

TOPOGRAPHIC SURWEY DATA

SPEE VAUL

JAPAN INTERNATIONAL COOPERATION AGENCY

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REPUBLIC OF KENYA

MINISTRY OF WATER DEVELOPMENT

THE STUDY ON THE NATIONAL WATER MASTER PLAN

DATA BOOK (DB.4)

TOPOGRAPHIC SURVEY DATA

JULY 1992

JAPAN INTERNATIONAL COOPERATION, AGENCY

LIST OF REPORTS

EXECUTIVE SUMMARY

MAIN REPORT

- 1. Vol.1 Water Resources Development and Use Plan towards 2010
- 2. Vol.2 Master Action Plan towards 2000

Part 1: National Water Master Action Plan

3. Vol.3 Master Action Plan towards 2000
Part 2: Action Plan by Province/District

SECTORAL REPORT

- 1. A Socio-economy
- 2. B Hydrology
- 3. C Groundwater Resources
- 4. D Domestic and Industrial Water Supply
- 5. E Agriculture and Irrigation
- 6. F Livestock, Wildlife and Fishery
- 7. G Flood Control Plan
- 8. H Dam Development Plan
- 9. J Dam Geology
- 10. K Topographic Survey of 11 Damsites
- 11. L Power Development Plan
- 12. M Integrated Water Resources Development Planning
- 13. N Environmental Conservation
- 14. P Laws and Institutions
- 15. Q Database
- 16. R Remote Sensing Analysis
- 17. S GIS-based Analysis

DATABOOK

- 1. DB.1 Hydrological Data (Study Supporting Data)
- 2. DB.2 Groundwater Data (Aquifer Test and Well Survey)
- 3. DB.3 Groundwater Data (Study Supporting Data)
- 4. DB.4 Topographic Survey Data
- 5. DB.5 Inventory of Irrigation/Drainage Schemes
- 6. DB.6 Project Sheet for Urban Water Supply

PREFACE

Administrative Division of Districts

In this Study, the original 41 districts were considered and various statistical data, particularly socio-economic information, were collected for these districts. During the progress of the Study, six districts were were detached from the original ones and established as new districts. In the report, the data on these new districts are grouped together with the corresponding original districts as shown below.

	Original Districts	New Districts	Data included in:
1.	Machakos	Makueni	Machakos/Makueni
2.	Kisii	Nyamira	Kisii/Nyamira
3.	Kakamega	Vihiga	Kakamega/Vihiga
4.	Meru	Tharaka-Nithi	Meru/Tharaka-Nithi
5.	Kericho	Bomet	Kericho/Bomet
6.	South Nyanza	Migori	South Nyanza/Migori

(Note: The last three Districts were established very recently.

The report refers only to the names of the original 41 districts.)

The administrative boundary map used in this Study is the latest complete map set covering the whole country (41 Districts, 233 Divisions and 976 Locations), prepared in 1986 by the Survey of Kenya, Ministry of Land and Housing.

Data and Information

The data and information contained in the report represent those collected in the 1990-1991 period from various documents and reports made available mostly from central government offices in Nairobi and/or those analyzed in this Study based on the collected data. Some of them may be different from those kept in files at some agencies and regional offices. Such discrepancies if any should be collated and adjusted as required in further detailed studies of the relevant development projects.

