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PART 1. GENERAL

(No. plates)

EAST AND WEST SEPIK DISTRICT WATER SUPPLY SURVEY

by

J.R.L. Read

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(IN THREE VOLUMES)

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PART II. DETAILED RECOMMENDATIONS, WEST SEPIK DISTRICT

PART III. DETAILED RECOMMENDATIONS, EAST SEPIK DISTRICT.

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PART I. GENERAL

Contents

	Page
SUMMARY	1
INTRODUCTION	2
METHOD OF WORK	4
TYPES OF SCHEMES	5
Dug Wells and Spear Points	5
Rainwater Catchments	6
Drilled Bores and Gravity Schemes	7
WATER SUPPLY PROBLEMS - COUNCIL AREAS	8
Vanimo Council	8
Pagei Council	8
Walsa Council	8
Green River Council	9
Siau Council	9
Makru Klaplei Census Division	10
Wapei Council	10
May River, Wongamusen, Upper Sepik and Main River Census Divisions	10
Gaui Council	11
Alanblak and Karawari Census Divisions and Biwat Council	12
Keram Council	12
Wewak But Council	12
Saussia Council	13
Yangoru Council	14
Dreikikir Council	14
Greater Maprik Council	14
Wosera Council and Sepik Plains Census Division	15
CONCLUSIONS	16
RECOMMENDATIONS	18
REFERENCES	19

APPENDICES:

I. Itinerary

II. Sample of Village Report

III. Summary of Recommendations for Councils

IV. Modified Sanitary Shallow Well and Instructions for Installation.

V. Sanitary Water Well. Fibreglass Liner for Flood Areas and Instructions for Installation.

VI. Sanitary Water Spear and Instructions for Installation.

PLATE I. Sepik District. Location of Villages Visited.

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RECORDS 1967/31

PART II. DETAILED RECOMMENDATIONS, WEST SEPIK DISTRICT.

Contents

Vanimo Council	Vanimo Sub-District
Pagei Council	Pagei Sub-District
Walsa Council, Green River Council	Amanab Sub-District
Siau Council	Aitape Sub-District
Makru Klaplei Census Division, Wapei Council	Lumi Sub-District
May River, Wangamusen, Upper Sepik and Main River Census Divisions, Gaui Council	Ambunti Sub-District

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RECORDS 1967/31

PART III. DETAILED RECOMMENDATIONS, EAST SEPIK DISTRICT

Contents

Wewak But Council Saussia Council	Wewak Sub-District
Yangoru Council Dreikikir Council Greater Maprik Council Wosera Council Sepik Plains Census Div.	Maprik Sub-District
Alanblak and Karawari Census Divisions Biwat Council Keram Council	Angoram Sub-District
May River, Wangamusen Upper Sepik and Main River Census Divisions Gaui Council	Ambunti Sub-District

S U M M A R Y

The East and West Sepik Districts of the Territory of New Guinea support a total population of over a quarter of a million most of whom have traditionally been reliant for their water on supplies drawn from rivers, small streams, swamps and shallow soaks.

In addition to the perennial risk of pollution, there has been a shortage of water which corresponds with the dry season each year; normally between May and October.

In order to combat the inadequacy of these water supplies a survey of village water supplies in the two Districts was carried out by the Resident Geological Section, in association with the Department of Public Works and Public Health, in October and November, 1966.

In all, 142 places, representing as many types of water supply problems as could be found, were visited and 123 recommendations for water supply improvements prepared.

Problems encountered were divisible on a regional basis into five different types. They were those occurring in:-

(i) villages located on coastlines and coastal plains;
(ii) river bank villages;
(iii) villages located on coral islands;
(iv) villages located on ridge-tops; and
(v) villages located on inland plains and alluvial valleys.

In the first three cases solutions could usually be found in dug wells or, in some instances, in spear points. In the fourth case, rainwater catchments were recommended, and in the fifth it was found that either dug wells or rainwater catchments would provide a satisfactory solution.

I N T R O D U C T I O N

Situated in the northwest corner of the Territory of New Guinea, the original Sepik District, which has recently been divided for administrative purposes into an East and a West District, supports a total population of 258,592. (Plate 1). The densest population is found along the coast and coastal plains, in the valleys and along the ridges on the inland side of the Torricelli and Prince Alexander Ranges, and along the banks of the Sepik River and its major tributaries. The swampy valleys along the West Irian Border and the vast expanse of flood plain forest on either side of Sepik River are sparsely populated.

Throughout the Districts the villagers have traditionally used surface water, from rivers, small streams, swamps and shallow soaks, for their water supply. All these sources are extremely prone to pollution. With the advent of European settlement there has been an increase in the amount of water obtained from rain-water catchments but, by and large, there is each year, in addition to the risk of pollution, a shortage of water which corresponds to the dry season.

The duration of the dry season varies from place to place throughout the Districts but generally occurs between May and October. The driest areas are found along the coast and in the Sepik Plains. Average rainfall in these areas is about 80 inches, some 70 inches of which fall during the wet season. In the coastal and inland ranges, and along the border areas, average rainfall varies from 100 to 250 inches. Generally the higher the average the more evenly the rainfall is spread throughout the year and the risk of drought is diminished.

With the development of the Territory of Papua and New Guinea there has been a rapidly increasing demand for adequate water supplies. To help meet this demand, and to ensure that the type of supply best suited to the conditions in each particular locality is installed, it was decided in late 1965 to carry out a District by District survey of village water supply problems throughout the Territory.

The first of these surveys was carried out in the Milne Bay District in March and April, 1966 (MacGregor, 1966). Because of the poor standard of existing water supplies, and the risk of pollution of the water supplies by water-borne diseases prevalent in West Irian, a high priority was given to the Sepik District and a survey was carried out in October and November, 1966.

The survey was carried out by a team consisting of Mr. J.R.L. Read, Engineering Geologist, Resident Geological Section,

3/..... Mr. J. Lee,

Mr. J. Lee, Local Government Council Engineer, Department of Public Works and Mr. E.Y. Smith, Health Inspector, Department of Public Health. The survey was carried out in two parts, the first between October 1 and October 22, covering the Vanimo, Pagei, Amanab, Aitape, Lumi and parts of the Wewak sub-districts, and the second between November 7 and November 28 in the Wewak, Maprik, Ambunti and Angoram sub-districts.

In all 142 places were visited and recommendations for water supply improvements were prepared for 120 villages, 2 Agricultural Stations and 1 Mission Station. The installations recommended included 102 dug wells, 11 spear points, 30 rainwater catchments, and alternative recommendations for four pumped or gravity schemes and two areas of borehole development.

Whenever possible the team was accompanied by the local representative of the Department of District Administration and the Local Government Councillor for the area.

No attempt was made by the team to visit every village in the District, the main purpose being to visit as many types of water supply problems as could be found. Officers from the Department of District Administration, together with the Local Government Councillors, should be able to apply the type recommendations to villages which the team did not visit.

The detailed programme of the survey and the provision of transport was arranged by the District Commissioners in Wewak and Vanimo. In addition, when in the Angoram and Ambunti Sub-Districts, use was made of a turbocraft jet boat, belonging to the Bureau of Mineral Resources, for rapid transport along the Sepik River and its tributaries.

4/..... METHOD OF WORK

METHOD OF WORK

Prior to the commencement of the survey details of the location, population, rainfall, and present water supply of each village to be visited was forwarded to the Geological Office in Port Moresby.

On arrival in each village the first step was the inspection of the present water supply. In coastal areas the salinity of the water was tested by the use of a portable conductivity meter. If the location and quality of the existing supply proved suitable, recommendations for the improvement and/or protection of the supply against pollution were prepared. If the existing supply proved to be unsuitable a survey of the area around the village was carried out to locate a site for a better supply. In some cases an auger hole was sunk to locate the depth to the water table. When a surface scheme was proposed preliminary engineering measurements were made in order to estimate quantities of materials and costs.

To assist in the future identification of the villages and sites, several photographs, which include either the Local Government Councillor or a villager, were taken. Unfortunately camera malfunction caused the loss of three films and there are no photographic records of villages or sites in the Aitape Sub-District.

Details of present supply and recommendations for improvement, which include materials lists and estimated costs, were prepared as soon as possible after leaving each village, and given to the Assistant District Commissioner of each Sub-District. Copies were also supplied to the Local Government Council and the District Commissioners at Wewak or Vanimo. At the end of the survey the original recommendations, specifications and photographs were duplicated and bound into two volumes, covering the East and West Sepik Districts. These were distributed to all bodies concerned with the survey. A sample of a typical village report and recommendation is given in Appendix II, and a summary of recommendations is given in Appendix III. Copies of standard drawings for wells and spear points, and a description of the method of construction, are given in Appendices IV to VI.

5/.... TYPES OF SCHEMES

TYPES OF SCHEMES

Although expenditure on water supply development is subsidised by the Department of Public Health, the income of the Local Government Councils is low and must be divided to cover the various requirements of the community. Therefore the main factor in determining which type of scheme should be used in a village water supply is the cost which will fall on the Council.

Under these conditions two types of scheme were considered most suitable by the survey team for use in the Sepik Districts. These were (i) dug wells, replaceable in certain areas by spear points and (ii) rainwater catchments. Only six schemes involving drilled bores or pumped storage and gravity systems were recommended and, except for two cases, these were proposed only as alternatives to dug wells.

Dug Wells and Spear Points

In localities where the water table is not more than 20 feet below the natural surface, dug wells provide the cheapest and most satisfactory method of providing a water supply. The wells can be dug by local labour, lined with concrete pipes constructed in moulds owned by the Local Government Council, sealed with a cover and fitted with a hand pump. Plans and instructions for installation of the Standard Public Health Department sanitary well are given in Appendix IV.

A recent development has been the introduction of fibreglass liners in place of concrete pipes. These liners were first introduced in wells recommended during the Milne Bay District Village Water Supply Survey and have proved most successful. The liners have the advantage of being light and easy to handle and can provide a considerable saving on costs in those inland regions of the Sepik Districts where airfreight charges are high.

Fibreglass liners have been exclusively recommended for wells in villages along the banks of the Sepik River and its tributaries where it is necessary for many wells to protrude above the surface to avoid overtopping during flood periods, and where it is likely that caving of the walls around the bottom of the well could, if concrete pipes are used, lead to total collapse of the structure. Plans and instructions for the installation of fibreglass lined wells for use in flood-prone areas are given in Appendix V..

Spear points have been recommended in place of dug wells along the Sissano Spit. The sandy aquifer in this location should be ideal for the operation of spear points and they will also be less costly to instal than dug wells.

6/..... Drawings and

Drawing and instructions for the installation of the mechanism are given in Appendix VI.

Rainwater Catchments

Rainwater catchment and storage systems were recommended in those areas where there is no good or readily usable supply of groundwater. The catchment consists of a polythene sheet erected on a wooden framework draining into a storage tank. The tank may be constructed of galvanised iron, fibreglass, polythene or concrete. Plans of the catchment can be obtained from the Local Government Council Engineer, Department of Public Works.

A problem yet to be solved is the economic provision of a storage unit which will provide sufficient water for a village during a prolonged drought. For instance, a village of 150 people consuming one gallon per person per day requires a storage of 10,000 gallons to cover a 70 day drought.

Types of storage at present available are galvanised iron tanks of capacity ranging from one to five thousand gallons and steel 'squatter' tanks which have a minimum capacity of 2000 gallons. Recent additions still under development include fibreglass tanks which are of either one or two thousand gallon capacity, polythene tanks of 10,000 gallon capacity and concrete tanks which can be constructed in capacities ranging up to 40,000 gallons.

The formwork necessary for the construction of the concrete tanks has been obtained by the Department of Public Works and they can be erected for the Council by a special construction team working under the supervision of the Local Government Council Engineer. Details of the polythene tanks have not yet been obtained but it is apparent that they will have to be installed in trenches excavated in suitable ground beside the village.

Fibreglass tanks have been extensively recommended in the Sepik Districts because of the ease of handling and airfreighting the components and also because they have the advantage of long life.

However the decision as to which type of storage is to be used will largely depend on the financial resources of the local Council. Any information required on prices, availability and technical aspects of installation can be obtained from the Local Government Council Engineer.

7/..... Drilling Bores and

Drilled Bores and Gravity Schemes

Although there are several locations where drilled bores would provide a more satisfactory water supply than the rainwater catchments recommended, the r use is rarely justifiable. The size and weight of a percussion rig make it necessary to have good access to the site. In the Sepik Districts this is rare and drilling of bores becomes impracticable.

Of the two areas where bores were recommended only one, the YAUWOSORU (56)*resettlement area is suitable. The site has an excellent access and is close to Wewak. Access to URIMO (76)* agricultural station is mainly over the old Wewak to Maprik road and it is doubtful whether it would be possible to get a rig to the station. This is one of the reasons why a supply pumped from a nearby river to a gravity reticulating system is preferred in the recommendations for the station.

Three sites for gravity schemes fed from small dams were surveyed and drawings of the proposed systems have been included with the recommendations.

*Numbers after village names refer to Plate I.

WATER SUPPLY PROBLEMS - COUNCIL AREAS

Vanimo Council.

The two villages visited are typical of all the settlements in the Vanimo Council area. Centres of population are located along the coast and are underlain by beach and dune sand and by coral which provide a good supply of fresh, clean water. Wells have already been sunk in all the villages along the coast between and including, WUTUNG (19) and VANIMO (17) under the direction of the Health Inspector, Wewak. The supply of water from these wells has been more than adequate and any difficulties encountered have been associated only with problems of installation and mechanical maintenance.

Two additional wells were recommended in WUTUNG and an alternative gravity scheme, fed from LUTON waterfall inland from the village, was surveyed. The high cost of the gravity scheme - $1000 for materials - will probably prove too costly for village financial resources.

Pagei Council

Pagei Station (10) and the villages in the surrounding area are situated in the centre of a large alluvial plain which is mostly occupied by sago swamp and similar vegetation. The water table is high and wells have been sunk successfully on Pagei Station and in the villages visited. In each case beds of sand and gravel within the silty swamp deposits act as the main aquifer. The only problem encountered was silting up of the wells which in all cases can be rectified adequately by deepening the wells and cleaning them regularly at the end of each wet season.

Walsa Council.

The villages visited in the Walsa Council area consist of a small group of hamlets (12-15) located in the hills about eight miles west of IMONDA Station (11). The hamlets are typical of those in the Walsa Council; all are situated along the tops of high, narrow ridges and are dependant entirely on surface soaks along the sides of the redges for their water supply. These soaks are easily contaminated and dry up in the dry season. The only alternative sources available are the small creeks which run around the base of the ridges and which, although never dry, are a considerable distance from the hamlets. The only practicable solution in such areas is the provision of raimwater catchment and storage. The sinking of deep bores can be ruled out on the grounds of view of both access and economics.

9/..... Green River Council

Green River Council.

GREEN RIVER Station (16) and ABARU (3) and DIERU(18) villages are situated on a broad, open grassy plain which extends from the hills to the north and northwest of the station towards the south and east where it merges with the vast area of flood plain forest on the northern side of the Sepik River. Several perennial streams flow across the plain and the groundwater table is generally high. No difficulty was experienced in locating suitable well sites, close to existing waterways, in either of the two villages visited and it is considered that the entire Green River Plains area is suitable for the development of sanitary wells.

