
		LOCATED DATE: <i>31/10 1980</i>	
		BY: <i>RORDAM</i>	

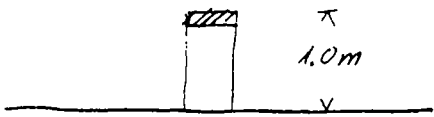
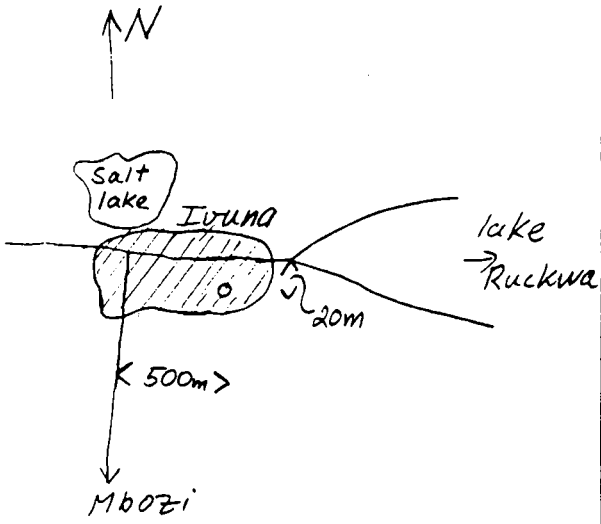
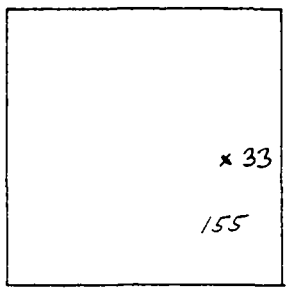
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Mbeya, Distr: Chunya</i> <i>Vil: Kungutas</i>		BH NO.	<i>13/37</i>
		CCKK NO.	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>23/12 1937</i>	GROUND ELEV. MASL	
CASING DIA. MM	<i>152</i>	MEASUR. POINT $M_{\frac{a}{b}}^G$	
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M	<i>49.1</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>1</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>37.5</i>		
STEADY YIELD, M ³ /HR	<i>0.9</i>		
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	P. C. B.		
REMARKS	<i>Impossible to locate</i>		
SKETCH OF WELL SITE	WELL POINT		
	MAP NO.:		
	SCALE:		
	DISTANCE FROM EDGE OF MAP (MM)		
			
	LOCATED DATE: <i>1/11 1980</i>		
	BY: <i>JLW</i>		

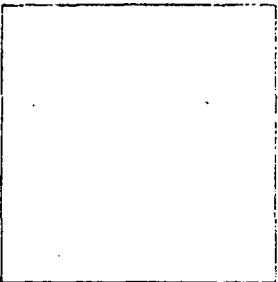
BOREHOLE LOCATION RECORD

LOCATION: Reg Mbeya Distr Mbeya VI Mbeya Airfield		BH NO. 3/40	CCKK NO.
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE		GROUND ELEV. MASL	1707
CASING DIA. MM	165	MEASUR. POINT M _a / _b G	
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M	79.2	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	36.6	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG			
STEADY YIELD, M ³ /HR	3.6		
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	P. (C.) B.		
REMARKS	<p>Well not in use.</p> <p>Shallow water level in filled up well.</p>		
SKETCH OF WELL SITE	<p>WELL POINT</p> <p>MAP NO.: 244/IV</p> <p>SCALE: 1:50,000</p> <p>DISTANCE FROM EDGE OF MAP (MM)</p> <div style="border: 1px solid black; width: 150px; height: 100px; margin: 10px auto; display: flex; align-items: center; justify-content: center;"> x 92 183 </div> <p>LOCATED DATE: 8/10 1980</p> <p>BY: RORDHM</p>		
			

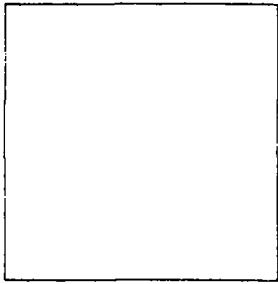
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg. Mbeya, Distr. Mbozi</i> <i>Vil. Ivuna</i>		BH NO.	<i>18/52</i>		
		CCKK NO.			
DATA COLLECTED	FROM WELL LOG	ON SITE			
COMPLETION DATE	<i>13/10 1952</i>	GROUND ELEV. MASL	<i>930</i>		
CASING DIA. MM	<i>152</i>	MEASUR. POINT $M_{\frac{a}{b}}G$			
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL			
		WATER LEVEL, MBG			
DRILLED DEPTH, M	<i>91.4</i>	WATER LEVEL, MASL			
STAND. WATER LEVEL, MBG	<i>8</i>	SKETCH OF WELL TOP/MP			
WATER STRUCK, MBG	<i>15, 19.5, 46, 67</i>				
STEADY YIELD, M ³ /HR	<i>10.9</i>				
DRAWDOWN, M					
METHOD OF PUMPING					
WATER ANALYSIS	P. <i>(C.)</i> B.				
REMARKS	<p><i>Impossible to remove cap.</i> <i>Geol. Sounding performed</i></p>				
SKETCH OF WELL SITE				WELL POINT	
		MAP NO.: <i>226 / IV</i> SCALE: <i>1:50,000</i> DISTANCE FROM EDGE OF MAP (MM)			
					
		LOCATED DATE: <i>27/1, 1981</i> BY: <i>RORDAM</i>			

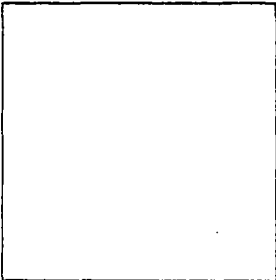
BOREHOLE LOCATION RECORD

LOCATION: <i>Peg Mbeya, Distr Mbozi</i> <i>V1 Ivuna</i>		BH NO. <i>3042</i>
		CCKK NO.
DATA COLLECTED	FROM WELL LOG	ON SITE
COMPLETION DATE		GROUND ELEV. MASL <i>App 930</i>
CASING DIA. MM		MEASUR. POINT M _b ^a G
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL
		WATER LEVEL, MBG
DRILLED DEPTH, M	<i>25.3</i>	WATER LEVEL, MASL
STAND. WATER LEVEL, MBG	<i>10.0</i>	SKETCH OF WELL TOP/MP
WATER STRUCK, MBG	<i>14, 39</i>	
STEADY YIELD, M ³ /HR	<i>18</i>	
DRAWDOWN, M		
METHOD OF PUMPING		
WATER ANALYSIS	F. <input checked="" type="radio"/> B.	
REMARKS	<p><i>Impossible to locate.</i></p> <p><i>Not in use.</i></p> <p><i>Situated somewhere west of Salt Lake</i></p>	
SKETCH OF WELL SITE	WELL POINT	
	MAP NO.:	
	SCALE:	
	DISTANCE FROM EDGE OF MAP (MM)	
		
	LOCATED DATE: <i>27/1/1981</i>	
	BY: <i>RORDAM</i>	

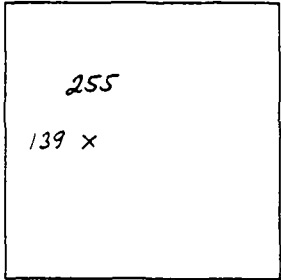
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Mbeya, Distr: Mbozi</i> <i>Vit: Mbimba</i>		BH NO.	<i>42/55</i>
		CCKK NO.	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>22/12 1955</i>	GROUND ELEV. MASL	
CASING DIA. MM	<i>152-203 ?</i>	MEASUR. POINT $M \frac{a}{b} G$	
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M	<i>36.6</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>-0.6</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>20.0</i>		
STEADY YIELD, M ³ /HR	<i>3.0</i>		
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	P. <input checked="" type="radio"/> B.		
REMARKS	<p><i>Dam constructed at well site</i> <i>No access to borehole</i></p>		
SKETCH OF WELL SITE	WELL POINT	MAP NO. : SCALE : DISTANCE FROM EDGE OF MAP (MM)	
			
		LOCATED DATE: <i>9/10 1980</i>	
		BY: <i>JLW</i>	

BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Mbeya, Distr: Mbozi</i>		BH NO.	<i>49/55</i>
<i>Vil: Mbimba</i>		CCKK NO.	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>23/11 1955</i>	GROUND ELEV. MASL	
CASING DIA. MM		MEASUR. POINT $M \frac{a}{b} G$	
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M	<i>61.5</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG		SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG			
STEADY YIELD, M ³ /HR			
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	P. C. B.		
REMARKS	<p><i>Dam constructed at borehole site.</i></p> <p><i>No access to borehole.</i></p>		
SKETCH OF WELL SITE	WELL POINT	MAP NO.: SCALE: DISTANCE FROM EDGE OF MAP (MM)	
			
		LOCATED DATE: <i>9/10 1980</i>	
		BY: <i>JLW</i>	

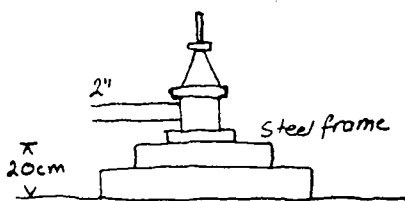
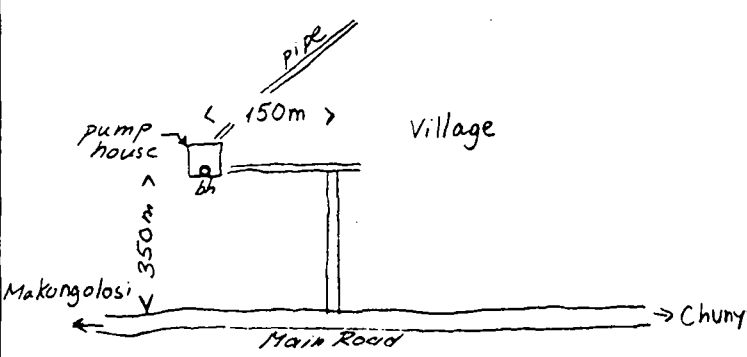
BOREHOLE LOCATION RECORD

LOCATION: Reg: Mbeya , Distr: Chunya Vil: Ntumbi		BH NO.	6/66 or 3/66
		CCKK NO.	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE		GROUND ELEV. MASL	
CASING DIA. MM		MEASUR. POINT $M_{\frac{a}{b}}^c$	
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M	48	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG		SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG			
STEADY YIELD, M ³ /HR	7.0		
DRAWDOWN, M	2.6		
METHOD OF PUMPING			
WATER ANALYSIS	P. (C) B.		
REMARKS	<p>No access, Military Area. Geol. Sounding performed appr 2 km south of well.</p>		
SKETCH OF WELL SITE	WELL POINT		
	MAP NO.: 228 / IV SCALE: 1:50,000		
	DISTANCE FROM EDGE OF MAP (MM)		
			
	LOCATED DATE: 29/10 1980		
	BY: ROROM		

BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Mbeya, Distr: Mbeya</i>		BH NO.	<i>15/69</i>
Vil: <i>Mbeya</i>		CCKK NO.	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE		GROUND ELEV. MASL	<i>1742</i>
CASING DIA. MM	<i>152</i>	MEASUR. POINT M ^a / _B G	<i>1.5</i>
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	<i>> 71</i>
DRILLED DEPTH, M	<i>125.9</i>	WATER LEVEL, MASL	<i>< 1671</i>
STAND. WATER LEVEL, MBG	<i>80</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>86</i>		
STEADY YIELD, M ³ /HR	<i>9.1</i>		
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	P. C. B.		
REMARKS	<p><i>Borehole collapsed</i></p> <p><i>Not in use</i></p>		
SKETCH OF WELL SITE	WELL POINT		
	MAP NO.: <i>244/IZ</i> SCALE: <i>1:50,000</i>		
	DISTANCE FROM EDGE OF MAP (MM)		
		LOCATED DATE: <i>7/10 1980</i>	
		BY: <i>RORDAM</i>	

BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Mbeya , Distr: Chunya</i>		BH NO.	<i>21/71</i>
Vil: <i>Matundasi</i>		CCKK NO.	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE		GROUND ELEV. MASL	<i>1345</i>
CASING DIA. MM	<i>203</i>	MEASUR. POINT M_{MBG}^a	<i>0.2</i>
TYPE OF SCREEN		MP ELEVATION, MASL	
DIAMETER, MM		WATER LEVEL, MBG	<i>9.97</i>
DRILLED DEPTH, M	<i>153</i>	WATER LEVEL, MASL	<i>1335</i>
STAND. WATER LEVEL, MBG	<i>8.2</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG			
STEADY YIELD, M ³ /HR	<i>3.4</i>		
DRAWDOWN, M	<i>19</i>		
METHOD OF PUMPING	<i>Monolift Borehole Pump</i>		
WATER ANALYSIS	P. C. B.		
REMARKS	<p><i>Was not in use.</i></p> <p><i>Pump Engine broken down</i></p>		
SKETCH OF WELL SITE	WELL POINT		
	MAP NO.: <i>228/IX</i> SCALE: <i>1:50,000</i>		
	DISTANCE FROM EDGE OF MAP (MM)		
	<div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> 70 38 x </div>		
LOCATED DATE: <i>1/11 1980</i>		BY: <i>JLW</i>	


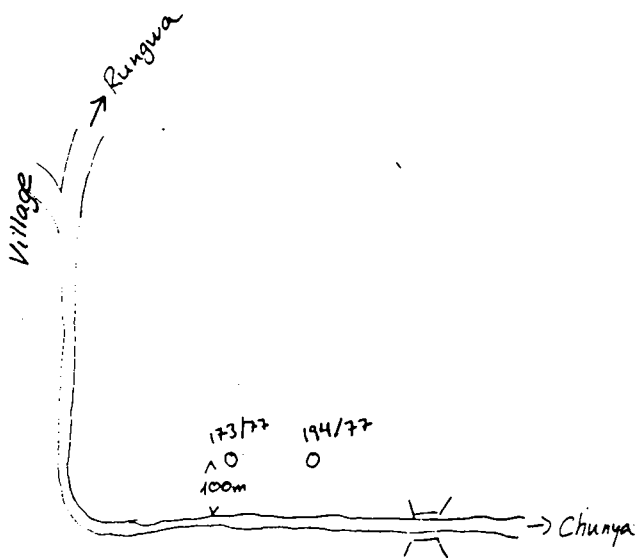
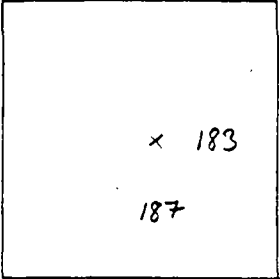
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Mbeya , Distr: Chunya</i> <i>Vil: Kampi Katoto</i>		BH NO. <i>118/71</i>	CCKK NO.
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>4/1 1972</i>	GROUND ELEV. MASL	<i>1360</i>
CASING DIA. MM	<i>1200</i>	MEASUR. POINT $M \frac{a}{b} G$	
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M	<i>76.2</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>6.1</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>9</i>		
STEADY YIELD, M ³ /HR	<i>1.36</i>		
DRAWDOWN, M	<i>41.1</i>		
METHOD OF PUMPING			
WATER ANALYSIS	P. (C) B.		
REMARKS	<i>Dry hole, Concrete Ring well.</i> <i>Geol. Sounding performed</i> <i>20m east of well</i>		
SKETCH OF WELL SITE	WELL POINT		
	MAP NO. : SCALE: <i>Aerial Photo 102, 1815, 101</i> <i>App scale 1:50,000</i> DISTANCE FROM EDGE OF MAP (MM)		
LOCATED DATE: <i>30/10 1980</i>		BY: <i>RORDAM</i>	

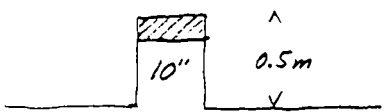
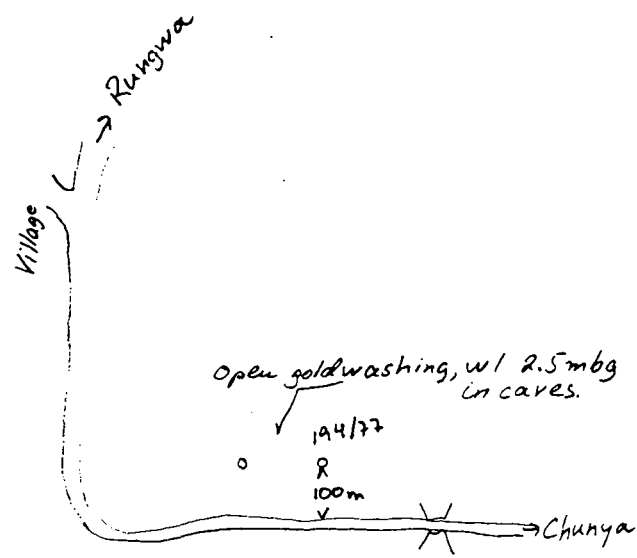
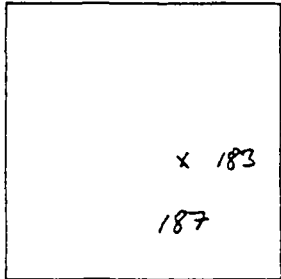
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Mbeya, Distr: Chunya</i> <i>V/L: Mafyeko</i>		BH NO.	<i>153/77</i>
		CCKK NO.	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>19/8 1977</i>	GROUND ELEV. MASL	
CASING DIA. MM	<i>254</i>	MEASUR. POINT $\frac{a}{b}$ G	
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M	<i>92.9</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>4.6</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>58</i>		
STEADY YIELD, M ³ /HR			
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	P. C. B.		
REMARKS	<p><i>Impossible to locate.</i></p> <p><i>Casing withdrawn</i></p>		
SKETCH OF WELL SITE	WELL POINT	<p>MAP NO.: <i>Arial photo</i></p> <p>SCALE: <i>97/1835/23</i></p> <p><i>7°30', 33°26'</i></p> <p>DISTANCE FROM EDGE OF MAP (MM)</p> <div style="text-align: center; border: 1px solid black; width: 150px; height: 100px; margin: 20px auto;"></div>	
		<p>LOCATED DATE: <i>30/10 1980</i></p> <p>BY: <i>JLW</i></p>	

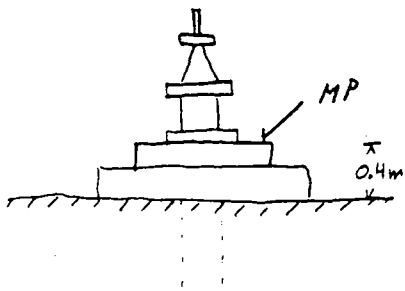
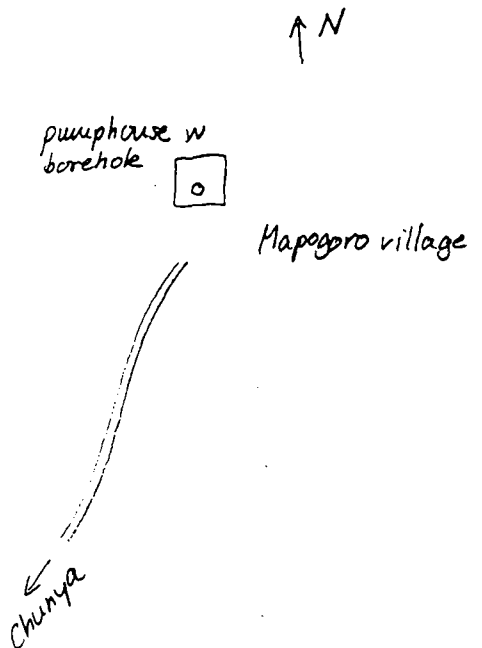
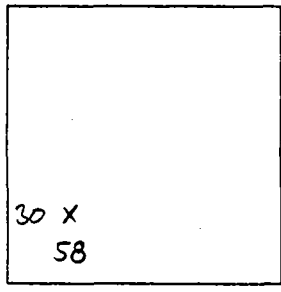
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Mbeya, Distr: Chunya</i>		BH NO.	<i>173/77</i>
<i>Vil: Makongolasi</i>		CCKK NO.	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>19/9 1977</i>	GROUND ELEV. MASL	<i>1220</i>
CASING DIA. MM	<i>254</i>	MEASUR. POINT M ² G	<i>0.2</i>
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M	<i>123.4</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>3.5</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>8, 52, 104</i>		
STEADY YIELD, M ³ /HR	<i>1.4</i>		
DRAWDOWN, M	<i>33.1</i>		
METHOD OF PUMPING			
WATER ANALYSIS	<i>P. C. B.</i>		
REMARKS	<p><i>Impossible to remove cap.</i> <i>4" rising main dropped in borehole</i> <i>from 123.4 mbg to 70 mbg</i></p>		
SKETCH OF WELL SITE	WELL POINT		
	MAP NO.: <i>228/III</i> SCALE: <i>1:50,000</i>		
	DISTANCE FROM EDGE OF MAP (MM)		
			
LOCATED DATE: <i>31/10 - 1980</i>		BY: <i>RORDAM</i>	

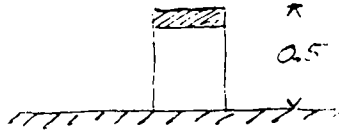
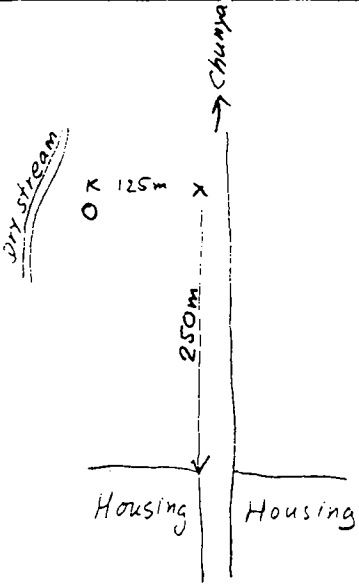
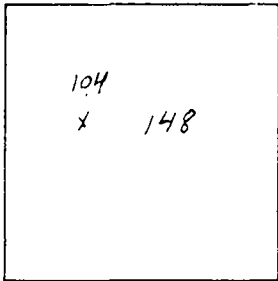
BOREHOLE LOCATION RECORD

LOCATION: <i>Res: Mbeya, Distr: Chunya</i> <i>Vil: Makongolosi</i>		BH NO.	<i>194/77</i>
		CCKK NO.	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>28/9 1977</i>	GROUND ELEV. MASL	<i>1220</i>
CASING DIA. MM	<i>254</i>	MEASUR. POINT $M_{\frac{a}{b}}^G$	<i>0.5</i>
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	<i>2.5</i>
DRILLED DEPTH, M	<i>138.6</i>	WATER LEVEL, MASL	<i>1217.5</i>
STAND. WATER LEVEL, MBG	<i>6.6</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>15.2, 94.4, 127.9</i>		
STEADY YIELD, M ³ /HR	<i>1.11</i>		
DRAWDOWN, M	<i>50.6</i>		
METHOD OF PUMPING			
WATER ANALYSIS	P. <u>(C)</u> B.		
REMARKS	<p align="center"><i>Geol. Sounding performed</i></p>		
SKETCH OF WELL SITE		WELL POINT	
		MAP NO.: <i>228/III</i>	
		SCALE: <i>1:50,000</i>	
		DISTANCE FROM EDGE OF MAP (MM)	
			
		LOCATED DATE: <i>31/10 1980</i>	
		BY: <i>RORDAM</i>	

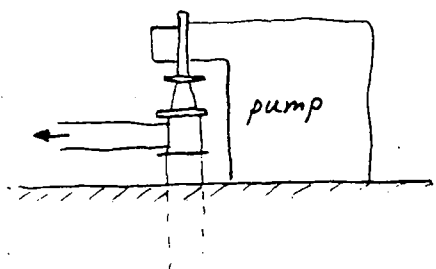
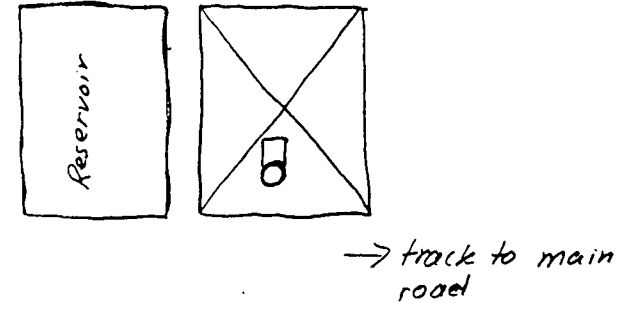
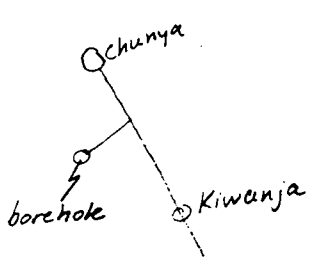
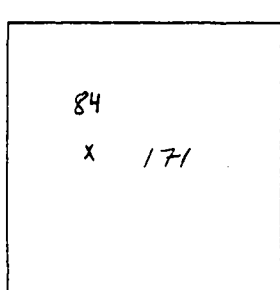
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Mbeya Distr: Chunya</i> <i>Vil: Mapogoro</i>		BH NO.	<i>209/77</i>
		CCKK NO.	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>9/11 1977</i>	GROUND ELEV. MASL	<i>1389</i>
CASING DIA. MM	<i>219</i>	MEASUR. POINT M _B G	<i>0.4</i>
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	<i>4.17</i>
DRILLED DEPTH, M	<i>123.3</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>13.4</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>23-24, 28-30</i>		
STEADY YIELD, M ³ /HR	<i>10.5</i>		
DRAWDOWN, M	<i>38.1</i>		
METHOD OF PUMPING	<i>Monolift borehole pump</i>		
WATER ANALYSIS	P. C. B.		
REMARKS			
SKETCH OF WELL SITE		WELL POINT	
		MAP NO.: <i>229</i> SCALE: <i>1:100,000</i> <i>8°26', 33°32'</i> DISTANCE FROM EDGE OF MAP (MM)	
			
		LOCATED DATE: <i>29/10 1980</i>	
		BY: <i>JLW</i>	

BOREHOLE LOCATION RECORD

LOCATION: <i>Reg Mbeya, Distr: Chunya</i> <i>Vil Kiwanja</i>		BH NO. <i>222/77</i>	
		CCKK NO.	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>16/11 1977</i>	GROUND ELEV. MASL	
CASING DIA. MM		MEASUR. POINT $M \frac{a}{b} G$	
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M	<i>76.2</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG			
WATER STRUCK, MBG			
STEADY YIELD, M ³ /HR			
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	P. C. B.		
REMARKS	<i>Impossible to remove cap.</i>		
SKETCH OF WELL SITE			WELL POINT
			MAP NO.: <i>244/II</i> SCALE: <i>1:50,000</i> DISTANCE FROM EDGE OF MAP (MM) 
			LOCATED DATE: <i>18/9 1980</i>
		BY: <i>JLW</i>	

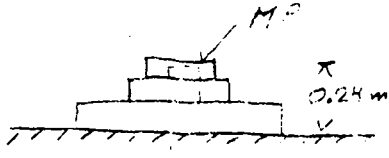
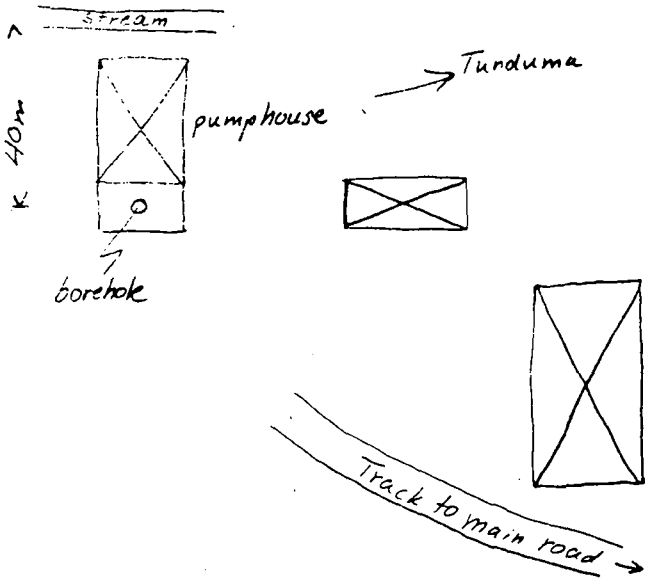
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Mbeya Distr: Chunya</i> <i>Vil: Kiwanja</i>		BH NO.	<i>224/77</i>
		CCKK NO.	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>11/12 1977</i>	GROUND ELEV. MASL	
CASING DIA. MM	<i>254</i>	MEASUR. POINT $M \frac{a}{b}$ G	
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M	<i>152.3</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>2.0</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>106.5</i>		
STEADY YIELD, M ³ /HR	<i>0.7</i>		
DRAWDOWN, M	<i>113.9</i>		
METHOD OF PUMPING	<i>piston pump</i> <i>CEHA 47x24"</i>		
WATER ANALYSIS	P. C. B.		
REMARKS	<p align="center"><i>Impossible to measure water level</i></p>		
SKETCH OF WELL SITE.		WELL POINT	
 <p align="center"><i>→ track to main road</i></p>		MAP NO.: <i>244 II</i> SCALE: <i>1:50,000</i>	
		DISTANCE FROM EDGE OF MAP (MM)	
		 <p align="center">84 x 171</p>	
		LOCATED DATE: <i>18/9 1980</i>	
		BY: <i>JLW</i>	

BOREHOLE LOCATION RECORD

LOCATION: Reg: Mbeya Distr: Chunya Vil: Saugambi		BH NO.	247/77
		CCKK NO.	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	22/12 1977	GROUND ELEV. MASL	1620
CASING DIA. MM	203	MEASUR. POINT M _{MBG}	0.5
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
DRILLED DEPTH, M	121.9	WATER LEVEL, MBG	0.4
STAND. WATER LEVEL, MBG	2.6	WATER LEVEL, MASL	1619.6
WATER STRUCK, MBG	12.2, 95.9, 109.6	SKETCH OF WELL TOP/MP	
STEADY YIELD, M ³ /HR	9.2		
DRAWDOWN, M	55.9		
METHOD OF PUMPING	LISTER machine to nonlift borehole pump		
WATER ANALYSIS	P. C. B.		
REMARKS	<p align="center">Geol Sounding performed.</p>		
SKETCH OF WELL SITE	<p>WELL POINT</p> <p>MAP NO.: 245 I SCALE: 1:50,000</p> <p>DISTANCE FROM EDGE OF MAP (MM)</p> <div style="border: 1px solid black; width: 150px; height: 100px; margin: 10px auto; display: flex; align-items: center; justify-content: center;"> 245 × 65 </div> <p align="right">LOCATED DATE: 22/10 1980 BY: PDK/DAM</p>		