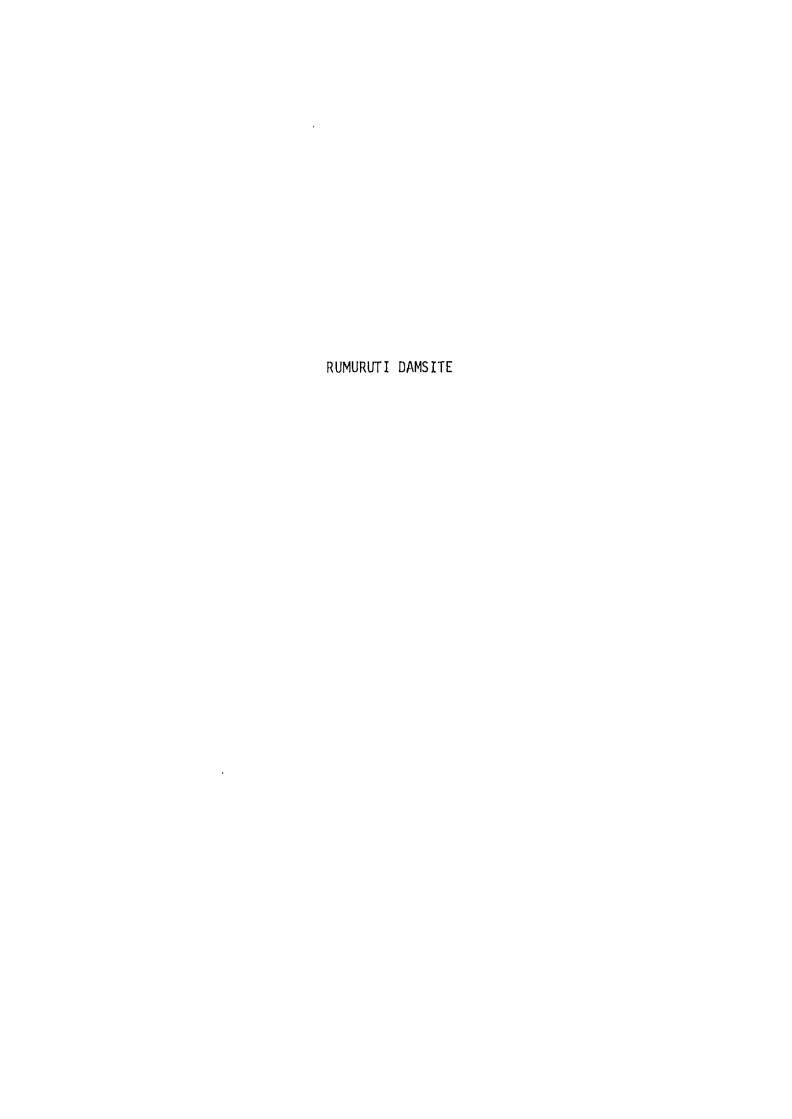
THE STUDY ON THE NATIONAL WATER MASTER PLAN

DATABOOK: DB.4 HYDROLOGICAL DATA (SUPPORTING DATA)

TABLE OF CONTENTS

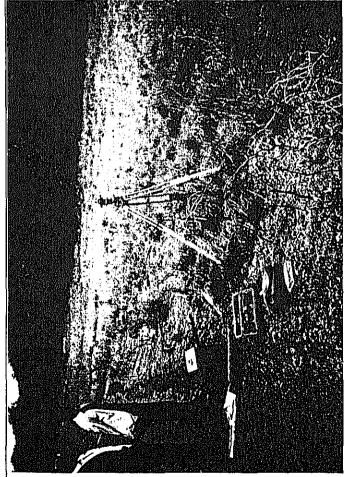
		Page
I.	SURVEY MARK DESCRIPTION OF PROPOSED 11 DAMSITES	1-1
II.	SURVEY MARK DESCRIPTION OF HEIGHT POINTS	2-1
III.	PHOTO OF SUVEY WORKS	3-1

PART I: SURVEY MARK DESCRIPTION OF PROPOSED 11 DAMSITES



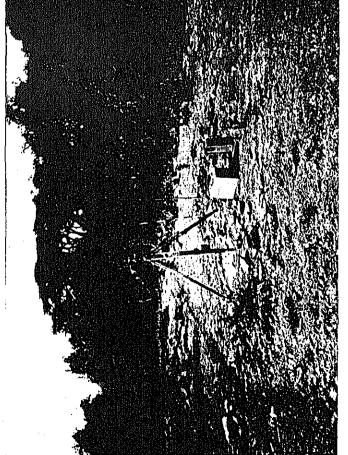
SURVEY MARK DESCRIPTION RUMURUTI DAMSITE.