It will be more difficult to locate well sites in the villages situated in the hill country to the north and northwest of the station. Most of the villages in this area are located on the tops of moderately high ridges and in such instances it will probably be necessary to install rainwater catchment schemes.

Siau Council.

Problems of water supply in the Siau Council can be divided into three groups (a) Aitape Islands (b) Aitape Coastal and (c) Aitape Inland.

The Aitape Islands are a group of coral islands about 2 miles offshore from AITAPE Station (30). Good supplies of fresh, clean water are available from the coral and this is being obtained by the villagers from shallow, unprotected wells. Recommendations were made for the provision of sanitary wells conveniently located to suit the population distribution. The exception is provided by ANGEL ISLAND (29), a small island close to Celeo Island where it will be necessary for the small population living on the island to draw their water from the well at CELEO No. 2 village (28).

The Aitape Coastal Villages, with the exception of SUAIN (40) east of Aitape, and PO (33), inland from Sissano Lagoon, are concentrated in an area along the Sissano sand spit. The spit is bounded on the north by the ocean and to the south by Sissano Lagoon and Sissano Barat. Shallow wells at the MALOL (31, 32 & 39) and SISSANO (35, 36 & 37) villages and an auger hole at the AROP (34) villages show that fresh water is located within two to four feet of the ground surface along the inland margin of the spit. This supply of fresh water has not, in the past, been utilised to any great extent by the villagers, who traditionally have collected their water from shallow soaks in the sago swamps inland from Sissano Lagoon and Barat. These supplies of water are subject to a high pollution risk both in situ and in transport, and tend to dry up in the dry season. It has been recommended that spear points be used at all the chosen watering points in these villages, where it is expected that the spear points will work satisfactorily

10 /... in the medium to

in the medium to fine-grained beach and dune sand along the spit. However, only one or two should be installed in the first instance and these should be tested to ensure that they will work satisfactorily. If they do not then all the points can be replaced with dug wells. If wells are used they will have to be installed so that the tops protrude at least three feet above the surrounding ground level.

The Aitape Inland villages (BES Resettlement Area, 41 - 46), are located on an extremely fertile, well watered plain seaward from the Torricelli Ranges. Auger holes sunk in the area located ground water six to ten feet below the surface. The aquifer is sandy gravel overlain by black soil, and appears to be capable of producing adequate quantities of potable water. Sanitary wells have been recommended throughout the area. However, if a major re-settlement is planned it may, in the future, prove economic to drill deep bores and provide a reticulated supply.

Makru Klaplei Census Division.

The Makru Klaplei census division includes all the villages in the Nuku area. The villages, which consist of a large number of small hamlets, are all spread out along the high, steep-sided ridges which dominate the terrain in this region. Present water supplies are obtained from small soaks and streams below the hamlets along the sides of the ridges. Many of these supplies dry up in the dry season and all are open to pollution. The siting of wells is impracticable and rainwater catchments have been recommended for all the hamlets.

Wapei Council.

Villages in the Wapei Council area are predominantly of the ridge-top type and are dependant for water supplies on soaks along the sides of the ridges, all of which dry up in the dry season. During the dry season water is carried for considerable distances from larger perennial streams located around the bases of some of the ridges. In these cases rainwater catchment has again been recommended. However wells were recommended for the villages of LUMI (51) and TALOTE (54). At LUMI village there is a good supply of water available from a natural spring in the hillside which can be developed into a well site. The spring is apparently derived from a permeable sandstone bed within the mudstone and siltstone sequences which form the predominant rock type in the Lumi district. TALOTE village is situated beside a moderately large, swiftly flowing river and there is an adequate supply of water in the gravel and sand river terraces to each side of the river.

May River, Wongamusen, Upper Sepik and Main River Census Divisions.

The villages in these census divisions, where no councils

11/..... have been formed yet,

have been formed yet, are situated along the banks of the May and Sepik Rivers; nearly all of them draw their water supplies from the two rivers.

The riverbanks consist of permeable, black sandy silt and some clay. Groundwater level varies from three to ten feet below the surface and sanitary wells can be safely located in all of the villages.

There are three problems which may be encountered in some of the wells: (i) silting up of the well at times of high river flow (ii) caving of the walls of the well around the base of the lower pipe and (iii) overtopping of the wells in times of river flood.

Silting up of the well can be controlled by regular inspection and cleaning. The chief danger of caving is that if concrete pipes are used in construction of the well the lower pipe may become undermined and will either tilt or fall and thus endanger the stability of the structure. Fibreglass liners have been recommended in place of concrete pipes in all the wells in this area and if caving does occur the liners, which have the advantage of being supported from the surface, should not collapse. All wells which have been sited in areas where overtopping may occur have been recommended to protrude from the ground to a level higher than the anticipated flood level. In addition these wells will require protection against floating debris. Details of construction of fibreglass wells for use in flood areas are given in Appendix V.

An additional health hazard in some of the villages is the nearness of possible well sites to family latrines. Wells have been sited so as to be kept as far away from these structures as possible; Administration and Local Government Council Officers who are responsible for the final installation will have to ensure that no latrine is located closer than 100 feet from a well or serious pollution of the water will take place.

Gaui Council

The villages of KOROGO (122), KANGANAMAN (123), and TEGOI (124) are located along the banks of the Sepik River. Aquifer conditions, problems, and recommendations are exactly the same as for the villages in the census divisions in the preceeding section.

The remainder of the villages in the Gaui Council area are located in the Chambri Lakes district, and the people are mainly reliant on the lake for their water supply. At AIBOM (125) and WANINGAI (126) several small, perennial streams flow from the hills behind the villages. Although not suitable for gravity schemes the streams do provide a good supply of fresh water which flows out over permeable, bouldery and sandy alluvium located between the base of the hills and high water level. The alluvium is expected to provide an adequate aquifer and wells have been satisfactorily located above high water level in both villages.

12/.... A similar situation

A similar situation exists at the village of TIMBUMERI (128) but it is expected that the presence of hard, impermeable bedrock at MAIJONE (127) village will not allow a well to be sunk, in which case the alternative recommendation for a rainwater catchment will have to be followed.

Ambunti and Karawari Census Divisions and Biwat Council.

The villages in these areas are located along the banks of the Karawari, Yuat and Sepik Rivers, which provide them with their water supplies. The river banks consist of black sandy silt and clay. Aquifer conditions, problems and recommendations made are identical to those described in earlier sections along the Sepik River, and well sites have been located in all the villages.

Keram Council

The two villages visited in the Keram Council area, KAMBARAMBA (140) and WOM (141) are located in the centre of the Grass Country, a large area of inland swamp and lagoon south east of Angoram. The villages are unique in the Sepik Districts in that they are built entirely over the water and can be approached from any direction only by boat. Village water supplies are drawn from the lagoons.

Possible solutions to the water supply problem (pollution) would be either the provision of a rainwater catchment and storage or the drilling of deep bores. However, the cost involved in either of these two schemes is beyond the economic resources of the Council and as no other feasible means of providing an alternative to the existing water supply could be devised no recommendations were made.

Wewak But Council

The majority of the villages visited in the Wewak But Council area are located along the coastline or on the coastal plain seaward of the Prince Alexander Mountains. Most of the coastal plain is low lying and, particularly in the Wewak Town area, is encroached by mangrove and sago swamp. At the time of the survey, which was after a particularly long dry spell only recently alleviated by rain, the groundwater table was uniformly high, varying between two and six feet. It is considered that three-pipe (12 feet) standard sanitary wells will be adequate in nearly all situations and these have been recommended for most villages.

Rainwater catchments were recommended at TOPORU (69) and KULEI (70) hamlets which are situated on ridges standing above the coastal plain and where no suitable well sites could be found close enough to the settlements. A rainwater catchment was also recommended at MARAI (65) village which is on the eastern side of Mushu Island and where seawater encroachment around the village has excessively contaminated the groundwater supply.

13/..... KORAGUL 966)

KORAGUL (66) and SHAGUR (67) village on Kairuru Island draw their water supply from fast flowing, perennial mountain streams located beside the settlements. The supplies are more than adequate for the villagers and as the risk of pollution is small it was not considered necessary to make any recommendations.

At TEREBU (68) village a well site was located but should not be installed until the extensive plans for roof catchment already being developed have been completed.

YAWOSORU (56) is the site for a migrant resettlement project. Wells have been recommended for the initial development of the project but these should be replaced, as the population increases towards the planned total, with deep bores supplying a header tank and gravity-fed reticulated system. Detailed planning of the exact location of the wells and bores will have to be carried out by the authority responsible for resettlement, in association with the Public Health Department and Public Works Department, Wewak.

Reticulated gravity supplies fed from small dams were surveyed at SMAIM (59) and MAGOFIN (60) villages. Plans have been drawn up for these two schemes but construction of them will depend on the ability of the Council to finance the projects.

Saussia Council

Recommendations in the Saussia Council area are evenly divided between wells and rainwater catchments. The countryside varies from rather flat, rolling ground to dissected, ridge-type terrain; water supplies are drawn from the numerous streams and creeks which flow around the base of the ridges and which merge to form larger waterways flowing south towards the Sepik River.

Rainwater catchments were recommended in those villages on the higher ridges where suitable well sites are too great a distance from the centre of the village. However on the flatter ground the settlements are generally close to a permanent water supply and it was possible to locate well sites within a reasonable distance from the village.

At URIMO Agricultural Station (76) a permanent water supply is required for a possible eventual capacity of 1000 head of cattle. Two types of schemes were investigated, one relying on bore water and the other on a supply pumped from IAREME Creek, which is close to the station homestead. The pumped supply is preferred chiefly because of the difficulty of transporting a rig to the station and the likely poor aquifer potential of the indurated blue mudstone which is the predominant rock type in the region. A full description of the possible development is given in the recommendations for the East Sepik District.

14/..... Yangoru Council

Yangoru Council.

Villages in the Yangoru Council are spread out along ridges or in valleys on the southern slopes of the Prince Alexander Mountains. The majority are on the ridges and typically are reliant on small soaks along the sides of the ridges or streams at the base of the ridges for their water supply. The ridge-side soaks dry up in the dry season and normally the stream at the base of a ridge is a considerable distance from the main village site. In all such cases recommendations were made for rainwater catchments in the village.

Well sites may be located, as is the case at SAUSENDUAN (90) village, in villages situated in an open valley where there is usually a small stream flowing through the centre of the valley. No recommendations were made at KWAGWI (87) or KWAGRI (88) villages. These two villages consist of numerous small hamlets spread out along the banks of a fast flowing, shingle-bedded river which supplies their water. It is possible to locate wells in the banks of the river but in fact the population is so spread out that one well would only effictively serve a fraction of the village population. As the risk of pollution from the river is slight it was decided that no alternative supply should be provided.

Dreikikir Council.

In all of the areas visited in the Dreikikir Council the villages were located along the tops of high, steep-sided ridges on the middle and upper regions of the southern slopes of the Torricelli Range. Again the villagers obtain their water supply from soaks and streams on the sides and at the bases of the ridges but in this case, as there is a constant rainfall, very few of them ever dry up. However, the distance the water has to be carried is sometimes considerable, with a consequent high pollution risk, and rainwater catchments were recommended in all cases.

Greater Maprik Council,

The Greater Maprik Council area is situated in a region which includes the southern foothills of the Prince Alexander and Torricelli Ranges and the rolling country between the ranges and the flat expanse of the Sepik plains.

Villages are located on the higher ground and water supplies are drawn from the numerous small streams which flow off, and around, the base of the hillslopes. The supply is sometimes located close enough to the village to enable the satisfactory siting of a well. In other cases, particularly where the hills are higher and steeper-sided, the distance to the water supply is too great and in such cases a rainwater catchment system was recommended.

15/.... Wosera Council and

Wosera Council and Sepik Plains Census Division.

Villages in these areas are largely situated on the flat expanse of the Sepik Plain south of Maprik. Water supplies are drawn from swamps, small streams and main rivers.

In the North Wosera, streams are generally deeply incised and the water table low and it is only possible to site wells where the villages are located close to natural drainage features. Otherwise, as at UCUTAGWA (107) and WOMBISA (109A) villages, rainwater catchments were recommended. However, as the Sepik River is approached the elevation of the natural ground surface is much closer to river level and the water table is high. Wells were located at JAMA (113) and BURUI (114) villages and it would be possible to site wells in other villages which are in the same geographical and topographical setting.

16/..... CONCLUSIONS.

C O N C L U S I O N S

Problems associated with water supply in the East and West Sepik Districts can be divided on a regional basis into five different types which are these occurring in: (i) villages located on coastlines and coastal plains; (ii) river bank villages; (iii) villages located on coral islands; (iv) villages located on ridge-tops; and (v) villages located on inland plains and alluvial valleys.

Coastal and Coastal Plain Villages

There are very few real problems of water supply in the coastal and coastal plain areas. Adequate supplies of potable water can be obtained within a few feet of the surface in most villages, including those along the sand spit which forms the seaward margin to the Sissano Lagoon. Water supply hardships have been experienced in the past by the natives in these areas only because they have been relying on surfact water, supplies of which cannot be guaranteed for at least five months of the year.

River Bank Villages.

All those villages situated along the banks of the Sepik, May, Karawari and Yuat Rivers, and to a lesser extent the villages around the margins of the Chambri Lakes, fall into this category. It also includes those villages similarly located, but not visited, on other tributaries of the Sepik River.

The river banks consist of sandy silt and clay which provide a good aquifer and support a high water table. Problems which can be expected include: silting up of the well; possible caving of the walls of the well below the lowest pipe with likely collapse of the structure if concrete pipes are used as liners; and overtopping of the well during peak flood periods.

Island Villages.

With the exception of Kairuru Island, which is of volcanic origin, the islands visited were moderately large coral islands which have an adequate supply of potable water close to the surface. Saltwater contamination was detected in one instance where an extensive area of the village land is flooded with seawater at high tide.

On Kairuru Island a large lake in the extinct volcanic crater maintains a continual supply of water to the numerous streams which flow down the sides of the mountain to the sea. The main villages on the island are located beside these streams and do not suffer from a shortage of water.

18/.... Ridge-Top Villages

Ridge-Top Villages.

Villages which are located along the tops of ridges present the most difficult problems for the provision of an adequate water supply.

The regions most affected are those in the Lumi and Maprik Sub Districts which are located along the inland margins of the Torricelli and Prince Alexander Ranges, and the hilly areas along the West Irian Border in the Amanab Sub-District. Villages in these locations draw their water supplies from ridge-side soaks, which normally dry up in the dry season, and small, but usually permanent, streams which flow around the base of the ridge.

As well as drying up after any prolonged period without rain the ridge-side soaks are liable to pollution, particularly from pigs and poultry, and the permanent streams are always a considerable distance from the villages.

Inland Plain and Alluvial Valley Villages.

Villages in these environments include those in the Pagei and Green River Council areas (alluvial valleys) and parts of the Dreikikir, Greater Maprik and Wosera Council areas (inland plains), where the population draw their water supply from natural drainage features.

In alluvial valleys, typified by the Pagei Council area, there is a generally high water table in swampy ground which characteristically supports a dense vegetation of sago palm and associated flora. Efficient aquifers are provided by beds of sand and gravel which occur sporadically throughout the predominantly finer grained swamp deposits.