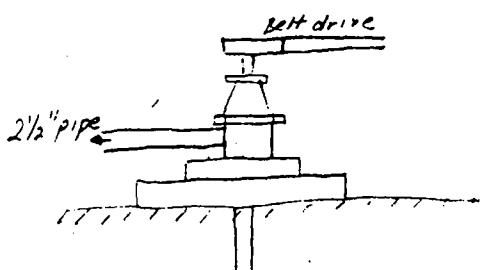
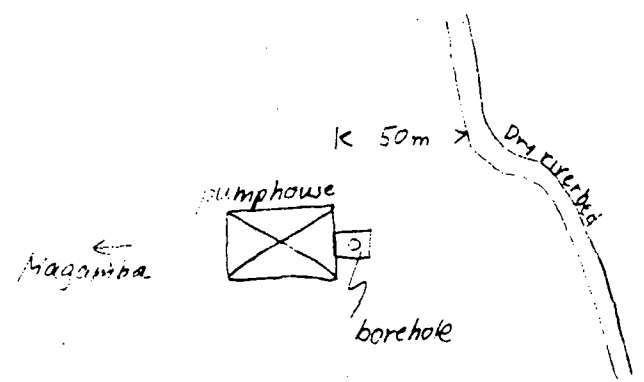
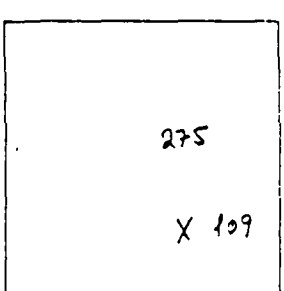
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Mbeya, Distr: Mbozi</i> <i>V.I: Tunduma</i>		BH NO. <i>67178</i> CCKK NO.
DATA COLLECTED	FROM WELL LOG	ON SITE
COMPLETION DATE	<i>16/6 1978</i>	GROUND ELEV. MASL
CASING DIA. MM	<i>152</i>	MEASUR. POINT MBG <i>0.24</i>
TYPE OF SCREEN DIAMETER, MM	<i>Galvanised</i>	MP ELEVATION, MASL
DRILLED DEPTH, M	<i>9.4</i>	WATER LEVEL, MBG <i>1.00</i>
STAND. WATER LEVEL, MBG	<i>1.8</i>	WATER LEVEL, MASL
WATER STRUCK, MBG	<i>21.3</i>	SKETCH OF WELL TOP/MP 
STEADY YIELD, M ³ /HR	<i>35.1</i>	
DRAWDOWN, M		
METHOD OF PUMPING	<i>Monolift borehole pump CM 1</i>	
WATER ANALYSIS	P. C. B.	
REMARKS	<div style="border: 1px solid black; padding: 10px; width: fit-content; margin: 0 auto;"> <i>Pump removed for repair</i> </div>	
SKETCH OF WELL SITE		WELL POINT
		MAP NO.: <i>257 IV</i> SCALE: <i>1:50,000</i> DISTANCE FROM EDGE OF MAP (MM)
		<div style="border: 1px solid black; padding: 20px; width: 150px; margin: 0 auto;"> 136 84 x </div>
		LOCATED DATE: <i>9/10 1980</i> BY: <i>JLW</i>


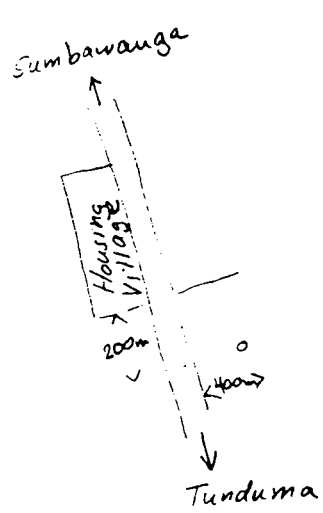
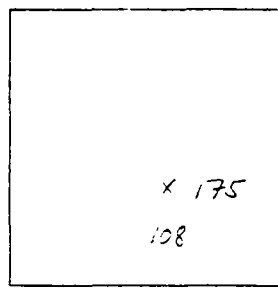
BOREHOLE LOCATION RECORD

LOCATION: Reg: Mbeya Distr: Mbeya V.I: Iyunga		BH NO.	79/78
		CCKK NO.	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE		GROUND ELEV. MASL	app 1604
CASING DIA. MM		MEASUR. POINT M _D G	
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M		WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG		SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG			
STEADY YIELD, M ³ /HR			
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	P. C. B.		
REMARKS	<p>Site not located.</p> <p>Geol Sounding performed near assumed site.</p>		
SKETCH OF WELL SITE	WELL POINT		
<p>Mbahizi ← 500m → Mbeya</p> <p>factory industrial area</p> <p>Road</p>	MAP NO.: 244/IV SCALE: 1:50,000 Approximate: DISTANCE FROM EDGE OF MAP (MM)		
	<p>X 236 159</p>		
	LOCATED DATE: 10/9 1980		
	BY: RORDAM		

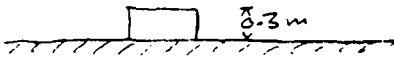
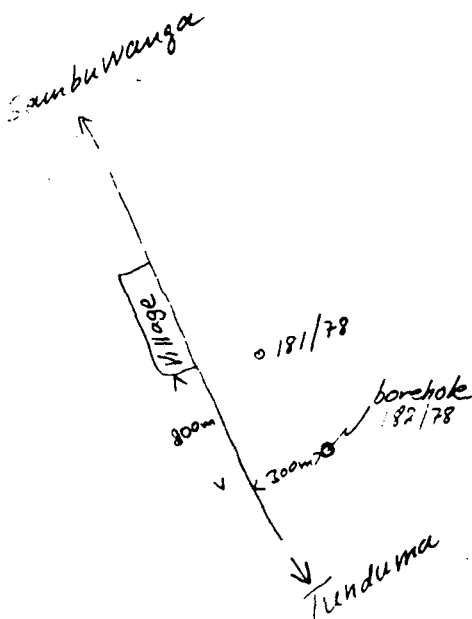
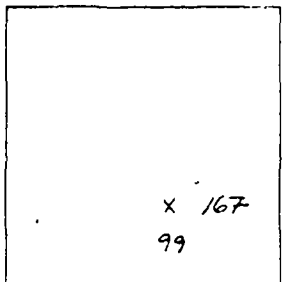
BOREHOLE LOCATION RECORD

LOCATION: <i>Res Mbeya, Dist. Chunya</i> <i>Vil Magamba</i>		BH NO. <i>161/78</i>
		CCKK NO.
DATA COLLECTED	FROM WELL LOG	ON SITE
COMPLETION DATE		GROUND ELEV. MASL
CASING DIA. MM		MEASUR. POINT $M_{\frac{a}{b}}G$
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL
		WATER LEVEL, MBG
DRILLED DEPTH, M	<i>68.6</i>	WATER LEVEL, MASL
STAND. WATER LEVEL, MBG	<i>9.1</i>	SKETCH OF WELL TOP/MP
WATER STORAGE, MBG	<i>1572, 25.9, 457</i>	
STEADY YIELD, M ³ /HR	<i>12.0</i>	
DRAWDOWN, M	<i>13.7</i>	
METHOD OF PUMPING	<i>13 HP, borehole pump</i>	
WATER ANALYSIS	P. C. B.	
REMARKS	<p><i>impossible to measure water level</i></p>	
		
SKETCH OF WELL SITE	WELL POINT	
	MAP NO.: <i>243 II</i>	
	SCALE: <i>1:50,000</i>	
	DISTANCE FROM EDGE OF MAP (MM)	
		
	LOCATED DATE: <i>2/10 1980</i>	
	BY: <i>JLW</i>	


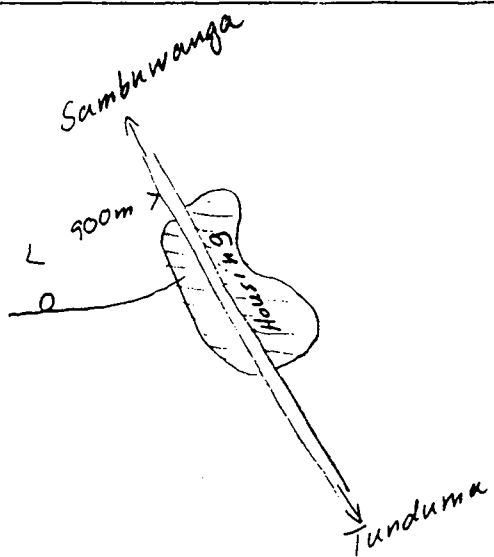
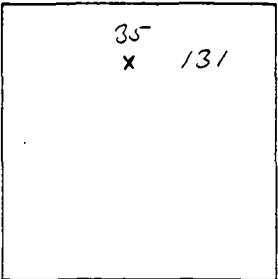
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Mbeya, Distr: Mbozi</i> <i>Vil: Mkutano</i>		BH NO. <i>181/78</i>
		CCKK NO.
DATA COLLECTED	FROM WELL LOG	ON SITE
COMPLETION DATE		GROUND ELEV. MASL <i>1530</i>
CASING DIA. MM	<i>254</i>	MEASUR. POINT M_b^a
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL
DRILLED DEPTH, M		WATER LEVEL, MBG
STAND. WATER LEVEL, MBG		WATER LEVEL, MASL
WATER STRUCK, MBG		SKETCH OF WELL TOP/MP 
STEADY YIELD, M ³ /HR		
DRAWDOWN, M		
METHOD OF PUMPING		
WATER ANALYSIS	P. C. B.	
REMARKS		
<i>Dry well.</i> <i>Now 4.1 m deep, filled up.</i> <i>Geol Sounding performed</i>		
SKETCH OF WELL SITE	WELL POINT	
	MAP NO.: <i>242 / I</i> SCALE: <i>1:50,000</i> DISTANCE FROM EDGE OF MAP (MM)	
		
	LOCATED DATE: <i>13/11 1980</i>	
	BY: <i>BRDAM</i>	

BOREHOLE LOCATION RECORD

LOCATION: Reg: Mbeya, Distr: Mbozi Vil: Mkutano		BH NO. 182/78	CCKK NO.
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE		GROUND ELEV. MASL	1526
CASING DIA. MM	254	MEASUR. POINT $M_{\frac{a}{b}}G$	
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M	91.4	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	10.7	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	38.1, 85.3		
STEADY YIELD, M ³ /HR	0.80		
DRAWDOWN, M	42.7		
METHOD OF PUMPING			
WATER ANALYSIS	P. (C.) (B.)		
REMARKS	<p>Dry borehole. Filled up / collapsed.</p>		
SKETCH OF WELL SITE			
	WELL POINT	MAP NO.: 242 / E SCALE: 1:50,000 DISTANCE FROM EDGE OF MAP (MM)	
			
		LOCATED DATE: 13/11 1980 BY: PORDAM	

BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Mbeya, Distr: Mbozi</i> <i>Vil: Nzoka</i>		BH NO.	<i>21/79</i>
		CCKK NO.	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE		GROUND ELEV. MASL	<i>1480</i>
CASING DIA. MM	<i>254</i>	MEASUR. POINT M^a G	<i>0.8</i>
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	<i>free flowing</i>
DRILLED DEPTH, M	<i>100.6</i>	WATER LEVEL, MASL	<i>1481 (497)</i>
STAND. WATER LEVEL, MBG	<i>0.3</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>54.9</i>		
STEADY YIELD, M ³ /HR	<i>4.0</i>		
DRAWDOWN, M	<i>51.2</i>		
METHOD OF PUMPING			
WATER ANALYSIS	P. (C) (B)		
REMARKS	<p><i>Free flowing, artesian</i> <i>Geol. Sounding performed</i></p>		
SKETCH OF WELL SITE	WELL POINT		
	MAP NO.: <i>242/III</i> SCALE: <i>1:50,000</i>		
	DISTANCE FROM EDGE OF MAP (MM)		
			
		LOCATED DATE: <i>13/11 1980</i>	
		BY: <i>RORDAM</i>	

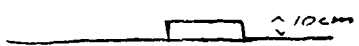
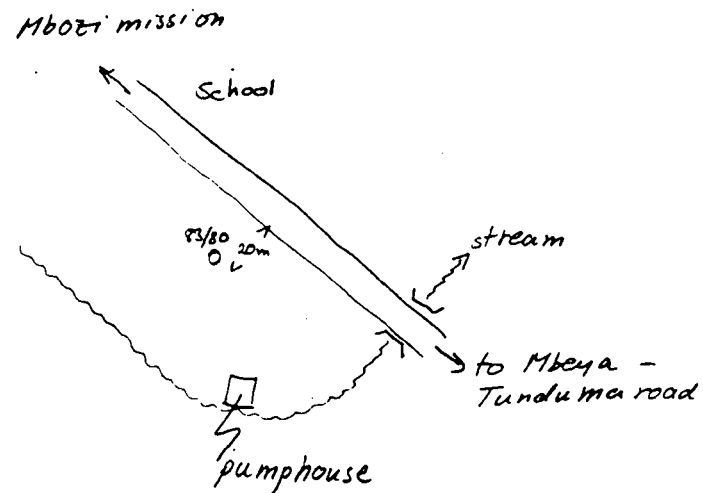
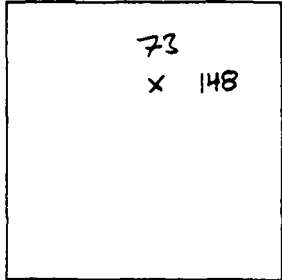
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Mbeya Distr: Mbozi</i>		BH NO.	<i>57/80</i>
<i>Vil: Senjele</i>		CCKK NO.	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE		GROUND ELEV. MASL	<i>1460</i>
CASING DIA. MM		MEASUR. POINT $M_{\frac{a}{b}}G$	
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M	<i>70</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG		SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG			
STEADY YIELD, M ³ /HR			
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	P. C. B.		
REMARKS	<p align="center"><i>Dry borehole. Drilled by Rig 38</i> <i>Geol Sounding performed</i></p>		
SKETCH OF WELL SITE	WELL POINT		
	MAP NO.: <i>244/III</i> SCALE: <i>1:50,000</i>		
	DISTANCE FROM EDGE OF MAP (MM)		
LOCATED DATE: <i>2/10 1980</i>			
BY: <i>RORDAM</i>			

BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Mbeya , Distr Mbozi</i> <i>Vil: Senjete</i>		BH NO.	<i>68/80</i>		
		CCKK NO.			
DATA COLLECTED	FROM WELL LOG	ON SITE			
COMPLETION DATE	<i>6/6 1980</i>	GROUND ELEV. MASL	<i>1470</i>		
CASING DIA. MM		MEASUR. POINT $M \frac{a}{b} G$			
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL			
		WATER LEVEL, MBG			
DRILLED DEPTH, M	<i>70</i>	WATER LEVEL, MASL			
STAND. WATER LEVEL, MBG		SKETCH OF WELL TOP/MP			
WATER STRUCK, MBG					
STEADY YIELD, M ³ /HR					
DRAWDOWN, M					
METHOD OF PUMPING					
WATER ANALYSIS	<i>P. C. B.</i>				
REMARKS	<p align="center"><i>Dry borehole, collapsed</i> <i>Geol. Sounding performed</i></p>				
SKETCH OF WELL SITE	WELL POINT	MAP NO.: <i>244/III</i> SCALE: <i>1:50,000</i> DISTANCE FROM EDGE OF MAP (MM)			
				LOCATED DATE: <i>9/7 1980</i> BY: <i>RORDAM</i>	

BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Mbeya, Distr: Mbozi</i> <i>Vil: Mbozi mission</i>		BH NO.	<i>83/80</i>
		CCKK NO.	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>July 1980</i>	GROUND ELEV. MASL	<i>1553</i>
CASING DIA. MM	<i>203</i>	MEASUR. POINT M_b^a	<i>0.1</i>
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	<i>6.2</i>
DRILLED DEPTH, M	<i>64</i>	WATER LEVEL, MASL	<i>1547</i>
STAND. WATER LEVEL, MBG	<i>6.3</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>24.4</i>		
STEADY YIELD, M ³ /HR			
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	P. C. B.		
REMARKS	<p><i>Borehole abandoned due to lack of water.</i></p>		
SKETCH OF WELL SITE		WELL POINT	
		MAP NO.: <i>257/II</i>	
		SCALE: <i>1:50,000</i>	
		DISTANCE FROM EDGE OF MAP (MM)	
			
		LOCATED DATE: <i>9/7 1980</i>	
		BY: <i>RORDAM</i>	

BOREHOLE LOCATION RECORD

LOCATION: Reg: Mbeya, Distr: Mbozi Vil: Rungwa		BH NO.	85/80
		CCKK NO.	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	Oct 1980	GROUND ELEV. MASL	
CASING DIA. MM		MEASUR. POINT M ^a / _b G	
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
DRILLED DEPTH, M	59.4	WATER LEVEL, MBG	4.2
STAND. WATER LEVEL, MBG	4.2	WATER LEVEL, MASL	
WATER STRUCK, MBG	22.9	SKETCH OF WELL TOP/MP	
STEADY YIELD, M ³ /HR			
DRAWDOWN, M	> 55.2		
METHOD OF PUMPING			
WATER ANALYSIS	P. C. B.		
REMARKS			
<p>Borehole abandoned. Yield very small Geol. Sounding performed</p>			
SKETCH OF WELL SITE		WELL POINT	
		MAP NO.: 243/IV SCALE: 1:50,000 DISTANCE FROM EDGE OF MAP (MM)	
		LOCATED DATE: 30/9 1980	
		BY: RORDAM	

BOREHOLE LOCATION RECORD

LOCATION: Reg: Mbeya, Distr: Mbozi Vil: Nkangamo		BH NO.	113/80
		CCKK NO.	MS 1
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	27/9 1980	GROUND ELEV. MASL	1680
CASING DIA. MM	51	MEASUR. POINT M _D ^a G	
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
DRILLED DEPTH, M	23.0	WATER LEVEL, MBG	5.59
STAND. WATER LEVEL, MBG	4.9	WATER LEVEL, MASL	
WATER STRUCK, MBG	5.2	SKETCH OF WELL TOP/MP	
STEADY YIELD, M ³ /HR			
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	P. (C) B.		
REMARKS			
SKETCH OF WELL SITE		WELL POINT	
		MAP NO.: 257/I SCALE: 1:50,000	
		DISTANCE FROM EDGE OF MAP (MM)	
		LOCATED DATE: 16/1 1981	
		BY: FM	

BOREHOLE LOCATION RECORD

LOCATION: <i>Reg Mbeya Distr Mbozi</i> <i>Vit: Nkaungamo</i>		BH NO.	<i>114/80</i>
		CCKK NO.	<i>MS2</i>
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>3/11 1980</i>	GROUND ELEV. MASL	
CASING DIA. MM		MEASUR. POINT $M \frac{a}{b} G$	
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M	<i>22.9</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>4.6</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>3.0</i>		
STEADY YIELD, M ³ /HR			
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	P. <i>(C)</i> B.		
REMARKS	<i>No casing installed</i>		
SKETCH OF WELL SITE	WELL POINT		
	MAP NO.: <i>257/I</i> SCALE: <i>1:50,000</i>		
	DISTANCE FROM EDGE OF MAP (MM)		
	LOCATED DATE: <i>3/11 1980</i> BY: <i>FM</i>		

BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Mbeya Distr: Mbozi</i> <i>Vit: Mpemba</i>		BH NO. <i>127/80</i>	
		CCKK NO. <i>MS3</i>	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>7/11 1980</i>	GROUND ELEV. MASL	
CASING DIA. MM		MEASUR. POINT $M_{\frac{a}{b}}^G$	
TYPE OF SCREEN		MP ELEVATION, MASL	
DIAMETER, MM		WATER LEVEL, MBG	
DRILLED DEPTH, M	<i>9.1</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>4.6</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>3.0</i>	<div style="border: 1px solid black; width: 100%; height: 100%;"></div>	
STEADY YIELD, M ³ /HR			
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	P. C. B.		
REMARKS			
SKETCH OF WELL SITE		WELL POINT	
		MAP NO.: <i>257/IV</i> SCALE: <i>1:50,000</i> DISTANCE FROM EDGE OF MAP (MM)	
		<div style="border: 1px solid black; width: 150px; height: 100px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> 26 185 x </div>	
		LOCATED DATE: <i>7/11 1980</i>	
		BY: <i>RORDAM</i>	

BOREHOLE LOCATION RECORD

LOCATION: Reg: Mbeya Distr Mbozi VI Mpemba		BH NO.	128/80
		CCKK NO.	154
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	8/11 1980	GROUND ELEV. MASL	
CASING DIA. MM		MEASUR. POINT M ^a / _b G	
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M	6.1	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG		SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG			
STEADY YIELD, M ³ /HR			
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	P. C. B.		
REMARKS			
SKETCH OF WELL SITE	WELL POINT		
	MAP NO.: 257/IV SCALE: 1:50,000		
	DISTANCE FROM EDGE OF MAP (MM)		
	<div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> 27 182 x </div>		
		LOCATED DATE: 8/11 1980	
		BY: RORDAM	

BOREHOLE LOCATION RECORD

LOCATION: <i>Reg Mbeya Distr Mbozi</i> <i>Vil Naudanga</i>		BH NO.	<i>134/80</i>
		CCKK NO.	<i>M55</i>
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>14/11 1980</i>	GROUND ELEV. MASL	
CASING DIA. MM		MEASUR. POINT $M_{\frac{a}{b}}G$	
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M	<i>15.2</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>6.4</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>12.2</i>		
STEADY YIELD, M ³ /HR			
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	P. <u>C.</u> B.		
REMARKS			
SKETCH OF WELL SITE		WELL POINT	
		MAP NO.: <i>257/IV</i>	
		SCALE: <i>1:50,000</i>	
		DISTANCE FROM EDGE OF MAP (MM)	
			LOCATED DATE: <i>14/11 1980</i>
		BY: <i>RØRDAM</i>	

BOREHOLE LOCATION RECORD

LOCATION: <i>Reg Mbeya Distr Mbozi</i> <i>Vil Naudanga</i>		BH NO.	<i>135/80</i>
		CCKK NO.	<i>156</i>
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>21/11 1980</i>	GROUND ELEV. MASL	
CASING DIA. MM		MEASUR. POINT $M \frac{a}{b} G$	
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M		WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG		SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG			
STEADY YIELD, M ³ /HR			
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	P. C. B.		
REMARKS	<i>Dry borehole</i>		
SKETCH OF WELL SITE		WELL POINT	
<p>The sketch shows a road labeled 'Naudanga' with a hatched area representing the well location. A vertical line with an arrowhead points to a small circle labeled '135/80'. Two sun-like symbols are drawn to the left of the road.</p>		MAP NO.: <i>257 II</i>	
		SCALE: <i>1:50,000</i>	
		DISTANCE FROM EDGE OF MAP (MM)	
		<div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p><i>54</i> <i>x 243</i></p> </div>	
		LOCATED DATE: <i>21/11 1980</i>	
		BY: <i>RORDAM</i>	

BOREHOLE LOCATION RECORD

LOCATION: Reg: Mbeya, Distr: Iteje Vit: Mbebe		BH NO. 136/80	CCNR NO. MS 7
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	30/11 1980	GROUND ELEV. MASL	
CASING DIA. MM		MEASUR. POINT M ^a / _b G	
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M		WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	5.5	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	10.7		
STEADY YIELD, M ³ /HR			
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	P. (C) B.		
REMARKS			
SKETCH OF WELL SITE		WELL POINT	
		MAP NO.: 257 IV SCALE: 1:50,000	
		DISTANCE FROM EDGE OF MAP (MM)	
		<div style="border: 1px solid black; width: 100px; height: 100px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> 132 x 103 </div>	
		LOCATED DATE: 3/11 1980	
		BY: RORDAM	

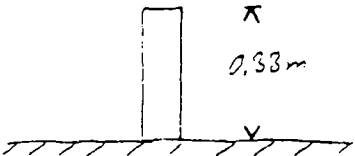
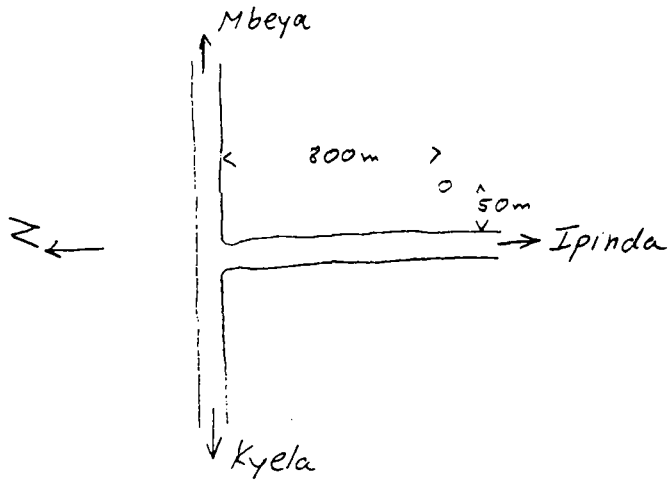
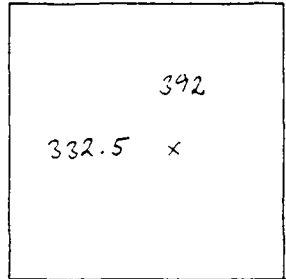
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg. Mbeya, Distr Mbozi</i> <i>Vil Mbimba</i>		BH NO. <i>148/80</i>
		CCKK NO. <i>1458</i>
DATA COLLECTED	FROM WELL LOG	ON SITE
COMPLETION DATE	<i>6/12 1980</i>	GROUND ELEV. MASL
CASING DIA. MM		MEASUR. POINT M ^a / _b G
TYPE OF SCREEN		MP ELEVATION, MASL
DIAMETER, MM		WATER LEVEL, MEG
DRILLED DEPTH, M	<i>33.5</i>	WATER LEVEL, MASL
STAND. WATER LEVEL, MBG	<i>6.3</i>	SKETCH OF WELL TOP/MP
WATER STRUCK, MBG	<i>10.7</i>	
STEADY YIELD, M ³ /HR		
DRAWDOWN, M		
METHOD OF PUMPING		
WATER ANALYSIS	P. <u>(C)</u> B.	
REMARKS		
SKETCH OF WELL SITE	WELL POINT	
	MAP NO.: <i>257 /II</i> SCALE: <i>1:50,000</i>	
	DISTANCE FROM EDGE OF MAP (MM) <div style="border: 1px solid black; width: 150px; height: 100px; margin: 10px auto; text-align: center; padding: 10px;"> 131 x III </div>	
	LOCATED DATE: <i>6/12 1980</i> BY: <i>RORDAM</i>	

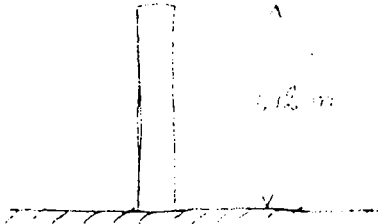
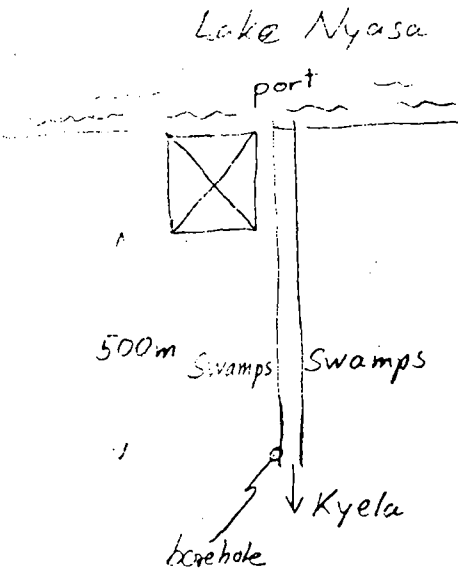
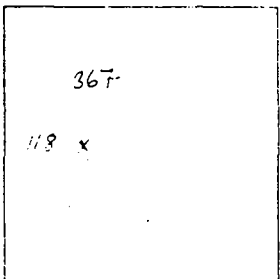
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Mbeya Dist: Mbeya</i>		BH NO. <i>149/80</i>
<i>Vil. Mbazi mission</i>		CCKK NO. <i>M57</i>
DATA COLLECTED	FROM WELL LOG	ON SITE
COMPLETION DATE	<i>16/12 1980</i>	GROUND ELEV. MASL
CASING DIA. MM		MEASUR. POINT <i>M₅G</i>
TYPE OF SCREEN		MP ELEVATION, MASL
DIAMETER, MM		WATER LEVEL, MBG
DRILLED DEPTH, M	<i>33.5</i>	WATER LEVEL, MASL
STAND. WATER LEVEL, MBG	<i>0.1</i>	SKETCH OF WELL TOP/MP
WATER STRECK, MBG	<i>2.1</i>	
STEADY YIELD, M ³ /HR		
DRAWDOWN, M		
METHOD OF PUMPING		
WATER ANALYSIS	P. <i>(C)</i> B.	
REMARKS		
SKETCH OF WELL SITE		WELL POINT
		MAP NO.: <i>25 II</i> SCALE: <i>1:50,000</i> DISTANCE FROM EDGE OF ROAD (MM) <div style="border: 1px solid black; width: 150px; height: 100px; margin: 10px auto; display: flex; align-items: center; justify-content: center;"> 59 x 32 </div>
		LOCATED DATE: <i>16/12 1980</i>
		BY: <i>ROBERT M</i>

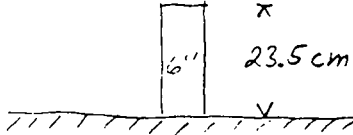
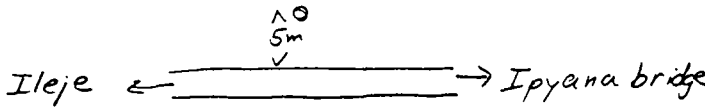
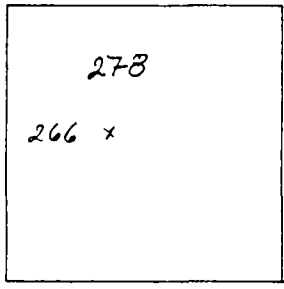
BOREHOLE LOCATION RECORD