COUNTRY: KENYA	JOB No. J1061	POINT No.
TYPE: TRAVERSE	DESCRIPTION: HOLE IN ROCK	РНОТО NO. 1021
1:50,000 MAP SHEET No. 105/4	DATE: 26-10-1990	SURVEYOR: MATTSSON
NORTHING: 16681.71	EASTING: 216 507.18	HEIGHT: 2001.43
5 - ROCK A = 1.25 M.	CATTLE PATH CATTL	





SURVEY MARK DESCRIPTION RUMURUTI DAMSITE JOB No. J1061 KENYA COUNTRY: POINT No. TRAVERSE DESCRIPTION: HOLE IN ROCK TYPE: 1021 PHOTO NO. 1:50,000 MAP SHEET No. DATE: 26-10-1990 SURVEYOR: MATTSSON NORTHING: 16565.68 216 480.04 2001.76 EASTING: HEIGHT: LOCATION DIAGRAM BUSH 6 - SMALL TREE A = 10 M.





OUNTRY:	KENYA	JOB No.	J1061	POINT No.	R1
	LE POINT	DESCRIPTION	I.P.C.	РНОТО NO.	1021
MAP SHEET No.	1:50,000 105/4	DATE:	26-10-1990	SURVEYOR:	MATTSSON
NORTHING:	16527.11	EASTING:	216 471.05	HEIGHT:	2002.06
FOREST	R1	Rocks	TATUE PATHS CATTLE PATHS		A = 13.8 M. = 1.7 M.

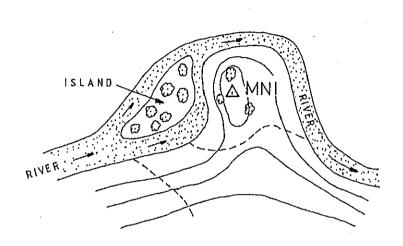
COUNTRY: KENYA	JOB No.	J1061		POINT No	<u>L1</u>
TYPE: PROFILE POINT	DESCRIPTIO	N: I	.P.C.	РНОТО NO.	1021
1:50,000 MAP SHEET No. 105/4	DATE:	26-10-	1990	SURVEYOR:	MATTSSON
NORTHING: 16 524.83	EASTING:			HEIGHT:	
FOREST FOREST FOREST	EWASO NABOK	PINER P	2.2 m –	_∆ R1	



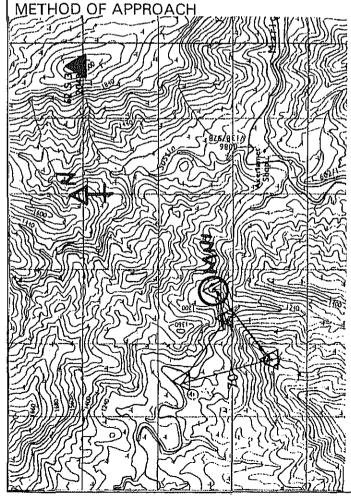
COUNTRY: KENYA JOB No. J1061 POINT No. MNI

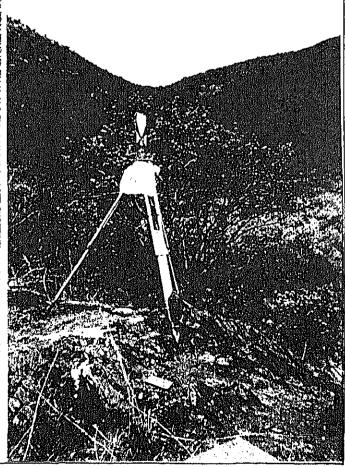
TYPE: TRAVERSE DESCRIPTION: I.P.C. 9980 PHOTO NO. MAP SHEET No. Y731-62/4 NOV. 1990 KARIOKI DATE: SURVEYOR: NORTHING: 170 225.00 EASTING: 766 750.00 1120.00 HEIGHT:

LOCATION DIAGRAM



MN1 IS AN IRON PIN IN CONCRETE ON SMALL HILL ACROSS THE RIVER FROM SMALL ISLAND





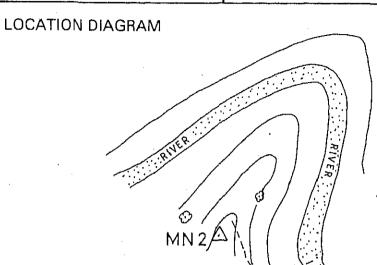
SURVEY MARK DESCRIPTION MORUN DAMSITE

 COUNTRY:
 KENYA
 JOB No.
 J1061
 POINT No.
 MN 2

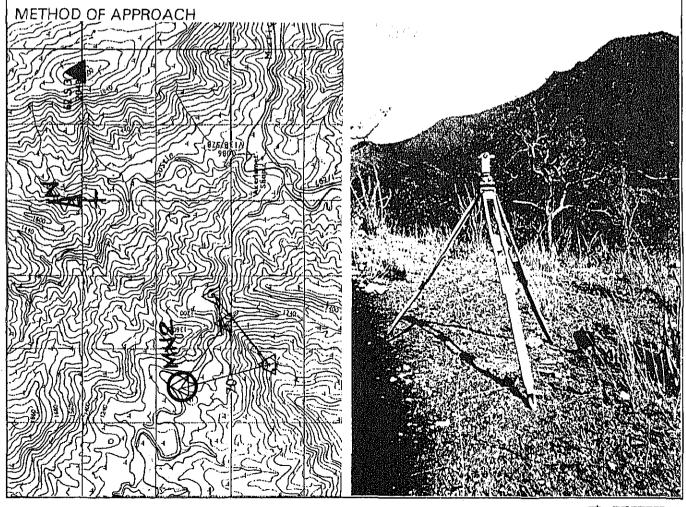
 TYPE:
 TRAVERSE
 DESCRIPTION: I.P.C.
 PHOTO NO.
 9980

 MAP SHEET No.
 Y731-62/4
 DATE:
 NOV. 1990
 SURVEYOR:
 KARIOKI

 NORTHING:
 170 554.42
 EASTING:
 765 360.65
 HEIGHT:
 1175.77



MN2 IS AN IRON PIN IN CONCRETE BUT IS NOT ON HIGHEST GROUND.

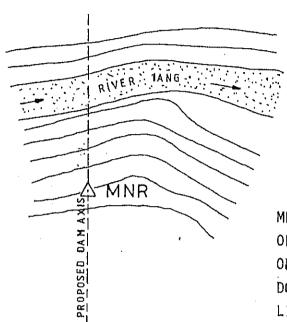


SURVEY MARK DESCRIPTION

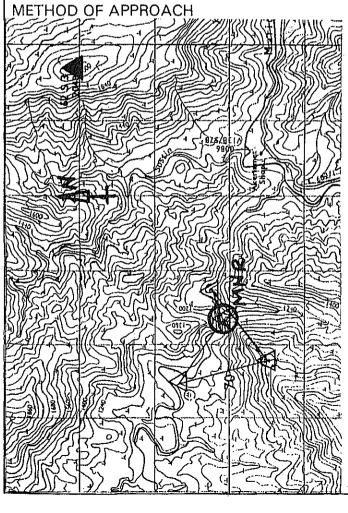
MORUN DAMSITE

COUNTRY: KENYA	JOB No. K1061	POINT No.	MNR
TYPE: TRAVERSE	DESCRIPTION: I.P.C.	РНОТО NO.	9980
MAP SHEET No. Y731-62/4	DATE: NOV. 1990	SURVEYOR:	KARIOKI
NORTHING: 170 087.69	EASTING: 766 334.53	HEIGHT: 1	146.67

LOCATION DIAGRAM



MNR IS AN IRON PIN IN CONCRETE
ON STEEP SLOPE TO THE RIGHT
OF RIVER IANG WHEN FACING
DOWNSTREAM. IT IS ON THE
LINE OF PROPOSED DAM AXIS.