The inland plains have a rolling to flat terrain which always slopes south towards the Sepik River. On the higher ground further away from the river the existing drainage pattern is well incised and the groundwater table is correspondingly low which makes it difficult to locate suitable well sites. The area would be well suited for the siting of drilled bores but lack of suitable access makes this solution impracticable. Closer to the Sepik River the elevation of natural ground surface is much closer to river level and the groundwater table is high.

19/.... RECOMMENDATIONS

R E C O M M E N D A T I O N S

The following recommendations have been made in the various regions of the Sepik District.

Coastal and Coastal Plain Villages.

The high groundwater condition in this environment is ideally suited for the development of dug wells or spear points. They have been recommended in most villages and are expected to cope adequately with future demands for domestic water supply.

Mechanical sieve analysis to determine the sand sizes present at locations where spear points are to be installed should be carried out to decide the correct size of mesh to be used on the spear heads. If the sieving cannot be carried out by the Department of Public Works in Wewak a representative sample weighing about six pounds should be forwarded to the Senior Resident Geologist, P.O. Box 778, Port Moresby, for analysis.

River Bank Villages

Wells can be sited in all the villages located along the banks of the major rivers. Of the problems expected: silting up can be controlled by adequate maintenance; possible collapse resulting from caving, by the use of fibreglass liners; and overtopping, by ensuring that the well protrudes above the maximum predicted flood level. It is also considered that protruding wells will require an adequate protection against damage by flood debris.

Island Villages.

Dug wells will provide an adequate supply of water for domestic use on all the islands visited excepting MARAI (65) village where a rainwater catchment is recommended.

It is not considered that the demands made by the population on the supplies will disturb the freshwater-seawater balance to an extent which could lead to saltwater contamination of the wells, but the position should be reviewed periodically.

It is requested that samples of water from all dug wells and spear points installed be forwarded to the Senior Resident Geologist P.O. Box 778, Port Moresby who will arrange for chemical analysis.

Ridge-Top Villages

As the water table near the villages on the tops of the ridges is exceptionally low and bores are uneconomic the only solution has been to recommend rainwater catchment systems using a polythene catchment and tank storage. It is considered that a pump unit should be used to draw the water from the tank rather than a tap, as during the survey it was noticed, and confirmed in discussion with representatives of the Departments of Public Health and District Administration, that the villagers are not well educated in the need

20/..... for keeping taps

for keeping taps turned off when the tank is not in use.

The provision of rainwater catchment and storage is not, unfortunately, the complete answer to the water supply problem as in larger villages it is not as yet possible, within economic limits, to provide sufficient storage for all purposes. It will be important therefore to educate the villagers to use the storage for drinking and cooking only and to use the traditional watering holes for washing.

Inland Plain and Alluvial Valley Villages.

Conditions are usually suitable in alluvial valleys for the development of dug wells. Some trouble may be expected with silting up but this should not provide a serious problem provided that the wells are adequately maintained and kept clean.

On the higher ground of the inland plains the generally low water table makes it difficult to find suitable well sites except where the villages are located close to a natural drainage feature. Where suitable sites are not available, rainwater catchments are recommended.

Closer to the Sepik River, where the groundwater table is consistently high no difficulty was found in locating well sites and it is considered that it will be possible to site wells in all the villages in this geographic setting.

R E F E R E N C E S

MacGregor, J.P., 1966: Village Water Supply Survey - Milne Bay District.

TPNG Res. Geol. Sec. Note on Invest. No. 65424 (Unpub.)

APPENDIX 1

VILLAGE WATER SUPPLY SEPIK DISTRICT - ITINERARY

FIRST SECTION

(Numbers in brackets refer to position indicated on Plate 1)

October 1 — Team flew from Port Moresby to Wewak.

2 — WOM (1), KREER (2), KREER MIGRANTS (3), KANDI NO. 2 (4), WARAMIN (5), YARAPOS (6).

3 — Wewak to Vanimo. VANIMO VILLAGE (7).

4 — Vanimo to Pagei. AMOI (8), APWAMBO AND IDOLI (9), PAGEI STATION (10).
Pagei to Imonda. IMONDA STATION (11). Imonda.

5 — NAMOLA NO. 1 (12), NAMOLA NO. 2 (13), MACHENDI (14), OMOL (15), Imonda.

6 — Imonda to Green River. GREEN RIVER STATION (16) ABARU (17), DIERU (18).

7 — Green River to Vanimo.

8 — Vanimo to Wutung to Vanimo. WUTUNG (19), VANIMO STATION (20), Vanimo.

9 — Vanimo

10 — Vanimo to Aitape. TUMLEO ISLAND (21), MALUNG (22), CHALDALEO (23), ITALAL (24), TOURALE (25), PUIAT (27), CELEO NO. 2 (28), ANGEL ISLAND (29), AITAPE STATION (30).

11 — Aitape to Sissano. AMSOR (31), TAINYAPIN (32), PO (33), AROP VILLAGES (34), Sissano.

12 — Sissano to Aitape. MAINDRIN (35), AMSOR AND MANIAR (36), SISSANO (37), WARAPU (38), AINDRIN (39).

13 — SUAIN NO. 1 (40), WAINUNGI (41), WOM (42), SIATE (43), NEW BES (44), OLD BES (45), BES RESETTLEMENT (46),

14 — Aitape to Nuku. NUKU STATION (47), NUKU HAMLETS (48), MANTSUKU HAMLETS (49).

October 15 Nuku to Lumi. LUMI STATION (50), LUMI VILLAGE (51), MAUI (52), WABUF (53).

16 TALOTE (54), SARBOITE (55). Lumi.

17 Lumi to Wewak. YAUWOSORU RESETTLEMENT (56) YARIMUL (57), SAURI (58)

18 SMAIM (59), MAGOFIN (60), BOIKEN (61) KRUPIER (62), KWABUN (63). Wewak.

19 SUP (64), MARAI (65), KORAGUL (66), SHAGUR (67). Wewak.

20 Wewak

21 TEREBU (68), TOPORU (69), KULEI (70), MANDI (72), NEW MOEM (73), NEW PERIGO (74). Wewak.

22 Team flew from Wewak to Port Moresby.

SECOND SEOTION

November 7 Team flew from Port Moresby to Wewak. Drove to Urimo D.A.S.F. Station. KAMBAGORA (75).

8 URIMO D.A.S.F. STATION (76). Urimo.

9 NAGUM S.D.A. MISSION (77), RABIAWA (78), RABUNDOGUM (79), BARARAT (80), MAPERINGA (81), KUBALIA BASE CAMP (82). Kubalia.

10 TOANAMBU (83), MUNJI (84), WAMOIN (85), KININYAN (86) KWAGWI (87), KAGRI (88), PACHAN (89), SAUSENDUAN (90) Yangoru.

11 BUKINARA (91), KABOIBUS NOS. 1 & 2 (92). Maprik.

12 YAMELIKUM (93), AMAHOP (94), BALIF (95), BONAHOI (96) MISIM (97), PEREMBIL (98), DUMAN (99), Dreikikir.

13 Dreikikir to Maprik

November 14 WAIGAKUM NO. 2, (100), GWELIGUM NO. 1 (101), HAGVALIF (102), APERINGA (103), BAINYIK D.A.S.F. STATION (104). Maprik.

15 NALA NO. 1 (105), NUNGWAIA (106), UGUTAGWA (107), WABINDUMAGA (108), TUGAIKUM (109). Nanu 'T' School.

16 WOMBISA (109A), KUNJINGINI R.C. MISSION (110) SERENGWANDU 'T' SCHOOL (111), SEREGWANDU VILLAGE (112), JAMA (113), BURUI (114). Pagwi.

17 Pagwi to M.V. Rouna Falls. Korogo.

18 Korogo to Yambon.

19 AUMI (115), MAY RIVER STATION (116). May River.

20 INIOK (117), KUBKAIN (118), YAMBON (119), MALU (120), Ambunti.

21 AVATIP (121), KOROGO (122), KANGANAMAN (123), TEGOI (124). Tegoi.

22 AIBOM (125), INDINGAI (126), ARIJONE (127), TIMBUMERI (128). Mindimbit.

23 AMBOIN STATION (129), MEINGENDA (130), KUNDIMAN (131), MANSOMAI (132), MINDIMBIT (133), TIMBUNKE (134), TAMBANUM (135). Kanduanum No. 2.

24 ASANGAMUT (136), SIPISIPI (137), BIWAT (138), MOIM (139). Angoram.

25 KAMBARAMBA (140), WOM (141). Angoram.

26 Angoram to Sepik River Mouth.

27 Sepik River Mouth to Wewak.

28 Wewak.

29 Team flew to Port Moresby.

A P P E N D I X I I

SAMPLE OF VILLAGE REPORT

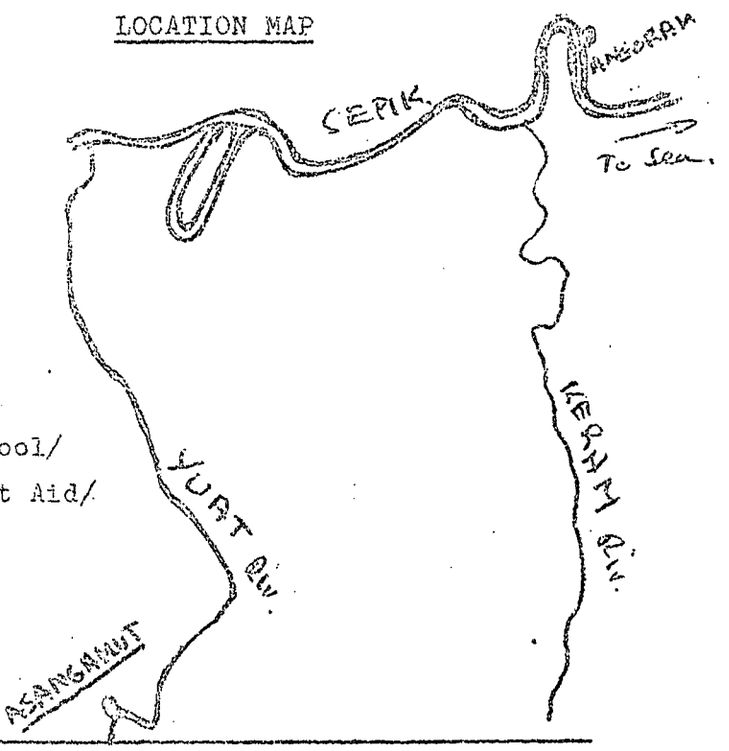
TERRITORY OF PAPUA & NEW GUINEA

Y OF VILLAGE WATER SUPPLIES ...EAST SEPIK.....DISTRICT

N.

...ASANGAUT.....
...Biwat.....
DIVISION ...Yuat.....
...STRICT ....Angoram.....
...PION ...ISO.....
...Yuat.River.....
.....
...M/COUNCILLOR ...Mando.....
.....
...SE - Domestic/Government School/
.../Mission School/Hospital/First Aid/
Irrigation
...ED DEVELOPMENT .....
.....
...ED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

...LL .....
...ASON From ..Nov... to April..
.Yuat.River.....
...CE FROM VILLAGE .....
...ORT ..Truck.....
.../RATE OF FLOW .....
...TY - Chemical .....
Bactereological .....
...CTION ....Nil.....
...KS .....
.....
.....
.....
...ASON From ..May.... to Oct...
...As.above.....
...CE FROM VILLAGE .....
...ORT .....
.../RATE OF FLOW .....
...TY .....Chemical .....
Bactereological .....
...CTION .....
...KS .....
.....
.....

LOCATION MAP

G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ...EAST SEPIK.....DISTRICT

VILLAGE ...ASANGAMUT..... RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ..Well Located in front of house belonging to PAPLIAPAN

DISTANCE FROM VILLAGE ...Central.

ACCESS .....Track

SITE KNOWN TO...YABARA.....

TYPE OF AQUIFER ..Sandy silt & clay.

DETAILS OF SCHEME ..Standard sanitary well. 4 pipes. Fibreglass

MATERIALS REQUIRED ...As per standard drawing

LABOUR REQUIRED .....Local

SUPERVISION .....Local

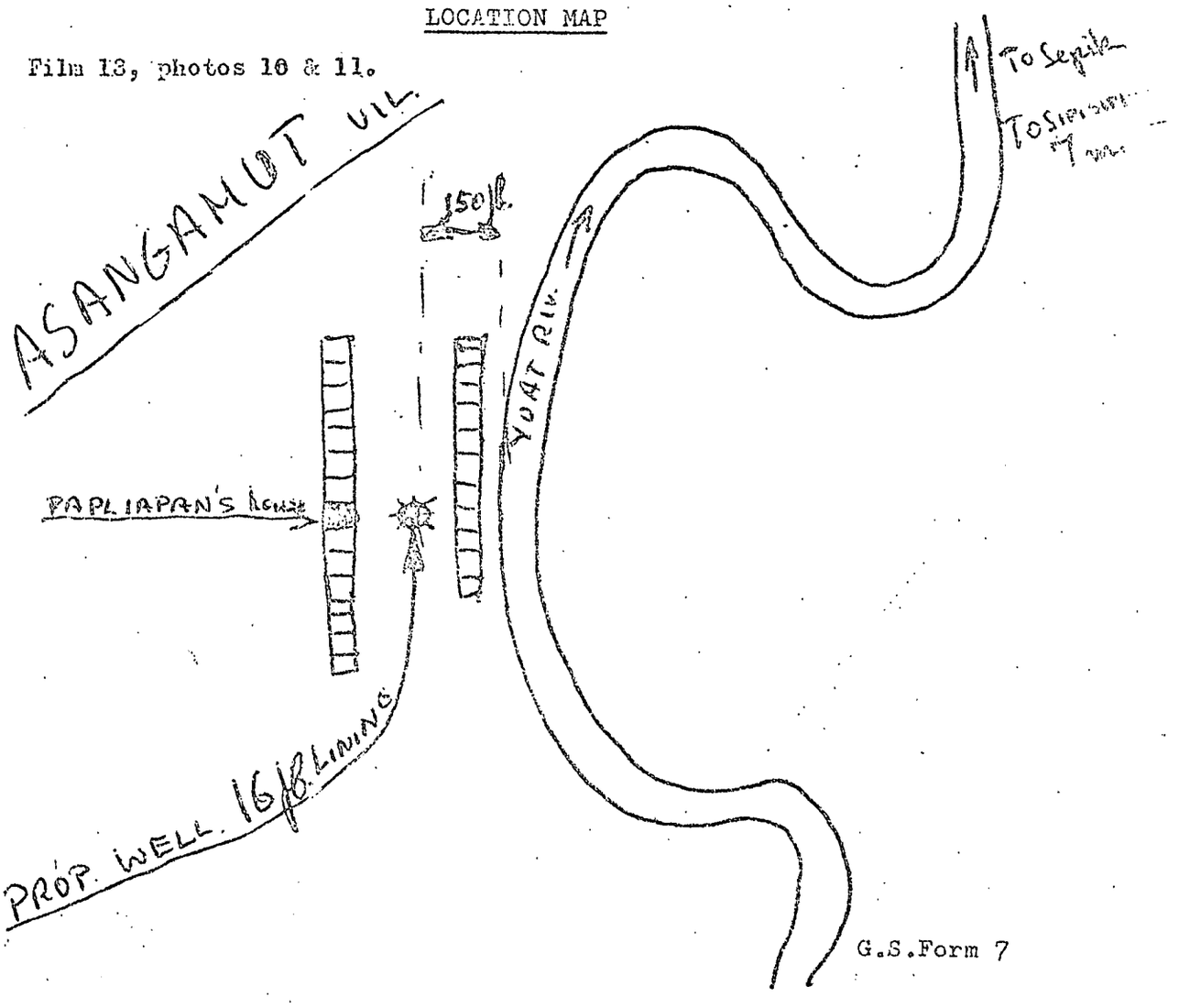
ESTIMATED COST ($) 140

ALTERNATIVE SCHEME .....