LOCATION: Reg: Mbeya Distr: Kyela Vil: Kikusya		BH NO.	19/81
		CCKK NO.	MS 10
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	17/1 1981	GROUND ELEV. MASL	574
CASING DIA. MM	152	MEASUR. POINT M _B ^a G	
TYPE OF SCREEN DIAMETER, MM	Slotted PVC	MP ELEVATION, MASL	
		WATER LEVEL, MBG	1.50
DRILLED DEPTH, M	33.5	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	4.9	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	7.6		
STEADY YIELD, M ³ /HR	2.2		
DRAWDOWN, M	1.7		
METHOD OF PUMPING			
WATER ANALYSIS	P. (C) B.		
REMARKS			
SKETCH OF WELL SITE	WELL POINT		
	MAP NO.: 272/II SCALE: 1:50,000		
	DISTANCE FROM EDGE OF MAP (MM)		
			
	LOCATED DATE: 25/2 1981		
	BY: FM		

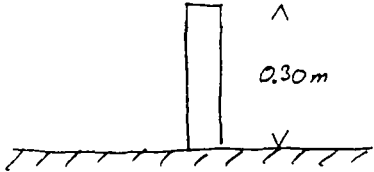
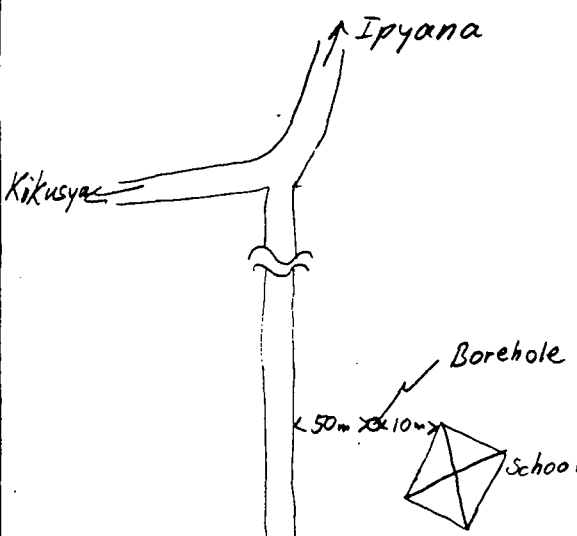
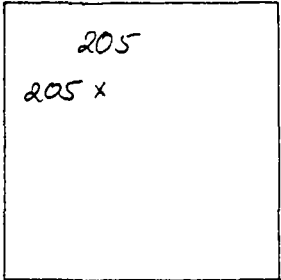
BOREHOLE LOCATION RECORD

LOCATION: Reg: Mbeya, Distr Kyela V/L: Itungi Port		BH NO.	20/81
		CCRE NO.	MS 11
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	Jan 1981	GROUND ELEV. MASL	560
CASING DIA. MM	203	MEASUR. POINT M ² /G	
TYPE OF SCREEN DIAMETER, MM	Slotted PVC	MP ELEVATION, MASL	
		WATER LEVEL, MBG	0.18
DRILLED DEPTH, M	32.0	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	0.1	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	3, 12.7		
STEADY YIELD, M ³ /HR			
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	P. (C) B.		
REMARKS	Borehole was not cleaned.		
SKETCH OF WELL SITE		WELL POINT	
		MAP NO.: 272/II	
		SCALE: 1:50,000	
		DISTANCE FROM EDGE OF MAP (MM)	
			
		LOCATED DATE: 27/2 1981	
		BY: FM	


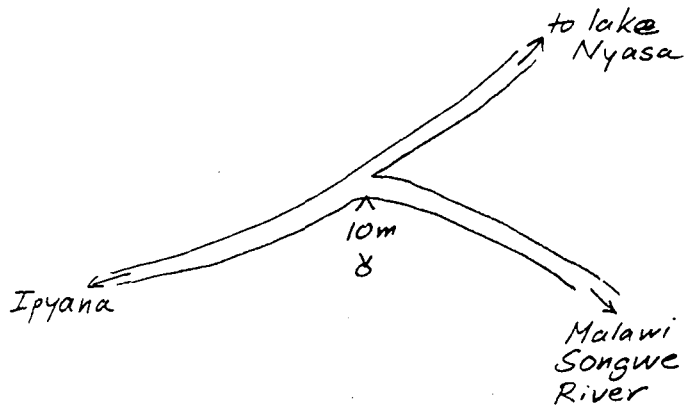
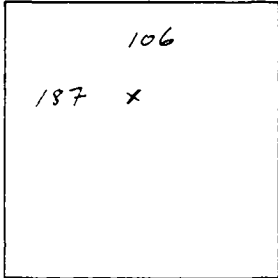
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Mbeya , Distr: Kyela</i> <i>Vil: Ipyana</i>		BH NO.	<i>21/81</i>
		CCKK NO.	<i>MS 12</i>
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>Jan 1981</i>	GROUND ELEV. MASL	<i>560</i>
CASING DIA. MM	<i>152</i>	MEASUR. POINT MBG	<i>0.23</i>
TYPE OF SCREEN DIAMETER, MM	<i>slotted PVC</i>	MP ELEVATION, MASL	
		WATER LEVEL, MBG	<i>3.44</i>
DRILLED DEPTH, M	<i>30.5</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>4.3</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>4.6 , 13.7</i>		
STEADY YIELD, M ³ /HR			
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	P. (C.) B.		
REMARKS			
SKETCH OF WELL SITE		WELL POINT	
		MAP NO.: <i>272/II</i>	
		SCALE: <i>1:50,000</i>	
		DISTANCE FROM EDGE OF MAP (MM)	
			
		LOCATED DATE: <i>27/2 1981</i>	
		BY: <i>FM</i>	

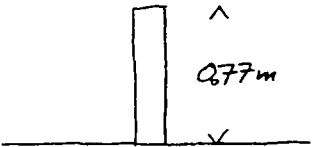
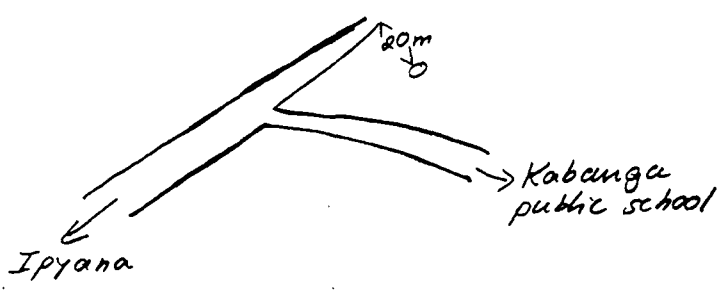
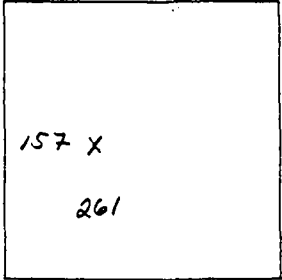
BOREHOLE LOCATION RECORD

LOCATION: Reg: Mbeya , Distr: Kyela Vil: Itenya		BH NO.	22/81
		CCKK NO.	MS 13
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	25/11 1981	GROUND ELEV. MASL	570
CASING DIA. MM	152	MEASUR. POINT M ^A / _B	0.30
TYPE OF SCREEN DIAMETER, MM	Slotted PVC	MP ELEVATION, MASL	
		WATER LEVEL, MBG	1.63
DRILLED DEPTH, M	30.5	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	4.8	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	7.6		
STEADY YIELD, M ³ /HR	2.0		
DRAWDOWN, M	1.3		
METHOD OF PUMPING			
WATER ANALYSIS	P. (C) B.		
REMARKS			
SKETCH OF WELL SITE		WELL POINT	
		MAP NO.: 272/II	
		SCALE: 1:50,000	
		DISTANCE FROM EDGE OF MAP (MM)	
			
		LOCATED DATE: 27/2 1981	
		BY: FM	

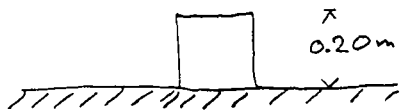
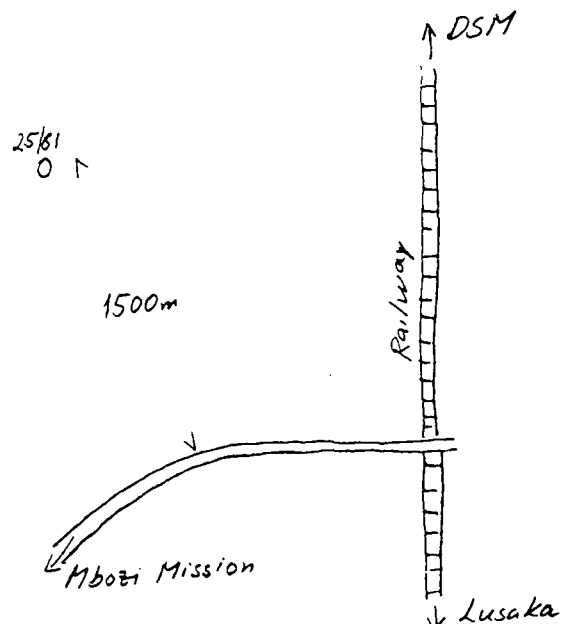
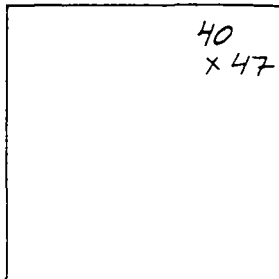
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Mbeya Distr: Kyela</i> <i>Vil: Katumba</i>		BH NO.	<i>23 / 81</i>
		CCKK NO.	<i>MS 14</i>
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>Febr. 1981</i>	GROUND ELEV. MASL	<i>555</i>
CASING DIA. MM	<i>152</i>	MEASUR. POINT MBG	<i>0.02</i>
TYPE OF SCREEN DIAMETER, MM	<i>Slotted PVC</i>	MP ELEVATION, MASL	
		WATER LEVEL, MBG	<i>1.13</i>
DRILLED DEPTH, M	<i>30.5</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>1.12</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>3.0</i>		
STEADY YIELD, M ³ /HR			
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	P. C. B.		
REMARKS			
SKETCH OF WELL SITE	WELL POINT		
	MAP NO.: <i>272 / II</i>		
	SCALE: <i>1:50,000</i>		
	DISTANCE FROM EDGE OF MAP (MM)		
			
	LOCATED DATE: <i>27/2 1981</i>		
	BY: <i>FM</i>		

BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Mbeya Distr Kyela</i>		BH NO.	<i>24/81</i>
<i>Vil: Kabanga</i>		CCKK NO.	<i>MS/15</i>
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>Febr 1981</i>	GROUND ELEV. MASL	<i>560</i>
CASING DIA. MM	<i>152</i>	MEASUR. POINT M ^A / _B G	<i>0.77</i>
TYPE OF SCREEN DIAMETER, MM	<i>Slotted PVC</i>	MP ELEVATION, MASL	
		WATER LEVEL, MBG	<i>4.42</i>
DRILLED DEPTH, M	<i>30.5</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>0.8</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>6.1</i>		
STEADY YIELD, M ³ /HR	<i>1.8</i>		
DRAWDOWN, M	<i>2.5</i>		
METHOD OF PUMPING			
WATER ANALYSIS	P. (C) B.		
REMARKS			
SKETCH OF WELL SITE		WELL POINT	
		MAP NO.: <i>272/II</i>	
		SCALE: <i>1:50,000</i>	
		DISTANCE FROM EDGE OF MAP (MM)	
			
		LOCATED DATE: <i>27/2 1981</i>	
		BY: <i>FM</i>	

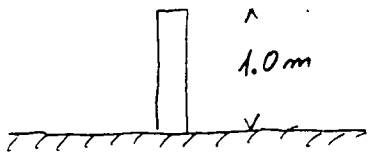
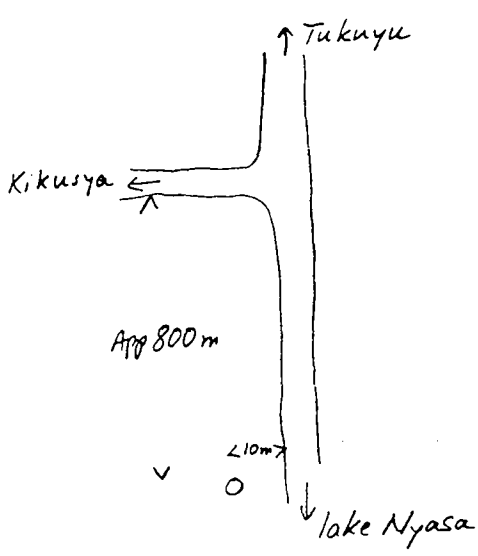
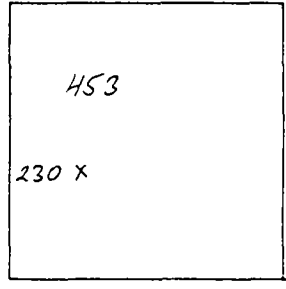
BOREHOLE LOCATION RECORD

LOCATION: Reg: Mbeya Distr: Mbozi Vil: Mbozi mission		BH NO.	25/81		
		CCKK NO.			
DATA COLLECTED	FROM WELL LOG	ON SITE			
COMPLETION DATE	18/4 1981	GROUND ELEV. MASL			
CASING DIA. MM	203	MEASUR. POINT M _a / _b G			
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL			
		WATER LEVEL, MBG			
DRILLED DEPTH, M	93.0	WATER LEVEL, MASL			
STAND. WATER LEVEL, MBG		SKETCH OF WELL TOP/MP			
WATER STRUCK, MBG	6.2				
STEADY YIELD, M ³ /HR	1.5				
DRAWDOWN, M	23.8				
METHOD OF PUMPING	Airlift				
WATER ANALYSIS	P. (C.) B.				
REMARKS	<p>Contains gases.</p> <p>Geol. Sounding performed.</p>				
SKETCH OF WELL SITE	WELL POINT				
	MAP NO.: 257/II SCALE: 1:50,000 DISTANCE FROM EDGE OF MAP (MM)				
					
	LOCATED DATE: 20/4 1981 BY: RORDAM				

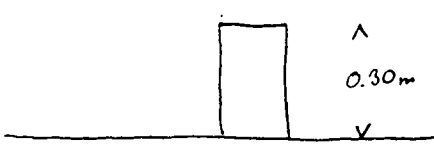
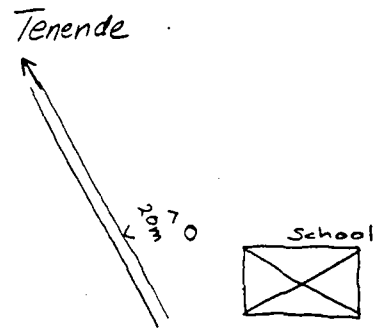
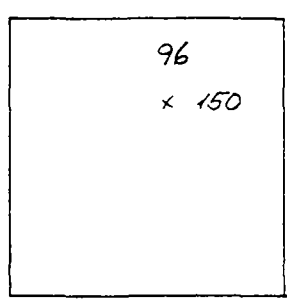
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Mbeya , Distr: Kyela</i>		BH NO.	<i>27/81</i>
<i>Vil: Tenende</i>		CCKK NO.	<i>MS 16</i>
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>Febr 1981</i>	GROUND ELEV. MASL	<i>560</i>
CASING DIA. MM	<i>152</i>	MEASUR. POINT $\frac{a}{b}$ G	
TYPE OF SCREEN DIAMETER, MM	<i>PVC 152</i>	MP ELEVATION, MASL	
		WATER LEVEL, MBG	<i>1.59</i>
DRILLED DEPTH, M	<i>30.5</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>2.0</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>4.6</i>		
STEADY YIELD, M ³ /HR	<i>5.0</i>		
DRAWDOWN, M	<i>0.2</i>		
METHOD OF PUMPING			
WATER ANALYSIS	P. C. B.		
REMARKS			
SKETCH OF WELL SITE		WELL POINT	
		MAP NO.: <i>272 / II</i>	
		SCALE: <i>1:50,000</i>	
		DISTANCE FROM EDGE OF MAP (MM)	
		LOCATED DATE: <i>26/2 1981</i>	
		BY: <i>FM</i>	

BOREHOLE LOCATION RECORD

LOCATION: Reg: Mbeya , Distr: Kyela Vil: Ipinda		BH NO.	30/81
		CCKK NO.	MS 17
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	Febr 1981	GROUND ELEV. MASL	570
CASING DIA. MM	152	MEASUR. POINT M ^a / _b G	
TYPE OF SCREEN DIAMETER, MM	Slotted PVC	MP ELEVATION, MASL	
		WATER LEVEL, MBG	3.90
DRILLED DEPTH, M	24.6	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	3.76	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	7.6		
STEADY YIELD, M ³ /HR	6.5		
DRAWDOWN, M	6.2		
METHOD OF PUMPING			
WATER ANALYSIS	P. (C) B.		
REMARKS			
SKETCH OF WELL SITE	WELL POINT		
	MAP NO.: 272/II SCALE: 1:50,000		
		DISTANCE FROM EDGE OF MAP (MM)	
			
	LOCATED DATE: 26/2 1981		
	BY: FM		

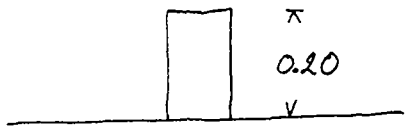
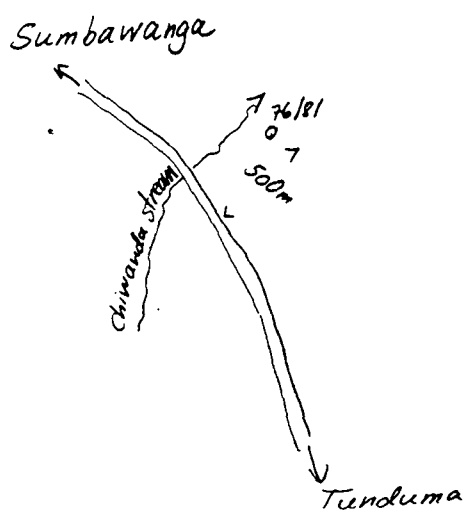
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Mbeya Distr: Kyela</i> <i>Vil: Ndobo</i>		BH NO. <i>73/81</i>
		CCKK NO. <i>MS 18</i>
DATA COLLECTED	FROM WELL LOG	ON SITE
COMPLETION DATE	<i>Febr 1981</i>	GROUND ELEV. MASL
CASING DIA. MM	<i>152</i>	MEASUR. POINT $M_{\frac{a}{b}}^G$ <i>0.30</i>
TYPE OF SCREEN		MP ELEVATION, MASL
DIAMETER, MM		WATER LEVEL, MBG <i>2.12</i>
DRILLED DEPTH, M	<i>30.5</i>	WATER LEVEL, MASL
STAND. WATER LEVEL, MBG	<i>2.4</i>	SKETCH OF WELL TOP/MP
WATER STRUCK, MBG	<i>3.0</i>	
STEADY YIELD, M ³ /HR	<i>5.4</i>	
DRAWDOWN, M	<i>0.4</i>	
METHOD OF PUMPING	<i>Submersible Pump</i>	
WATER ANALYSIS	P. C. B.	
REMARKS		
SKETCH OF WELL SITE	WELL POINT	
	MAP NO.: <i>272/II</i>	
	SCALE: <i>1:50,000</i>	
	DISTANCE FROM EDGE OF MAP (MM)	
		
	LOCATED DATE: <i>26/2 1981</i>	
	BY: <i>FM</i>	

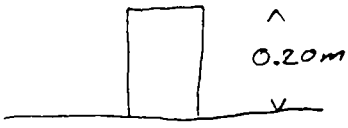
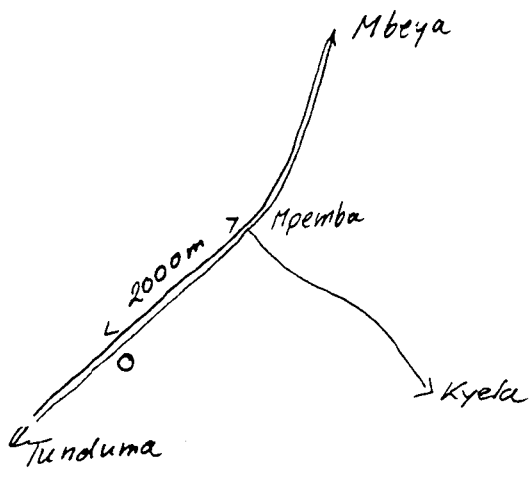
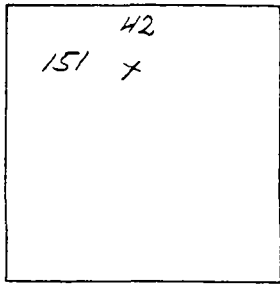
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Mbeya, Distr Kyela</i> <i>Vil Mpunguti</i>		BH NO.	<i>74/81</i>
		CCKK NO.	<i>MS 19</i>
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>Febr 1981</i>	GROUND ELEV. MASL	
CASING DIA. MM		MEASUR. POINT $M_{\frac{a}{b}}G$	
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M	<i>30.5</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>3.0</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>6.1</i>		
STEADY YIELD, M ³ /HR			
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	P. (C) B.		
REMARKS	<p><i>Not cased</i> <i>Drilling unit ran out of casing.</i></p>		
SKETCH OF WELL SITE	WELL POINT		
	MAP NO.: <i>272/II</i> SCALE: <i>1:50,000</i>		
	DISTANCE FROM EDGE OF MAP (MM)		
		LOCATED DATE: <i>Febr 1981</i>	
		BY: <i>RØRDAM</i>	


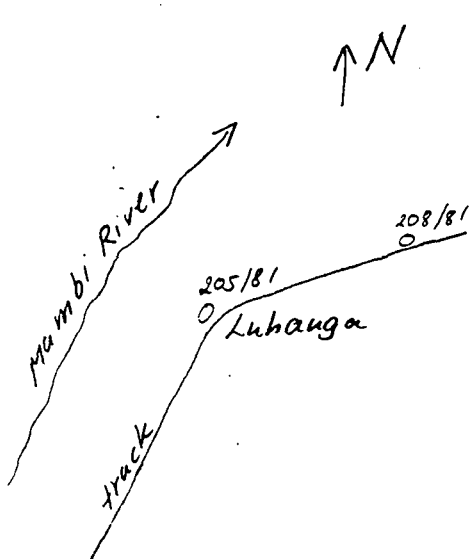
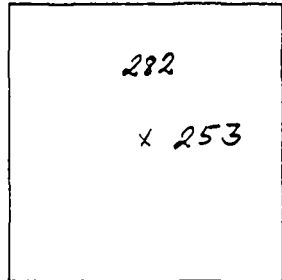
BOREHOLE LOCATION RECORD

LOCATION: Reg: Mbeya, Distr Mbizi Vil: Chiwanda		BH NO.	76/81
		CCKK NO.	MD3
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	25/5 1981	GROUND ELEV. MASL	
CASING DIA. MM	UPVC 101	MEASUR. POINT M ² G	0.20
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	4.88
DRILLED DEPTH, M	39.62	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	3.04	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	12.19, 15.24, 24.0		
STEADY YIELD, M ³ /HR	0.7		
DRAWDOWN, M	20.0		
METHOD OF PUMPING			
WATER ANALYSIS	P. (C.) B.		
REMARKS	<p>Geod. Survey performed</p>		
SKETCH OF WELL SITE	<p>WELL POINT</p> <p>MAP NO.: 257/E SCALE: 1:50,000</p> <p>DISTANCE FROM EDGE OF MAP (MM)</p> <div style="border: 1px solid black; width: 100px; height: 100px; margin: 10px auto; display: flex; align-items: center; justify-content: center;"> 145 x 170 </div>		
		<p>LOCATED DATE: 1/9 1981</p> <p>BY: MJJ</p>	

BOREHOLE LOCATION RECORD

LOCATION: Reg: Mbeya, Distr: Mbozi V.I: Mpemba		BH NO.	77/81
		CCKK NO.	MD 2
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	30/6 1981	GROUND ELEV. MASL	
CASING DIA. MM	102	MEASUR. POINT MBG	0.20
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	14.35
DRILLED DEPTH, M	45.7	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	6.1		
WATER STRUCK, MBG	24.7		
STEADY YIELD, M ³ /HR			
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	P. (C) B.		
REMARKS			
SKETCH OF WELL SITE			
	WELL POINT	MAP NO.: 257 /IV SCALE: 1:50,000 DISTANCE FROM EDGE OF MAP (MM)	
			
		LOCATED DATE: 1/9 1981 BY: 14JJ	

BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Mbeya, Distr: Mbeya</i> <i>Vil: Luhanga</i>		BH NO.	<i>205/81</i>
		CCKK NO.	<i>MS 20</i>
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>17/8 1981</i>	GROUND ELEV. MASL	
CASING DIA. MM	<i>102</i>	MEASUR. POINT M ^a / _b G	<i>0.20</i>
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	<i>25.95</i>
DRILLED DEPTH, M	<i>36.6</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>18.3</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>24.4-30.5</i>		
STEADY YIELD, M ³ /HR	<i>1.9</i>		
DRAWDOWN, M	<i>5.2</i>		
METHOD OF PUMPING			
WATER ANALYSIS	P. <i>(C)</i> B.		
REMARKS			
SKETCH OF WELL SITE		WELL POINT	
		MAP NO.: <i>245/II</i> SCALE: <i>1:50,000</i>	
		DISTANCE FROM EDGE OF MAP (MM)	
			
		LOCATED DATE: <i>1/9 1981</i>	
		BY: <i>MJJ</i>	

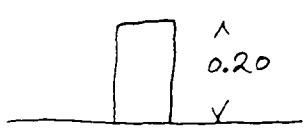
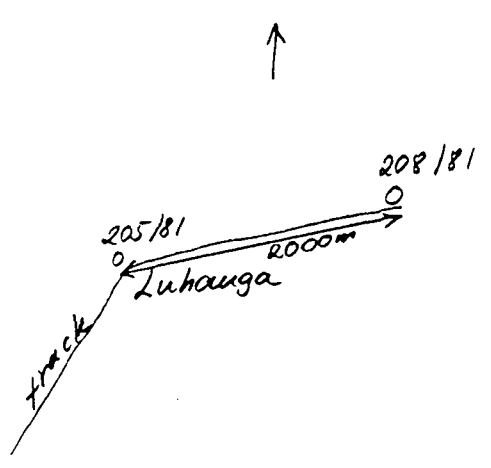
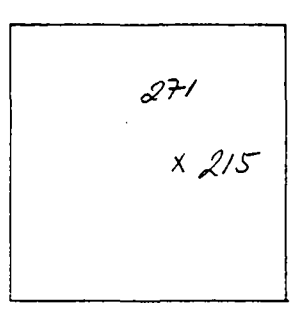
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg Mbeya Distr Mbeya</i> <i>Vil Luhaunga</i>		BH NO.	<i>206/81</i>
		CCKK NO.	<i>MS 21</i>
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>29/8 1981</i>	GROUND ELEV. MASL	
CASING DIA. MM		MEASUR. POINT $M \frac{a}{b} G$	
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M	<i>30.5</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG		SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG			
STEADY YIELD, M ³ /HR			
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	<i>P. C. B.</i>		
REMARKS	<i>Dry borehole</i>		
SKETCH OF WELL SITE		WELL POINT	
		MAP NO.: <i>245/II</i>	
		SCALE: <i>1:50,000</i>	
		DISTANCE FROM EDGE OF MAP (MM)	
		<div style="border: 1px solid black; padding: 10px; width: fit-content; margin: 0 auto;"> <p><i>238</i></p> <p><i>x 251</i></p> </div>	
		LOCATED DATE: <i>1/9 1981</i>	
		BY: <i>MJJ</i>	


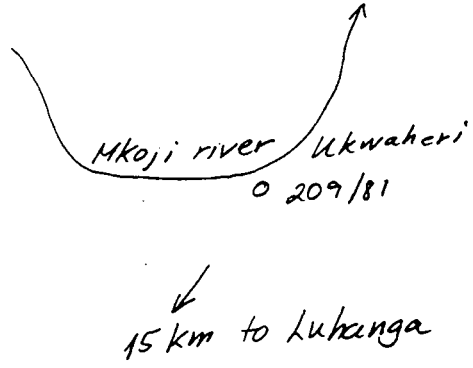
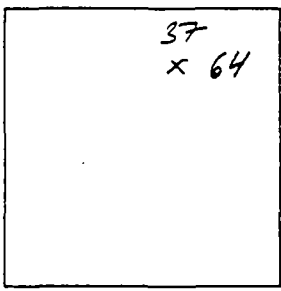
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg Mbeya Distr Mbeya</i> <i>Vil Luhanga</i>		BH NO. <i>207/81</i>	
		CCKK NO. <i>MS 22</i>	
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>21/9 1981</i>	GROUND ELEV. MASL	
CASING DIA. MM		MEASUR. POINT $M \frac{a}{b} G$	
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M	<i>30.5</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG		SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG			
STEADY YIELD, M ³ /HR			
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	P. C. B.		
REMARKS	<i>Dry borehole</i>		
SKETCH OF WELL SITE	WELL POINT		
	MAP NO.: <i>245/II</i> SCALE: <i>1:50,000</i>		
	DISTANCE FROM EDGE OF MAP (MM)	<div style="border: 1px solid black; padding: 10px; width: fit-content; margin: 0 auto;"> <p align="center"><i>217</i> <i>x 275</i></p> </div>	
	LOCATED DATE: <i>1/9 1981</i>		
	BY: <i>MJJ</i>		