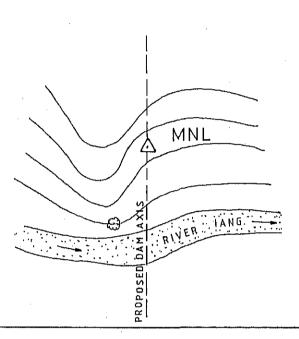


SURVEY MARK DESCRIPTION MORUN DAMSITE

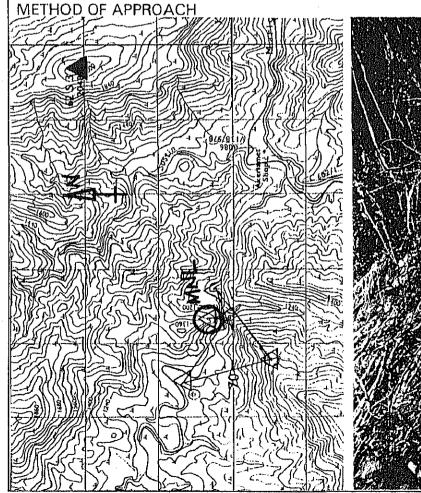
COUNTRY: KENYA JOB No. J1061 POINT No. MNL

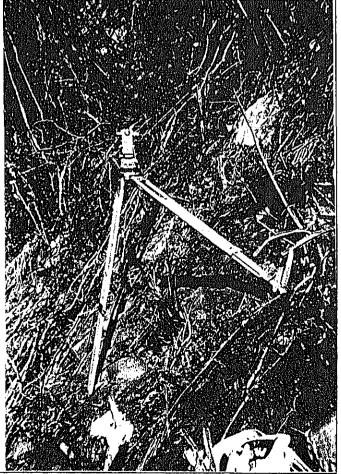
TYPE: TRAVERSE	DESCRIPTION: I.P.C.	РНОТО NO.
MAP SHEET No. Y731-62/4	DATE: NOV. 1990	SURVEYOR: KARIOKI
NORTHING: 170 189.01	EASTING: 766 315.96	неіднт: 1155.48

LOCATION DIAGRAM



MNL IS AN IRON PIN IN CONCRETE ON STEEP SLOPE ALONG THE LINE OF PROPOSED DAM AXIS AND TO THE LEFT WHEN FACING DOWNSTREAM.



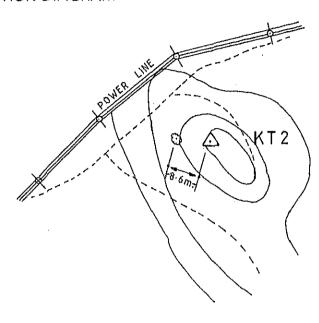


KATIENO DAMSITE

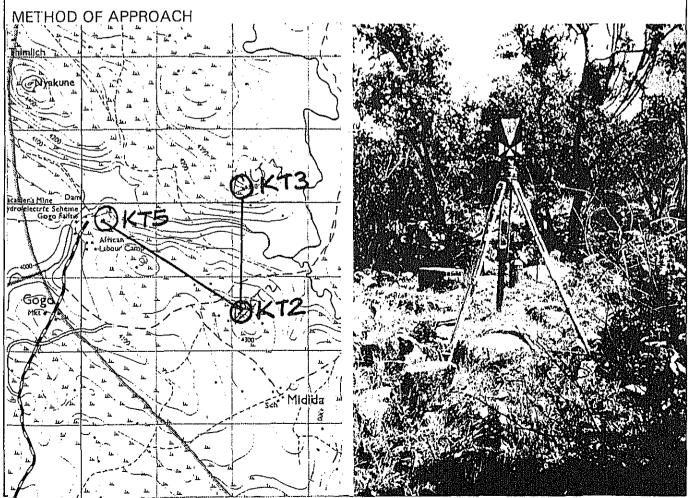
COUNTRY: KENYA JOB No. J1061 POINT No. K T 2

TYPE: TRAVERSE	DESCRIPTION: HOLE IN ROCK	РНОТО NO.
MAP SHEET No.	DATE: NOV. 1990	SURVEYOR: J. KARIOKI
NORTHING: 9 898 424.44	EASTING: 652 120.435	HEIGHT: 1321.99

LOCATION DIAGRAM



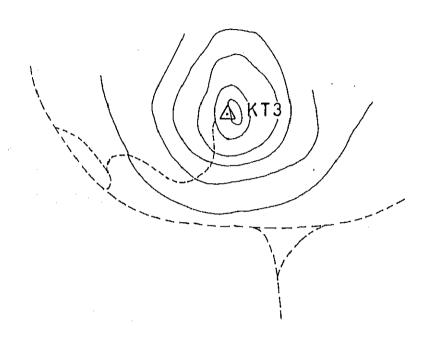
KT2 IS A HOLE IN ROCK ABOUT 1.5 CM. DEEP AND A WHITE CIRCLE PAINTED AROUND IT IN GLOSS PAINT