PRIORITY ...Second..... Signed ..J.R.L. Read.... Date ..24/11/66.

LOCATION MAP

Film 13, photos 10 & 11.



G.S.Form 7

A P P E N D I X I I I

SUMMARY OF RECOMMENDATIONS FOR COUNCILS

SUMMARY OF SURVEY OF VILLAGE WATER SUPPLIES - VANIMO, PAGEI, WALSA AND GREEN RIVER COUNCILS.

VILLAGE	POPULATION	TYPE OF SCHEME	NO. OF PIPES	ESTIMATED COST $	PRIORITY	REMARKS
Vanimo Station (20)	1500					No Recommendation
Vanimo Village (7)	507	Well	1	Nil	First	Modification of existing well.
Wutung (19)	254	2 wells	6	200	Second	Coral in Village
Pagei Station (10)	150					No Recommendation
Amoi (8)	120	Well		Nil	First	Clean and deepen existing well.
Idoli & Apwambo (9)	280			Nil	Second	Clean and repair existing well.
Imonda Station (11)	210					No Recommendation
Namola Area (12-15)	436	Catchment		2000	Second	Nylex catchment & fibreglass tanks
Green River Station (16)	150					No Recommendation
Abaru (17)	100	Well	3	150	Second	River alluvium. Beside Village.
Dieru (18)	140	Well	3	150	Second	River alluvium. Beside Village.

SUMMARY OF WATER SUPPLY SCHEMES

VILLAGE	POPULATION	TYPE OF SCHEME	NO. OF PIPES	ESTIMATED COST $	PRIORITY	REMARKS
Aitape Station (30)	540					No Recommendation
Anopias, Safi No. 1 & 2 and Ainanun (21)	120	3 wells	9	300	Second	Coral in village.
Malung (22)	-	Well	3	100	Second	Coral behind village
Chaldaleo (23)		Well	3	100	Second	Coral behind village
Italal (24)		Well	3	100	Second	Coral behind village
Tourale (25)		Well	3	100	Second	Coral behind village
Ruiat (26)	580	Well	2	100	Second	Coral in village
Celeo No. 1 (27)	150	Well	2	100	Second	Coral in village
Celeo No. 2 (28)		Well	2	100	Second	Coral in village
Amsor (31)	1500	3 spear points		210	Second	Beach and dune sand. In Village using spear points in Amsor Village.
Tainyapen (32)						
Aindrin (39)		Spear point		70	Second	Beach and dune sand. In Village
PO (33)	100	Well	3	100	Second	Silt and fine sand. Beside Village
Arop Villages (34)	910	4 spear points		280	First	Beach and dune sand. In Villages
Maindrin (35)		Spear point		70	Second	Beach and dune sand. Beside Village
Amsor and Maniar (36)	1000	Spear point		70	Second	Beach and dune sand. Between villages
Sissano (37)		Spear point		70	Second	Beach and dune sand. In Village

SUMMARY OF SURVEY OF VILLAGE WATER SUPPLIES - NEW CONTINUED

VILLAGE	POPULATION	TYPE OF SCHEME	NO. OF PIPES	ESTIMATED COST $	PRIORITY	REMARKS
Warapu (38)	1180	3 spear points		210	Second	Beach and dune sand. In Village.
Suain No.1 (40)	270	2 wells	8	230	Second	Beach and dune sand. In Village
Waunungi (41)		Well	2	100	Second	Sand and gravel. Behind village.
Wom (42)		Well	4	100	Second	Sand and gravel. In Village
Siate (43)		Well	3	100	Second	Sand and gravel. Behind Village
New Bes (44)		Well	3	100	Second	Sand and gravel. In Village
Old Bes (45)		Well	3	100	Second	Sand and gravel. In Village.
Bes Resettlement (46)		2 Wells	8	200	First	Sand and gravel. In Village.

SUMMARY OF SURVEY OF VILLAGE WATER SUPPLIES IN THE SOUTH WEST PACIFIC

VILLAGE	POPULATION	TYPE OF SCHEME	NO. OF PIPES	ESTIMATED COST $	PRIORITY	REMARKS
Nuku Station (47)	150					No Recommendation
Nuku Hamlets (48)	305	Catchment		1000	Second	Nylex catchment and fibre-glass tanks.
Mantsuku Hamlets (49)	380	Catchment		1000	Second	Nylex catchment and fibre-glass tanks.
Lumi Station (50)	300					No Recommendation
Lumi Village (51)	124	Well	2	100	Second	Natural spring. 300 yards from village.
Maui (52)	197	Catchment		500	Second	Nylex catchment and fibre-glass tank
Wabuf (53)	131	Catchment		300	Second	Nylex catchment and fibre-glass tank
Talote (54)	150	Well	4	140	Second	River gravel and alluvium Behind village.
Sarboite (55)	123	Catchment		500	Second	Nylex catchment and fibre-glass tank

SUMMARY OF SURVEY OF VILLAGE WATER SUPPLIES - MAY RIVER, WONGAMUSEN, UPPER SEPIK AND MAIN RIVER CENSUS DIVISIONS, AND DAUI COUNCIL.

VILLAGE	POPULATION	TYPE OF SCHEME	NO. OF PIPES	ESTIMATED COST $	PRIORITY	REMARKS
May River Station (116)	40					No recommendation
Aumi (115)	79	Well	3	120	Second	Sandy silt and clay. In Village.
Iniok (117)	220	Well	3	120	Second	Sandy silt. In Village
Kubkain (118)		Well	3	120	Second	Sandy silt. In Village
Yambon (119)	269	Well	3	120	Second	Sandy silt. In Village
Malu (120)	449	2 Wells	8	280	Second	Sandy silt. In Village
Auatip (121)	683	3 Wells	12	420	Second	Sandy silt. In Village
Korogo (122)	606	2 Wells	8	280	Second	Sandy silt. In Village
Kanganaman (123)	595	3 Wells	12	420	Second	Sandy silt. In Village
Tegoi (124)	148	Well	4	140	Second	Sandy silt. In Village
Aibom (125)	516	3 Wells	9	360	Second	Sandy alluvium. In villag
Indingai (126)	242	Well	4	140	Second	Sandy alluvium. In village
Arijone (127)	85	Well	4	140	Second	Alluvium
Timbumeri (128)	179	Well	2	120	Second	Sandy alluvium 150 yards behind village.

VILLAGE	POPULATION	TYPE OF SCHEME	NO. OF PIPES	ESTIMATED COST $	PRIORITY	REMARKS
Amboin Station (129)	250					No recommendation
Meingenda (130)	75	Well	3	120	Second	Weathered conglomerate. In Village.
Kundinan (131)	133	Well	4	140	Second	Sandy silt. In Village
Mansonai (132)	77	Well	4	140	Second	Sandy silt. In Village
Mindinbit (133)		2 Wells	8	280	Second	" " " "
Timbunke (34)		2 Wells	10	320	Second	" " " "
Tambanum (135)	940	5 Wells	20	700	Second	Sandy silt. In Village
Asangamut (136)	180	Well	4	140	Second	Sandy silt and clay. In Village
Sipisipi (137)	109	Well	4	140	Second	Sandy silt and clay. In Village
Biwat (138)	350	2 Wells	7	260	Second	Sandy silt. In Village
Moim (139)	200	2 Wells	8	280	Second	Sandy silt. In Village
Kambaramba (140)	1461					No recommendation
Wom (141)	611					No recommendation

SUMMARY OF SURVEY OF VILLAGE WATER SUPPLY - WEWAK BUT COUNCIL

VILLAGE	POPULATION	TYPE OF SCHEME	NO. OF PIPES	ESTIMATED COST $	PRIORITY	REMARKS
WOM (1)	128	Well	3	100	Second	Coral In Village
Kreer (2)				20	Second	Minor improvements to present system
Kreer Migrants (3)				20	Second	Utilisation of existing system
Kaindi No. 2 (4)	265	Well	3	100	Second	Sand. In Village
Waramin (5)	200	Well	3	100	Second	Sand. In Village
Yarapos (6)	40	Well	3	100	Second	Sand. In Village
Yauwosoru (56)		Wells & Bores				To be developed by P.W.D. and P.H.D.
Yarimul (57)		Well	3	100	Second	Sand. In Village
Sauri (58)	14					No recommendation
Smain (59)	104	Well	3	100	Second	Beach sand. In Village
Magofin (60)	498	2 wells	6	200	Second	Silt and clay. In Village
Boiken (61)	176	Well	3	100	Second	Sand. In Village
Krupier (62)		Well	3	100	Second	Alluvium. In Village
Kwabun (63)	112	2 wells	6	200	Second	Beach and dune sand. In Village
Sup (64)	158	Well	3	100	Second	Coral In village
Marai (65)	25	Catchment		200		Nylex catchment and fibreglass tank
Koragul (66)	371					No recommendation
Shagur (67)	275					No recommendation

SUMMARY OF SURVEY OF VILLAGE WATER SUPPLIES - NEW BRITAIN DISTRICT

VILLAGE	POPULATION	TYPE OF SCHEME	NO. OF PIPES	ESTIMATED COST $	PRIORITY	REMARKS
Terebu (68)	83	Catchment				Complete present catchment scheme.
Toporu (69)	113	Catchment		250	Second	Nylex catchment and fibreglass tank.
Kulei (70)		Catchment		250	Second	" " " "
Forok No.1 (71)	201	Well	4	100	Second	Sandy alluvium. In Village
Mandi (72)	87	Well	3	100	Second	" " " "
New Moem (73)	63	Well	3	100	Second	" " " "
New Perigo (74)		Well	3	100	Second	" " " "
Kumbagora (75)	183	Well	2	100	Second	Silty alluvium. In Village

VILLAGE	POPULATION	TYPE OF SCHEME	NO. OF PIPES	ESTIMATED COST $	PRIORITY	REMARKS
URIMO D.A.S.F.(76)	32				First	Planned development of reticulated supply
Nagun Mission (77)	242	Catchment				Catchment from Station buildings
Rabiawa (78)	181	Well	2	100	Second	Silty alluvium 200 yards from village
Rabundogum (79)	276	Well	3	100	Second	Silty clay and gravel 200 yards from village
Bararat (80)	182	Well	3	100	Second	Silty clay and gravel 200 yards from village
Maperinga (81)	115	Well	2	100	Second	Natural spring 500 yards from village.
Kubalia Base Camp (82)	136	Well	4	100	Second	Sand and gravel. Additional catchment
Toananbu (83)	426	Catchment		1500	Second	Nylex catchment and concrete tank
Munji (84)	374	Stream		100	Second	Provision of protection and pumps only
Wamoin (85)	235	Catchment		1000	Second	Nylex catchment and fibreglass pumps
Kininyan (86)	137	Catchment		500	Second	Nylex catchment and fibreglass tanks
Kwagwi (87)	300					No Recommendation
Kwagri (88)	280					No Recommendation
Pachan (89)	164	Catchment		600	Second	Nylex catchment and fibreglass tanks
Sausenduan (90)	131	Well	4	100	Second	Silty clay & gravel In Village

VILLAGE	POPULATION	TYPE OF SCHEME	NO. OF PIPES	ESTIMATED COST $	PRIORITY	SUMMARY
Bukinara (91)	120	Catchment		500	Second	Nylex catchment and fibreglass tank
Kaboibus 1&2 (92)	480	Catchment		2000	Second	Nylex catchment and fibreglass and concrete tanks

SUMMARY OF SURVEY OF VILLAGE WATER SUPPLIES - BRITISH COUNCIL AND GOROKA [illegible]

VILLAGE	POPULATION	TYPE OF SCHEME	NO. OF PIPES	ESTIMATED COST $	PRIORITY	REMARKS
Misim (97)	221	Catchment		1000	Second	Nylex catchment and fibreglass tanks.
Perembil (98)	340	Catchment		1000	Second	" " " "
Duman (99)	233	Catchment		1000	Second	" " " "
Yamelikum (93)	139	Well	Nil	50	Second	Improve existing well.
Amahop (94)	208	Catchment		1300	Second	Nylex catchment and concrete tank.
Balif (95)	333	Catchment		1500	Second	" " " "
Bonahoi (96)	201	Catchment		1000	Second	Nylex catchment and fibreglass tanks
Waigakum No. 2 (100)	250	Well	Nil	Nil	Second	Improve existing well.
Gweligum No. 1 (101)	265	Well	2	100	Second	Silty alluvium and sandstone 300 yards from village.
Hagvalif (102)	266	Catchment		1000	Second	Nylex catchment and fibreglass tanks.
Aperinga (103)	230	Well	2	100	Second	Silty gravel. Up to $\frac{1}{4}$ mile from village.
Bainyik D.A.S.F. (104)	140	Catchment	2	100	Second	Utilise existing buildings for catchment

SUMMARY OF SURVEY OF VILLAGE WATER SUPPLIES - ROSEAU CONCAL AND BELLE PLAINS CENSUS DIVISION

VILLAGE	POPULATION	TYPE OF SCHEME	NO. OF PIPES	ESTIMATED COST $	PRIORITY	REMARKS
Nala No. 1 (105)	82	Well	3	100	Second	Alluvium and gravel. 100 yards from village.
Nungwaia (106)	425	Well	3	100	Second	Silty alluvium. 300 yards from village.
Ugutagwa (107)	400	Catchment		1000	Second	Nylex catchment and fibreglass tanks
Wabindumaga (108)		Well	3	100	Second	Silty alluvium and sandstone. Up to 300 yds. from village.
Tugaikum (109)	517	Well	3	100	Second	Complete Council proposed well
Wombisa (109A)	405	Catchment		1500	Second	Nylex catchment and concrete tank
Kunjingini Mission (110)	153					No recommendation
Seregwandu 'T' School (111)	160					No Recommendation
Serengwandu (112)		Well	3	100	Second	Sandy silt. River's edge behind village.
Jama (113)	290	Well	3	100	Second	Silty alluvium and sand 300 yards from village
Burui (114)	130	Well	3	100	Second	Silty alluvium 75 yards from village.

A P P E N D I X I V

MODIFIED SANITARY SHALLOW WELL AND INSTRUCTIONS FOR INSTALLATION

TERRITORY OF PAPUA AND NEW GUINEA

DEPARTMENT OF PUBLIC WORKS HEADQUARTERS
BOROKO.

30th July, 1965.

EXCAVATION AND PROTECTION OF WATER WELLS.

(J.R. Lee, Local Government Engineer.)

These notes refer to standard Sanitary Shallow Water Wells as shown on drawing issued by the Departments of Public Health and Public Works dated May, 1965.

PART I.