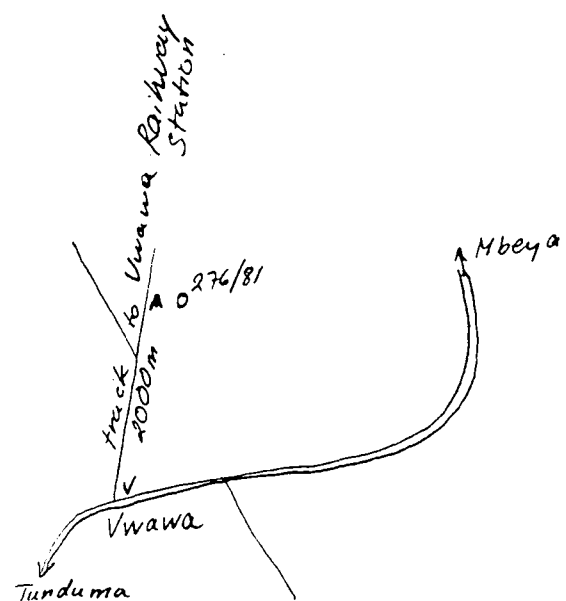
BOREHOLE LOCATION RECORD

LOCATION: <i>Reg: Mbeya, Distr: Mbeya</i> <i>Vil: Luhaunga</i>		BH NO.	<i>208/81</i>
		CCKK NO.	<i>MS 23</i>
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	<i>4/9 1981</i>	GROUND ELEV. MASL	
CASING DIA. MM	<i>102</i>	MEASUR. POINT M _B ^a G	<i>0.20</i>
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	<i>21.36</i>
DRILLED DEPTH, M	<i>30.5</i>	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	<i>20.1</i>	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	<i>18.3-24.4</i>		
STEADY YIELD, M ³ /HR	<i>1.0</i>		
DRAWDOWN, M	<i>3.6</i>		
METHOD OF PUMPING			
WATER ANALYSIS	P. <i>(C)</i> B.		
REMARKS			
SKETCH OF WELL SITE	WELL POINT		
	MAP NO.: <i>245 II</i>		
	SCALE: <i>1:50,000</i>		
	DISTANCE FROM EDGE OF MAP (MM)		
			
	LOCATED DATE: <i>4/9 1981</i>		
	BY: <i>MJJ</i>		

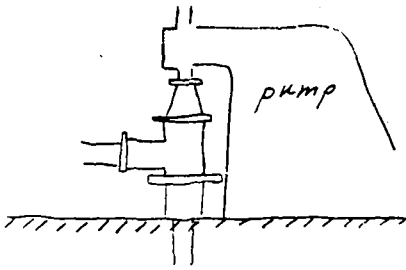
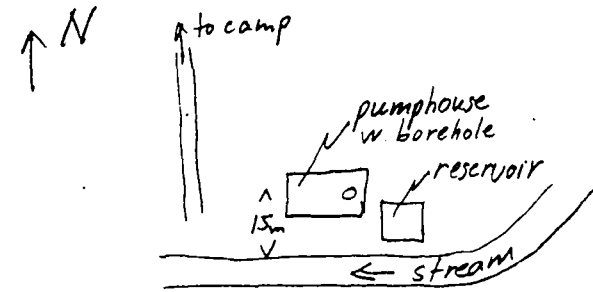
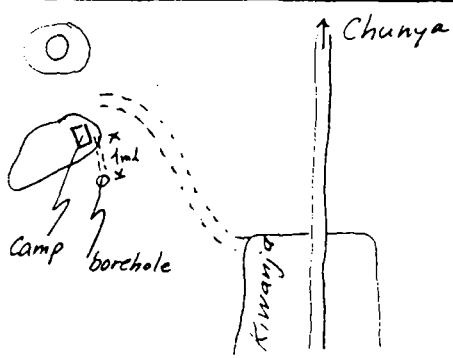
BOREHOLE LOCATION RECORD

LOCATION: Reg: Mbeya, Distr: Mbeya Vil: Ukwaheri		BH NO.	209/81
		CCKK NO.	MS 24
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	24/8 1981	GROUND ELEV. MASL	
CASING DIA. MM	102	MEASUR. POINT MBG	0.20
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	12.85
DRILLED DEPTH, M	30.5	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	11.6	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	19.8		
STEADY YIELD, M ³ /HR	1.2		
DRAWDOWN, M	14.4		
METHOD OF PUMPING			
WATER ANALYSIS	P. (C) B.		
REMARKS			
SKETCH OF WELL SITE	WELL POINT		
	MAP NO.: 245/II		
	SCALE: 1:50,000		
	DISTANCE FROM EDGE OF MAP (MM)		
			
	LOCATED DATE: 1/9 1981		
	BY: HJJ		

BOREHOLE LOCATION RECORD

LOCATION: Reg: Mbeya Distr: Mbozi Vil: Vwawa		BH NO.	276/81
		CCKK NO.	MD 1
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE	10/5 1981	GROUND ELEV. MASL	
CASING DIA. MM	102	MEASUR. POINT MBG	0.20
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	1.23
DRILLED DEPTH, M	45.7	WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG	6.1	SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG	24.4		
STEADY YIELD, M ³ /HR			
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	P. (C) B.		
REMARKS	<p>Geol. and Seismic Surveys performed</p>		
SKETCH OF WELL SITE	<p>WELL POINT</p> <p>MAP NO.: 257/II SCALE: 1:50,000</p> <p>DISTANCE FROM EDGE OF MAP (MM)</p> <div style="border: 1px solid black; width: 150px; height: 100px; margin: 10px auto; display: flex; align-items: center; justify-content: center;"> 199 x 141 </div> <p>LOCATED DATE: 1/9 1981 BY: HJJ</p>		
			

BOREHOLE LOCATION RECORD

LOCATION: Reg: Mbeya: Distr: Chunya V.I: Kiwanja		BH NO. — CCKK NO. —
DATA COLLECTED	FROM WELL LOG	ON SITE
COMPLETION DATE	1975	GROUND ELEV. MASL
CASING DIA. MM	152	MEASUR. POINT M _D ^a G
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL
		WATER LEVEL, MBG
DRILLED DEPTH, M	60	WATER LEVEL, MASL
STAND. WATER LEVEL, MBG		SKETCH OF WELL TOP/MP
WATER STRUCK, MBG		
STEADY YIELD, M ³ /HR	11.4	
DRAWDOWN, M		
METHOD OF PUMPING	Piston pump CEHA 47 x 24"	
WATER ANALYSIS	P. (C) B.	
REMARKS	Impossible to measure water level.	
SKETCH OF WELL SITE	WELL POINT	
	MAP NO.: 244 III SCALE: 1:50,000	DISTANCE FROM EDGE OF MAP (MM)
	<div style="border: 1px solid black; width: 100px; height: 100px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> 188 x 193 </div>	
	LOCATED DATE: 18/9 1980	
	BY: J L W	

BOREHOLE LOCATION RECORD

LOCATION: Reg: Mbeya , Distr: Mbozi Vil: Tunduma		BH NO.	-
		CCKK NO.	-
DATA COLLECTED	FROM WELL LOG	ON SITE	
COMPLETION DATE		GROUND ELEV. MASL	
CASING DIA. MM		MEASUR. POINT $M_{\frac{a}{b}}G$	0.77
TYPE OF SCREEN DIAMETER, MM		MP ELEVATION, MASL	
		WATER LEVEL, MBG	
DRILLED DEPTH, M		WATER LEVEL, MASL	
STAND. WATER LEVEL, MBG		SKETCH OF WELL TOP/MP	
WATER STRUCK, MBG			
STEADY YIELD, M ³ /HR			
DRAWDOWN, M			
METHOD OF PUMPING			
WATER ANALYSIS	P. C. B.		
REMARKS			
SKETCH OF WELL SITE		WELL POINT	
		MAP NO.: 257 IX	
		SCALE: 1:50,000	
		DISTANCE FROM EDGE OF MAP (MM)	
		LOCATED DATE: 9/10 1980	
		BY: JLVW	

Appendix 3
Chemical analyses.

IRINGA

CHEMICAL ANALYSIS FORM

Region: <i>Iringa</i>	District: <i>Iringa</i>	Village: <i>Nduli air field</i>	BH no <i>22/55</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>727</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>422</i>		<i>4.02</i>
Sulphate SO_4^{--}	<i>0</i>		<i>0</i>
Chloride Cl^-	<i>278</i>		<i>7.84</i>
Flouride F^-	<i>0.5</i>		<i>0.03</i>
Nitrate NO_3^-	<i>0</i>		<i>0</i>
Nitrite NO_2^-	<i>0</i>		<i>0</i>
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>266</i>	<i>13.30</i>	<i>14.87</i>
Magnesium Mg^{++}	<i>8.6</i>	<i>0.71</i>	
Iron Fe^{++}	<i>0</i>	<i>0</i>	
Manganese Mn^{++}	<i>0</i>	<i>0</i>	
Ammonium NH_4^+	<i>0</i>	<i>0</i>	
Sodium Na^+	<i>19</i>	<i>0.83</i>	
Potassium K^+			
Silica SiO_2		<i>14.84</i>	
pH value	<i>7.3</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>700</i>		
Hardness Temporary CaCO_3	<i>350</i>		
Hardness Permanent CaCO_3	<i>350</i>		
Conductivity 25 °C mikro S/cm	<i>1200</i>		
Temperature °C			
Total alkalinity	<i>350</i>		

Date of sampling	<i>12.08.80</i>
Date of analysis	<i>13.08.80</i>
Remarks	<i>Sample from D.P</i>

CHEMICAL ANALYSIS FORM

Region: <i>Iringa</i>	District: <i>Iringa</i>	Village: <i>Ndindi air field</i>	BH no <i>22/5</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>567</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>432</i>		<i>7,16</i>
Sulphate SO_4^{--}	<i>0</i>		<i>0</i>
Chloride Cl^-	<i>2694</i>		<i>7,60</i>
Flouride F^-	<i>0,52</i>		<i>0,03</i>
Nitrate NO_3^-	<i>0</i>		<i>0</i>
Nitrite NO_2^-	<i>40</i>		<i>0,09</i>
Phosphate PO_4^{--}			
Calcium Ca^{++}	<i>792</i>	<i>3,25</i>	<i>14,88</i>
Magnesium Mg^{++}	<i>523</i>	<i>4,30</i>	
Iron Fe^{++}	<i>0,4</i>	<i>0,01</i>	
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+	<i>46</i>	<i>2,00</i>	
Potassium K^+	<i>6,2</i>	<i>0,16</i>	
Silica SiO_2	<i>2</i>	<i>10,42</i>	
pH value	<i>7,7</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3			
Hardness Temporary CaCO_3			
Hardness Permanent CaCO_3			
Conductivity 25 °C mikro S/cm			
Temperature °C			
Total alkalinity			

Date of sampling	
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Iringa</i>	District: <i>Iringa</i>	Village: <i>Ismani</i>	BH no <i>24/55</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>1700</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>500</i>		<i>2,20</i>
Sulphate SO_4^{--}	<i>600</i>		<i>12,60</i>
Chloride Cl^-	<i>212</i>		<i>5,94</i>
Flouride F^-	<i>9,2</i>		<i>0,91</i>
Nitrate NO_3^-			
Nitrite NO_2^-			
Phosphate PO_4^{----}			
Calcium Ca^{++}	<i>173</i>	<i>8,65</i>	<i>26,75</i>
Magnesium Mg^{++}	<i>107</i>	<i>2,92</i>	
Iron Fe^{++}			
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+	<i>252</i>	<i>9,17</i>	
Potassium K^+			
Silica SiO_2		<i>26,74</i>	
pH value	<i>7,5</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3			
Hardness Temporary CaCO_3			
Hardness Permanent CaCO_3			
Conductivity 25 °C mikro S/cm			
Temperature °C			
Total alkalinity			

Date of sampling	
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Iringa</i>	District:	Village: <i>Ukaninemo</i>	BH no <i>38/52</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>630</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>290</i>		<i>425</i>
Sulphate SO_4^{--}			
Chloride Cl^-	<i>109</i>		<i>307</i>
Flouride F^-	<i>20</i>		<i>0,11</i>
Nitrate NO_3^-			
Nitrite NO_2^-			
Phosphate PO_4^{--}			
Calcium Ca^{++}	<i>70</i>	<i>3,50</i>	
Magnesium Mg^{++}	<i>24</i>	<i>1,97</i>	
Iron Fe^{++}			
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+			
Potassium K^+			
Silica SiO_2			
pH value			
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3			
Hardness Temporary CaCO_3			
Hardness Permanent CaCO_3			
Conductivity 25 °C mikro S/cm			
Temperature °C			
Total alkalinity			

Date of sampling	
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Trigga</i>	District: <i>Njombe</i>	Village: <i>Ilembula</i>	BH no <i>5/52</i>
			CCKX no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions ⁻
Total dissolved solids	<i>412</i>		
Carbonate CO_3^{--}	<i>93</i>		<i>3,10</i>
Bicarbonate HCO_3^-			
Sulphate SO_4^{--}	<i>0</i>		<i>0</i>
Chloride Cl^-	<i>177</i>		<i>0,50</i>
Flouride F^-	<i>22</i>		<i>0,12</i>
Nitrate NO_3^-	<i>0,26</i>		<i>0,00</i>
Nitrite NO_2^-	<i>0</i>		<i>0</i>
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>345</i>	<i>1,73</i>	
Magnesium Mg^{++}	<i>17,1</i>	<i>1,41</i>	
Iron Fe^{++}	<i>0,16</i>	<i>0,01</i>	
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+	<i>92</i>	<i>4,00</i>	
Potassium K^+	<i>25</i>	<i>0,06</i>	
Silica SiO_2			
pH value	<i>8,2</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>156</i>		
Hardness Temporary CaCO_3			
Hardness Permanent CaCO_3			
Conductivity 25 °C mikro S/cm	<i>550</i>		
Temperature °C			
Total alkalinity			

Date of sampling	
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Iringa</i>	District: <i>Njombe</i>	Village: <i>Wanging'ombe</i>	BH no <i>49/68</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>79</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>537</i>		<i>8,80</i>
Sulphate SO_4^{--}	<i>30</i>		<i>0,63</i>
Chloride Cl^-	<i>185</i>		<i>5,22</i>
Flouride F^-	<i>0,1</i>		<i>0,01</i>
Nitrate NO_3^-			
Nitrite NO_2^-			
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>99</i>	<i>4,95</i>	<i>14,66</i>
Magnesium Mg^{++}	<i>23</i>	<i>1,89</i>	
Iron Fe^{++}			
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+	<i>190</i>	<i>8,26</i>	
Potassium K^+			
Silica SiO_2		<i>15,10</i>	
pH value			
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3			
Hardness Temporary CaCO_3			
Hardness Permanent CaCO_3			
Conductivity 25 °C mikro S/cm			
Temperature °C			
Total alkalinity			

Date of sampling	
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Tring</i>	District: <i>Tring</i>	Village: <i>Thengoz</i>	BH no <i>43/15</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>1200</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>469</i>		<i>469</i>
Sulphate SO_4^{--}	<i>130</i>		<i>271</i>
Chloride Cl^-	<i>220</i>		<i>620</i>
Flouride F^-	<i>11</i>		<i>0.06</i>
Nitrate NO_3^-	<i>0</i>		<i>0</i>
Nitrite NO_2^-	<i>0</i>		<i>0</i>
Phosphate PO_4^{--}			
Calcium Ca^{++}	<i>192</i>	<i>960</i>	<i>1666</i>
Magnesium Mg^{++}	<i>24</i>	<i>192</i>	
Iron Fe^{++}	<i>0</i>	<i>0</i>	
Manganese Mn^{++}	<i>0</i>	<i>0</i>	
Ammonium NH_4^+	<i>0</i>	<i>0</i>	
Sodium Na^+	<i>110</i>	<i>478</i>	
Potassium K^+			
Silica SiO_2		<i>1635</i>	
pH value	<i>7.4</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>580</i>		
Hardness Temporary CaCO_3	<i>385</i>		
Hardness Permanent CaCO_3	<i>195</i>		
Conductivity 25 °C mikro S/cm	<i>2000</i>		
Temperature °C			
Total alkalinity	<i>385</i>		

Date of sampling	<i>22.08.80</i>
Date of analysis	<i>23.08.80</i>
Remarks	<i>Sample taken from top</i>

CHEMICAL ANALYSIS FORM

Region: <i>Iringa</i>	District: <i>Iringa</i>	Village: <i>Ikengeza</i>	BH no <i>73/72</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>840</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>415</i>		<i>6,80</i>
Sulphate SO_4^{--}	<i>110</i>		<i>2,29</i>
Chloride Cl^-	<i>120</i>		<i>3,38</i>
Flouride F^-	<i>0,8</i>		<i>0,04</i>
Nitrate NO_3^-	<i>0</i>		<i>0</i>
Nitrite NO_2^-	<i>0</i>		<i>0</i>
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>3664</i>	<i>12,32</i>	<i>12,51</i>
Magnesium Mg^{++}			
Iron Fe^{++}	<i>0</i>	<i>0</i>	
Manganese Mn^{++}	<i>0</i>	<i>0</i>	
Ammonium NH_4^+	<i>0</i>	<i>0</i>	
Sodium Na^+			
Potassium K^+			
Silica SiO_2		<i>12,32</i>	
pH value	<i>7,4</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>1200</i>		
Hardness Temporary CaCO_3	<i>340</i>		
Hardness Permanent CaCO_3	<i>860</i>		
Conductivity 25 °C mikro S/cm	<i>1400</i>		
Temperature °C			
Total alkalinity	<i>340</i>		

Date of sampling	<i>22.02.80</i>
Date of analysis	<i>23.02.80</i>
Remarks	<i>Dug hole in village</i>

CHEMICAL ANALYSIS FORM

Region: <i>Iringo</i>	District: <i>Iringo</i>	Village: <i>Ikengezo</i>	BH no <i>73/92</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>1207</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>469</i>		<i>2,69</i>
Sulphate SO_4^{--}	<i>130</i>		<i>2,71</i>
Chloride Cl^-	<i>220</i>		<i>6,20</i>
Flouride F^-	<i>1,1</i>		<i>0,06</i>
Nitrate NO_3^-			
Nitrite NO_2^-			
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>192</i>	<i>9,60</i>	<i>16,56</i>
Magnesium Mg^{++}	<i>24</i>	<i>2,00</i>	
Iron Fe^{++}			
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+	<i>110</i>	<i>4,78</i>	
Potassium K^+			
Silica SiO_2		<i>16,58</i>	
pH value	<i>7,4</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>580</i>		
Hardness Temporary CaCO_3	<i>385</i>		
Hardness Permanent CaCO_3	<i>195</i>		
Conductivity 25 °C mikro S/cm	<i>2000</i>		
Temperature °C			
Total alkalinity	<i>385</i>		

Date of sampling	
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Iringa</i>	District: <i>Njombe</i>	Village: <i>Mayale</i>	BH no <i>149/82</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	210		
Carbonate CO_3^{--}	0		0
Bicarbonate HCO_3^-	99,4		1,63
Sulphate SO_4^{--}	5,0		0,10
Chloride Cl^-	25,5		0,72
Flouride F^-	0,65		0,03
Nitrate NO_3^-	1,9		0,03
Nitrite NO_2^-			
Phosphate PO_4^{--}			
Calcium Ca^{++}	5,6	0,28	2,51
Magnesium Mg^{++}	3,8	0,32	
Iron Fe^{++}	5,4	0,20	
Manganese Mn^{++}	0,325	0,01	
Ammonium NH_4^+			
Sodium Na^+	25,8	1,12	
Potassium K^+	3,5	0,89	
Silica SiO_2	70	2,82	
pH value	8,5		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3			
Hardness Temporary CaCO_3			
Hardness Permanent CaCO_3			
Conductivity 25 °C mikro S/cm	160		
Temperature °C			
Total alkalinity			

Date of sampling	
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Iringa</i>	District: <i>Iringa</i>	Village: <i>Mkulula</i>	BH no <i>79/92</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>1840</i>		
Carbonate CO_3^{--}	<i>0</i>		<i>0</i>
Bicarbonate HCO_3^-	<i>126,2</i>		<i>2,07</i>
Sulphate SO_4^{--}	<i>500</i>		<i>10,42</i>
Chloride Cl^-	<i>538,7</i>		<i>15,19</i>
Flouride F^-	<i>0,86</i>		<i>0,05</i>
Nitrate NO_3^-	<i>0</i>		<i>0</i>
Nitrite NO_2^-			
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>118,7</i>	<i>5,94</i>	<i>27,73</i>
Magnesium Mg^{++}	<i>98,6</i>	<i>8,11</i>	
Iron Fe^{++}	<i>4,66</i>	<i>0,12</i>	
Manganese Mn^{++}			
Ammonium NH_4^{+}			
Sodium Na^+	<i>80,5</i>	<i>3,50</i>	
Potassium K^+			
Silica SiO_2		<i>17,72</i>	
pH value	<i>7,7</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3			
Hardness Temporary CaCO_3			
Hardness Permanent CaCO_3			
Conductivity 25 °C mikro S/cm	<i>2050</i>		
Temperature °C			
Total alkalinity			

Date of sampling	
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Tringa</i>	District: <i>Mufindi</i>	Village: <i>Igowole</i>	BH no <i>5/24</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	40		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	12,2		0,20
Sulphate SO_4^{--}	0		0
Chloride Cl^-	5,6		0,16
Flouride F^-	0,13		0,01
Nitrate NO_3^-	Trace		0,00
Nitrite NO_2^-	0,002		0,00
Phosphate PO_4^{---}			
Calcium Ca^{++}	1,58	0,07	0,37
Magnesium Mg^{++}	1,09	0,09	
Iron Fe^{++}	4,0	0,14	
Manganese Mn^{++}			
Ammonium NH_4^+	0,11	0,06	
Sodium Na^+	2,8	0,13	
Potassium K^+			
Silica SiO_2		0,49	
pH value	7,5		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	8,4		
Hardness Temporary CaCO_3			
Hardness Permanent CaCO_3			
Conductivity 25 °C mikro S/cm	49		
Temperature °C			
Total alkalinity			

Date of sampling	
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Iringa</i>	District: <i>Njombe</i>	Village: <i>Ngerenge</i>	BH no <i>85/14</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>800</i>		
Carbonate CO_3^{--}	} <i>198</i>		} <i>3,24</i>
Bicarbonate HCO_3^-			
Sulphate SO_4^{--}			
Chloride Cl^-	<i>518,3</i>		<i>14,50</i>
Flouride F^-	<i>0,24</i>		<i>0,01</i>
Nitrate NO_3^-	<i>0,32</i>		<i>0,01</i>
Nitrite NO_2^-	<i>0,006</i>		<i>0,00</i>
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>27,8</i>	<i>1,39</i>	<i>17,76</i>
Magnesium Mg^{++}	<i>17,7</i>	<i>1,50</i>	
Iron Fe^{++}	<i>3,68</i>	<i>0,13</i>	
Manganese Mn^{++}			
Ammonium NH_4^+	<i>0,11</i>	<i>0,01</i>	
Sodium Na^+	<i>297,5</i>	<i>12,04</i>	
Potassium K^+			
Silica SiO_2		<i>16,07</i>	
pH value	<i>6,7</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>142</i>		
Hardness Temporary CaCO_3	<i>0</i>		
Hardness Permanent CaCO_3	<i>142</i>		
Conductivity 25 °C mikro S/cm	<i>1200</i>		
Temperature °C			
Total alkalinity	<i>161,9</i>		

Date of sampling	
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Iringa</i>	District: <i>Iringa</i>	Village: <i>Ikengeza</i>	BH no <i>14/26</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>1300</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>454</i>		<i>2,44</i>
Sulphate SO_4^{--}	<i>211</i>		<i>440</i>
Chloride Cl^-	<i>102,4</i>		<i>2,29</i>
Flouride F^-	<i>0,32</i>		<i>0,02</i>
Nitrate NO_3^-	<i>0,03</i>		<i>0,00</i>
Nitrite NO_2^-	<i>0,02</i>		<i>0,00</i>
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>102,5</i>	<i>5,38</i>	<i>14,23</i>
Magnesium Mg^{++}	<i>52,8</i>	<i>4,25</i>	
Iron Fe^{++}			
Manganese Mn^{++}			
Ammonium NH_4^+	<i>0,3</i>	<i>0,02</i>	
Sodium Na^+	<i>71,9</i>	<i>3,13</i>	
Potassium K^+	<i>10,6</i>	<i>0,22</i>	
Silica SiO_2		<i>13,55</i>	
pH value	<i>8,1</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>506,5</i>		
Hardness Temporary CaCO_3	<i>372,8</i>		
Hardness Permanent CaCO_3	<i>133,7</i>		
Conductivity 25 °C mikro S/cm	<i>1500</i>		
Temperature °C			
Total alkalinity	<i>322,8</i>		
<i>Permanganate, number</i>	<i>4,6</i>		

Date of sampling	<i>20.02.26</i>
Date of analysis	<i>23.02.26</i>
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Iringa</i>	District: <i>Njombe</i>	Village: <i>Palangwundu</i>	BH no <i>53/76</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>700</i>		
Carbonate CO_3^{--}	<i>0</i>		<i>0</i>
Bicarbonate HCO_3^-	<i>676</i>		<i>11,08</i>
Sulphate SO_4^{--}	<i>36</i>		<i>0,76</i>
Chloride Cl^-	<i>53,2</i>		<i>1,49</i>
Flouride F^-	<i>3,04</i>		<i>0,16</i>
Nitrate NO_3^-	<i>1,20</i>		<i>0,02</i>
Nitrite NO_2^-	<i>0,02</i>		<i>0,00</i>
Phosphate PO_4^{--}			
Calcium Ca^{++}	<i>26,0</i>	<i>1,30</i>	<i>13,51</i>
Magnesium Mg^{++}	<i>20,4</i>	<i>1,62</i>	
Iron Fe^{++}	<i>0,24</i>	<i>0,01</i>	
Manganese Mn^{++}			
Ammonium NH_4^+	<i>0,35</i>	<i>0,02</i>	
Sodium Na^+	<i>23,00</i>	<i>10,00</i>	
Potassium K^+	<i>3,3</i>	<i>0,02</i>	
Silica SiO_2		<i>13,09</i>	
pH value	<i>8,2</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>149,0</i>		
Hardness Temporary CaCO_3	<i>149,0</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>1135</i>		
Temperature °C			
Total alkalinity	<i>553,2</i>		
Permanganate number	<i>3,3</i>		

Date of sampling	
Date of analysis	<i>05.04.96</i>
Remarks	<i>Coloured, slightly hard, very alkaline water with elevated amount of flouride and high conductivity</i>

-CHEMICAL ANALYSIS FORM-

Region: <i>Iringa</i>	District: <i>Njombe</i>	Village: <i>Uhanbule</i>	BH no <i>54/46</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>690</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>407</i>		<i>6,67</i>
Sulphate SO_4^{--}	<i>50</i>		<i>1,04</i>
Chloride Cl^-	<i>86,5</i>		<i>2,44</i>
Flouride F^-	<i>0,25</i>		<i>0,01</i>
Nitrate NO_3^-	<i>40,4</i>		<i>0,65</i>
Nitrite NO_2^-	<i>0,07</i>		<i>0,00</i>
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>65,2</i>	<i>3,25</i>	<i>10,81</i>
Magnesium Mg^{++}	<i>44,2</i>	<i>3,63</i>	
Iron Fe^{++}	<i>0</i>	<i>0</i>	
Manganese Mn^{++}			
Ammonium NH_4^+	<i>0,07</i>	<i>0,00</i>	
Sodium Na^+	<i>80,5</i>	<i>3,50</i>	
Potassium K^+	<i>8,6</i>	<i>0,22</i>	
Silica SiO_2		<i>10,60</i>	
pH value	<i>7,2</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>345,0</i>		
Hardness Temporary CaCO_3	<i>333,8</i>		
Hardness Permanent CaCO_3	<i>11,2</i>		
Conductivity 25 °C mikro S/cm	<i>940</i>		
Temperature °C			
Total alkalinity	<i>333,8</i>		
Permanganate number	<i>4,8</i>		

Date of sampling	<i>23.06.76</i>
Date of analysis	<i>03.07.76</i>
Remarks	<i>Hard neutral water with a moderately high amount of nitrates</i>
	<i>The water may have corrosive properties.</i>

CHEMICAL ANALYSIS FORM

Region: <i>Iringa</i>	District: <i>Njombe</i>	Village: <i>Iyayi</i>	BH no <i>55/76</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>440</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>508</i>		<i>8,32</i>
Sulphate SO_4^{--}	<i>72</i>		<i>4,60</i>
Chloride Cl^-	<i>17,7</i>		<i>0,50</i>
Flouride F^-	<i>1,10</i>		<i>0,06</i>
Nitrate NO_3^-	<i>0,03</i>		<i>0,02</i>
Nitrite NO_2^-	<i>0,22</i>		<i>0,01</i>
Phosphate PO_4^{--}			
Calcium Ca^{++}	<i>504</i>	<i>2,50</i>	<i>10,49</i>
Magnesium Mg^{++}	<i>29,3</i>	<i>2,41</i>	
Iron Fe^{++}	<i>14,7</i>	<i>0,53</i>	
Manganese Mn^{++}			
Ammonium NH_4^+	<i>0,4</i>	<i>0,02</i>	
Sodium Na^+	<i>1150</i>	<i>5,00</i>	
Potassium K^+	<i>3,5</i>	<i>0,09</i>	
Silica SiO_2		<i>10,55</i>	
pH value	<i>8,2</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>245,7</i>		
Hardness Temporary CaCO_3	<i>245,7</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>790</i>		
Temperature °C			
Total alkalinity	<i>416,4</i>		
<i>Potmanganat number</i>	<i>5,5</i>		

Date of sampling	
Date of analysis	<i>05.04.76</i>
Remarks	<i>High, slightly coloured, very alkaline water with very high amount of iron.</i>

CHEMICAL ANALYSIS FORM

Region: <i>Iringa</i>	District: <i>Njombe</i>	Village: <i>Halali</i>	BH no <i>67/26</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>630</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>336</i>		<i>5,51</i>
Sulphate SO_4^{--}	<i>0</i>		<i>0</i>
Chloride Cl^-	<i>1990</i>		<i>5,61</i>
Flouride F^-	<i>1,62</i>		<i>0,09</i>
Nitrate NO_3^-	<i>0,07</i>		<i>0,00</i>
Nitrite NO_2^-	<i>0,001</i>		<i>0,02</i>
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>83,5</i>	<i>4,17</i>	<i>11,21</i>
Magnesium Mg^{++}	<i>241</i>	<i>1,98</i>	
Iron Fe^{++}	<i>0</i>	<i>0</i>	
Manganese Mn^{++}			
Ammonium NH_4^+	<i>0,2</i>	<i>0,01</i>	
Sodium Na^+	<i>86,3</i>	<i>3,75</i>	
Potassium K^+	<i>31</i>	<i>0,08</i>	
Silica SiO_2		<i>9,99</i>	
pH value	<i>7,9</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>307,8</i>		
Hardness Temporary CaCO_3	<i>274,9</i>		
Hardness Permanent CaCO_3	<i>32,9</i>		
Conductivity 25 °C mikro S/cm	<i>1030</i>		
Temperature °C			
Total alkalinity	<i>274,9</i>		
<i>Permanganate number</i>	<i>3,8</i>		