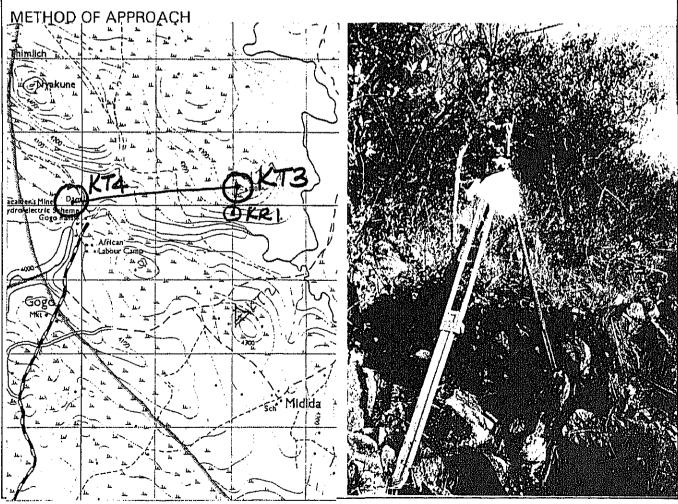


COUNTRY: KENYA JOB No. J1061 POINT No. K.T.3

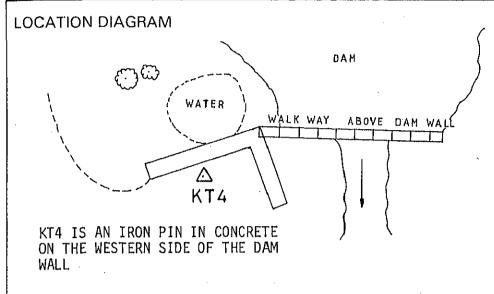
TYPE: TRAVERSE	IRON PIN IN CONCRETE	РНОТО NO.
MAP SHEET No.	DATE: NOV. 1990	SURVEYOR: J. KARIOKI
NORTHING: 9 900 285.98	EASTING: 652 014,29	ныднт: 1330.28

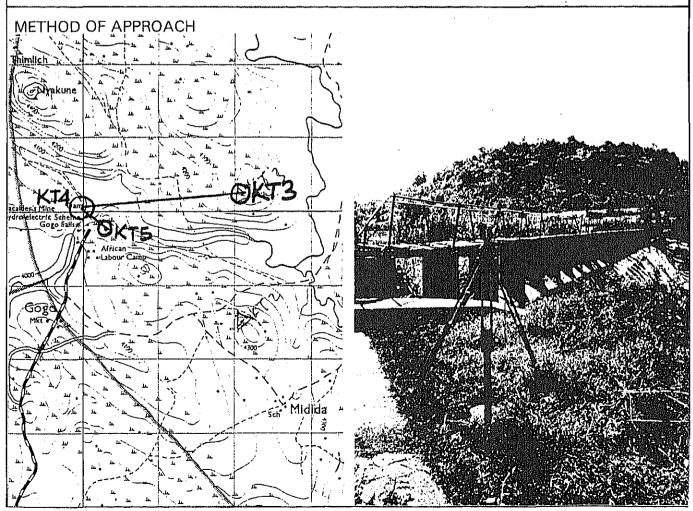
LOCATION DIAGRAM





COUNTRY: KENYA JOB No. J1061 POINT No. KT4 IPC TRAVERSE TYPE: DESCRIPTION: PHOTO NO. SURVEYOR: J. KARIOKI NOV. 1990 DATE: MAP SHEET No. HEIGHT: 1234.44 NORTHING: 9 900 050.00 EASTING: 650 000.00