1. Get to site a steel mould for concrete pipes 3 ft. 6 in. outside diameter and 4 ft. long. The inner mould will be 3 ft. 2 in. diameter giving thus a 2 in. wall.

2. Locate the mould over the proposed place for a well.

3. Cast the First Pipe as follows:-

   (a) Spread "form oil" on the two steel walls of the mould which are in contact with concrete;

   (b) Place the reinforcing mesh ARC-610 halfway between the walls of the two moulds (inner and outer formwork);

   (c) To ensure that the reinforcing mesh is fixed in its correct position proceed as follows. Cut four pieces of timber 2 in. x 2 in. x 2 in. Make a slot about $\frac{3}{8}$ in. wide and one inch deep along one face of your cube. Press the cube between the two faces of the mould ensuring that the reinforcing mesh enters the slot. About one inch will be between the walls of the mould and inside the mould. Do this only at the top of your mould as there is no need for fixing of wooden blocks at the bottom of the mould;

   (d) Pour concrete mix made as follows:-

      (i) Three parts by volume of aggregate size about $\frac{3}{8}$ in.;

      (ii) One part by volume of cement; and

      (iii) Clean water to make a thick mix. Do not make your mix sloppy.

THIS WILL BE THE BOTTOM PIPE. Strip the moulds after 36 hours. Moulds are now ready to cast the next pipe. Protect the fresh concrete from direct sun by covering the new pipe with leaves and spraying it with water every two hours during the day for two days.

Leave the shade leaves around the pipe for another four (4) days and do not touch the pipe.

4. Twenty-one (21) days after casting the pipe get a man inside the pipe and excavate the soil within the outer circumference of the pipe. Under its own weight the pipe will go down until it is level with surrounding ground.

5. While you were curing the concrete of the first pipe and as soon as the mould has been stripped, the second pipe can be cast. This is best done very close to the well site so as not to damage the new pipe (second pipe) while placing on top of the first pipe. Place mortar along the joint of the two pipes. Mortar is a thick mix of two parts of clean sand with one part by volume of cement.

6. Casting the SECOND pipe.

(a) Clean the mould from all traces of concrete and spread form oil as before.

(b) Assemble the mould.

(c) Place the reinforcing mesh ARC-610 as before half-way between the walls of the two moulds.

(d) Pour concrete mix made as follows:- (this is a different mix than the mix used for the FIRST pipe).

(i) Four parts by volume of $\frac{3}{4}$ in. aggregate;

(ii) Two parts by volume of clean sand;

(iii) One part by volume of cement; and

(iv) Clean water to make a thick mix. Not too sloppy.

THIS WILL BE THE SECOND PIPE FROM THE BOTTOM.

(e) Strip the moulds after 36 hours. (Moulds ready for casting the third pipe). Protect the fresh concrete from the direct sun by covering the new pipe with leaves and spraying water every two hours during day time for two days.

(f) Leave the shade leaves around the pipe until you are ready to place the pipe on top of the first pipe when it is sunk down, flash level with the ground. Do not touch pipe for 21 days.

7. Place the second pipe on top of the first pipe. The joint between the two pipes should be sealed with mortar which is a thick mix of two parts of clean sand with one part by volume of cement. Ensure that all the walls are in line and that there are no steps at the joint.

8. Keep on excavating under the bottom pipe. Now the two pipes will slowly travel down under their own weight. Do not move the top pipe. If you do, you will break the joint and the well may become contaminated in the future. Make sure that your pipes are coming down straight and are not inclined at an angle. The easiest way to check on this point is to make a cross of two pieces of timber and after locating its exact centre, with respect to the top pipe, drive a nail and suspend a plumb bob.

The plumb bob must touch the ground exactly in the centre of the bottom pipe. If it does not touch the centre, correct the descent of pipes by excavating a bit more under the sides which is further away. Keep on correcting the excavation until the plumb bob is dead in the centre of the bottom pipe.

9. Cast the THIRD pipe and proceed exactly as described under points 5, 6, 7 and 8.

10. Cast the FOURTH and if necessary the FIFTH pipe as described in 5, 6, 7 and 8.

11. When you reach the water (this may even happen when excavating for the second pipe) the best idea is to go down by three (3) feet and stop the work until the dry season is in full. This does not apply to New Guinea where the dry seasons are much less pronounced than in Papua. Assuming that you are working in Papua, resume your work around August-September. By now the hole will be probably very dry and you must keep on excavating until you reach water again. Excavate again down at least three feet below the water surface. The important point here is to ensure that your TOP pipe is extending above ground by not less than two feet. If this extension should be more than two feet you will be told the exact amount by the Local Government Engineer.

12. Once you excavated under the first pipe, that is 4 ft., throwing soil out of the pipe becomes difficult and the following is recommended. Erect a tripod outside the top pipe and fit a pulley at the junction of three legs of the tripod. Take a good strong rope not less ½ in. diameter and lower a bucket down the well. The bucket will be filled by the man inside the pit and the man up top empties it and lowers it down again. IMPORTANT. You must use a third man at this stage. This man will hold another ½ in. diameter rope which is attached to the bucket but does not go through the pulley. Instead the third man pays the rope out or pulls it back closely following the movement of the second man operating the bucket through the pulley. The attachment is made round the top of the bucket and NOT to the handle. Handles break easily. This is a safety precaution which is very important. Even the "best" ropes have the habit of breaking and if the man at the bottom of the hole gets hit on the head with a bucket of stones, you may kill him. Remember there is nowhere to go for the man in the hole when he sees the bucket falling down.

13.

(a) When you have finished the excavation and placed the top pipe in position, extending by two feet (or more if directed to do so) above ground, the next step is to cut a hole in the side of the top pipe to accommodate the suction pipe. The opening should be located nine inches from the bottom edge of the top pipe and should be made 2 in. diameter. You cut this opening by using a STAR DRILL about ½ in. diameter and a 2 lb. hammer. After each hit, rotate the drill by a small amount. About 10 small rotations should give one full rotation round.

(b) Fit the pump suction pipe through the hole in the concrete pipe. Make sure that the section of the pipe which is inside the well runs straight down (not at an angle) and that the strainer fitted at the very bottom of the pipe, is clear off the wall of the well.

(c) Plug the gap between the concrete pipe and the suction pipe using a few handfulls of mortar. Only a small amount will get into the gap and the rest will set outside the well improving the water tightness of the joint. Mortar is made by mixing two parts of sand with one part (by volume) of cement, and adding a small amount of water. Do not make the mortar sloppy.

PART II.

1. Draw a 9 ft. diameter circle around the well.

2. Level and clean the ground within the circle.

3. Cut a 6-in. wide strip of masonite 28 ft. long.

4. Excavate a narrow trench along the circle line. The trench to be about two inches deep and about one inch wide at the bottom.

5. Fit the masonite strips in the trench and backfill so that the masonite is rigidly held in the trench. The upper edge of masonite strip will extend about four inches above the levelled ground within the circle. Join the strips with short length of tie wire or "bush rope". Place several rocks on the outside of the masonite strip preventing it thus to open up. There is no need for rocks on the inside of the strip. Draw a circle around the concrete pipe, about five inches above the ground. Pour concrete and shape it as shown on the drawing. The shaping of the apron amounts to nothing else but provision of a circular drain. To be effective a drain must have a slope towards the outlet. Use your common sense in making this right. The mix used should consist of four (4) parts of gravel, two (2) parts of clean sand and one (1) part of cement by volume. Locate the base of your pump block (around the $1\frac{1}{2}$ in. diametersuction pipe) and within the one sq. ft. area place a dozen four-inch nails or short lengths of heavy wire. The wire or the nails should be pushed into the concrete by two (2) inches with about two (2) inches protruding out of the concrete. After about six hours pour water on the just cast apron and cover it with leaves and branches. Keep on pouring water twice a day for the next two days and keep covered with leaves for four days.

6. While the apron is being cured and if you had no time to do it earlier, cast the well cover. The correct time to do this should be the waiting time after casting all the pipes. You normally finish casting the pipes before the first one has been cured long enough (21 days) to be ready for use. This is best done as follows:-

(a) Cut a six-inch wide strip of masonite, length 11 ft.

(b) Level dead flat on area 4 ft. by 4 ft. square. If possible cover the so cleared area with clay. If you happened to have a sheet of flat iron 4 ft wide use it instead of clay.

(c) Bend the masonite into circle 3 ft. 6 in. diameter and place it over the flat cleared area. Support the masonite on the outside to prevent the circle to open up under the pressure of soft concrete. Use either rocks or drive pegs into the ground all around the masonite.

SUMMARY OF SURVEY OF VILLAGE WATER SUPPLIES - VANIMO, PAGEI, WALSA AND GREEN RIVER COUNCILS.

VILLAGE	POPULATION	TYPE OF SCHEME	NO. OF PIPES	ESTIMATED COST $	PRIORITY	REMARKS
Vanimo Station (20)	1500					No Recommendation
Vanimo Village (7)	507	Well	1	Nil	First	Modification of existing well.
Wutung (19)	254	2 wells	6	200	Second	Coral in Village
Pagei Station (10)	150					No Recommendation
Amoi (8)	120	Well		Nil	First	Clean and deepen existing well.
Idoli & Apwambo (9)	280			Nil	Second	Clean and repair existing well.
Imonda Station (11)	210					No Recommendation
Namola Area (12-15)	436	Catchment		2000	Second	Nylex catchment & fibreglass tanks
Green River Station (16)	150					No Recommendation
Abaru (17)	100	Well	3	150	Second	River alluvium. Beside Village.
Dieru (18)	140	Well	3	150	Second	River alluvium. Beside Village.

(d) Cut another strip of masonite this time one inch wide and 9 ft. 6 in. long and bend it into a circle.

(e) Cut ARC mesh into a circle 3 ft. 9 in. diameter. Going around the circumference of the ARC mesh cut every 12 inches at 2 ½ in. deep cut. Bend at right angle all the 12 undercut sections making thus a rim 2½ inches high. Place this inside the large masonite circle. In order to keep the mesh 1½ inches from the ground place several suitable stones under the mesh.

(f) Mix concrete 3 : 2 : 1 and pour it within the masonite circle three inches deep. Make sure that the surface of the concrete is level and of uniform thickness. Leave the concrete undisturbed for about six hours.

(g) After the lid has set hard, that is about six hours, place gently the small (9 ft. 6 in. long, and 1 in. high) masonite strip bend into a 3 ft. diameter circle on top of the concrete. This will give a three inch wide lip all round. The bend-over edges of the ARC mesh should be now right in the middle between the two masonite strips.

(h) Cast concrete and leave it for 48 hours before stripping the masonite strips. Keep on pouring water every two hours during the day for two days and keep the whole casting covered with leaves and branches for at least four days.

7. Make a box for the pump stand and place it around the suction pipe. Make sure that the threaded end of the suction pipe extends six inches above the top of the box. To prevent accidental damage to the pipe place a bung in the opening. Cast concrete mix 4 : 2 : 1. Cure for four days. Box formwork can be gently opened up after 24 hours. The gap so created will keep the concrete protected from direct sun and allow at the same time access of curing water. Cover top with leaves. Do not place the pump on its stand until the concrete has been standing for 14 days minimum but better 21 days. When casting the concrete for the stand you must remember to fit the "Loxins" and Holding Down bolts. The best way to do that is to remove the Bottom Plate from the hand pump and screw it on the 1½ in. diameter suction pipe which has been brought up to 1 ft. 8 in. above the apron. By screwing the plate down by 2 in. the base will be as shown on the drawing 1 ft. 6 in. Place the Holding Down bolts (⅜ in. diameter x 6 in. long) through the holes in the plate and screw the "Loxins" from the bottom of the plate. There will be enough space left between the formwork of the stand and the edge of the plate to allow you to pour concrete into the formwork. The "Loxins" will be thus cast as an integral part of the stand.

8. While the pump stand is curing, build a bush material roof over the pump and a fence around it.

9. After the stand has been cured and aged for at least 14 days place the pump in position and the job is completed.

10. Do not try to economize and do not use Holding Down bolts without "Loxins".

11. While most moulds for concrete pipes for water wells produce a pipe 3 ft. 6 in. outside diameter and 2 in. thick wall giving 3 ft. 2 in. inside diameter, some moulds differ and you must make sure what you have before starting the job. Lock the outside mould in its working position and check the diameter. If the outside diameter is 3 ft. 6 in. all above notes refer. If the outside diameter is not 3 ft. 6 in. use the table given below. The various sizes will affect the making of the lid only.

Outside diameter of Concrete pipe. (No other sizes are expected to be in use.)	Length of masonite strip for making the lid.	
	Outside formwork.	Inside formwork.
3 ft.	11 ft.	9 ft. 6 in.
3 ft. 4 in.	12 ft.	10 ft. 6 in.
3 ft. 6 in.	12 ft. 6 in.	11 ft.
3 ft.10 in. (very rarely)	13 ft. 6 in.	12 ft.

The really important size is the length of the strip for INSIDE FORMWORK. To check that you are right, take your already cut strip and fit it round the concrete pipe protruding from the ground. If the two ends of the strip just touch one another, you are right and you can safely cast the lid.

13. While older moulds were always 4 ft. long, it is more convenient to make them 3 ft. long. They produce pipes which are easier to handle.

PART III.

Repairs to the Well.

Older type wells will have Holding Down bolts fitted to the stand without "Loxins". When you have to remove the pump, there is no alternative but to cut the bolts. Only after cutting the bolts you can unscrew the Bottom Plate. In order to re-connect the pump it is recommended to locate it in such a position that the new bolts fall over the concrete and not over the old, cut-off bolts. Now proceed as follows:-

(a) Detach Bottom Plate from pump;

(b) Place the plate on the concrete stand making sure that none of the cut-off bolts show through plate holes;

(c) Mark the holes (through the plate) on the concrete stand;

(d) Using a star drill size ½ in. and a 2 lb. hammer cut holes for the "Loxins". "Loxins" are expanding fittings which you can put in the concrete after it has set hard. Press the "Loxins" in to the holes. You need ⅝ in. "Loxins" size suitable for bolts size ⅝ in. x 6 in. long. Make sure the tops of "Loxins" are flush with the concrete; and

(e) Screw the pump on to the suction pipe until the pump base is tightly sitting on the "Loxins" and on the concrete stand. Screw down the Holding Down bolts into the "Loxins"and the well is completed. If your Holding Down bolts are of a size different to the ⅝ in. assumed above, you have to change also the size of the "Loxins".

NOTE.- Do not be tempted to economize and cast Holding Down bolts in the concrete at the time of casting the stand.

A P P E N D I X V

SANITARY WATER WELL. FIBREGLASS LINER FOR FLOOD AREAS AND INSTRUCTIONS FOR INSTALLATION

TERRITORY OF PAPUA AND NEW GUINEA

DEPARTMENT OF PUBLIC WORKS AND DEPARTMENT OF PUBLIC HEALTH

RELNGLASS LINED SANITARY WATER WELLS

(By J.R. Lee, Local Government Engineer)

Materials for these wells are dearer than for conventional concrete lined wells, especially when the concrete pipes are cast in situ by the Council labour. However, the following advantages make Relnglass lined wells cheaper when all costs are added together. In certain instances Relnglass lined wells can be installed in localities where concrete lined wells are impractical.

Advantages.