Date of sampling	
Date of analysis	<i>22.08.26</i>
Remarks	<i>Alkaline, very hard water with high conductivity</i>

CHEMICAL ANALYSIS FORM

Region: <i>Tringa</i>	District: <i>Njombe</i>	Village: <i>Utaja</i>	BH no <i>71/76</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>1600</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>338</i>		<i>5,54</i>
Sulphate SO_4^{--}	<i>73</i>		<i>1,53</i>
Chloride Cl^-	<i>714,9</i>		<i>20,16</i>
Flouride F^-	<i>0,42</i>		<i>0,02</i>
Nitrate NO_3^-	<i>0,94</i>		<i>0,02</i>
Nitrite NO_2^-	<i>0,02</i>		<i>0,02</i>
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>217,2</i>	<i>10,85</i>	<i>21,27</i>
Magnesium Mg^{++}	<i>85,5</i>	<i>7,93</i>	
Iron Fe^{++}	<i>0,1</i>	<i>0,00</i>	
Manganese Mn^{++}			
Ammonium NH_4^+	<i>0,23</i>	<i>0,01</i>	
Sodium Na^+	<i>195,5</i>	<i>8,50</i>	
Potassium K^+	<i>9,4</i>	<i>0,24</i>	
Silica SiO_2		<i>26,63</i>	
pH value	<i>8,0</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>894,5</i>		
Hardness Temporary CaCO_3	<i>276,8</i>		
Hardness Permanent CaCO_3	<i>617,7</i>		
Conductivity 25 °C mikro S/cm	<i>2500</i>		
Temperature °C			
Total alkalinity	<i>276,8</i>		

Date of sampling	
Date of analysis	<i>27.08.76</i>
Remarks	<i>Very hard, alkaline and salty water with very high conductivity</i>
	<i>Water contains chloride in excessive amounts</i>

CHEMICAL ANALYSIS FORM

Region: <i>Iringa</i>	District: <i>Iringa</i>	Village: <i>Ikuka</i>	BH no <i>148/26</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>600</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>230</i>		<i>3,72</i>
Sulphate SO_4^{--}	<i>130</i>		<i>2,71</i>
Chloride Cl^-	<i>99</i>		<i>2,29</i>
Flouride F^-	<i>0,3</i>		<i>0,02</i>
Nitrate NO_3^-	<i>0</i>		<i>0</i>
Nitrite NO_2^-	<i>0</i>		<i>0</i>
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>100</i>	<i>5,00</i>	<i>9,29</i>
Magnesium Mg^{++}	<i>23</i>	<i>1,89</i>	
Iron Fe^{++}	<i>0</i>	<i>0</i>	
Manganese Mn^{++}	<i>0</i>	<i>0</i>	
Ammonium NH_4^+	<i>0</i>	<i>0</i>	
Sodium Na^+	<i>52</i>	<i>2,26</i>	
Potassium K^+			
Silica SiO_2		<i>9,15</i>	
pH value	<i>7,9</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>344</i>		
Hardness Temporary CaCO_3	<i>188</i>		
Hardness Permanent CaCO_3	<i>156</i>		
Conductivity 25 °C mikro S/cm	<i>1000</i>		
Temperature °C			
Total alkalinity	<i>188</i>		

Date of sampling	<i>02.09.87</i>
Date of analysis	<i>03.09.87</i>
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Irigua</i>	District: <i>Irigua</i>	Village: <i>Ikuka</i>	BH no <i>148/76</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>426</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>278</i>		<i>4,56</i>
Sulphate SO_4^{--}	<i>124</i>		<i>0,25</i>
Chloride Cl^-	<i>78,1</i>		<i>2,20</i>
Flouride F^-	<i>0,21</i>		<i>0,01</i>
Nitrate NO_3^-	<i>0,63</i>		<i>0,01</i>
Nitrite NO_2^-	<i>0,007</i>		<i>0,00</i>
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>35,1</i>	<i>1,25</i>	<i>7,03</i>
Magnesium Mg^{++}	<i>26,3</i>	<i>2,12</i>	
Iron Fe^{++}			
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+	<i>64,4</i>	<i>2,80</i>	
Potassium K^+	<i>5,3</i>	<i>0,14</i>	
Silica SiO_2		<i>6,86</i>	
pH value	<i>7,8</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>195,9</i>		
Hardness Temporary CaCO_3	<i>0</i>		
Hardness Permanent CaCO_3	<i>195,9</i>		
Conductivity 25 °C mikro S/cm	<i>710</i>		
Temperature °C			
Total alkalinity	<i>226,7</i>		
<i>Potmanganate, number</i>	<i>8,2</i>		

Date of sampling	
Date of analysis	<i>05.11.76</i>
Remarks	<i>Coloured and turbid, moderately hard alkaline water.</i>

CHEMICAL ANALYSIS FORM

Region: <i>Iringa</i>	District: <i>Mufindi</i>	Village: <i>Malangali</i>	BH no <i>216/76</i> CCKK no
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CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>130</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>85</i>		<i>1,39</i>
Sulphate SO_4^{--}	<i>43</i>		<i>0,09</i>
Chloride Cl^-	<i>41</i>		<i>0,12</i>
Flouride F^-	<i>0,2</i>		<i>0,01</i>
Nitrate NO_3^-	<i>0</i>		<i>0</i>
Nitrite NO_2^-	<i>0,002</i>		<i>0,00</i>
Phosphate PO_4^{--}			
Calcium Ca^{++}	<i>11,3</i>	<i>0,52</i>	<i>1,61</i>
Magnesium Mg^{++}	<i>3,7</i>	<i>0,31</i>	
Iron Fe^{++}	<i>0,7</i>	<i>0,03</i>	
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+	<i>13,8</i>	<i>0,60</i>	
Potassium K^+	<i>3,7</i>	<i>0,09</i>	
Silica SiO_2		<i>1,60</i>	
pH value	<i>7,15</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>43,4</i>		
Hardness Temporary CaCO_3	<i>43,4</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>138</i>		
Temperature °C			
Total alkalinity	<i>69,8</i>		
<i>Permanganate number</i>	<i>3,0</i>		

Date of sampling	
Date of analysis	<i>06.11.76</i>
Remarks	<i>Coloured and turbid, soft, neutral water</i>

CHEMICAL ANALYSIS FORM

Region: <i>Iringa</i>	District: <i>Njombe</i>	Village: <i>Uhenge</i>	BH no <i>82/22</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>3910</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>336</i>		<i>5.51</i>
Sulphate SO_4^{--}	<i>0</i>		<i>0</i>
Chloride Cl^-	<i>1424.5</i>		<i>41.52</i>
Flouride F^-	<i>0.51</i>		<i>0.03</i>
Nitrate NO_3^-	<i>4.45</i>		<i>0.02</i>
Nitrite NO_2^-	<i>0.01</i>		<i>0.00</i>
Phosphate PO_4^{--}			
Calcium Ca^{++}	<i>278.2</i>	<i>13.95</i>	<i>47.19</i>
Magnesium Mg^{++}	<i>184.2</i>	<i>15.19</i>	
Iron Fe^{++}	<i>18.1</i>	<i>0.65</i>	
Manganese Mn^{++}			
Ammonium NH_4^+	<i>0.12</i>	<i>0.01</i>	
Sodium Na^+	<i>333.5</i>	<i>14.50</i>	
Potassium K^+	<i>12.1</i>	<i>0.31</i>	
Silica SiO_2		<i>44.61</i>	
pH value	<i>7.7</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>1456.0</i>		
Hardness Temporary CaCO_3	<i>225.1</i>		
Hardness Permanent CaCO_3	<i>1180.9</i>		
Conductivity 25 °C mikro S/cm	<i>4500</i>		
Temperature °C			
Total alkalinity	<i>225.1</i>		
<i>Permanganate number</i>	<i>14.0</i>		

Date of sampling	
Date of analysis	<i>02.06.22</i>
Remarks	<i>Extremely hard and saline water with a very high iron content</i>

CHEMICAL ANALYSIS FORM

Region: <i>Iringa</i>	District: <i>Iringa</i>	Village: <i>Mkulula</i>	BH no <i>126/72</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>2710</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>356</i>		<i>5.84</i>
Sulphate SO_4^{--}	<i>498</i>		<i>10.38</i>
Chloride Cl^-	<i>543.5</i>		<i>15.33</i>
Flouride F^-	<i>0.6</i>		<i>0.03</i>
Nitrate NO_3^-	<i>0.06</i>		<i>0.00</i>
Nitrite NO_2^-	<i>0.001</i>		<i>0.00</i>
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>423.7</i>	<i>21.20</i>	<i>31.58</i>
Magnesium Mg^{++}	<i>55.3</i>	<i>4.55</i>	
Iron Fe^{++}	<i>0.05</i>	<i>0.00</i>	
Manganese Mn^{++}			
Ammonium NH_4^+	<i>0.10</i>	<i>0.01</i>	
Sodium Na^+	<i>138.0</i>	<i>6.00</i>	
Potassium K^+	<i>16.8</i>	<i>0.43</i>	
Silica SiO_2		<i>32.19</i>	
pH value	<i>8.0</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>1282</i>		
Hardness Temporary CaCO_3	<i>292</i>		
Hardness Permanent CaCO_3	<i>995</i>		
Conductivity 25 °C mikro S/cm	<i>3000</i>		
Temperature °C			
Total alkalinity	<i>292</i>		
<i>Perranganate, number</i>	<i>2.8</i>		

Date of sampling	<i>26.08.22</i>
Date of analysis	<i>02.09.22</i>
Remarks	<i>Extremely hard, alkaline water</i>

CHEMICAL ANALYSIS FORM

Region: <i>Iringa</i>	District: <i>Iringa</i>	Village: <i>Usolonga</i>	BH no <i>129/92</i>
			CCPK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>4240</i>		
Carbonate CO_3^{--}	<i>214</i>		<i>7.13</i>
Bicarbonate HCO_3^-			
Sulphate SO_4^{--}	<i>340</i>		<i>7.02</i>
Chloride Cl^-	<i>1850</i>		<i>52.12</i>
Flouride F^-	<i>1.0</i>		<i>0.05</i>
Nitrate NO_3^-	<i>5</i>		<i>0.08</i>
Nitrite NO_2^-	<i>0</i>		<i>0</i>
Phosphate PO_4^{----}			
Calcium Ca^{++}	<i>1360</i>	<i>68.00</i>	
Magnesium Mg^{++}	<i>329</i>	<i>27.06</i>	
Iron Fe^{++}	<i>0</i>	<i>0</i>	
Manganese Mn^{++}	<i>0</i>	<i>0</i>	
Ammonium NH_4^+	<i>0</i>	<i>0</i>	
Sodium Na^+	<i>0</i>	<i>0</i>	
Potassium K^+			
Silica SiO_2			
pH value	<i>7.3</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>4670</i>		
Hardness Temporary CaCO_3	<i>350</i>		
Hardness Permanent CaCO_3	<i>4320</i>		
Conductivity 25 °C mikro S/cm	<i>7900</i>		
Temperature °C			
Total alkalinity	<i>350</i>		

Date of sampling	<i>28.08.80</i>
Date of analysis	<i>29.08.80</i>
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Iringa</i>	District: <i>Iringa</i>	Village: <i>Usolanga</i>	BH no <i>129/77</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>4200</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>87</i>		<i>1,43</i>
Sulphate SO_4^{--}			
Chloride Cl^-	<i>8944</i>		<i>25,22</i>
Flouride F^-			
Nitrate NO_3^-	<i>1,00</i>		<i>0,02</i>
Nitrite NO_2^-	<i>0,007</i>		<i>0,00</i>
Phosphate PO_4^{--}			
Calcium Ca^{++}	<i>2,33</i>	<i>0,12</i>	<i>26,67</i>
Magnesium Mg^{++}	<i>2,01</i>	<i>0,16</i>	
Iron Fe^{++}	<i>0,46</i>	<i>0,02</i>	
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+	<i>598</i>	<i>26,00</i>	
Potassium K^+	<i>16,5</i>	<i>0,42</i>	
Silica SiO_2		<i>26,70</i>	
pH value			
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>1408</i>		
Hardness Temporary CaCO_3	<i>71</i>		
Hardness Permanent CaCO_3	<i>1337</i>		
Conductivity 25 °C mikro S/cm	<i>3200</i>		
Temperature °C			
Total alkalinity	<i>7095</i>		

Date of sampling	<i>19.11.77</i>
Date of analysis	<i>25.11.77</i>
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Iringa</i>	District: <i>Iringa</i>	Village: <i>Izozi</i>	BH no <i>227/22</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>174</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>125</i>		<i>3,02</i>
Sulphate SO_4^{--}	<i>0</i>		<i>0</i>
Chloride Cl^-	<i>16</i>		<i>0,45</i>
Flouride F^-	<i>0</i>		<i>0</i>
Nitrate NO_3^-	<i>0</i>		<i>0</i>
Nitrite NO_2^-	<i>0</i>		<i>0</i>
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>47,2</i>	<i>2,36</i>	<i>3,48</i>
Magnesium Mg^{++}	<i>11</i>	<i>0,90</i>	
Iron Fe^{++}	<i>0</i>	<i>0</i>	
Manganese Mn^{++}	<i>0</i>	<i>0</i>	
Ammonium NH_4^+	<i>0</i>	<i>0</i>	
Sodium Na^+	<i>4,8</i>	<i>0,21</i>	
Potassium K^+			
Silica SiO_2		<i>3,42</i>	
pH value	<i>7,0</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>165</i>		
Hardness Temporary CaCO_3	<i>152</i>		
Hardness Permanent CaCO_3	<i>13</i>		
Conductivity 25 °C mikro S/cm	<i>290</i>		
Temperature °C			
Total alkalinity	<i>152</i>		

Date of sampling	<i>04.05.81</i>
Date of analysis	<i>25.05.81</i>
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Iriaga</i>	District: <i>Iriaga</i>	Village: <i>MBERA</i>	BH no <i>93/79</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>4207</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-			
Sulphate SO_4^{--}			
Chloride Cl^-	<i>1607</i>		<i>45,12</i>
Flouride F^-	<i>2,3</i>		<i>0,12</i>
Nitrate NO_3^-	<i>1,2</i>		<i>0,02</i>
Nitrite NO_2^-			
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>113</i>	<i>5,65</i>	
Magnesium Mg^{++}	<i>58,5</i>	<i>4,81</i>	
Iron Fe^{++}	<i>0</i>	<i>0</i>	
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+			
Potassium K^{++}			
Silica SiO_2			
pH value	<i>8,1</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>516</i>		
Hardness Temporary CaCO_3	<i>516</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>7000</i>		
Temperature °C			
Total alkalinity	<i>706</i>		

Date of sampling	
Date of analysis	<i>11.12.79</i>
Remarks	<i>salt content and high chloride</i>

CHEMICAL ANALYSIS FORM

Region: <i>Jironga</i>	District: <i>Jironga</i>	Village: <i>Nzibi</i>	BH no <i>3/21</i>
			CCKK no <i>102</i>

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>354</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>165</i>		<i>2,40</i>
Sulphate SO_4^{--}	<i>25</i>		<i>0,52</i>
Chloride Cl^-	<i>38</i>		<i>1,04</i>
Flouride F^-	<i>1,25</i>		<i>0,02</i>
Nitrate NO_3^-	<i>1,32</i>		<i>0,02</i>
Nitrite NO_2^-	<i>0</i>		<i>0</i>
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>368</i>	<i>1,84</i>	<i>4,38</i>
Magnesium Mg^{++}	<i>12</i>	<i>0,99</i>	
Iron Fe^{++}	<i>0</i>	<i>0</i>	
Manganese Mn^{++}	<i>Trace</i>		
Ammonium NH_4^+	<i>0</i>	<i>0</i>	
Natrium Na^+	<i>359</i>	<i>1,56</i>	
Potassium K^+			
Silica SiO_2		<i>4,39</i>	
pH value	<i>7,0</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>142</i>		
Hardness Temporary CaCO_3	<i>135</i>		
Hardness Permanent CaCO_3	<i>7</i>		
Conductivity 25 °C mikro S/cm	<i>590</i>		
Temperature °C			
Total alkalinity	<i>135</i>		

Date of sampling	<i>14.10.21</i>
Date of analysis	<i>16.11.21</i>
Remarks	<i>Sample taken during same period</i>
	<i>Analysed by DGT</i>

CHEMICAL ANALYSIS FORM

Region: <i>Franga</i>	District: <i>Franga</i>	Village: <i>Mboa</i>	BH no <i>4/21</i>
			CCKK no <i>ID 3</i>

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>5880</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>350</i>		<i>5.74</i>
Sulphate SO_4^{--}	<i>3200</i>		<i>66.63</i>
Chloride Cl^-	<i>364</i>		<i>10.22</i>
Flouride F^-	<i>54</i>		<i>0.28</i>
Nitrate NO_3^-	<i>0.16</i>		<i>0.00</i>
Nitrite NO_2^-	<i><0.01</i>		<i>0.00</i>
Phosphate PO_4^{--}	<i>0.01</i>		<i>0.00</i>
Calcium Ca^{++}	<i>376</i>	<i>18.80</i>	<i>82.92</i>
Magnesium Mg^{++}	<i>166</i>	<i>13.65</i>	
Iron Fe^{++}	<i>0.96</i>	<i>0.03</i>	
Manganese Mn^{++}	<i>1.16</i>	<i>0.04</i>	
Ammonium NH_4^+	<i>0.10</i>	<i>0.01</i>	
Sodium Na^+	<i>1180</i>	<i>51.33</i>	
Potassium K^+	<i>2.4</i>	<i>0.06</i>	
Silica SiO_2	<i>47</i>	<i>83.92</i>	
pH value	<i>7.45</i>		
Carbon dioxide, free CO_2	<i>18</i>		
Carbon dioxide, aggressive CO_2	<i>0</i>		
Hardness Total CaCO_3	<i>91</i>		
Hardness Temporary CaCO_3	<i>16</i>		
Hardness Permanent CaCO_3	<i>25</i>		
Conductivity 25 °C mikro S/cm	<i>6250</i>		
Temperature °C			
Total alkalinity			
<i>Permanganate number</i>	<i>7.2</i>		
<i>Sodium Bicarbonate</i> NaHCO_3	<i>0</i>		

Date of sampling	<i>22.10.81</i>
Date of analysis	<i>09.11.81</i>
Remarks	<i>Clear and colourless, with a little precipitate</i>
	<i>Sample taken during pump testing</i>
	<i>Analysed by D.G.T</i>

CHEMICAL ANALYSIS FORM

Region: <i>Iringa</i>	District: <i>Iringa</i>	Village: <i>Ipomba</i>	BH no <i>31/E</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>1020</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>355</i>		<i>5,82</i>
Sulphate SO_4^{--}	<i>125</i>		<i>2,60</i>
Chloride Cl^-	<i>92</i>		<i>2,59</i>
Flouride F^-	<i>0,3</i>		<i>0,02</i>
Nitrate NO_3^-	<i>4,0</i>		<i>0,06</i>
Nitrite NO_2^-	<i>0,04</i>		<i>0,02</i>
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>130</i>	<i>6,50</i>	<i>11,09</i>
Magnesium Mg^{++}	<i>14</i>	<i>1,15</i>	
Iron Fe^{++}	<i>2,5</i>	<i>0,09</i>	
Manganese Mn^{++}	<i>0,06</i>	<i>0,00</i>	
Ammonium NH_4^+	<i>0</i>	<i>0</i>	
Sodium Na^+	<i>25</i>	<i>3,26</i>	
Potassium K^+			
Silica SiO_2		<i>11,00</i>	
pH value	<i>7,6</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>382</i>		
Hardness Temporary CaCO_3	<i>291</i>		
Hardness Permanent CaCO_3	<i>91</i>		
Conductivity 25 °C mikro S/cm	<i>1800</i>		
Temperature °C			
Total alkalinity	<i>291</i>		

Date of sampling	<i>02.03.81</i>
Date of analysis	<i>09.03.81</i>
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Jiranga</i>	District: <i>Mufindi</i>	Village: <i>Ndolezi</i>	BH no <i>55/81</i>
			CCKK no <i>251</i>

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids (incl. precipitate)	<i>718</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>29</i>		<i>0,48</i>
Sulphate SO_4^{--}	<i>9</i>		<i>0,20</i>
Chloride Cl^-	<i><1</i>		<i><0,03</i>
Flouride F^-	<i><0,1</i>		<i>0,01</i>
Nitrate NO_3^-	<i><0,01</i>		<i>0,00</i>
Nitrite NO_2^-	<i>0,03</i>		<i>0,00</i>
Phosphate PO_4^{--}	<i>0,02</i>		<i>0,00</i>
Calcium Ca^{++}	<i><2</i>		<i>0,22</i>
Magnesium Mg^{++}	<i>3</i>	<i>0,25</i>	
Iron Fe^{++}	<i>0,61</i>	<i>0,02</i>	
Manganese Mn^{++}	<i>0,16</i>	<i>0,01</i>	
Ammonium NH_4^+	<i>0,25</i>	<i>0,01</i>	
Sodium Na^+	<i>2,9</i>	<i>0,13</i>	
Potassium K^+	<i>9,3</i>	<i>0,24</i>	
Silica SiO_2	<i>4,3</i>	<i>0,66</i>	
pH value	<i>6,73</i>		
Carbon dioxide, free CO_2	<i>39</i>		
Carbon dioxide, aggressive CO_2	<i>51</i>		
Hardness Total CaCO_3	<i>0,9</i>		
Hardness Temporary CaCO_3	<i>0,9</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>26</i>		
Temperature °C			
Total alkalinity			
<i>Sodium bicarbonate</i> NaHCO_3	<i>15</i>		
<i>Permanganate, number</i>	<i>1,5</i>		

Date of sampling	<i>26.10.81</i>
Date of analysis	<i>09.11.81</i>
Remarks	<i>Turbid, greyish with a precipitate</i>
	<i>Sample taken during pump testing</i>
	<i>Analysed by DGT</i>

CHEMICAL ANALYSIS FORM

Region: <i>Ziriga</i>	District: <i>Mufindi</i>	Village: <i>Ndolezi</i>	BH no <i>56/81</i>
			CCKR no <i>IS 2</i>

CONSTITUENT	mg/l	meq/l	
		Cations	Anions
Total dissolved solids	<i>66</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>61</i>		<i>1.70</i>
Sulphate SO_4^{--}	<i>5</i>		<i>0.10</i>
Chloride Cl^-	<i>20</i>		<i>0.56</i>
Flouride F^-	<i>0.8</i>		<i>0.04</i>
Nitrate NO_3^-	<i>0</i>		<i>0</i>
Nitrite NO_2^-	<i>0</i>		<i>0</i>
Phosphate PO_4^{--}			
Calcium Ca^{++}	<i>14</i>	<i>0.70</i>	<i>1.72</i>
Magnesium Mg^{++}	<i>8.4</i>	<i>0.70</i>	
Iron Fe^{++}	<i>0</i>	<i>0</i>	
Manganese Mn^{++}	<i>0</i>	<i>0</i>	
Ammonium NH_4^+	<i>0</i>	<i>0</i>	
Sodium Na^+	<i>9.2</i>	<i>0.40</i>	
Potassium K^+			
Silica SiO_2		<i>1.80</i>	
pH value	<i>7.3</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>70</i>		
Hardness Temporary CaCO_3	<i>50</i>		
Hardness Permanent CaCO_3	<i>20</i>		
Conductivity 25 °C mikro S/cm	<i>110</i>		
Temperature °C			
Total alkalinity	<i>50</i>		

Date of sampling	<i>28.10.81</i>
Date of analysis	<i>16.11.81</i>
Remarks	<i>Sample taken during pump testing</i>

CHEMICAL ANALYSIS FORM

Region: <i>Fringa</i>	District: <i>Fringa</i>	Village: <i>Idodi</i>	BH no <i>178/81</i>
			CCKK no <i>25 11</i>

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	420		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	361		5.92
Sulphate SO_4^{--}	23		0.42
Chloride Cl^-	31		0.82
Flouride F^-	46		0.24
Nitrate NO_3^-	0		0
Nitrite NO_2^-	0		0
Phosphate PO_4^{--}			
Calcium Ca^{++}	52	2.60	7.51
Magnesium Mg^{++}	20	1.65	
Iron Fe^{++}	0	0	
Manganese Mn^{++}	0	0	
Ammonium NH_4^+	0	0	
Sodium Na^+	70	3.04	
Potassium K^+			
Silica SiO_2		7.29	
pH value	7.4		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	213		
Hardness Temporary CaCO_3	213		
Hardness Permanent CaCO_3	0		
Conductivity 25 °C mikro S/cm	700		
Temperature °C			
Total alkalinity	296		

Date of sampling	23.10.81
Date of analysis	16.11.81
Remarks	<i>Sample taken during pump testing</i>

CHEMICAL ANALYSIS FORM

Region: <i>Jruga</i>	District: <i>Jruga</i>	Village: <i>Mapogoro</i>	BH no <i>181/81</i>
			CCKR no <i>25 14</i>

CONSTITUENT	mg/l	meq/l	
		Cations	Anions
Total dissolved solids	<i>600</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>651</i>		<i>10.67</i>
Sulphate SO_4^{--}	<i>32</i>		<i>0.67</i>
Chloride Cl^-	<i>65</i>		<i>1.83</i>
Flouride F^-	<i>3.8</i>		<i>2.20</i>
Nitrate NO_3^-	<i>0.22</i>		<i>2.22</i>
Nitrite NO_2^-	<i>0</i>		<i>0</i>
Phosphate PO_4^{--}			
Calcium Ca^{++}	<i>15</i>	<i>0.25</i>	<i>13.37</i>
Magnesium Mg^{++}	<i>21</i>	<i>1.23</i>	
Iron Fe^{++}	<i>0</i>	<i>0</i>	
Manganese Mn^{++}	<i>3.5</i>	<i>0.13</i>	
Ammonium NH_4^+	<i>0</i>		
Sodium Na^+	<i>250</i>	<i>10.87</i>	
Potassium K^+			
Silica SiO_2		<i>13.48</i>	
pH value	<i>8.1</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>126</i>		
Hardness Temporary CaCO_3	<i>126</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>1000</i>		
Temperature °C			
Total alkalinity	<i>534</i>		

Date of sampling	<i>20.10.81</i>
Date of analysis	<i>19.11.81</i>
Remarks	<i>Sample taken during pump testing</i>

CHEMICAL ANALYSIS FORM

Region: <i>Iringa</i>	District: <i>Iringa</i>	Village: <i>Nduli (Grock farm)</i>	BH no
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>384</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>425</i>		<i>6,92</i>
Sulphate SO_4^{--}	<i>0</i>		<i>0</i>
Chloride Cl^-	<i>24</i>		<i>0,68</i>
Flouride F^-	<i>0,7</i>		<i>0,04</i>
Nitrate NO_3^-	<i>0</i>		<i>0</i>
Nitrite NO_2^-	<i>0</i>		<i>0</i>
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>93,6</i>	<i>4,68</i>	<i>7,79</i>
Magnesium Mg^{++}	<i>13,4</i>	<i>1,10</i>	
Iron Fe^{++}	<i>0</i>	<i>0</i>	
Manganese Mn^{++}	<i>0</i>	<i>0</i>	
Ammonium NH_4^+	<i>0</i>	<i>0</i>	
Sodium Na^+	<i>39</i>	<i>1,70</i>	
Potassium K^+			
Silica SiO_2		<i>2,48</i>	
pH value	<i>8,9</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>290</i>		
Hardness Temporary CaCO_3	<i>290</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>640</i>		
Temperature °C			
Total alkalinity	<i>349</i>		

Date of sampling	<i>12.08.80</i>
Date of analysis	<i>13.08.80</i>
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Ruvuma</i>	District: <i>Songea</i>	Village: <i>Songea</i>	BH no <i>12/2</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>170</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-			
Sulphate SO_4^{--}			
Chloride Cl^-			
Flouride F^-			
Nitrate NO_3^-			
Nitrite NO_2^-			
Phosphate PO_4^{---}			
Calcium Ca^{++}			
Magnesium Mg^{++}			
Iron Fe^{++}			
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+			
Potassium K^+			
Silica SiO_2			
pH value			
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3			
Hardness Temporary CaCO_3			
Hardness Permanent CaCO_3			
Conductivity 25 °C mikro S/cm			
Temperature °C			
Total alkalinity			

Date of sampling	
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Ruvuma</i>	District: <i>Songea</i>	Village: <i>Likonde</i>	BH no <i>17/50</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>582</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-			
Sulphate SO_4^{--}			
Chloride Cl^-	<i>20</i>		<i>0,56</i>
Flouride F^-			
Nitrate NO_3^-			
Nitrite NO_2^-			
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>18</i>	<i>0,90</i>	<i>0,56</i>
Magnesium Mg^{++}	<i>0</i>	<i>0</i>	
Iron Fe^{++}			
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+			
Potassium K^+			
Silica SiO_2		<i>0,90</i>	
pH value			
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3			
Hardness Temporary CaCO_3			
Hardness Permanent CaCO_3			
Conductivity 25 °C mikro S/cm			
Temperature °C			
Total alkalinity			

Date of sampling	
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Ruvuma</i>	District: <i>Songea</i>	Village: <i>Likonga</i>	BH no <i>24/50</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>600</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-			
Sulphate SO_4^{--}			
Chloride Cl^-	<i>20</i>		<i>7,56</i>
Flouride F^-			
Nitrate NO_3^-			
Nitrite NO_2^-			
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>60</i>	<i>3,00</i>	<i>0,56</i>
Magnesium Mg^{++}	<i>0</i>	<i>0</i>	
Iron Fe^{++}			
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+			
Potassium K^+			
Silica SiO_2		<i>3,00</i>	
pH value			
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3			
Hardness Temporary CaCO_3			
Hardness Permanent CaCO_3			
Conductivity 25 °C mikro S/cm			
Temperature °C			
Total alkalinity			