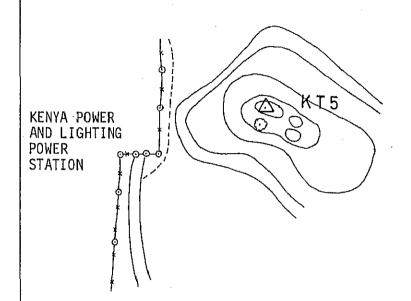




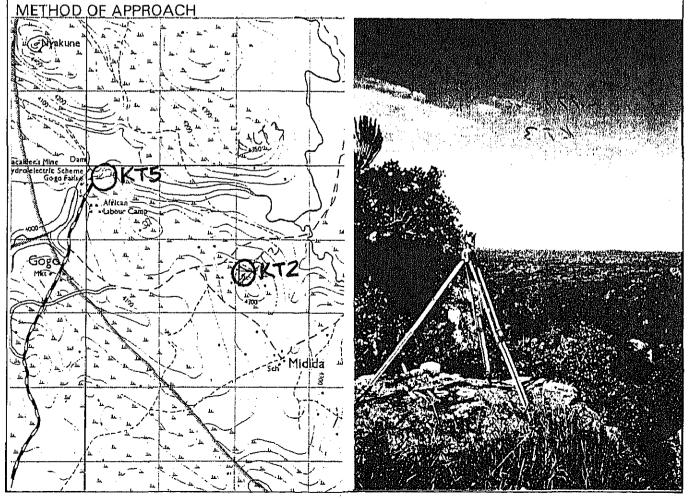
COUNTRY: KENYA JOB No. J1061 POINT No. KT 5

TYPE: TRAVERSE	DESCRIPTION: HOLE IN ROCK	РНОТО NO.	
MAP SHEET No.	DATE: NOV. 1990	SURVEYOR: J. KARIOKI	
NORTHING: 9 899 791.10	EASTING: 650 282.55	HEIGHT: 1298.23	

LOCATION DIAGRAM

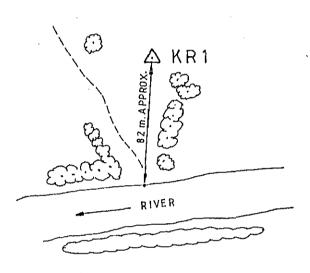


KT5 IS A HOLE IN ROCK ABOUT 3 CM. DEEP WITH A WHITE CIRCLE PAINTED AROUND IT IN GLOSS PAINT

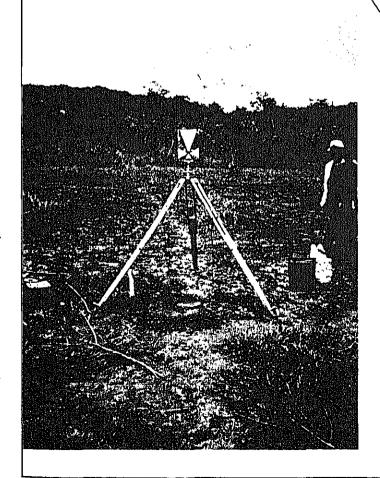


COUNTRY: KENYA JOB No. J1061 POINT No. KR 1 TRAVERSE IPC TYPE: DESCRIPTION: PHOTO NO. SURVEYOR: J. KARIOKI MAP SHEET No. DATE: NOV. 1990 EASTING: 651 841.37 NORTHING: 9 899 817.24 HEIGHT: 1241.80

LOCATION DIAGRAM



KR1 IS AN IRON PIN IN CONCRETE NEAR SMALL BUSH ABOUT 82 METERS FROM EDGE OF RIVER ALONG PROFILE LINE OF PROPOSED KATIENO DAM



OUNTRY: KENYA	JOB No. J 1061	POINT No. KL1
TYPE: TRAVERSE	DESCRIPTION: IPC	РНОТО NO.
MAP SHEET No.	DATE: NOV. 1990	SURVEYOR: J. KARIOKI
NORTHING: 9 899 458.28	EASTING: 651 774.99	HEIGHT: 1240.75
LOCATION DIAGRAM	RIVER GRASS GRASS GRASS GRASS GRASS GRASS GRASS GRASS GRASS GRASS	KL1 IS AN IRON PIN IN CONCRETE ABOUT 250 METERS FROM EDGE OF RIVER ALONG PROFILE LINE OF PROPOSED KATIENO DAM