(i) The liner can be carried by one man about 60 lbs as against 2 tons for concrete;

(ii) No delays for casting of pipes;

(iii) No supervision of casting;

(iv) Much easier to erect;

(v) Sand and gravel required only for the apron and pump stand;

(vi) Can be installed in flood areas and work successfully when submerged under 5 ft. of water above ground. Concrete lined wells will get contaminated;

(vii) Low freight cost when materials have to be moved by air;

(viii) With an addition of reinforcing steel ring costing $22 will work in light sand soils where concrete pipes overturn and collapse.

Disadvantages.

One only - price. A 12 ft. concrete pipe well liner with pipes made in situ complete with pump and accessories costs about $100 while a Relnglass unit costs about $150. However for remote bush locations extra handling of concrete, including maybe airfreight of cement, brings the concrete lined well costs up to $150.

Construction.

1. Locate the well site and excavate the first 4 ft. Keep hole 3 ft. 6 in. diameter.

2. Assemble the rings. To do this drill 3/8 diameter holes at 2 inch centres and 1 inch from the edge. To have correct fitting, overlap the two edges to be drilled and drill right through the two walls. Insert bolt and nut. Do this at the four corners. Now that the halves are lined up and are well secured, drill the remaining holes. Do this for both longitudinal and horizontal laps.

.../2

3. After drilling has been completed mark the halves and abutting pipe edges so that the sequence will remain the same. This is important because the 2 inch spacing for holes is only nominal as you have no facilities to do it accurately in the bush. You will be often out by 1/8 or more inches between centres and if you do not mark your sections they will not fit again when re-assembled.

4. Take the first two halves, insert ½ inch square compribond sealer strip between the overlapping faces and tighten all nylon bolts and nuts along the longitudinal edge. Do the same with the second pipe and connect the two 4 ft. lengths together. Place this in the already excavated hole.

5. Keep on excavating until the top pipe extends about 6 inches above ground level. Connect the third length of 4 ft. pipe.

6. Keep on connecting subsequent pipes remembering that the last pipe must extend 2 ft. above ground level in all locations NOT SUBJECT TO FLOODS. If the well is erected in an area subject to floods add another length of 4 ft. pipe to the 2 ft. section protruding from the ground. Ensure good joint between these two pipes.

7. Before connecting the pipe which is to protrude 2 ft. from the ground, cut a 1½ inch diameter hole 1 ft. from the edge of the pipe and after drilling the required 3/8 inch holes connect the suction pipe fitting supplied with the liner. This is also made of Relnglass. Use nylon bolts and nuts and insert the compribond strip.

8. Proceed with the remaining installation of pump fittings and apron as for the old concrete lined wells. A Relnglass well top is supplied with the liner so no concrete top should be made.

9. If you find that the bottom of the liner skirt is deforming under soil pressure use a steel reinforcing ring to keep the pipe in shape. This deformation will occur only in light sandy soils when the pipe is penetrating below water table. The ring is obtainable from J.D. HAYES, welding contractors, Scratchley Road, Badili, Port Moresby, or from any other steel yard. Hayes charges for the complete set as per drawing 15006 a sum of $21.31 ex shop.

10. To use the ring, screw the two halves together (they are undercut leaving a ½" gap between the steel ring and Relnglass liner) and insert it in the liner. Locate the ring about 6 inches from the bottom of the skirt. Turn on the two ¾ inch nuts to open up the steel ring. Keep on rotating the nuts until a tight fit is obtained between the liner and the steel ring.

11. In extreme cases a second ring will be required and should be fitted adjacent to the bottom lap joint between the bottom most and number two pipe.

12. If no rings were ordered with the liner and flattening of pipes occur, it is recommended to stop construction work, order the required number of rings and resume work on delivery of the steel reinforcing ring(s).

28th December, 1966.

A P P E N D I X V I

SANITARY WATER SPEAR AND INSTRUCTIONS FOR INSTALLATION

TERRITORY OF PAPUA AND NEW GUINEA

DEPARTMENT OF PUBLIC WORKS AND DEPARTMENT OF PUBLIC HEALTH

SANITARY INSTALLATION OF WATER SPEARS.

(By J.R.Lee, Local Government Engineer).

General

Water Spears are used in localities where a good flow of clean water occurs under a layer of light sandy soil. This is the cheapest and easiest method of providing safe drinking water to a village community.

It often happens that after an initial successful operation the pump ceases to deliver water. This is invariably due to silting up of the spear by very fine particles of sand. The situation can be corrected by determining (using a sieve) the quantity and size of gritty particles and replacing the standard spear head by a unit fitted with finer gauze.

Construction Method

1. Mark centre line of spear and excavate 2 ft. deep x 3 ft. square hole.

2. Starting from the centre line of spear excavate trench 1 ft. deep x 6 inches wide and 15 ft. long.

3. Either

   Attach 2'6" long sections of 1½" C.I. pipe to the spear and a 1½" pipe clamp (made by Southern Cross). Hammer the spear and pipe into the ground. As penetration progresses, attach additional lengths of 2'6" long 1½" C.I. pipes, always protecting the hammered surface with the 1½" pipe clamps. KEEP THE SPEAR FULL OF WATER ALL THROUGH THE DRIVING OPERATION.

   Or

   Drill a hole using 4" auger as far as it is practical (you will not be able to remove wet sand from the hole with the auger) and then drive the spear down to the desired depth using 1½" pipe clamp as described above. KEEP THE SPEAR FULL OF WATER ALL THROUGH THE DRIVING OPERATION.

4. Connect all pipe fittings as shown on the drawing.

5. Back fill trench and bolt above the spear.

6. Cast pump stand. Use a templet to locate loxins. Use A.R.C. 610 reinforcing mesh in the pump slab. If you omit this point your slab is more than likely to crack. Do not forget to provide drainage as shown on the drawing. The area under the pump outlet is the most important.

7. Connect pump.

8. Erect a bush material fence round the spear. This should be 20 ft. in diameter and must be of a type preventing access to the area by children, pigs and poultry.

9. A bush material roof over the pump is recommended, but optional.

28th December, 1966.

COMMONWEALTH OF AUSTRALIA

DEPARTMENT OF NATIONAL DEVELOPMENT

BUREAU OF MINERAL RESOURCES GEOLOGY AND GEOPHYSICS

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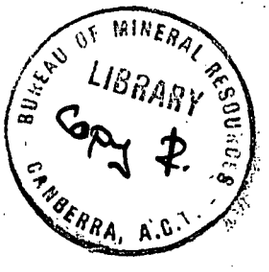
PART 2.

DETAILED RECOMMENDATIONS, WEST SEPIK DISTRICT

EAST AND WEST SEPIK DISTRICTS, WATER SUPPLY SURVEY

by

J.R.L. Read



The information contained in this report has been obtained by the Department of National Development, as part of the policy of the Commonwealth Government, to assist in the exploration and development of mineral resources. It may not be published in any form or used in a company prospectus without the permission in writing of the Director, Bureau of Mineral Resources, Geology and Geophysics.

15928/65

EAST AND WEST SEPIK DISTRICTS WATER SUPPLY SURVEY

by

J.R.L. Read

RECORDS 1967/31

(IN THREE VOLUMES)

PART 1. GENERAL

PART II. DETAILED RECOMMENDATIONS, WEST SEPIK DISTRICT

PART III. DETAILED RECOMMENDATIONS, EAST SEPIK DISTRICT.

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EAST AND WEST SEPIK DISTRICTS WATER SUPPLY SURVEY

by

J.R.L. Read

RECORDS 1967/31

PART II. DETAILED RECOMMENDATIONS, WEST SEPIK DISTRICT.

Contents

Vanimo Council	Vanimo Sub-District
Pagei Council	Pagei Sub-District
Walsa Council Green River Council	Amanab Sub-District
Siau Council	Aitape Sub-District
Makru Klaplei Census Division Wapei Council	Lumi Sub-District
May River, Wangamusen, Upper Sepik and Main River Census Divisions Gaui Council	Ambunti Sub-District

SURVEY OF VILLAGE WATER SUPPLIES .....DISTRICT

VILLAGE ..VANIMO STATION.....

COUNCIL .....

CENSUS DIVISION .....

SUB-DISTRICT ....VANIMO.....

POPULATION .....1500.....

ACCESS .....Aicraft.....

.....

HEADMAN/COUNCILLOR .....

.....

WATER USE - Domestic/Government School/ Mission/Mission School/Hospital/First Aid/ Stock/Irrigation

PROJECTED DEVELOPMENT .....

.....Town Status.....

ESTIMATED DEMAND .....

LOCATION MAP

PRESENT SUPPLY

RAINFALL .....

WET SEASON From ..Oct.... to ..April

TYPE Rainwater catchment & 4 sanitary wells

DISTANCE FROM VILLAGE .....

TRANSPORT ..~~Aircr~~ Road.....

YIELD/RATE OF FLOW .....

QUALITY - Chemical .....

Bactereological .....

PROTECTION .....

REMARKS .....

.....

.....

.....

DRY SEASON From ..May.... to ..Sept

TYPE ...As above.....

DISTANCE FROM VILLAGE .....

TRANSPORT .....

YIELD/RATE OF FLOW .....

QUALITY .....Chemical .....

Bactereological .....

PROTECTION .....

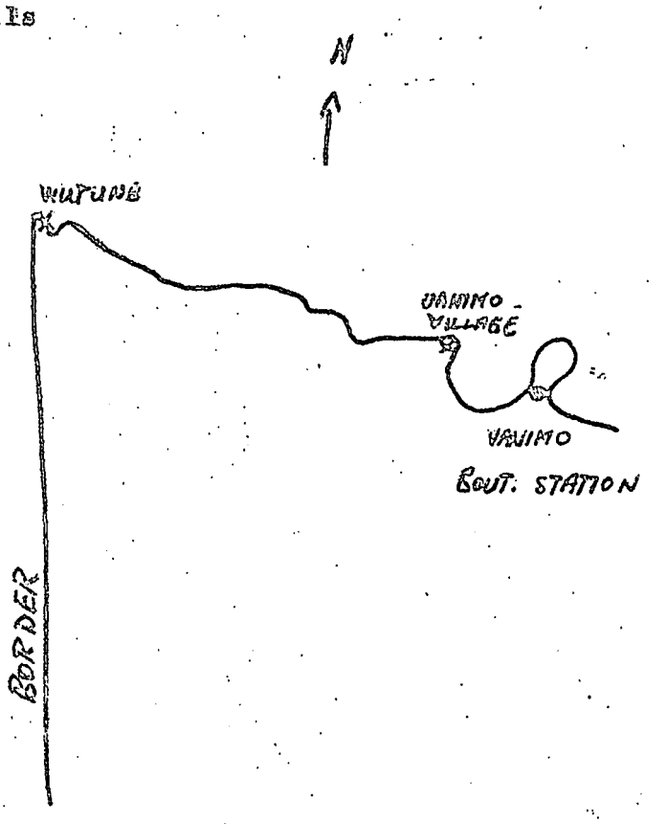
REMARKS ..Intermittant dry spells only

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Film 2, photo 19.

LOCATION MAP

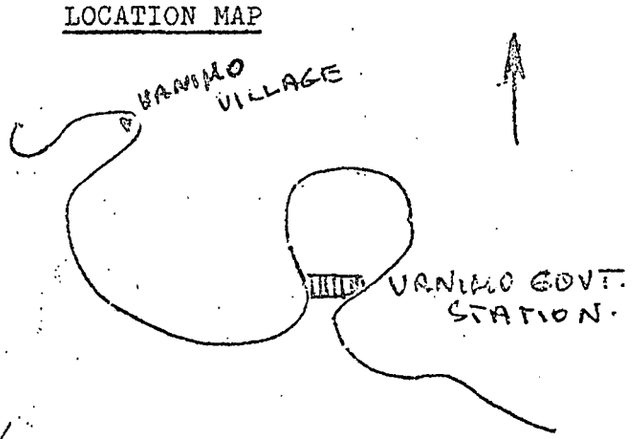


G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ...WEST.SEPIK.....DISTRICT

VILLAGE .VANIMO.....
COUNCIL .Vanimo.....
CENSUS DIVISION ....West.Coast...
SUB-DISTRICT ...Vanimo.....
POPULATION ....507.....
ACCESS ...Motor.Canoe.....
.....
HEADMAN/COUNCILLOR .MOIHE,.....
..SIWAPI..&..J..HOWARD.....
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

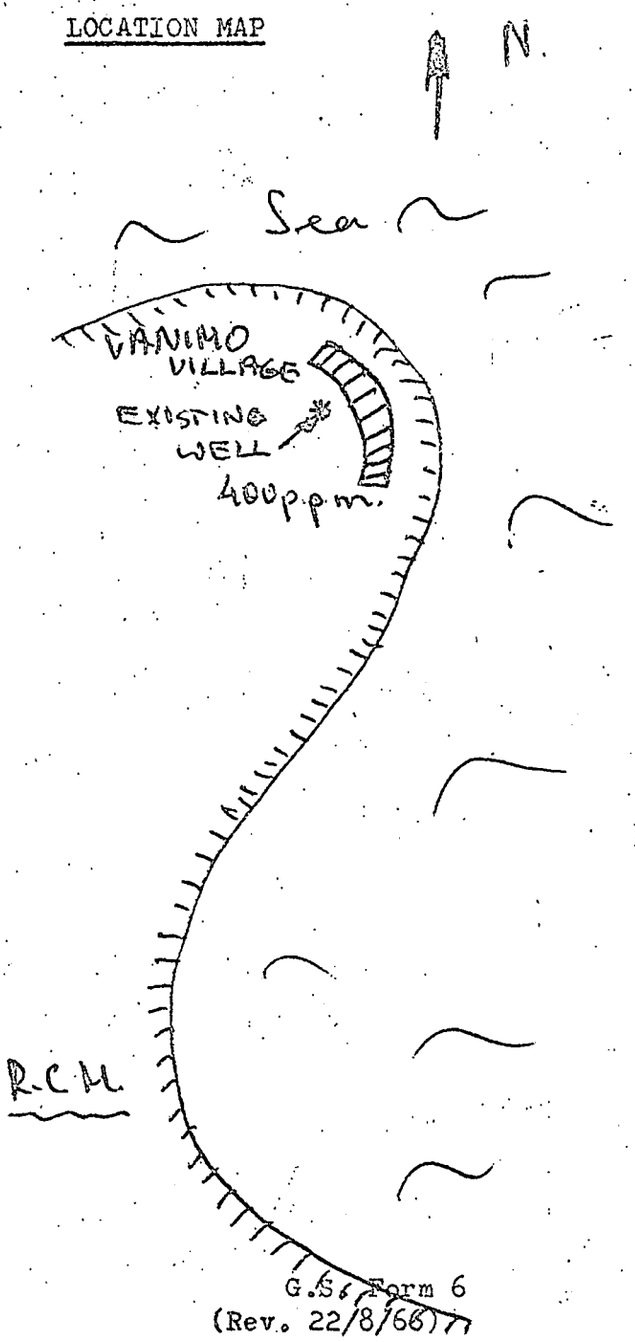
LOCATION MAP



PRESENT SUPPLY

RAINFALL ...120.....
WET SEASON From ..May... to ...Dec.
TYPE ...Well.....
DISTANCE FROM VILLAGE .West.central
TRANSPORT ...Road.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical ..400.ppm.....
Bactereological .....
PROTECTION ..Nil.....
REMARKS .....
.....
.....
.....
DRY SEASON From ..Jan.... to .April
TYPE ....As.above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ... WEST. SEPIK ..... DISTRICT

VILLAGE ... VANIMO .....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY .. Village west .....