Date of sampling	
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Ruvuma</i>	District: <i>Tunduru</i>	Village: <i>Frelimo Camp</i>	BH no <i>207/23</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	230		
Carbonate CO_3^{--}	0		0
Bicarbonate HCO_3^-	166,8		2,72
Sulphate SO_4^{--}	14,0		0,29
Chloride Cl^-	8,8		0,25
Flouride F^-	1,3		0,07
Nitrate NO_3^-	0,33		0,01
Nitrite NO_2^-			
Phosphate PO_4^{---}			
Calcium Ca^{++}	4,2	0,21	3,34
Magnesium Mg^{++}	1,0	0,08	
Iron Fe^{++}	0,86	0,03	
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+	64,4	2,87	
Potassium K^+			
Silica SiO_2		3,12	
pH value	8,2		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3			
Hardness Temporary CaCO_3			
Hardness Permanent CaCO_3			
Conductivity 25 °C mikro S/cm	340		
Temperature °C			
Total alkalinity			

Date of sampling	
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Ruvuma</i>	District: <i>Tunduru</i>	Village: <i>Frelimo Camp</i>	BH no <i>207/23</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions ⁻
Total dissolved solids	<i>210</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>190</i>		<i>3,12</i>
Sulphate SO_4^{--}	<i>0</i>		<i>0</i>
Chloride Cl^-	<i>4</i>		<i>2,11</i>
Flouride F^-	<i>0,9</i>		<i>0,25</i>
Nitrate NO_3^-	<i>0</i>		<i>0</i>
Nitrite NO_2^-	<i>0</i>		<i>0</i>
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>5,2</i>	<i>0,26</i>	<i>3,22</i>
Magnesium Mg^{++}			
Iron Fe^{++}	<i>0,4</i>	<i>0,01</i>	
Manganese Mn^{++}	<i>2</i>	<i>0</i>	
Ammonium NH_4^+	<i>0</i>	<i>0</i>	
Sodium Na^+	<i>66</i>	<i>2,86</i>	
Potassium K^+			
Silica SiO_2		<i>3,12</i>	
pH value	<i>6,8</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>14</i>		
Hardness Temporary CaCO_3	<i>14</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>350</i>		
Temperature °C			
Total alkalinity	<i>156</i>		

Date of sampling	<i>10.02.81</i>
Date of analysis	<i>13.02.81</i>
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Piyuma</i>	District: <i>Songea</i>	Village: <i>Hanga Piret</i>	BH no <i>253/81</i>
			CCKK no <i>PV1</i>

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids			
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-			
Sulphate SO_4^{--}			
Chloride Cl^-			
Flouride F^-			
Nitrate NO_3^-			
Nitrite NO_2^-			
Phosphate PO_4^{----}			
Calcium Ca^{++}			
Magnesium Mg^{++}			
Iron Fe^{++}			
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+			
Potassium K^+			
Silica SiO_2			
pH value			
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3			
Hardness Temporary CaCO_3			
Hardness Permanent CaCO_3			
Conductivity 25 °C mikro S/cm		<i>340</i>	
Temperature °C			
Total alkalinity			

Date of sampling	
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Ruvuma</i>	District: <i>Songea</i>	Village: <i>Gumbiro</i>	BH no <i>254/81</i>
			CCKK no <i>RD2</i>

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids			
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-			
Sulphate SO_4^{--}			
Chloride Cl^-			
Flouride F^-			
Nitrate NO_3^-			
Nitrite NO_2^-			
Phosphate PO_4^{--}			
Calcium Ca^{++}			
Magnesium Mg^{++}			
Iron Fe^{++}			
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+			
Potassium K^+			
Silica SiO_2			
pH value			
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3			
Hardness Temporary CaCO_3			
Hardness Permanent CaCO_3			
Conductivity 25 °C mikro S/cm	<i>1100</i>		
Temperature °C			
Total alkalinity			

Date of sampling	
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Kuvuma</i>	District: <i>Songea</i>	Village: <i>Melukano</i>	BH no <i>255/81</i>
			CCKK no <i>RD 3</i>

CONSTITUENT	mg/l	meq/l	
		Kations	Anions ⁻
Total dissolved solids			
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-			
Sulphate SO_4^{--}			
Chloride Cl^-	<i>2</i>		<i>0,06</i>
Flouride F^-			
Nitrate NO_3^-			
Nitrite NO_2^-	<i>0</i>		<i>0</i>
Phosphate PO_4^{----}			
Calcium Ca^{++}			
Magnesium Mg^{++}			
Iron Fe^{++}			
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+			
Potassium K^+			
Silica SiO_2			
pH value	<i>5,0</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3			
Hardness Temporary CaCO_3			
Hardness Permanent CaCO_3			
Conductivity 25 °C mikro S/cm	<i>30</i>		
Temperature °C			
Total alkalinity	<i>600</i>		
<i>Permanganate, number</i>	<i>2,2</i>		

Date of sampling	<i>07.11.81</i>
Date of analysis	<i>16.11.81</i>
Remarks <i>Turbid and coloured water.</i>	

CHEMICAL ANALYSIS FORM

Region: <i>Ruvuma</i>	District: <i>Tunduru</i>	Village: <i>Ndenyende</i>	BH no <i>256/81</i>
			CCKK no <i>RD4</i>

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>329</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>273</i>		<i>448</i>
Sulphate SO_4^{--}	<i><5</i>		<i><0,10</i>
Chloride Cl^-	<i>24</i>		<i>0,68</i>
Flouride F^-	<i>0,3</i>		<i>0,02</i>
Nitrate NO_3^-	<i>0,03</i>		<i>0,00</i>
Nitrite NO_2^-	<i><0,01</i>		<i>0,00</i>
Phosphate PO_4^{---}	<i>0,26</i>		<i>0,01</i>
Calcium Ca^{++}	<i>61</i>	<i>3,05</i>	<i>5,29</i>
Magnesium Mg^{++}	<i>12</i>	<i>0,99</i>	
Iron Fe^{++}	<i>0,11</i>	<i>0,00</i>	
Manganese Mn^{++}	<i>0,046</i>	<i>0,00</i>	
Ammonium NH_4^+	<i>0,02</i>	<i>0,00</i>	
Sodium Na^+	<i>29</i>	<i>1,26</i>	
Potassium K^+	<i>5,8</i>	<i>0,15</i>	
Silica SiO_2	<i>61</i>	<i>5,45</i>	
pH value	<i>6,68</i>		
Carbon dioxide, free CO_2	<i>57</i>		
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>11,4</i>		
Hardness Temporary CaCO_3	<i>11,4</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>469</i>		
Temperature °C			
Total alkalinity			
<i>Sodium bicarbonate</i> NaHCO_3	<i>34</i>		
<i>Permanganate, number</i>	<i><0,1</i>		

Date of sampling	<i>12.11.81</i>
Date of analysis	<i>14.12.81</i>
Remarks <i>Clear and colourless</i>	
<i>Sample taken during pump testing</i>	
<i>Analysed by DGI</i>	

CHEMICAL ANALYSIS FORM

Region: <i>Ruvuma</i>	District: <i>Tunduru</i>	Village: <i>Nandembo</i>	BH no <i>258/81</i>
			CCKK no <i>RD6</i>

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>201</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>103</i>		<i>1,69</i>
Sulphate SO_4^{--}	<i><5</i>		<i><0,10</i>
Chloride Cl^-	<i>12</i>		<i>0,34</i>
Flouride F^-	<i><0,1</i>		<i><0,01</i>
Nitrate NO_3^-	<i>0,85</i>		<i>0,01</i>
Nitrite NO_2^-	<i>0,018</i>		<i>0,02</i>
Phosphate PO_4^{---}	<i>0,69</i>		<i>0,02</i>
Calcium Ca^{++}	<i>17</i>	<i>0,85</i>	<i>2,17</i>
Magnesium Mg^{++}	<i>4</i>	<i>0,32</i>	
Iron Fe^{++}	<i><0,01</i>	<i>0,00</i>	
Manganese Mn^{++}	<i>0,01</i>	<i>0,01</i>	
Ammonium NH_4^+	<i>0,04</i>	<i>0,00</i>	
Sodium Na^+	<i>26</i>	<i>1,12</i>	
Potassium K^+	<i>56</i>	<i>0,14</i>	
Silica SiO_2	<i>67</i>	<i>2,44</i>	
pH value	<i>6,48</i>		
Carbon dioxide, free CO_2	<i>41</i>		
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>3,3</i>		
Hardness Temporary CaCO_3	<i>3,3</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>200</i>		
Temperature °C			
Total alkalinity			
<i>Sodium bicarbonate</i> NaHCO_3	<i>45</i>		
<i>Permanganate, number</i>	<i><0,1</i>		

Date of sampling	<i>12.11.81</i>
Date of analysis	<i>14.12.81</i>
Remarks	<i>A little turbid, colourless.</i>
	<i>Sample taken during drilling.</i>
	<i>Analysed by D.G.I.</i>

CHEMICAL ANALYSIS FORM

Region: <i>Ruvuma</i>	District: <i>Tunduru</i>	Village: <i>Namiungo Mts.</i>	BH no <i>262/81</i>
			CCKK no <i>RD10</i>

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>347</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>185</i>		<i>3,03</i>
Sulphate SO_4^{--}	<i><5</i>		<i><0,10</i>
Chloride Cl^-	<i>35</i>		<i>0,99</i>
Flouride F^-	<i>0,34</i>		<i>0,02</i>
Nitrate NO_3^-	<i>0,31</i>		<i>0,01</i>
Nitrite NO_2^-	<i><0,01</i>		<i>0,00</i>
Phosphate PO_4^{--}	<i>0,57</i>		<i>0,02</i>
Calcium Ca^{++}	<i>43</i>	<i>2,15</i>	<i>4,17</i>
Magnesium Mg^{++}	<i>11</i>	<i>0,90</i>	
Iron Fe^{++}	<i><0,01</i>	<i>0,00</i>	
Manganese Mn^{++}	<i>0,021</i>	<i>0,00</i>	
Ammonium NH_4^+	<i>0,03</i>	<i>0,00</i>	
Sodium Na^+	<i>29</i>	<i>1,26</i>	
Potassium K^+	<i>5,8</i>	<i>2,15</i>	
Silica SiO_2	<i>76</i>	<i>4,46</i>	
pH value	<i>6,66</i>		
Carbon dioxide, free CO_2	<i>41</i>		
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>8,6</i>		
Hardness Temporary CaCO_3	<i>8,5</i>		
Hardness Permanent CaCO_3	<i>0,1</i>		
Conductivity 25 °C mikro S/cm	<i>378</i>		
Temperature °C			
Total alkalinity			
<i>Sodium bicarbonate</i> NaHCO_3	<i>0</i>		
<i>Permanganate, number</i>	<i><0,1</i>		

Date of sampling	<i>20.11.81</i>
Date of analysis	<i>14.12.81</i>
Remarks	<i>Colourless, a little turbid</i>
	<i>Sample taken during drilling.</i>
	<i>Analysed by DGI</i>

CHEMICAL ANALYSIS FORM

Region: <i>Ruvuma</i>	District: <i>Tunduru</i>	Village: <i>Majimaji</i>	BH no <i>263/81</i>
			CCKK no <i>RD II</i>

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	388		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	236		3,24
Sulphate SO_4^{--}	<5		2,10
Chloride Cl^-	15		0,42
Flouride F^-	0,23		0,01
Nitrate NO_3^-	<0,01		0,00
Nitrite NO_2^-	<0,01		0,00
Phosphate PO_4^{---}	<0,01		0,00
Calcium Ca^{++}	34	1,70	4,40
Magnesium Mg^{++}	20	1,64	
Iron Fe^{++}	0,053	0,00	
Manganese Mn^{++}	0,25	0,01	
Ammonium NH_4^+	<0,01	0,00	
Sodium Na^+	29	1,26	
Potassium K^+	4,7	0,12	
Silica SiO_2	25	4,20	
pH value	6,73		
Carbon dioxide, free CO_2	44		
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	9,4		
Hardness Temporary CaCO_3	9,4		
Hardness Permanent CaCO_3	0		
Conductivity 25 °C mikro S/cm	384		
Temperature °C			
Total alkalinity			
<i>Sodium bicarbonate</i> NaHCO_3	44		
<i>Permanganate, number</i>	0,6		

Date of sampling	21.11.81
Date of analysis	14.12.81
Remarks	<i>Colourless and a little turbid</i>
	<i>Sample taken during drilling</i>
	<i>Analysed by DGT</i>

MBEYA

CHEMICAL ANALYSIS FORM

Region: <i>Moga</i>	District: <i>Chhara</i>	Village: <i>Chhara</i>	BH no <i>5/36</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>629</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-			
Sulphate SO_4^{--}			
Chloride Cl^-			
Flouride F^-			
Nitrate NO_3^-			
Nitrite NO_2^-			
Phosphate PO_4^{--}			
Calcium Ca^{++}			
Magnesium Mg^{++}			
Iron Fe^{++}			
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+			
Potassium K^+			
Silica SiO_2			
pH value			
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3			
Hardness Temporary CaCO_3			
Hardness Permanent CaCO_3			
Conductivity 25 °C mikro S/cm			
Temperature °C			
Total alkalinity			

Date of sampling	
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Chunya</i>	Village: <i>Makongolosi</i>	BH no <i>8/36</i>
			CCKK no

CONSTITUENT	mg/l	meg/l	
		Kations	Anions
Total dissolved solids	<i>370</i>		
Carbonate CO_3^{--}	<i>202</i>		<i>6,90</i>
Bicarbonate HCO_3^-			
Sulphate SO_4^{--}			
Chloride Cl^-	<i>14,2</i>		<i>0,40</i>
Flouride F^-	<i>4,2</i>		<i>0,21</i>
Nitrate NO_3^-	<i>0</i>		<i>0</i>
Nitrite NO_2^-			
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>23,2</i>	<i>1,19</i>	<i>7,51</i>
Magnesium Mg^{++}	<i>17,5</i>	<i>1,44</i>	
Iron Fe^{++}	<i>0,42</i>	<i>0,02</i>	
Manganese Mn^{++}	<i>0</i>	<i>0</i>	
Ammonium NH_4^+			
Sodium Na^+	<i>115</i>	<i>5,00</i>	
Potassium K^+	<i>1,9</i>	<i>0,05</i>	
Silica SiO_2		<i>7,70</i>	
pH value	<i>7,5</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>131</i>		
Hardness Temporary CaCO_3	<i>131</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>600</i>		
Temperature °C			
Total alkalinity	<i>340</i>		

Date of sampling	<i>29.12.71</i>
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Mbevo</i>	District: <i>Chunya</i>	Village: <i>Makongolasi</i>	BH no <i>8/36</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>620</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>534</i>		<i>8,25</i>
Sulphate SO_4^{--}	<i>0</i>		<i>0</i>
Chloride Cl^-	<i>13,4</i>		<i>0,37</i>
Flouride F^-	<i>10</i>		<i>0,53</i>
Nitrate NO_3^-	<i>Trace</i>		
Nitrite NO_2^-			
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>38,6</i>	<i>1,93</i>	<i>9,65</i>
Magnesium Mg^{++}	<i>22,4</i>	<i>1,84</i>	
Iron Fe^{++}	<i>0,01</i>	<i>0,00</i>	
Manganese Mn^{++}	<i>0</i>	<i>0</i>	
Ammonium NH_4^+			
Sodium Na^+	<i>115</i>	<i>5,00</i>	
Potassium K^+	<i>2,1</i>	<i>0,05</i>	
Silica SiO_2		<i>8,82</i>	
pH value	<i>8,5</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>178,3</i>		
Hardness Temporary CaCO_3	<i>178,3</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>270</i>		
Temperature °C			
Total alkalinity	<i>438</i>		

Date of sampling	<i>10.07.21</i>
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Mboya</i>	District: <i>Chunya</i>	Village: <i>Chunya</i>	BH no <i>9/22</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>543</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-			
Sulphate SO_4^{--}			
Chloride Cl^-			
Flouride F^-			
Nitrate NO_3^-			
Nitrite NO_2^-			
Phosphate PO_4^{--}			
Calcium Ca^{++}			
Magnesium Mg^{++}			
Iron Fe^{++}			
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+			
Potassium K^+			
Silica SiO_2			
pH value			
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3			
Hardness Temporary CaCO_3			
Hardness Permanent CaCO_3			
Conductivity 25 °C mikro S/cm			
Temperature °C			
Total alkalinity			

Date of sampling	
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Mbevo</i>	District: <i>Chunya</i>	Village: <i>Kunguta's</i>	BH no <i>13/27</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>730</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-			
Sulphate SO_4^{--}			
Chloride Cl^-			
Flouride F^-			
Nitrate NO_3^-			
Nitrite NO_2^-			
Phosphate PO_4^{--}			
Calcium Ca^{++}			
Magnesium Mg^{++}			
Iron Fe^{++}			
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+			
Potassium K^+			
Silica SiO_2			
pH value			
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3			
Hardness Temporary CaCO_3			
Hardness Permanent CaCO_3			
Conductivity 25 °C mikro S/cm			
Temperature °C			
Total alkalinity			

Date of sampling	
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Chunya</i>	Village: <i>Ntumbi</i>	BH no <i>2/40</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>870</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-			
Sulphate SO_4^{--}			
Chloride Cl^-			
Flouride F^-			
Nitrate NO_3^-			
Nitrite NO_2^-			
Phosphate PO_4^{---}			
Calcium Ca^{++}			
Magnesium Mg^{++}			
Iron Fe^{++}			
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+			
Potassium K^+			
Silica SiO_2			
pH value			
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3			
Hardness Temporary CaCO_3			
Hardness Permanent CaCO_3			
Conductivity 25 °C mikro S/cm			
Temperature °C			
Total alkalinity			

Date of sampling	
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Mbeya</i>	Village: <i>Aerodrome</i>	BH no <i>3/40</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>143</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-			
Sulphate SO_4^{--}			
Chloride Cl^-			
Flouride F^-			
Nitrate NO_3^-			
Nitrite NO_2^-			
Phosphate PO_4^{---}			
Calcium Ca^{++}			
Magnesium Mg^{++}			
Iron Fe^{++}			
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+			
Potassium K^+			
Silica SiO_2			
pH value			
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3			
Hardness Temporary CaCO_3			
Hardness Permanent CaCO_3			
Conductivity 25 °C mikro S/cm			
Temperature °C			
Total alkalinity			

Date of sampling	
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Chunya</i>	Village: <i>Ntumbi</i>	BH no <i>4/40</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>442</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-			
Sulphate SO_4^{--}			
Chloride Cl^-			
Flouride F^-			
Nitrate NO_3^-			
Nitrite NO_2^-			
Phosphate PO_4^{---}			
Calcium Ca^{++}			
Magnesium Mg^{++}			
Iron Fe^{++}			
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+			
Potassium K^+			
Silica SiO_2			
pH value			
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3			
Hardness Temporary CaCO_3			
Hardness Permanent CaCO_3			
Conductivity 25 °C mikro S/cm			
Temperature °C			
Total alkalinity			

Date of sampling	
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>M.P.</i>	District: <i>Churua</i>	Village: <i>Ntunidi</i>	BH no <i>1/41</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>400</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-			
Sulphate SO_4^{--}			
Chloride Cl^-			
Flouride F^-			
Nitrate NO_3^-			
Nitrite NO_2^-			
Phosphate PO_4^{---}			
Calcium Ca^{++}			
Magnesium Mg^{++}			
Iron Fe^{++}			
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+			
Potassium K^+			
Silica SiO_2			
pH value			
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3			
Hardness Temporary CaCO_3			
Hardness Permanent CaCO_3			
Conductivity 25 °C mikro S/cm			
Temperature °C			
Total alkalinity			

Date of sampling	
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Mozambique</i>	District: <i>Mozzi</i>	Village: <i>Ivuna</i>	BH no <i>18/52</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>4057</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-			
Sulphate SO_4^{--}			
Chloride Cl^-			
Flouride F^-			
Nitrate NO_3^-			
Nitrite NO_2^-			
Phosphate PO_4^{---}			
Calcium Ca^{++}			
Magnesium Mg^{++}			
Iron Fe^{++}			
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+			
Potassium K^+			
Silica SiO_2			
pH value			
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3			
Hardness Temporary CaCO_3			
Hardness Permanent CaCO_3			
Conductivity 25 °C mikro S/cm			
Temperature °C			
Total alkalinity			

Date of sampling	
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Mozzi</i>	District: <i>Mlozi</i>	Village: <i>Ivungu</i>	BH no <i>27/52</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>~ 4000</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-			
Sulphate SO_4^{--}			
Chloride Cl^-			
Flouride F^-			
Nitrate NO_3^-			
Nitrite NO_2^-			
Phosphate PO_4^{--}			
Calcium Ca^{++}			
Magnesium Mg^{++}			
Iron Fe^{++}			
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+			
Potassium K^+			
Silica SiO_2			
pH value			
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3			
Hardness Temporary CaCO_3			
Hardness Permanent CaCO_3			
Conductivity 25 °C mikro S/cm			
Temperature °C			
Total alkalinity			

Date of sampling	
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Mbozi</i>	Village: <i>Mbinba</i>	BH no <i>42/55</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>244</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>197</i>		<i>3.22</i>
Sulphate SO_4^{--}	<i>38</i>		<i>0.80</i>
Chloride Cl^-	<i>Trace</i>		
Flouride F^-	<i>1.0</i>		<i>0.05</i>
Nitrate NO_3^-			
Nitrite NO_2^-			
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>24</i>	<i>1.20</i>	<i>4.08</i>
Magnesium Mg^{++}	<i>7</i>	<i>0.56</i>	
Iron Fe^{++}			
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+	<i>50.6</i>	<i>2.20</i>	
Potassium K^+			
Silica SiO_2		<i>3.96</i>	
pH value	<i>7.5</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3			
Hardness Temporary CaCO_3			
Hardness Permanent CaCO_3			
Conductivity 25 °C mikro S/cm			
Temperature °C			
Total alkalinity			

Date of sampling	
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Chunya</i>	Village: <i>Chunya</i>	BH no <i>42/52</i>
			CCKK no

CONSTITUENT	mg/l	meg/l	
		Kations	Anions
Total dissolved solids	<i>476</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>512</i>		<i>8,39</i>
Sulphate SO_4^{--}			
Chloride Cl^-	<i>18</i>		<i>0,51</i>
Flouride F^-	<i>1</i>		<i>0,05</i>
Nitrate NO_3^-			
Nitrite NO_2^-			
Phosphate PO_4^{--}			
Calcium Ca^{++}	<i>73</i>	<i>3,65</i>	<i>2,95</i>
Magnesium Mg^{++}	<i>41</i>	<i>3,37</i>	
Iron Fe^{++}			
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+	<i>42</i>	<i>1,83</i>	
Potassium K^+			
Silica SiO_2		<i>8,25</i>	
pH value	<i>7,5</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3			
Hardness Temporary CaCO_3			
Hardness Permanent CaCO_3			
Conductivity 25 °C mikro S/cm			
Temperature °C			
Total alkalinity			

Date of sampling	
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Mteya</i>	District: <i>Mbozi</i>	Village: <i>Tundvina</i>	BH no <i>6/58</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>220</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>250</i>		<i>1.15</i>
Sulphate SO_4^{--}			
Chloride Cl^-	<i>4</i>		<i>0.11</i>
Flouride F^-	<i>0.4</i>		<i>0.02</i>
Nitrate NO_3^-			
Nitrite NO_2^-			
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>47</i>	<i>2.35</i>	<i>4.23</i>
Magnesium Mg^{++}	<i>20</i>	<i>1.64</i>	
Iron Fe^{++}			
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+	<i>25.4</i>	<i>1.15</i>	
Potassium K^+			
Silica SiO_2		<i>5.14</i>	
pH value	<i>7.5</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3			
Hardness Temporary CaCO_3			
Hardness Permanent CaCO_3			
Conductivity 25 °C mikro S/cm			
Temperature °C			
Total alkalinity			

Date of sampling	
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Kyela</i>	Village: <i>Kyela</i>	BH no <i>8/58</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>570</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>488</i>		<i>2,00</i>
Sulphate SO_4^{--}			
Chloride Cl^-	<i>30</i>		<i>0,03</i>
Flouride F^-	<i>1</i>		<i>0,25</i>
Nitrate NO_3^-			
Nitrite NO_2^-			
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>13</i>	<i>0,65</i>	<i>8,13</i>
Magnesium Mg^{++}	<i>7</i>	<i>2,52</i>	
Iron Fe^{++}			
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+	<i>151</i>	<i>6,56</i>	
Potassium K^+			
Silica SiO_2		<i>7,79</i>	
pH value	<i>7,5</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3			
Hardness Temporary CaCO_3			
Hardness Permanent CaCO_3			
Conductivity 25 °C mikro S/cm			
Temperature °C			
Total alkalinity			

Date of sampling	
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Kyela</i>	Village: <i>Kyela</i>	BH no <i>13/58</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>110</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>85</i>		<i>1.30</i>
Sulphate SO_4^{--}	<i>0</i>		<i>0</i>
Chloride Cl^-	<i>7</i>		<i>0.20</i>
Flouride F^-	<i>0.4</i>		<i>0.02</i>
Nitrate NO_3^-			
Nitrite NO_2^-			
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>4</i>	<i>0.20</i>	<i>1.61</i>
Magnesium Mg^{++}	<i>3</i>	<i>0.25</i>	
Iron Fe^{++}			
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+	<i>28</i>	<i>1.22</i>	
Potassium K^+			
Silica SiO_2		<i>1.67</i>	
pH value	<i>6.0</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3			
Hardness Temporary CaCO_3			
Hardness Permanent CaCO_3			
Conductivity 25 °C mikro S/cm			
Temperature °C			
Total alkalinity			

Date of sampling	
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Kyela</i>	Village: <i>Kyela</i>	BH no <i>13/58</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>120</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>116</i>		<i>1,90</i>
Sulphate SO_4^{--}	<i>0</i>		<i>0</i>
Chloride Cl^-	<i>4</i>		<i>0,11</i>
Flouride F^-	<i>1</i>		<i>0,05</i>
Nitrate NO_3^-			
Nitrite NO_2^-			
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>11</i>	<i>0,55</i>	<i>2,06</i>
Magnesium Mg^{++}	<i>0</i>	<i>0</i>	
Iron Fe^{++}			
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+	<i>27</i>	<i>1,17</i>	
Potassium K^+	<i>11</i>	<i>0,28</i>	
Silica SiO_2		<i>2,00</i>	
pH value	<i>7,0</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3			
Hardness Temporary CaCO_3			
Hardness Permanent CaCO_3			
Conductivity 25 °C mikro S/cm			
Temperature °C			
Total alkalinity			

Date of sampling	
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Muz</i>	District: <i>Thay</i>	Village: <i>Panda Hill</i>	BH no <i>22/59</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>690</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>770</i>		<i>12,62</i>
Sulphate SO_4^{--}	<i>0</i>		<i>0</i>
Chloride Cl^-	<i>25</i>		<i>0,71</i>
Flouride F^-	<i>1</i>		<i>0,05</i>
Nitrate NO_3^-			
Nitrite NO_2^-			
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>34</i>	<i>1,70</i>	<i>12,38</i>
Magnesium Mg^{++}	<i>22</i>	<i>1,01</i>	
Iron Fe^{++}			
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+	<i>225</i>	<i>9,78</i>	
Potassium K^+			
Silica SiO_2	<i>8</i>	<i>13,29</i>	
pH value	<i>8,0</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3			
Hardness Temporary CaCO_3			
Hardness Permanent CaCO_3			
Conductivity 25 °C mikro S/cm			
Temperature °C			
Total alkalinity			

Date of sampling	
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Chunya</i>	Village: <i>Ntumbi</i>	BH no <i>8/66</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>116</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>102</i>		<i>1,67</i>
Sulphate SO_4^{--}	<i>0</i>		<i>0</i>
Chloride Cl^-	<i>12</i>		<i>0,33</i>
Flouride F^-	<i>0,4</i>		<i>0,02</i>
Nitrate NO_3^-			
Nitrite NO_2^-			
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>6,4</i>	<i>0,32</i>	<i>2,02</i>
Magnesium Mg^{++}	<i>16,3</i>	<i>1,35</i>	
Iron Fe^{++}			
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+	<i>8,0</i>	<i>0,35</i>	
Potassium K^+			
Silica SiO_2		<i>2,02</i>	
pH value	<i>7,9</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>44</i>		
Hardness Temporary CaCO_3	<i>44</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>139</i>		
Temperature °C			
Total alkalinity	<i>84</i>		

Date of sampling	
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Chunya</i>	Village: <i>Mafyeko</i>	BH no <i>-170</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	95		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	88		1,44
Sulphate SO_4^{--}	0		0
Chloride Cl^-	13,4		0,38
Flouride F^-	0,49		0,03
Nitrate NO_3^-	0		0
Nitrite NO_2^-	0,002		0,00
Phosphate PO_4^{---}			
Calcium Ca^{++}	16	0,80	1,85
Magnesium Mg^{++}	4,8	0,40	
Iron Fe^{++}	4,9	0,18	
Manganese Mn^{++}	2,0	0,07	
Ammonium NH_4^+			
Sodium Na^+	8,3	0,36	
Potassium K^+	3,1	0,08	
Silica SiO_2		1,89	
pH value	6,2		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	60		
Hardness Temporary CaCO_3	60		
Hardness Permanent CaCO_3	0		
Conductivity 25 °C mikro S/cm	152		
Temperature °C			
Total alkalinity	72		

Date of sampling	13.06.70
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Mbozi</i>	Village: <i>Shikula</i>	BH no <i>-/71</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>400</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>98</i>		<i>1,60</i>
Sulphate SO_4^{--}	<i>214</i>		<i>4,46</i>
Chloride Cl^-	<i>5,6</i>		<i>0,16</i>
Flouride F^-	<i>1,8</i>		<i>0,24</i>
Nitrate NO_3^-	<i>0,08</i>		<i>0,02</i>
Nitrite NO_2^-	<i>0</i>		<i>0,00</i>
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>16,2</i>	<i>0,83</i>	<i>6,31</i>
Magnesium Mg^{++}	<i>2,8</i>	<i>0,23</i>	
Iron Fe^{++}	<i>0,68</i>	<i>0,02</i>	
Manganese Mn^{++}	<i>0,06</i>	<i>0,00</i>	
Ammonium NH_4^+			
Sodium Na^+	<i>81,6</i>	<i>3,71</i>	
Potassium K^+	<i>40,9</i>	<i>1,05</i>	
Silica SiO_2		<i>5,84</i>	
pH value	<i>6,6</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>53,2</i>		
Hardness Temporary CaCO_3	<i>53,2</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>510</i>		
Temperature °C			
Total alkalinity	<i>80</i>		

Date of sampling	<i>16.12.71</i>
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Chunya</i>	Village: <i>Uwinda</i>	BH no <i>2/71</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	580		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	456		7,28
Sulphate SO_4^{--}	29		0,60
Chloride Cl^-	19,8		0,55
Flouride F^-	1,14		0,06
Nitrate NO_3^-	Trace		
Nitrite NO_2^-			
Phosphate PO_4^{---}			
Calcium Ca^{++}	63,0	3,15	8,69
Magnesium Mg^{++}	14,8	1,22	
Iron Fe^{++}	0,07	0,07	
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+	70,1	3,05	
Potassium K^+	5,2	0,13	
Silica SiO_2		7,55	
pH value	7,9		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	218,1		
Hardness Temporary CaCO_3	218,1		
Hardness Permanent CaCO_3	0		
Conductivity 25 °C mikro S/cm	670		
Temperature °C			
Total alkalinity	374		

Date of sampling	23.06.71
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Chunya</i>	Village: <i>Udinde</i>	BH no <i>17/21</i>
			CCKK no

CONSTITUENT	mg/l	meg/l	
		Kations	Anions
Total dissolved solids	<i>290</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>270</i>		<i>1.42</i>
Sulphate SO_4^{--}	<i>8.2</i>		<i>0.17</i>
Chloride Cl^-	<i>5.2</i>		<i>0.16</i>
Flouride F^-	<i>0.72</i>		<i>0.04</i>
Nitrate NO_3^-	<i>0</i>		<i>0</i>
Nitrite NO_2^-			
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>44.5</i>	<i>2.22</i>	<i>4.79</i>
Magnesium Mg^{++}	<i>8.3</i>	<i>0.68</i>	
Iron Fe^{++}	<i>4.36</i>	<i>0.16</i>	
Manganese Mn^{++}	<i>0</i>	<i>0</i>	
Ammonium NH_4^+			
Sodium Na^+	<i>21.2</i>	<i>0.92</i>	
Potassium K^+	<i>0</i>	<i>0</i>	
Silica SiO_2		<i>3.98</i>	
pH value	<i>7.9</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>145.6</i>		
Hardness Temporary CaCO_3	<i>145.6</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>450</i>		
Temperature °C			
Total alkalinity	<i>221.2</i>		

Date of sampling	<i>28.10.74</i>
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Moeng</i>	District: <i>Chungya</i>	Village: <i>Matundasi</i>	BH no <i>21/91</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Cations	Anions
Total dissolved solids	<i>230</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-			
Sulphate SO_4^{--}			
Chloride Cl^-			
Flouride F^-			
Nitrate NO_3^-			
Nitrite NO_2^-			
Phosphate PO_4^{---}			
Calcium Ca^{++}			
Magnesium Mg^{++}			
Iron Fe^{++}			
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+			
Potassium K^+			
Silica SiO_2			
pH value	<i>7.8</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3			
Hardness Temporary CaCO_3			
Hardness Permanent CaCO_3			
Conductivity 25 °C mikro S/cm			
Temperature °C			
Total alkalinity			

Date of sampling	
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Chunya</i>	Village: <i>Kombikatoto</i>	BH no <i>31/21</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>50</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>30</i>		<i>0,49</i>
Sulphate SO_4^{--}	<i>9,0</i>		<i>0,19</i>
Chloride Cl^-	<i>7,1</i>		<i>0,22</i>
Flouride F^-	<i>0,11</i>		<i>0,01</i>
Nitrate NO_3^-	<i>1,3</i>		<i>0,02</i>
Nitrite NO_2^-	<i>0,002</i>		<i>0,00</i>
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>7,2</i>	<i>0,36</i>	<i>0,91</i>
Magnesium Mg^{++}	<i>4,5</i>	<i>0,38</i>	
Iron Fe^{++}	<i>0,3</i>	<i>0,01</i>	
Manganese Mn^{++}	<i>0</i>	<i>0</i>	
Ammonium NH_4^+	<i>0</i>	<i>0</i>	
Sodium Na^+	<i>3,5</i>	<i>0,15</i>	
Potassium K^+			
Silica SiO_2		<i>0,90</i>	
pH value	<i>7,4</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>36</i>		
Hardness Temporary CaCO_3	<i>26</i>		
Hardness Permanent CaCO_3	<i>10</i>		
Conductivity 25 °C mikro S/cm	<i>85</i>		
Temperature °C			
Total alkalinity	<i>26</i>		

Date of sampling	<i>23.06.79</i>
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Chunya</i>	Village: <i>Kambikatoto</i>	BH no <i>118/71</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>900</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>119</i>		<i>1,95</i>
Sulphate SO_4^{--}	<i>Trace</i>		
Chloride Cl^-	<i>276,8</i>		<i>7,21</i>
Flouride F^-	<i>0,28</i>		<i>0,01</i>
Nitrate NO_3^-	<i>1,03</i>		<i>0,02</i>
Nitrite NO_2^-			
Phosphate PO_4^{--}			
Calcium Ca^{++}	<i>64,2</i>	<i>3,21</i>	<i>9,29</i>
Magnesium Mg^{++}	<i>45,5</i>	<i>3,71</i>	
Iron Fe^{++}	<i>3,45</i>	<i>0,13</i>	
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+	<i>69,0</i>	<i>3,07</i>	
Potassium K^+	<i>8,6</i>	<i>0,22</i>	
Silica SiO_2		<i>10,30</i>	
pH value	<i>7,6</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>198,0</i>		
Hardness Temporary CaCO_3	<i>98,0</i>		
Hardness Permanent CaCO_3	<i>100,0</i>		
Conductivity 25 °C mikro S/cm	<i>1510</i>		
Temperature °C			
Total alkalinity	<i>98,0</i>		

Date of sampling	<i>15.01.72</i>
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Mbozi</i>	Village: <i>Shikula</i>	BH no <i>-175</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>580</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>249</i>		<i>4,08</i>
Sulphate SO_4^{--}	<i>0</i>		<i>0</i>
Chloride Cl^-	<i>11,3</i>		<i>0,31</i>
Flouride F^-	<i>2,6</i>		<i>0,13</i>
Nitrate NO_3^-	<i>9,8</i>		<i>0,16</i>
Nitrite NO_2^-	<i>0,008</i>		<i>0,00</i>
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>8,0</i>	<i>0,40</i>	<i>4,68</i>
Magnesium Mg^{++}	<i>2,9</i>	<i>0,24</i>	
Iron Fe^{++}			
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+	<i>57,5</i>	<i>2,50</i>	
Potassium K^+	<i>31,3</i>	<i>0,80</i>	
Silica SiO_2		<i>3,94</i>	
pH value	<i>7,5</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>30,3</i>		
Hardness Temporary CaCO_3	<i>30,3</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>390</i>		
Temperature °C			
Total alkalinity	<i>204,6</i>		

Date of sampling	<i>18.07.75</i>
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Meghal</i>	District: <i>Campur</i>	Village: <i>Motuniasi</i>	BH no <i>21/77</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>230</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-			
Sulphate SO_4^{--}			
Chloride Cl^-			
Flouride F^-			
Nitrate NO_3^-			
Nitrite NO_2^-			
Phosphate PO_4^{---}			
Calcium Ca^{++}			
Magnesium Mg^{++}			
Iron Fe^{++}			
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+			
Potassium K^+			
Silica SiO_2			
pH value			
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3			
Hardness Temporary CaCO_3			
Hardness Permanent CaCO_3			
Conductivity 25 °C mikro S/cm			
Temperature °C			
Total alkalinity			

Date of sampling	
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Chunya</i>	Village: <i>Makongolaci</i>	BH no <i>194/47</i>
			CCKK no

CONSTITUENT		mg/l	meq/l	
			Kations	Anions
Total dissolved solids		<i>490</i>		
Carbonate	CO_3^{--}	<i>135</i>		<i>4.50</i>
Bicarbonate	HCO_3^-	<i>486</i>		<i>2.96</i>
Sulphate	SO_4^{--}	<i>0</i>		<i>0</i>
Chloride	Cl^-	<i>15.8</i>		<i>0.44</i>
Flouride	F^-	<i>2.2</i>		<i>0.12</i>
Nitrate	NO_3^-			
Nitrite	NO_2^-			
Phosphate	PO_4^{---}			
Calcium	Ca^{++}	<i>16.8</i>	<i>0.84</i>	
Magnesium	Mg^{++}	<i>44.6</i>	<i>3.67</i>	
Iron	Fe^{++}	<i>1.22</i>	<i>0.06</i>	
Manganese	Mn^{++}			
Ammonium	NH_4^+			
Sodium	Na^+	<i>65.5</i>	<i>2.85</i>	
Potassium	K^+	<i>6.5</i>	<i>0.17</i>	
Silica	SiO_2			
pH value		<i>8.5</i>		
Carbon dioxide, free	CO_2			
Carbon dioxide, aggressive	CO_2			
Hardness Total	CaCO_3	<i>226</i>		
Hardness Temporary	CaCO_3	<i>226</i>		
Hardness Permanent	CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm		<i>690</i>		
Temperature	°C			
Total alkalinity		<i>398</i>		

Date of sampling	<i>19.09.77</i>
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Mkaya</i>	District: <i>Chunya</i>	Village: <i>Mbangala</i>	BH no <i>195/77</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>510</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>512</i>		<i>8,40</i>
Sulphate SO_4^{--}	<i>91</i>		<i>1,90</i>
Chloride Cl^-	<i>10,0</i>		<i>0,28</i>
Flouride F^-	<i>0,75</i>		<i>0,04</i>
Nitrate NO_3^-	<i>0,2</i>		<i>0,00</i>
Nitrite NO_2^-			
Phosphate PO_4^{--}			
Calcium Ca^{++}	<i>57,5</i>	<i>2,87</i>	<i>10,62</i>
Magnesium Mg^{++}	<i>55,5</i>	<i>4,62</i>	
Iron Fe^{++}	<i>0,1</i>	<i>0,22</i>	
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+	<i>69,0</i>	<i>3,13</i>	
Potassium K^+	<i>2,4</i>		
Silica SiO_2		<i>10,62</i>	
pH value	<i>8,7</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>372</i>		
Hardness Temporary CaCO_3	<i>372</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>840</i>		
Temperature °C			
Total alkalinity	<i>419</i>		

Date of sampling	<i>25.10.77</i>
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Chunya</i>	Village: <i>Mangogoro</i>	BH no <i>209/97</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>607</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>817</i>		<i>1339</i>
Sulphate SO_4^{--}	<i>216</i>		<i>450</i>
Chloride Cl^-	<i>203</i>		<i>057</i>
Flouride F^-	<i>07</i>		<i>004</i>
Nitrate NO_3^-	<i>0079</i>		<i>000</i>
Nitrite NO_2^-			
Phosphate PO_4^{---}			
Calcium Ca^{++}		<i>12,10</i>	<i>1250</i>
Magnesium Mg^{++}			
Iron Fe^{++}	<i>01</i>	<i>000</i>	
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+	<i>140,9</i>	<i>613</i>	
Potassium K^+	<i>9,6</i>	<i>025</i>	
Silica SiO_2		<i>18,48</i>	
pH value	<i>9,0</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>605</i>		
Hardness Temporary CaCO_3	<i>605</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>1300</i>		
Temperature °C			
Total alkalinity	<i>668,7</i>		

Date of sampling	
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Mleya</i>	District: <i>Mkozi</i>	Village: <i>Mkutano</i>	BH no <i>122/199</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>570</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-			
Sulphate SO_4^{--}	<i>04</i>		<i>0.01</i>
Chloride Cl^-	<i>129</i>		<i>0.21</i>
Flouride F^-	<i>405</i>		<i>0.03</i>
Nitrate NO_3^-			
Nitrite NO_2^-			
Phosphate PO_4^{----}			
Calcium Ca^{++}			
Magnesium Mg^{++}	<i>38</i>	<i>3.13</i>	
Iron Fe^{++}			
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+	<i>71</i>	<i>3.09</i>	
Potassium K^+			
Silica SiO_2			
pH value			
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3			
Hardness Temporary CaCO_3			
Hardness Permanent CaCO_3			
Conductivity 25 °C mikro S/cm			
Temperature °C			
Total alkalinity			

Date of sampling	
Date of analysis	<i>22.01.29</i>
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Mbazi</i>	Village: <i>Nzoka</i>	BH no <i>21/79</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>326</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-			
Sulphate SO_4^{--}	<i>7</i>		<i>0.15</i>
Chloride Cl^-	<i>10.9</i>		<i>0.31</i>
Flouride F^-	<i><0.5</i>		<i>0.03</i>
Nitrate NO_3^-			
Nitrite NO_2^-			
Phosphate PO_4^{---}			
Calcium Ca^{++}			<i>0.49</i>
Magnesium Mg^{++}	<i>16</i>	<i>0.13</i>	
Iron Fe^{++}			
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+	<i>71</i>	<i>0.31</i>	
Potassium K^+			
Silica SiO_2		<i>0.44</i>	
pH value			
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3			
Hardness Temporary CaCO_3			
Hardness Permanent CaCO_3			
Conductivity 25 °C mikro S/cm			
Temperature °C			
Total alkalinity			

Date of sampling	
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Micwa</i>	District: <i>Bimbe</i>	Village: <i>Kyejo</i>	BH no <i>54/49</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>1100</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>0</i>		<i>0</i>
Sulphate SO_4^{--}	<i>620</i>		<i>12,92</i>
Chloride Cl^-	<i>9</i>		<i>0,25</i>
Flouride F^-	<i>0,76</i>		<i>0,04</i>
Nitrate NO_3^-			
Nitrite NO_2^-			
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>32</i>	<i>0,16</i>	<i>12,21</i>
Magnesium Mg^{++}	<i>5,5</i>	<i>0,45</i>	
Iron Fe^{++}			
Manganese Mn^{++}			
Ammonium NH_4^+	<i>0,22</i>	<i>0,01</i>	
Sodium Na^+	<i>242</i>	<i>10,52</i>	
Potassium K^+			
Silica SiO_2		<i>11,14</i>	
pH value	<i>2,8</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>30</i>		
Hardness Temporary CaCO_3	<i>0</i>		
Hardness Permanent CaCO_3	<i>30</i>		
Conductivity 25 °C mikro S/cm	<i>3900</i>		
Temperature °C			
Total alkalinity	<i>0</i>		

Date of sampling	<i>30.12.20</i>
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Mbozi</i>	Village: <i>Nkhangam</i>	BH no <i>113/80</i>
			CCKK no <i>MS1</i>

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>240</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>221</i>		<i>4.44</i>
Sulphate SO_4^{--}	<i>10</i>		<i>0.21</i>
Chloride Cl^-	<i>30</i>		<i>0.84</i>
Flouride F^-	<i>1.0</i>		<i>0.05</i>
Nitrate NO_3^-	<i>0</i>		<i>0</i>
Nitrite NO_2^-	<i>0</i>		<i>0</i>
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>33</i>	<i>1.65</i>	<i>5.54</i>
Magnesium Mg^{++}	<i>25</i>	<i>2.06</i>	
Iron Fe^{++}	<i>2</i>	<i>0.02</i>	
Manganese Mn^{++}	<i>1.5</i>	<i>0.05</i>	
Ammonium NH_4^+	<i>0.2</i>	<i>0.01</i>	
Sodium Na^+	<i>36.0</i>	<i>1.52</i>	
Potassium K^+			
Silica SiO_2		<i>5.41</i>	
pH value	<i>6.6</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>188</i>		
Hardness Temporary CaCO_3	<i>188</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>400</i>		
Temperature °C			
Total alkalinity	<i>222</i>		

Date of sampling	<i>29.09.80</i>
Date of analysis	<i>30.09.80</i>
Remarks	<i>Sample taken during drilling</i> <i>Analysed by Hach Kit</i>

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Mbozi</i>	Village: <i>Nkhangama</i>	BH no <i>114/80</i>
			CCKK no <i>MS 2</i>

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>216</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>209</i>		<i>3,43</i>
Sulphate SO_4^{--}	<i>18</i>		<i>0,38</i>
Chloride Cl^-	<i>9</i>		<i>0,25</i>
Flouride F^-	<i>0,8</i>		<i>0,04</i>
Nitrate NO_3^-	<i>0</i>		<i>0</i>
Nitrite NO_2^-	<i>0</i>		<i>0</i>
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>43</i>	<i>2,15</i>	<i>4,10</i>
Magnesium Mg^{++}	<i>8,4</i>	<i>6,69</i>	
Iron Fe^{++}	<i>2</i>	<i>0,04</i>	
Manganese Mn^{++}	<i>0</i>	<i>0</i>	
Ammonium NH_4^+	<i>0</i>	<i>0</i>	
Sodium Na^+	<i>28</i>	<i>1,22</i>	
Potassium K^+			
Silica SiO_2		<i>4,13</i>	
pH value	<i>8,5</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>144</i>		
Hardness Temporary CaCO_3	<i>144</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>360</i>		
Temperature °C			
Total alkalinity	<i>172</i>		

Date of sampling	<i>04.11.80</i>
Date of analysis	<i>10.11.80</i>
Remarks	<i>Sample taken during drilling Analyzed by Hach Kit</i>

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Mbozi</i>	Village: <i>Nandara</i>	BH no <i>134/27</i>
			CCKR no <i>M.S.5</i>

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>84</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>262</i>		<i>4.30</i>
Sulphate SO_4^{--}	<i>11</i>		<i>0.02</i>
Chloride Cl^-	<i>5</i>		<i>0.14</i>
Flouride F^-	<i>0</i>		<i>0</i>
Nitrate NO_3^-	<i>0</i>		<i>0</i>
Nitrite NO_2^-	<i>0</i>		<i>0</i>
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>56</i>	<i>2.80</i>	<i>4.46</i>
Magnesium Mg^{++}	<i>2.6</i>	<i>0.21</i>	
Iron Fe^{++}	<i>Trace</i>	<i>0.00</i>	
Manganese Mn^{++}	<i>0</i>	<i>0</i>	
Ammonium NH_4^+	<i>0</i>	<i>0</i>	
Sodium Na^+	<i>32</i>	<i>1.39</i>	
Potassium K^+			
Silica SiO_2		<i>4.40</i>	
pH value	<i>7.4</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>151</i>		
Hardness Temporary CaCO_3	<i>151</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>140</i>		
Temperature °C			
Total alkalinity	<i>215</i>		

Date of sampling	<i>16.11.80</i>
Date of analysis	<i>17.11.80</i>
Remarks	<i>Sample taken direct drilling</i>
	<i>Analysed by Hand Kit</i>

CHEMICAL ANALYSIS FORM

Region: <i>Mocva</i>	District: <i>Ileje</i>	Village: <i>Mbebe</i>	BH no <i>136/80</i>
			CCKK no <i>MSZ</i>

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>360</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>344</i>		<i>6,13</i>
Sulphate SO_4^{--}	<i>0</i>		<i>0</i>
Chloride Cl^-	<i>9</i>		<i>0,25</i>
Flouride F^-	<i>0</i>		<i>0</i>
Nitrate NO_3^-	<i>0</i>		<i>0</i>
Nitrite NO_2^-	<i>0</i>		<i>0</i>
Phosphate PO_4^{--}			
Calcium Ca^{++}	<i>54</i>	<i>2,70</i>	<i>6,32</i>
Magnesium Mg^{++}	<i>25,6</i>	<i>2,11</i>	
Iron Fe^{++}	<i>0,1</i>	<i>0,00</i>	
Manganese Mn^{++}	<i>0</i>	<i>0</i>	
Ammonium NH_4^+	<i>0</i>	<i>0</i>	
Sodium Na^+	<i>35</i>	<i>1,57</i>	
Potassium K^+			
Silica SiO_2		<i>4,33</i>	
pH value	<i>7,7</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>242</i>		
Hardness Temporary CaCO_3	<i>242</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>600</i>		
Temperature °C			
Total alkalinity	<i>307</i>		

Date of sampling	<i>28.11.80</i>
Date of analysis	<i>29.11.80</i>
Remarks	<i>Sample taken during drilling. Analyzed by Hach Kit</i>

CHEMICAL ANALYSIS FORM

Region: <i>Mibeya</i>	District: <i>Mbozi</i>	Village: <i>Mbimba</i>	BH no <i>142/20</i>
			CCKK no <i>MS 8</i>

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>156</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>211</i>		<i>3.56</i>
Sulphate SO_4^{--}	<i>0</i>		<i>0</i>
Chloride Cl^-	<i>18</i>		<i>0.50</i>
Flouride F^-	<i>0.3</i>		<i>0.02</i>
Nitrate NO_3^-	<i>0</i>		<i>0</i>
Nitrite NO_2^-	<i>0</i>		<i>0</i>
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>31</i>	<i>0.55</i>	<i>3.92</i>
Magnesium Mg^{++}	<i>1.5</i>	<i>0.13</i>	
Iron Fe^{++}	<i>0.1</i>	<i>0.02</i>	
Manganese Mn^{++}	<i>0</i>	<i>0</i>	
Ammonium NH_4^+	<i>0</i>	<i>0</i>	
Sodium Na^+	<i>51</i>	<i>2.22</i>	
Potassium K^+			
Silica SiO_2		<i>3.95</i>	
pH value	<i>7.4</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>84</i>		
Hardness Temporary CaCO_3	<i>84</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>260</i>		
Temperature °C			
Total alkalinity	<i>173</i>		

Date of sampling	<i>11.12.80</i>
Date of analysis	<i>15.12.80</i>
Remarks	<i>Sample taken during drilling Analysed by Hand Kit</i>

CHEMICAL ANALYSIS FORM

Region: <i>Mbezi</i>	District: <i>Mbozi</i>	Village: <i>Mbozi</i>	BH no <i>149/80</i>
			CCKK no <i>MS 9</i>

CONSTITUENT	mg/l	meq/l	
		Cations	Anions
Total dissolved solids	<i>204</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>244</i>		<i>1.22</i>
Sulphate SO_4^{--}	<i>0</i>		<i>0</i>
Chloride Cl^-	<i>9</i>		<i>0.25</i>
Flouride F^-	<i>0.95</i>		<i>0.05</i>
Nitrate NO_3^-	<i>0</i>		<i>0</i>
Nitrite NO_2^-	<i>0</i>		<i>0</i>
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>63</i>	<i>3.15</i>	<i>4.37</i>
Magnesium Mg^{++}	<i>0</i>	<i>0</i>	
Iron Fe^{++}	<i>0.4</i>	<i>0.01</i>	
Manganese Mn^{++}	<i>0</i>	<i>0</i>	
Ammonium NH_4^+	<i>0</i>	<i>0</i>	
Sodium Na^+	<i>19</i>	<i>0.83</i>	
Potassium K^+			
Silica SiO_2		<i>3.99</i>	
pH value	<i>6.5</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>157</i>		
Hardness Temporary CaCO_3	<i>157</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>340</i>		
Temperature °C			
Total alkalinity	<i>199</i>		

Date of sampling	<i>12.12.80</i>
Date of analysis	<i>15.12.80</i>
Remarks	<i>Sample taken during drilling Evaluated by Hard Kit</i>

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Kyela</i>	Village: <i>Kyela</i>	BH no <i>306/80</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>720</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-			
Sulphate SO_4^{--}			
Chloride Cl^-	<i>46</i>		<i>130</i>
Flouride F^-	<i>0,6</i>		<i>0,03</i>
Nitrate NO_3^-	<i>0,025</i>		<i>0,00</i>
Nitrite NO_2^-	<i>1,9</i>		<i>0,04</i>
Phosphate PO_4^{---}			
Calcium Ca^{++}			
Magnesium Mg^{++}			
Iron Fe^{++}	<i>1,2</i>	<i>0,04</i>	
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+			
Potassium K^+			
Silica SiO_2			
pH value	<i>9,0</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3			
Hardness Temporary CaCO_3			
Hardness Permanent CaCO_3			
Conductivity 25 °C mikro S/cm	<i>1350</i>		
Temperature °C			
Total alkalinity	<i>634</i>		

Date of sampling	
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Kyela</i>	Village: <i>Kikusya</i>	BH no <i>19/21</i>
			CCKK no <i>MS 10</i>

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>120</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>155</i>		<i>2,54</i>
Sulphate SO_4^{--}	<i>0</i>		<i>0</i>
Chloride Cl^-	<i>2</i>		<i>0,06</i>
Flouride F^-	<i>0,5</i>		<i>0,03</i>
Nitrate NO_3^-	<i>0</i>		<i>0</i>
Nitrite NO_2^-	<i>0</i>		<i>0</i>
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>16</i>	<i>0,80</i>	<i>2,63</i>
Magnesium Mg^{++}	<i>5,5</i>	<i>0,46</i>	
Iron Fe^{++}	<i>2</i>	<i>0,07</i>	
Manganese Mn^{++}	<i>0</i>	<i>0</i>	
Ammonium NH_4^+	<i>0</i>	<i>0</i>	
Sodium Na^+	<i>30</i>	<i>1,30</i>	
Potassium K^+			
Silica SiO_2		<i>2,62</i>	
pH value	<i>7,0</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>63</i>		
Hardness Temporary CaCO_3	<i>25</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>200</i>		
Temperature °C			
Total alkalinity	<i>127</i>		

Date of sampling	<i>20.01.81</i>
Date of analysis	<i>20.01.81</i>
Remarks	<i>Sample taken during drilling</i> <i>Analysed by Harp Kit.</i>

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Kyela</i>	Village: <i>Kikusua</i>	BH no <i>19/81</i>
			CCKK no <i>MS 10</i>

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>120</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>116</i>		<i>1.92</i>
Sulphate SO_4^{--}	<i>15</i>		<i>0.31</i>
Chloride Cl^-	<i>6</i>		<i>0.12</i>
Flouride F^-	<i>1.35</i>		<i>0.07</i>
Nitrate NO_3^-	<i>1.14</i>		<i>0.02</i>
Nitrite NO_2^-	<i>0</i>		<i>0</i>
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>5</i>	<i>0.24</i>	<i>2.47</i>
Magnesium Mg^{++}	<i>10</i>	<i>0.22</i>	
Iron Fe^{++}	<i>0.8</i>	<i>0.03</i>	
Manganese Mn^{++}	<i>0</i>	<i>0</i>	
Ammonium NH_4^+	<i>0</i>	<i>0</i>	
Sodium Na^+	<i>33.6</i>	<i>1.46</i>	
Potassium K^+			
Silica SiO_2		<i>2.55</i>	
pH value	<i>7.2</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>53</i>		
Hardness Temporary CaCO_3	<i>53</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>200</i>		
Temperature °C			
Total alkalinity	<i>95</i>		

Date of sampling	<i>12.10.81</i>
Date of analysis	<i>18.11.81</i>
Remarks	<i>Sample taken during pump test</i>

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Kyela</i>	Village: <i>Ituraj Port</i>	BH no <i>20/21</i>
			CCKK no <i>MS II</i>

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>348</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>328</i>		<i>5.38</i>
Sulphate SO_4^{--}	<i>0</i>		<i>0</i>
Chloride Cl^-	<i>1</i>		<i>0.03</i>
Flouride F^-	<i>1.35</i>		<i>0.07</i>
Nitrate NO_3^-	<i>0</i>		<i>0</i>
Nitrite NO_2^-	<i>0</i>		<i>0</i>
Phosphate PO_4^{--}			
Calcium Ca^{++}	<i>23</i>	<i>1.5</i>	<i>5.42</i>
Magnesium Mg^{++}	<i>28</i>	<i>2.31</i>	
Iron Fe^{++}	<i>2</i>	<i>0.07</i>	
Manganese Mn^{++}	<i>0</i>	<i>0</i>	
Ammonium NH_4^+	<i>2</i>	<i>0.11</i>	
Sodium Na^+	<i>40</i>	<i>1.74</i>	
Potassium K^+			
Silica SiO_2		<i>5.12</i>	
pH value	<i>6.9</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>176</i>		
Hardness Temporary CaCO_3	<i>176</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>580</i>		
Temperature °C			
Total alkalinity	<i>269</i>		

Date of sampling	<i>20.01.81</i>
Date of analysis	<i>22.01.81</i>
Remarks	<i>Sample taken during drilling</i>
	<i>Analysed by Hach Kit</i>

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Kyela</i>	Village: <i>Ngamango</i>	BH no <i>21/81</i>
			CCKK no <i>MS 12</i>

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>228</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>211</i>		<i>3,46</i>
Sulphate SO_4^{--}	<i>0</i>		<i>0</i>
Chloride Cl^-	<i>4</i>		<i>0,11</i>
Flouride F^-	<i>0</i>		<i>0</i>
Nitrate NO_3^-	<i>0</i>		<i>0</i>
Nitrite NO_2^-	<i>0</i>		<i>0</i>
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>19</i>	<i>0,95</i>	<i>3,57</i>
Magnesium Mg^{++}	<i>10</i>	<i>0,83</i>	
Iron Fe^{++}	<i>2</i>	<i>0,02</i>	
Manganese Mn^{++}	<i>0</i>	<i>0</i>	
Ammonium NH_4^+	<i>0</i>	<i>0</i>	
Sodium Na^+	<i>40</i>	<i>1,74</i>	
Potassium K^+			
Silica SiO_2		<i>3,59</i>	
pH value	<i>6,8</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>89</i>		
Hardness Temporary CaCO_3	<i>89</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>380</i>		
Temperature °C			
Total alkalinity	<i>173</i>		

Date of sampling	<i>23.01.81</i>
Date of analysis	<i>27.01.81</i>
Remarks	<i>Sample taken during drilling.</i>
	<i>Analysed by [unclear]</i>

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Kyela</i>	Village: <i>Itenya</i>	BH no <i>22/81</i>
			CCKK no <i>MS13</i>

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>180</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>153</i>		<i>2,51</i>
Sulphate SO_4^{--}	<i>0</i>		<i>0</i>
Chloride Cl^-	<i>6</i>		<i>0,17</i>
Flouride F^-	<i>0,5</i>		<i>0,03</i>
Nitrate NO_3^-	<i>0</i>		<i>0</i>
Nitrite NO_2^-	<i>0</i>		<i>0</i>
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>16</i>	<i>0,80</i>	<i>2,71</i>
Magnesium Mg^{++}	<i>0</i>	<i>0</i>	
Iron Fe^{++}	<i>2</i>	<i>2,07</i>	
Manganese Mn^{++}	<i>0</i>	<i>0</i>	
Ammonium NH_4^+	<i>2</i>	<i>0,11</i>	
Sodium Na^+	<i>40</i>	<i>1,74</i>	
Potassium K^+			
Silica SiO_2		<i>2,92</i>	
pH value	<i>7,3</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>39</i>		
Hardness Temporary CaCO_3	<i>39</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>300</i>		
Temperature °C			
Total alkalinity	<i>125</i>		