.....

DISTANCE FROM VILLAGE ... West central .....

ACCESS ..... Road .....

LAND KNOWN TO ... Council, McCabe (A/D.C.), Smith (P.H.D.) .....

TYPE OF AQUIFER .... Coral .....

DETAILS OF SCHEME ... Improvement to present well to standard sanitary well requirements. One pipe required .....

.....

.....

MATERIALS REQUIRED .. As per standard drawing and as below .....

.....

LABOUR REQUIRED .... Local .....

SUPERVISION ..... Local .....

ESTIMATED COST ($) .. Nil .....

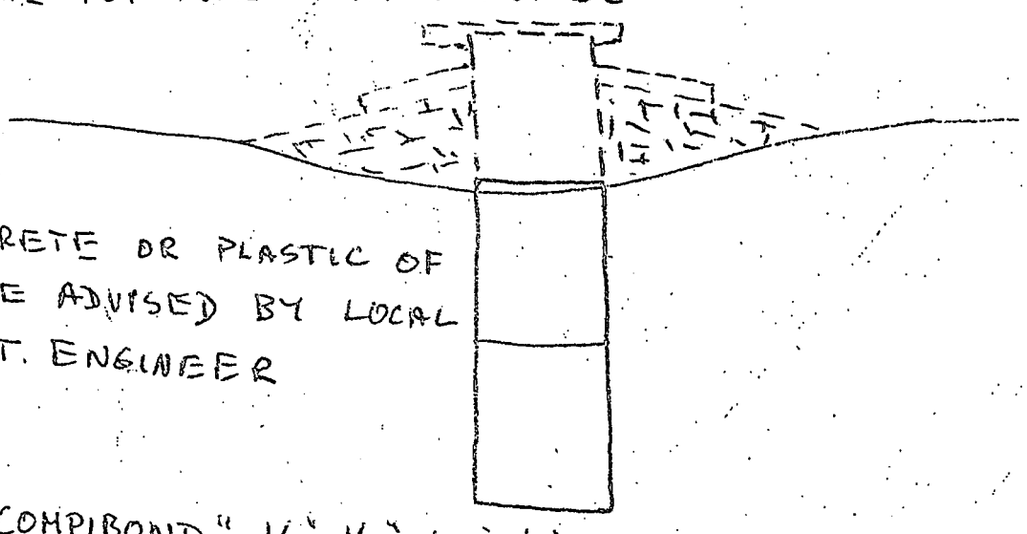
ALTERNATIVE SCHEME ..... A second well may be developed in the centre of .... the village if required .....

PRIORITY .. ~~Economic~~ First ... Signed ... J.R.L. Read ... Date .. 3/10/66

LOCATION MAP

Film 1, photos ~~12~~, 13, 14, 15

(i) USE EXISTING WELL BUT EXTEND BY ONE 4-FT. PIPE ABOVE GROUND.
(ii) CAST TOP AND PLACE AS SHOWN.
(iii) BACK FILL ROUND THE PIPE TO ENSURE SLOPING SIDES OUTWARDS
(iv) CAST APRON AS PER STANDARD P.H.D. DRAWING.
(v) THE TOP PIPE JOINT MUST BE MADE EITHER OF



CONCRETE OR PLASTIC OF A TYPE ADVISED BY LOCAL GOVT. ENGINEER

"COMPIBOND" 1/2" x 1/2" Jointing

SURVEY OF VILLAGE WATER SUPPLIES ...WEST SEPIK.....DISTRICT

VILLAGE ..WUTUNG.....

COUNCIL ..Vanimo.....

ADMIN. DIVISION ...West Coast....

DISTRICT ....Vanimo.....

POPULATION ..254.....

ACCESS .Power canoe from Vanimo....

.....

HEADMAN/COUNCILLOR ..LIMA.....

.....

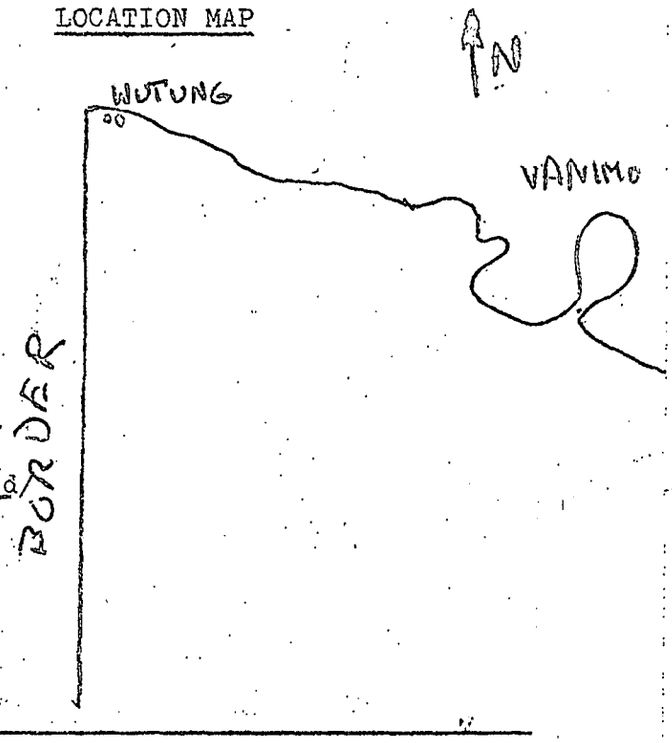
PRESENT USE - Domestic/Government School/
Plantation/Mission School/Hospital/First Aid
Post/Irrigation

PROJECTED DEVELOPMENT .....

.....

ESTIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

RAINFALL ...120.....

WET SEASON From ...May.. to ..Dec.

...2 .2 sanitary wells.....

DISTANCE FROM VILLAGE ...Central...

TRANSPORT ...Track.....

YIELD/RATE OF FLOW .....

QUALITY - Chemical .460.&.40.ppm...

Bactereological .....

PROTECTION .....

REMARKS .....

.....

.....

.....

DRY SEASON From ...Jan... to ..April

AS ABOVE ..As above.....

DISTANCE FROM VILLAGE .....

TRANSPORT .....

YIELD/RATE OF FLOW .....

QUALITY .....Chemical .....

Bactereological .....

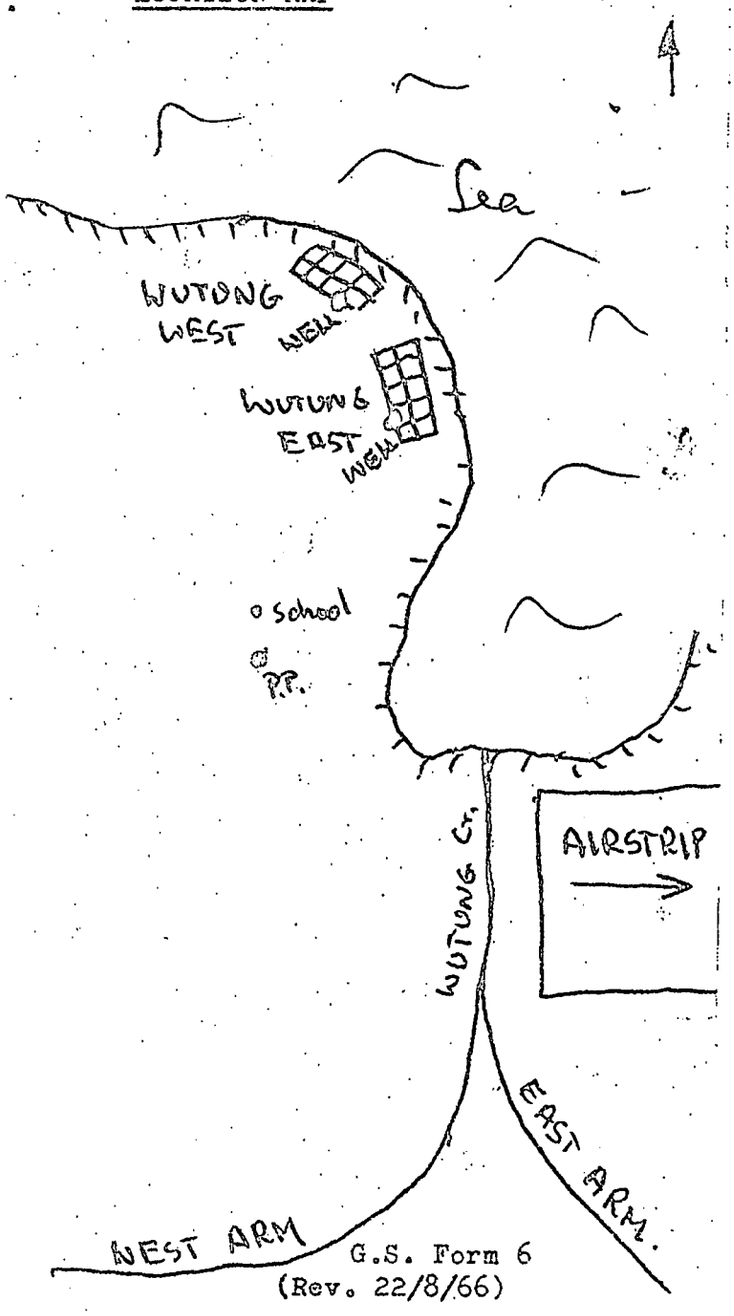
PROTECTION .....

REMARKS .....

.....

.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ..WEST SEPIK.....DISTRICT

VILLAGE ..WUTUNG.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ...One well centrally located in both East & West parts of village.....

DISTANCE FROM VILLAGE ...Central.....

ACCESS ...Track.....

SITE KNOWN TO....Lima. Smith.(P.H.D.).....

TYPE OF AQUIFER ...Coral.....

DETAILS OF SCHEME ....2. sanitary wells ..6. pipes.....

.....

.....

.....

MATERIALS REQUIRED ...As per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

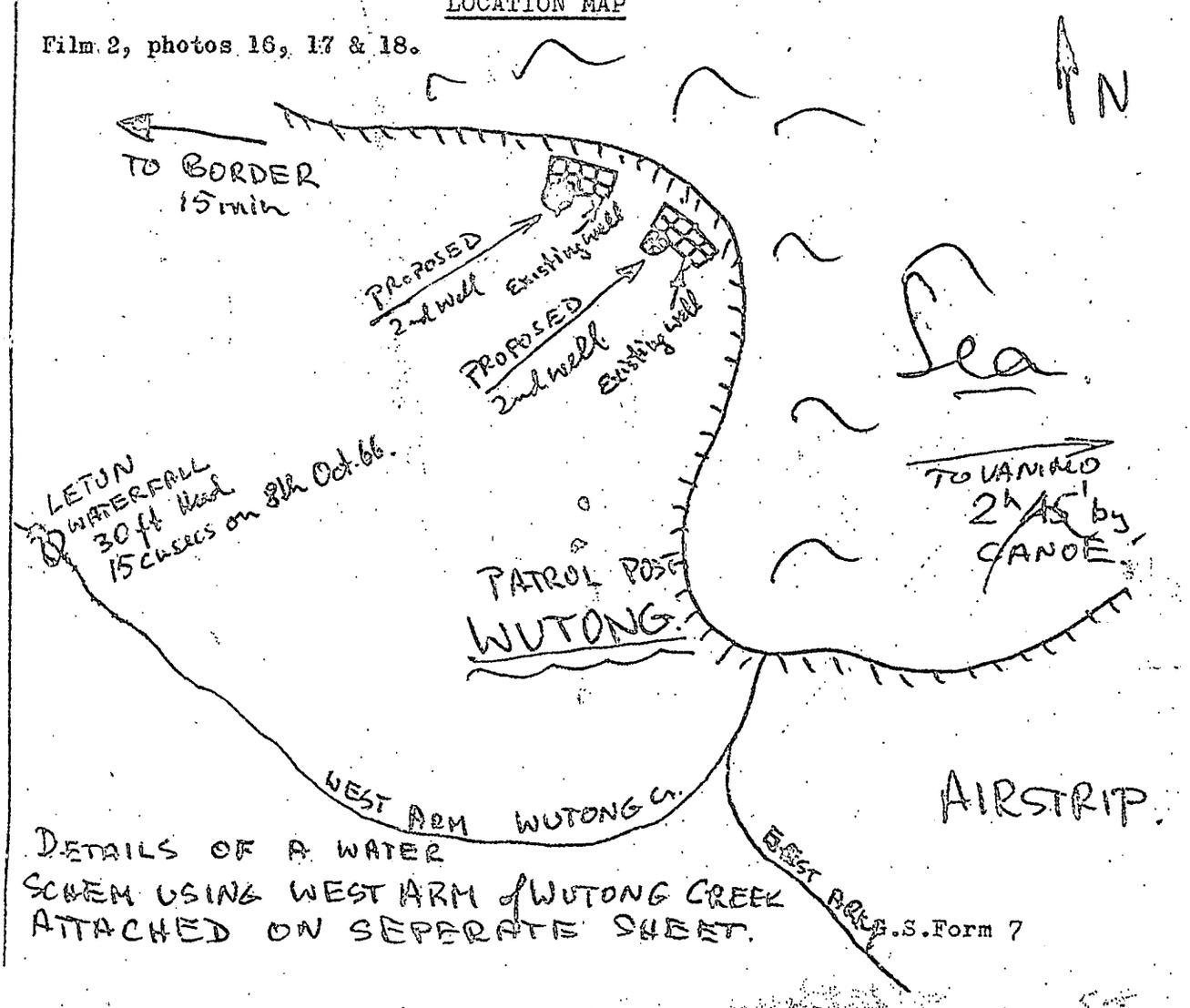
ESTIMATED COST ($) .....200.....

ALTERNATIVE SCHEME .Reticulated system to village drawing water from LETUN waterfall in west arm of Wutung Ck. Approx. cost $1500. see attached drawing

PRIORITY ..Second..... Signed ....J.R.L. Read.. Date 8/10/66.

LOCATION MAP

Film 2, photos 16, 17 & 18.



DETAILS OF A WATER SCHEM USING WEST ARM of WUTONG CREEK ATTACHED ON SEPERATE SHEET.

WUTONG

WATER SCHEME

Considering that there is an excellent well water supply in all the hamlets of WUTONG Village a piped water supply, apart from being expensive, may only lower the standard of drinking water. The only advantage which comes to mind is availability of showers, one for each hamlet.

The intake fitting should be located in a small concrete dam built into the side of water pool at the foot of the LETUN waterfall. There is no need for a drain fitting for this dam. Run a $1\frac{1}{2}$" pipe up to the first shower outlet which should be $\frac{1}{2}$" diameter pipe, hand bend. The remainder of the main pipe can be reduced now to $1\frac{1}{4}$" diameter and should terminate with a shower outlet $\frac{3}{4}$" diameter pipe hand bend. The two shower outlets should be supported by 2 in. diameter pipe stands cast into concrete slabs size 4 ft. x 6 ft x 4 in. thick. Use reinforcing mesh of the type A.R.C. 610 to prevent cracking of the slab which will be cast on loose beach sand.