Date of sampling	<i>11.03.81</i>
Date of analysis	<i>14.03.81</i>
Remarks	<i>Sample taken during drilling</i>
	<i>Analyzed by H. J. J. J.</i>

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Kyela</i>	Village: <i>Itenya</i>	BH no <i>22/81</i>
			CCKK no <i>MS 13</i>

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>288</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>233</i>		<i>3,82</i>
Sulphate SO_4^{--}	<i>18</i>		<i>0,04</i>
Chloride Cl^-	<i>24</i>		<i>2,68</i>
Flouride F^-	<i>15</i>		<i>0,08</i>
Nitrate NO_3^-	<i>0</i>		<i>0</i>
Nitrite NO_2^-	<i>0</i>		<i>0</i>
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>36</i>	<i>1,80</i>	<i>4,62</i>
Magnesium Mg^{++}	<i>0,3</i>	<i>0,01</i>	
Iron Fe^{++}	<i>0,2</i>	<i>0,01</i>	
Manganese Mn^{++}	<i>0</i>	<i>0</i>	
Ammonium NH_4^+	<i>0</i>	<i>0</i>	
Sodium Na^+	<i>69</i>	<i>3,00</i>	
Potassium K^+			
Silica SiO_2		<i>4,82</i>	
pH value	<i>7,9</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>90</i>		
Hardness Temporary CaCO_3	<i>90</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>480</i>		
Temperature °C			
Total alkalinity	<i>191</i>		

Date of sampling	<i>15.10.81</i>
Date of analysis	<i>17.11.81</i>
Remarks	<i>Sample taken during pump testing</i>

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Kyela</i>	Village: <i>Kabanga</i>	BH no <i>24/81</i>
			CCRK no <i>MS 15</i>

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>132</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>114</i>		<i>1,27</i>
Sulphate SO_4^{--}	<i>0</i>		<i>0</i>
Chloride Cl^-	<i>4</i>		<i>0,11</i>
Flouride F^-	<i>0</i>		<i>0</i>
Nitrate NO_3^-	<i>0</i>		<i>0</i>
Nitrite NO_2^-	<i>0</i>		<i>0</i>
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>15</i>	<i>0,25</i>	<i>1,98</i>
Magnesium Mg^{++}	<i>0,12</i>	<i>0,01</i>	
Iron Fe^{++}	<i>2</i>	<i>0,02</i>	
Manganese Mn^{++}	<i>0</i>	<i>0</i>	
Ammonium NH_4^+	<i>0</i>	<i>0</i>	
Sodium Na^+	<i>27,5</i>	<i>1,0</i>	
Potassium K^+			
Silica SiO_2		<i>2,03</i>	
pH value	<i>6,7</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>38</i>		
Hardness Temporary CaCO_3	<i>38</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>220</i>		
Temperature °C			
Total alkalinity	<i>94</i>		

Date of sampling	<i>05.02.81</i>
Date of analysis	<i>07.02.81</i>
Remarks	<i>Sample taken during drilling. Analysed by Hach KIT</i>

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Kyela</i>	Village: <i>Kabanga</i>	BH no <i>24/81</i>
			CCKK no <i>MS 15</i>

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>216</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>179</i>		<i>2.93</i>
Sulphate SO_4^{--}	<i>2.8</i>		<i>2.06</i>
Chloride Cl^-	<i>19</i>		<i>0.54</i>
Flouride F^-	<i>11</i>		<i>0.06</i>
Nitrate NO_3^-	<i>1.39</i>		<i>0.02</i>
Nitrite NO_2^-	<i>0</i>		<i>0</i>
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>8</i>	<i>0.40</i>	<i>3.61</i>
Magnesium Mg^{++}	<i>7.20</i>	<i>0.59</i>	
Iron Fe^{++}	<i>0.06</i>	<i>0.00</i>	
Manganese Mn^{++}	<i>0</i>	<i>0</i>	
Ammonium NH_4^+	<i>0</i>	<i>0</i>	
Sodium Na^+	<i>62</i>	<i>2.70</i>	
Potassium K^+			
Silica SiO_2		<i>3.69</i>	
pH value	<i>7.3</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>50</i>		
Hardness Temporary CaCO_3	<i>50</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>360</i>		
Temperature °C			
Total alkalinity	<i>147</i>		

Date of sampling	<i>14.10.21</i>
Date of analysis	<i>16.11.21</i>
Remarks	<i>Sample taken during pump test</i>

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Mbozi</i>	Village: <i>Mbozi</i>	BH no <i>25/81</i>
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	960		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	1525		2500
Sulphate SO_4^{--}	0		0
Chloride Cl^-	290		0,82
Flouride F^-	1,6		0,08
Nitrate NO_3^-	0		0
Nitrite NO_2^-	0		0
Phosphate PO_4^{---}			
Calcium Ca^{++}		} 28,70	25,90
Magnesium Mg^{++}			
Iron Fe^{++}	2,0	0,07	
Manganese Mn^{++}	10,0	0,36	
Ammonium NH_4^+	1,5	0,08	
Sodium Na^+			
Potassium K^+			
Silica SiO_2		29,21	
pH value	6,6		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	1435		
Hardness Temporary CaCO_3	1251		
Hardness Permanent CaCO_3	184		
Conductivity 25 °C mikro S/cm	1600		
Temperature °C			
Total alkalinity	1251		

Date of sampling	20.03.81
Date of analysis	23.03.81
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Kyela</i>	Village: <i>Teneride</i>	BH no <i>29/81</i>
			CCKK no <i>MS 16</i>

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids			
Carbonate CO_3^{--}	<i>26.8</i>		<i>0.89</i>
Bicarbonate HCO_3^-			
Sulphate SO_4^{--}	<i>0</i>		<i>0</i>
Chloride Cl^-	<i>13.0</i>		<i>0.32</i>
Flouride F^-	<i>0</i>		<i>0</i>
Nitrate NO_3^-			
Nitrite NO_2^-			
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>10.0</i>	<i>0.50</i>	<i>1.26</i>
Magnesium Mg^{++}			
Iron Fe^{++}	<i>1.2</i>	<i>0.04</i>	
Manganese Mn^{++}			
Ammonium NH_4^+	<i>0.1</i>	<i>0.01</i>	
Sodium Na^+	<i>15.0</i>	<i>0.65</i>	
Potassium K^+			
Silica SiO_2		<i>1.20</i>	
pH value	<i>6.6</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>27</i>		
Hardness Temporary CaCO_3	<i>27</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>80</i>		
Temperature °C			
Total alkalinity	<i>44</i>		

Date of sampling	<i>28.02.81</i>
Date of analysis	<i>03.03.81</i>
Remarks	<i>Sample taken during drilling.</i>
	<i>Analyzed in Hoch Tit</i>

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Kyela</i>	Village: <i>Terende</i>	BH no <i>29/21</i>
			CCKK no <i>MS 16</i>

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>243</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>142</i>		<i>2.41</i>
Sulphate SO_4^{--}	<i>7</i>		<i>0.15</i>
Chloride Cl^-	<i><2</i>		<i><0.06</i>
Flouride F^-	<i>2.9</i>		<i>0.15</i>
Nitrate NO_3^-	<i>1.46</i>		<i>0.02</i>
Nitrite NO_2^-	<i>5.3</i>		<i>0.12</i>
Phosphate PO_4^{--}	<i>1.66</i>		<i>0.05</i>
Calcium Ca^{++}	<i>4</i>	<i>0.20</i>	<i>2.96</i>
Magnesium Mg^{++}	<i>5</i>	<i>0.41</i>	
Iron Fe^{++}	<i>1.35</i>	<i>0.05</i>	
Manganese Mn^{++}	<i>0.88</i>	<i>0.03</i>	
Ammonium NH_4^+	<i><0.01</i>	<i>0.00</i>	
Sodium Na^+	<i>53</i>	<i>2.31</i>	
Potassium K^+	<i>9.2</i>	<i>0.24</i>	
Silica SiO_2	<i>6.2</i>	<i>3.24</i>	
pH value	<i>6.85</i>		
Carbon dioxide, free CO_2	<i>26</i>		
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>1.7</i>		
Hardness Temporary CaCO_3	<i>1.7</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>246</i>		
Temperature °C			
Total alkalinity			
<i>Sodium bicarbonate</i> NaHCO_3	<i>150</i>		
<i>Ferrimanganate, number</i>	<i>6.1</i>		

Date of sampling	<i>10/13/81</i>
Date of analysis	
Remarks	<i>Yellow, a little turbid and with a precipitate</i>

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Kyela</i>	Village: <i>Ipinda</i>	BH no <i>30/21</i>
			CCKK no <i>MS 17</i>

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>96</i>		
Carbonate CO_3^{--}	<i>59</i>		<i>1.97</i>
Bicarbonate HCO_3^-			
Sulphate SO_4^{--}	<i>0</i>		<i>0</i>
Chloride Cl^-	<i>3.0</i>		<i>0.08</i>
Flouride F^-	<i>0.2</i>		<i>0.01</i>
Nitrate NO_3^-			
Nitrite NO_2^-			
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>17</i>	<i>0.85</i>	<i>2.06</i>
Magnesium Mg^{++}	<i>6.4</i>	<i>0.53</i>	
Iron Fe^{++}	<i>0.2</i>	<i>0.01</i>	
Manganese Mn^{++}	<i>0</i>	<i>0</i>	
Ammonium NH_4^+	<i>0</i>	<i>0</i>	
Sodium Na^+	<i>15.7</i>	<i>0.65</i>	
Potassium K^+			
Silica SiO_2		<i>2.04</i>	
pH value	<i>7.2</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>69</i>		
Hardness Temporary CaCO_3	<i>69</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>160</i>		
Temperature °C			
Total alkalinity	<i>97</i>		

Date of sampling	<i>28.02.81</i>
Date of analysis	<i>03.03.81</i>
Remarks	<i>Sample taken during drilling Analysed by Hach kit</i>

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Kyela</i>	Village: <i>Ipinda</i>	BH no <i>30/81</i>
			CCKK no <i>MS 17</i>

CONSTITUENT	mg/l	meq/l	
		Cations	Anions
Total dissolved solids	<i>198</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>187</i>		<i>3,06</i>
Sulphate SO_4^{--}	<i>0,2</i>		<i>0,01</i>
Chloride Cl^-	<i>14</i>		<i>0,39</i>
Flouride F^-	<i>0,8</i>		<i>0,04</i>
Nitrate NO_3^-	<i>0</i>		<i>0</i>
Nitrite NO_2^-	<i>0</i>		<i>0</i>
Phosphate PO_4^{--}			
Calcium Ca^{++}	<i>126</i>	<i>0,88</i>	<i>3,46</i>
Magnesium Mg^{++}	<i>13</i>	<i>1,08</i>	
Iron Fe^{++}	<i>0,2</i>	<i>0,01</i>	
Manganese Mn^{++}	<i>0</i>	<i>0</i>	
Ammonium NH_4^+	<i>0</i>	<i>0</i>	
Sodium Na^+	<i>34</i>	<i>1,48</i>	
Potassium K^+			
Silica SiO_2			<i>3,45</i>
pH value	<i>7,2</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>98</i>		
Hardness Temporary CaCO_3	<i>98</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>330</i>		
Temperature °C			
Total alkalinity	<i>153</i>		

Date of sampling	<i>13.10.81</i>
Date of analysis	<i>17.11.81</i>
Remarks	<i>Sample taken during camp testing</i>

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Kyela</i>	Village: <i>Ndobe</i>	BH no <i>73/81</i>
			CCKK no <i>MS 19</i>

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>120</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>93</i>		<i>1,52</i>
Sulphate SO_4^{--}	<i>0</i>		<i>0</i>
Chloride Cl^-	<i>1,0</i>		<i>0,03</i>
Flouride F^-	<i>0,75</i>		<i>0,04</i>
Nitrate NO_3^-	<i>0</i>		<i>0</i>
Nitrite NO_2^-	<i>0</i>		<i>0</i>
Phosphate PO_4^{---}			
Calcium Ca^{++}	<i>13,0</i>	<i>0,65</i>	<i>1,59</i>
Magnesium Mg^{++}	<i>5,2</i>	<i>0,43</i>	
Iron Fe^{++}	<i>0,15</i>	<i>0,01</i>	
Manganese Mn^{++}	<i>0</i>	<i>0</i>	
Ammonium NH_4^+	<i>0</i>	<i>0</i>	
Sodium Na^+	<i>12,0</i>	<i>0,52</i>	
Potassium K^+			
Silica SiO_2		<i>1,61</i>	
pH value	<i>6,1</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>56</i>		
Hardness Temporary CaCO_3	<i>56</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>200</i>		
Temperature °C			
Total alkalinity	<i>76</i>		

Date of sampling	<i>26.02.81</i>
Date of analysis	<i>27.02.81</i>
Remarks	<i>Sample taken from drinking water used by the ...</i>

CHEMICAL ANALYSIS FORM

Region: <i>Micoya</i>	District: <i>Kyela</i>	Village: <i>Mpunguti</i>	BH no <i>74/81</i>
			CCKK no <i>14519</i>

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>84</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>20</i>		<i>1,31</i>
Sulphate SO_4^{--}	<i>0</i>		<i>0</i>
Chloride Cl^-	<i>70</i>		<i>0,20</i>
Flouride F^-	<i>0,4</i>		<i>0,02</i>
Nitrate NO_3^-	<i>0</i>		<i>0</i>
Nitrite NO_2^-	<i>0</i>		<i>0</i>
Phosphate PO_4^{--}			
Calcium Ca^{++}	<i>90</i>	<i>0,45</i>	<i>1,53</i>
Magnesium Mg^{++}	<i>8,6</i>	<i>0,21</i>	
Iron Fe^{++}	<i>1,1</i>	<i>0,04</i>	
Manganese Mn^{++}	<i>3,5</i>	<i>0,13</i>	
Ammonium NH_4^+	<i>0</i>	<i>0</i>	
Sodium Na^+	<i>5,2</i>	<i>0,25</i>	
Potassium K^+			
Silica SiO_2		<i>1,58</i>	
pH value	<i>6,8</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>58</i>		
Hardness Temporary CaCO_3	<i>58</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>140</i>		
Temperature °C			
Total alkalinity	<i>65</i>		

Date of sampling	<i>11.03.81</i>
Date of analysis	<i>16.03.81</i>
Remarks	<i>Sample taken during drilling</i> <i>Analysed by Mack Pot</i>

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Mbozi</i>	Village: <i>Chiwanda</i>	BH no <i>76/81</i> CCKR no <i>MD 3</i>
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CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	222		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	127		2.06
Sulphate SO_4^{--}	65		2.14
Chloride Cl^-	23		0.65
Flouride F^-	0.8		0.04
Nitrate NO_3^-	0		0
Nitrite NO_2^-	0		0
Phosphate PO_4^{---}			
Calcium Ca^{++}	37	1.25	3.89
Magnesium Mg^{++}	11	0.90	
Iron Fe^{++}	0.2	0.01	
Manganese Mn^{++}	0.02	0.00	
Ammonium NH_4^+	0	0	
Sodium Na^+	26	1.13	
Potassium K^+			
Silica SiO_2		3.29	
pH value	7.4		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	137		
Hardness Temporary CaCO_3	127		
Hardness Permanent CaCO_3	10		
Conductivity 25 °C mikro S/cm	370		
Temperature °C			
Total alkalinity	153		

Date of sampling	23.10.81
Date of analysis	17.11.81
Remarks	<i>Sample taken during pump test run</i>

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Mbozi</i>	Village: <i>Mpemba</i>	BH no <i>??/81</i>
			CCKK no <i>MO2</i>

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>415</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>397</i>		<i>6.51</i>
Sulphate SO_4^{--}	<i>6</i>		<i>0.13</i>
Chloride Cl^-	<i>2</i>		<i>0.06</i>
Flouride F^-	<i>0.6</i>		<i>0.03</i>
Nitrate NO_3^-	<i><0.01</i>		<i>0.00</i>
Nitrite NO_2^-	<i>0.01</i>		<i>0.00</i>
Phosphate PO_4^{--}	<i><0.01</i>		<i>0.00</i>
Calcium Ca^{++}	<i>56</i>	<i>2.80</i>	<i>6.73</i>
Magnesium Mg^{++}	<i>35</i>	<i>2.82</i>	
Iron Fe^{++}	<i>0.35</i>	<i>0.01</i>	
Manganese Mn^{++}	<i>0.24</i>	<i>0.01</i>	
Ammonium NH_4^+	<i>0.15</i>	<i>0.01</i>	
Sodium Na^+	<i>26</i>	<i>1.12</i>	
Potassium K^+	<i>13</i>	<i>0.33</i>	
Silica SiO_2	<i>37</i>	<i>7.17</i>	
pH value	<i>7.11</i>		
Carbon dioxide, free CO_2	<i>26</i>		
Carbon dioxide, aggressive CO_2	<i>0</i>		
Hardness Total CaCO_3	<i>15.9</i>		
Hardness Temporary CaCO_3	<i>15.9</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>557</i>		
Temperature °C			
Total alkalinity			
<i>Sodium bicarbonate</i> NaHCO_3	<i>67</i>		
<i>Permanganate, number</i>	<i>2.0</i>		

Date of sampling	<i>08.10.81</i>
Date of analysis	<i>09.11.81</i>
Remarks	<i>Clear and colourless, with a precipitate</i>
	<i>Sample taken during pump testing</i>

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Mbeya</i>	Village: <i>Ithowelo</i>	BH no <i>205/21</i> CCKK no <i>MS 24</i>
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CONSTITUENT	mg/l	meq/l	
		Cations	Anions
Total dissolved solids	<i>607</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>226</i>		<i>11.90</i>
Sulphate SO_4^{--}	<i>10</i>		<i>0.02</i>
Chloride Cl^-	<i>20</i>		<i>2.56</i>
Flouride F^-	<i>11</i>		<i>0.76</i>
Nitrate NO_3^-	<i>0.61</i>		<i>0.01</i>
Nitrite NO_2^-	<i>0</i>		<i>0</i>
Phosphate PO_4^{--}			
Calcium Ca^{++}	<i>27.6</i>	<i>1.38</i>	<i>12.55</i>
Magnesium Mg^{++}	<i>3.8</i>	<i>0.31</i>	
Iron Fe^{++}	<i>0</i>	<i>0</i>	
Manganese Mn^{++}	<i>0</i>	<i>0</i>	
Ammonium NH_4^+	<i>0</i>	<i>0</i>	
Sodium Na^+	<i>248</i>	<i>10.78</i>	
Potassium K^+			
Silica SiO_2		<i>12.47</i>	
pH value	<i>7.7</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>85</i>		
Hardness Temporary CaCO_3	<i>85</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>1000</i>		
Temperature °C			
Total alkalinity	<i>595</i>		

Date of sampling	<i>10.10.21</i>
Date of analysis	<i>18.11.21</i>
Remarks	<i>Sample taken during pump servicing</i>

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Mbeya</i>	Village: <i>Luhanga</i>	BH no <i>208/21</i>
			CCKK no <i>MS 20</i>

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>1026</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>831</i>		<i>13,62</i>
Sulphate SO_4^{--}	<i>3</i>		<i>0,06</i>
Chloride Cl^-	<i>4</i>		<i>0,11</i>
Flouride F^-	<i>5,7</i>		<i>0,30</i>
Nitrate NO_3^-	<i><0,01</i>		<i>0,02</i>
Nitrite NO_2^-	<i><0,01</i>		<i>0,02</i>
Phosphate PO_4^{---}	<i>1,06</i>		<i>0,03</i>
Calcium Ca^{++}	<i>6</i>	<i>0,30</i>	<i>14,12</i>
Magnesium Mg^{++}	<i><1</i>	<i><0,08</i>	
Iron Fe^{++}	<i>0,41</i>	<i>0,01</i>	
Manganese Mn^{++}	<i>0,042</i>	<i>0,00</i>	
Ammonium NH_4^+	<i><0,01</i>	<i>0,00</i>	
Sodium Na^+	<i>390</i>	<i>16,96</i>	
Potassium K^+	<i>5,2</i>	<i>0,13</i>	
Silica SiO_2	<i>23</i>	<i>17,48</i>	
pH value	<i>7,93</i>		
Carbon dioxide, free CO_2	<i>0</i>		
Carbon dioxide, aggressive CO_2	<i>0</i>		
Hardness Total CaCO_3	<i>1,2</i>		
Hardness Temporary CaCO_3	<i>1,2</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>1290</i>		
Temperature °C			
Total alkalinity			
<i>Sodium bicarbonate</i> NaHCO_3	<i>1125</i>		
<i>Permanganate number</i>	<i>1,4</i>		

Date of sampling	<i>09.10.81</i>
Date of analysis	<i>09.11.81</i>
Remarks	<i>Clear and colourless, with a precipitate</i> <i>Sample taken during sunning test</i>

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Mbeya</i>	Village: <i>Ukwakeri</i>	BH no <i>209/81</i> CCKR no <i>MS 22</i>
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CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>660</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>630</i>		<i>10,32</i>
Sulphate SO_4^{--}	<i>2,4</i>		<i>0,05</i>
Chloride Cl^-	<i>18</i>		<i>0,51</i>
Flouride F^-	<i>4,5</i>		<i>0,24</i>
Nitrate NO_3^-	<i>1,8</i>		<i>0,03</i>
Nitrite NO_2^-	<i>0</i>		<i>0</i>
Phosphate PO_4^{--}			
Calcium Ca^{++}	<i>54,4</i>	<i>2,71</i>	<i>11,15</i>
Magnesium Mg^{++}	<i>3,4</i>	<i>0,28</i>	
Iron Fe^{++}	<i>0</i>	<i>0</i>	
Manganese Mn^{++}	<i>0</i>	<i>0</i>	
Ammonium NH_4^+			
Sodium Na^+	<i>182</i>	<i>7,91</i>	
Potassium K^+			
Silica SiO_2		<i>10,90</i>	
pH value	<i>7,5</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>150</i>		
Hardness Temporary CaCO_3	<i>150</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>1100</i>		
Temperature °C			
Total alkalinity	<i>516</i>		

Date of sampling	<i>10.10.81</i>
Date of analysis	<i>17.11.81</i>
Remarks	<i>Sample taken into p.m. testing</i>

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Mbeya</i>	Village: <i>Vwawa</i>	BH no <i>226/21</i>
			CCKR no <i>MD 1</i>

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>366</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>366</i>		<i>6,00</i>
Sulphate SO_4^{--}	<i>10</i>		<i>2,21</i>
Chloride Cl^-	<i>43</i>		<i>1,21</i>
Flouride F^-	<i>0,4</i>		<i>0,02</i>
Nitrate NO_3^-	<i>2,48</i>		<i>0,24</i>
Nitrite NO_2^-	<i>0</i>		<i>0,00</i>
Phosphate PO_4^{--}			
Calcium Ca^{++}	<i>252</i>	<i>1,26</i>	<i>7,48</i>
Magnesium Mg^{++}	<i>15</i>	<i>1,23</i>	
Iron Fe^{++}	<i>0</i>	<i>0</i>	
Manganese Mn^{++}	<i>0</i>	<i>0</i>	
Ammonium NH_4^+	<i>0</i>	<i>0</i>	
Sodium Na^+	<i>115</i>	<i>5,00</i>	
Potassium K^+			
Silica SiO_2		<i>7,49</i>	
pH value	<i>7,8</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>126</i>		
Hardness Temporary CaCO_3	<i>126</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>610</i>		
Temperature °C			
Total alkalinity	<i>300</i>		

Date of sampling	<i>07.10.81</i>
Date of analysis	<i>18.11.81</i>
Remarks	<i>Sample taken under same conditions</i>

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Mbeya</i>	Village: <i>Ubaruku</i>	BH no —
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>240</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>239</i>		<i>3,92</i>
Sulphate SO_4^{--}	<i>0</i>		<i>0</i>
Chloride Cl^-	<i>0</i>		<i>0</i>
Flouride F^-	<i>0,84</i>		<i>0,04</i>
Nitrate NO_3^-	<i>0,2</i>		<i>0,02</i>
Nitrite NO_2^-	<i>0,005</i>		<i>0,00</i>
Phosphate PO_4^{--}			
Calcium Ca^{++}	<i>20,2</i>	<i>1,04</i>	<i>3,96</i>
Magnesium Mg^{++}	<i>12,0</i>	<i>1,09</i>	
Iron Fe^{++}	<i>0,1</i>	<i>0,00</i>	
Manganese Mn^{++}			
Ammonium NH_4^+	<i>0,3</i>	<i>0,02</i>	
Sodium Na^+	<i>43</i>	<i>1,87</i>	
Potassium K^+			
Silica SiO_2		<i>3,93</i>	
pH value	<i>8,1</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>100</i>		
Hardness Temporary CaCO_3	<i>100</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>400</i>		
Temperature °C			
Total alkalinity	<i>196</i>		

Date of sampling	<i>30.10.79</i>
Date of analysis	
Remarks <i>Puz well, Mbalili farm</i>	

CHEMICAL ANALYSIS FORM

Region: <i>Miguna</i>	District: <i>Chunya</i>	Village: <i>Saz</i>	BH no. —
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>460</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>672</i>		<i>11,02</i>
Sulphate SO_4^{--}	<i>0</i>		<i>0</i>
Chloride Cl^-	<i>3,5</i>		<i>0,10</i>
Flouride F^-	<i>2,1</i>		<i>0,11</i>
Nitrate NO_3^-	<i>0</i>		<i>0</i>
Nitrite NO_2^-	<i>0</i>		<i>0</i>
Phosphate PO_4^{--}			
Calcium Ca^{++}	<i>23</i>	<i>1,15</i>	<i>11,23</i>
Magnesium Mg^{++}	<i>36,5</i>	<i>3,00</i>	
Iron Fe^{++}			
Manganese Mn^{++}			
Ammonium NH_4^+	<i>0</i>	<i>0</i>	
Sodium Na^+	<i>155</i>	<i>7,05</i>	
Potassium K^+			
Silica SiO_2		<i>11,20</i>	
pH value	<i>8,7</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>204</i>		
Hardness Temporary CaCO_3	<i>204</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>655</i>		
Temperature °C			
Total alkalinity	<i>552</i>		

Date of sampling	<i>25.06.29</i>
Date of analysis	
Remarks <i>Ring well</i>	

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Chunya</i>	Village: <i>Iteve</i>	BH no —
			CCKR no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	430		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	332		5.44
Sulphate SO_4^{--}	34.5		0.72
Chloride Cl^-	14.9		0.42
Flouride F^-	0.8		0.04
Nitrate NO_3^-	0		0
Nitrite NO_2^-	0		0
Phosphate PO_4^{--}			
Calcium Ca^{++}	22.6	1.13	6.62
Magnesium Mg^{++}	40.5	3.33	
Iron Fe^{++}	0	0	
Manganese Mn^{++}			
Ammonium NH_4^+	0	0	
Sodium Na^+	50.0	2.17	
Potassium K^+			
Silica SiO_2		6.63	
pH value	8.2		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	216		
Hardness Temporary CaCO_3	216		
Hardness Permanent CaCO_3	0		
Conductivity 25 °C mikro S/cm	700		
Temperature °C			
Total alkalinity	272		

Date of sampling	26.06.99
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Chunya</i>	Village: <i>Natura</i>	BH no -
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>460</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>294</i>		<i>4,82</i>
Sulphate SO_4^{--}	<i>22,6</i>		<i>0,47</i>
Chloride Cl^-	<i>40</i>		<i>1,12</i>
Flouride F^-	<i>0,92</i>		<i>0,05</i>
Nitrate NO_3^-	<i>0</i>		<i>0</i>
Nitrite NO_2^-	<i>0,001</i>		<i>0,00</i>
Phosphate PO_4^{--}			
Calcium Ca^{++}	<i>5,6</i>	<i>0,28</i>	<i>6,46</i>
Magnesium Mg^{++}	<i>47</i>	<i>3,87</i>	
Iron Fe^{++}	<i>0</i>	<i>0</i>	
Manganese Mn^{++}	<i>0</i>	<i>0</i>	
Ammonium NH_4^+	<i>0</i>	<i>0</i>	
Sodium Na^+	<i>50</i>	<i>2,12</i>	
Potassium K^+			
Silica SiO_2		<i>6,32</i>	
pH value	<i>8,5</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>202</i>		
Hardness Temporary CaCO_3	<i>202</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>655</i>		
Temperature °C			
Total alkalinity	<i>242</i>		

Date of sampling	<i>22.06.79</i>
Date of analysis	
Remarks	

CHEMICAL ANALYSIS FORM

Region: <i>Mbeya</i>	District: <i>Mbeya</i>	Village: <i>Rujewa</i>	BH no —
			CCKK no

CONSTITUENT	mg/l	meq/l	
		Kations	Anions
Total dissolved solids	<i>140</i>		
Carbonate CO_3^{--}			
Bicarbonate HCO_3^-	<i>108</i>		<i>1,72</i>
Sulphate SO_4^{--}	<i>40</i>		<i>2,83</i>
Chloride Cl^-	<i>13</i>		<i>0,36</i>
Flouride F^-	<i>0,5</i>		<i>0,03</i>
Nitrate NO_3^-			
Nitrite NO_2^-			
Phosphate PO_4^{--}			
Calcium Ca^{++}	<i>24</i>	<i>1,20</i>	<i>2,99</i>
Magnesium Mg^{++}	<i>0,5</i>	<i>0,04</i>	
Iron Fe^{++}	<i>0,07</i>	<i>0,00</i>	
Manganese Mn^{++}			
Ammonium NH_4^+			
Sodium Na^+	<i>44</i>	<i>1,91</i>	
Potassium K^+			
Silica SiO_2		<i>3,15</i>	
pH value	<i>7,9</i>		
Carbon dioxide, free CO_2			
Carbon dioxide, aggressive CO_2			
Hardness Total CaCO_3	<i>62</i>		
Hardness Temporary CaCO_3	<i>62</i>		
Hardness Permanent CaCO_3	<i>0</i>		
Conductivity 25 °C mikro S/cm	<i>200</i>		
Temperature °C			
Total alkalinity	<i>90</i>		

Date of sampling	<i>27.10.79</i>
Date of analysis	
Remarks	<i>Ring well</i>