The section of the $\frac{1}{2}$" poly pipe which crosses a creek 1733 ft. from waterfall must be supported by a ¼" steel rope anchored with two concrete blocks.

WUTONG VILLAGE

LETUN WATERFALL WATER SCHEME

VANIMO LOCAL GOVERNMENT COUNCIL

TOTAL DIST. FT.	SECTION FT.	% GRADIENT	SECTION HEIGHT	TOTAL HEIGHT	REMARKS
63	63	- 8	- 5	- 5	Bottom of waterfall
145	82	-10	- 8.2	-13.2	
206	61	- 8.5	- 5.1	-18.3	
290	84	- 2.5	- 2.1	-20.4	
360	70	+16	+11.2	- 9.2	
460	100	- 8	- 8	-17.2	
560	100	- 4	- 4	-21.2	
605	45	+25	+11	-11.2	
705	100	+ 2	+ 2	- 9;2	
805	100	- 3.5	- 3.5	-12.7	
896	91	- 2.5	- 2.2	-14.9	
996	100	- 5	- 5	-19.9	
1066	70	+ 1.5	+ 1.1	-18.8	
1151	85	- 2	- 1.7	-20.5	
1251	100	- 5.5	- 5.5	-26.0	
1351	100	- 4	- 4	-30.0	
1421	70	- 2.5	- 1.7	-31.7	
1509	88	- 2	- 1.7	-33.4	
1570	61	-22	-13.4	-46.8	
1636	66	- 4½	- 3	-49.8	
1733	97	+ 1	+ 1	-48.8	Line crosses creek
1909	76	+ 9	+ 6.3	-42.5	8ft. deep 30ft. wide
2009	100	- 3.5	- 3.5	-39.0	
2109	100	- 3	- 3	-42	
2209	100	- 2	- 2	-44	
2239	30	- 2⅓	- 0.7	-44.7	
2339	100	- 2½	- 2.5	-47.2	
2375	36	- 2¼	- 0.8	-48	
2437	62	- 4	- 2.4	-50.4	
2509	72	- 3.5	- 2.5	-50.9	
2587	78	- 1.5	- 1.1	- 52	
2671	84	- 2.5	- 2.1	-54.1	
2759	88	- 2.5	- 2.2	-56.3	
2804	45	- 5.0	- 2.2	-56.5	
2857	53	- 3.5	- 1.8	-58.3	
2921	64	- 4	- 2.5	-60.8	
2987	66	- 2.5	- 1.6	-62.4	
3087	100	- 1.5	- 1.5	-63.9	
3187	100	+ 0.5	+ 0.5	-63.4	
3243	56	- 4.5	- 2.3	-65.7	
3284	41	+ 2	+ 0.9	-64.8	
3334	50	+ 2	+ 1.0	-63.8	
3434	100	+ 1.5	+ 1.5	-62.3	
3534	100	+10.5	+10.5	-52.5	
3634	100	+14.5	+14.5	-38	
3734	100	- 0.5	- 0.5	- 38.5	
3834	100	- 7.5	- 7.5	-46	
3934	100	- 1.5	- 1.5	-47.5	
3959	25	-18.0	- 4.5	-52	
4059	100	-25.0	-25	-77	
4159	100	0	0	-77	
4259	100	- 4.5	- 4.5	-81.5	
4359	100	+ 1.0	+ 1	-80.5	
4459	100	- 2.5	- 2.5	-83	
4559	100	- 7.5	- 7.5	-90.5	
4638	79	- 4.5	- 3.7	-94.2	
4738	100	- 4.5	- 4.5	-98.7	
4838	100	- 7.5	- 7.5	-106.2	

TOTAL DIST. FT.	SECTION FT.	% GRADIENT	SECTION HEIGHT FT.	TOTAL HEIGHT FT.	REMARKS.
4938*	100	- 3.5	- 3.5	-109.7	Near water well Gawu. No.1 outlet & shower
5338	400	0	0	-109.7	Lemes' house
5438	100	+ 0.5	+ 0.5	-109.2	
5538	100	- 1.0	- 1.0	-110.2	
6338	800	0	0	-110.2	Beach at Wutong
6345*	7	-	7	-103.2	No.2 shower outlet

Low water flow estimated at 2-3 cu. secs.

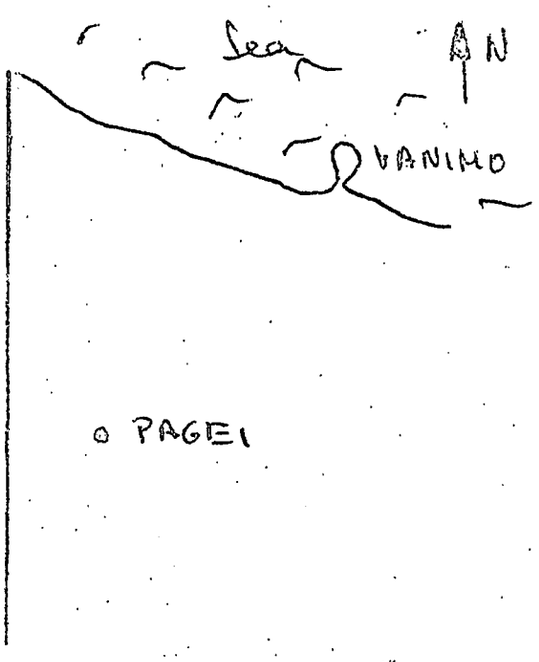
Locate water intake at the pool under the waterfall.

Allow for a flow of 5 G.P.M. at each of the two outlets.

SURVEY OF VILLAGE WATER SUPPLIES .....WEST SEPIK.....DISTRICT

VILLAGE ....PAGEI STATION.....
COUNCIL .....
CENSUS DIVISION ...Pagei.....
ADMIN.DISTRICT ...Pagei.....
POPULATION ...250.....
ACCESS ..Aircraft.....
.....
HEADMAN/COUNCILLOR .....
.....
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

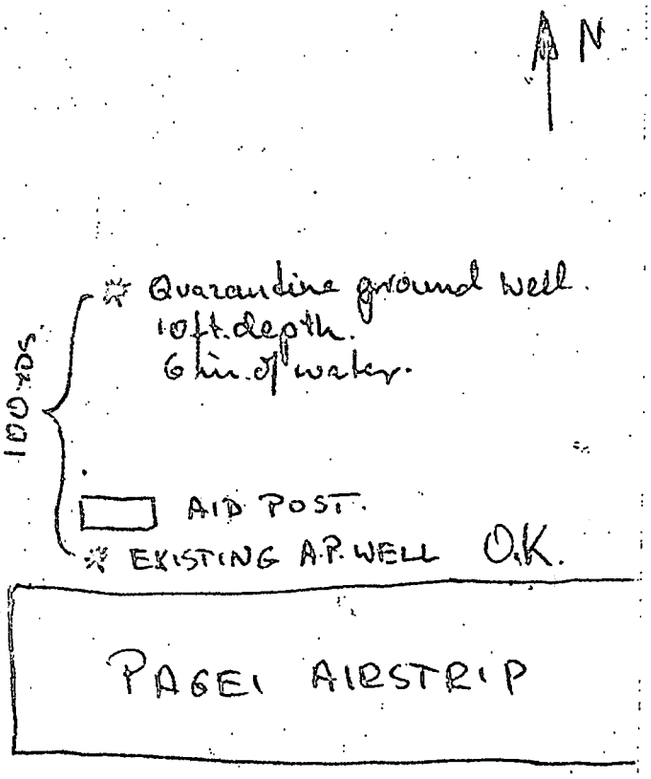
LOCATION MAP



PRESENT SUPPLY

RAINFALL ....100.....
DRY SEASON From ..Oct.... to ..April
TYPE ..Rainwater & 4 sanitory wells.
DISTANCE FROM VILLAGE .....
TRANSPORT ...Track.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....
.....
WET SEASON From ..May.... to ..Sept
TYPE ...As above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .Supply adequate, although
...wells need cleaning. No .....
...recommendation.....

LOCATION MAP

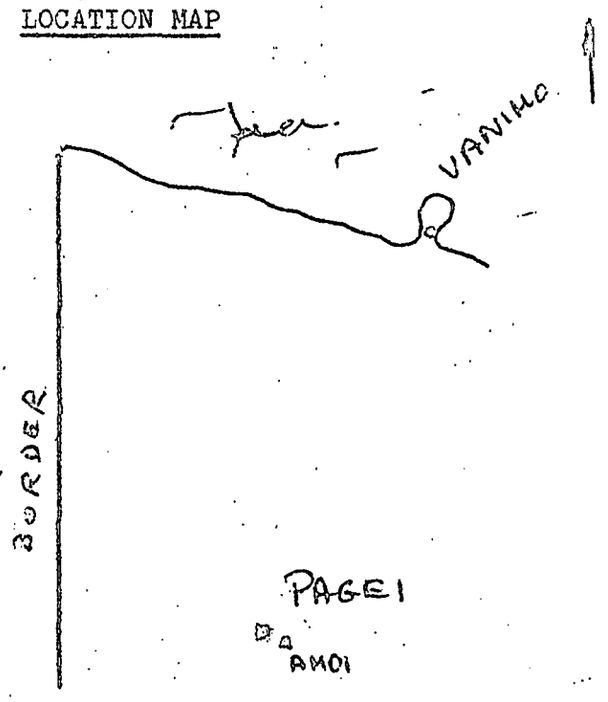


G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ..WEST SEPIK.....DISTRICT

VILLAGE ...AMOI.....
COUNCIL ...Pagei.....
CENSUS DIVISION ...Pagei.....
SUB-DISTRICT ....Pagei.....
POPULATION .....120.....
ACCESS ..Track from Pagei station
.....
HEADMAN/COUNCILLOR ..SAITE.....
.....
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

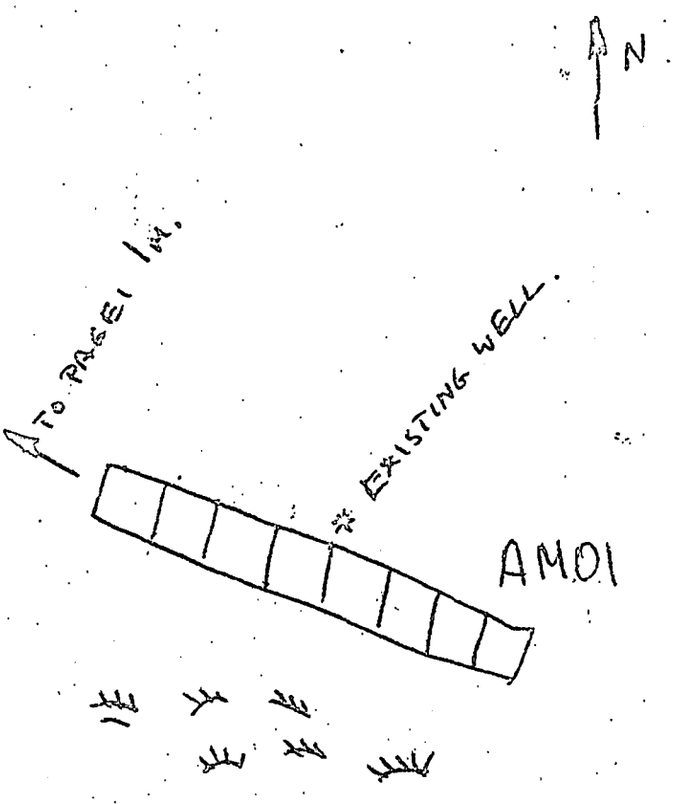
LOCATION MAP



PRESENT SUPPLY

RAINFALL ....100.....
WET SEASON From .Oct.... to .April.
TYPE ..Sanitary well.....
DISTANCE FROM VILLAGE .Central north
TRANSPORT ....Track.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....
.....
DRY SEASON From .May.... to .Sept.
TYPE ....As above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ...WEST SEPIK.....DISTRICT

VILLAGE ...AMOI.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ...Existing sanitary well.....

.....

DISTANCE FROM VILLAGE ....Central north.....

ACCESS .....Track.....

SITE KNOWN TO..Saite, Smith (P.H.D.).....

TYPE OF AQUIFER ...Silty coarse gravel.....

DETAILS OF SCHEME ....Sanitary well to be cleaned of silt and deepened .....as below.....

.....

.....

MATERIALS REQUIRED ....Local.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

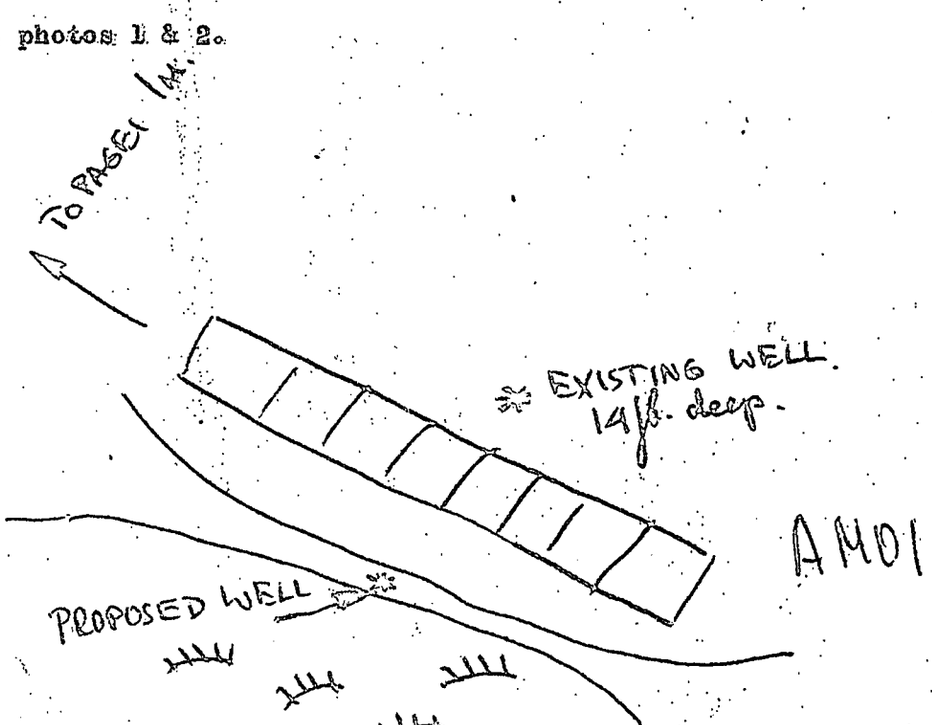
ESTIMATED COST ($) ....Nil. Materials.....

ALTERNATIVE SCHEME ..A second sanitary well may be sunk in vegetable ....garden north central village if required.....

PRIORITY ..X First..... Signed ...J.R.L. Read.. Date ..4/10/66

LOCATION MAP

Film 2, photos 1 & 2.



(i) Before excavating new well deepen the existing well by 6ft. Diameter 24in.
(ii) Fit 2 drums 44 gal as lining.
(iii) Extend the existing G.I. 1¼" pipe by 4ft. Request Health Inspector, Wewak, to supply the pipe threaded both ends.

If flow of water remains poor - abandon well and excavate a new one as shown. Top to be above flo

G.S. Form 7

...OF VILLAGE WATER SUPPLIES ...WEST SEPIK.....DISTRICT

...AGE ..IDOLI & APWAMBO.....

...CIL ..Pagei.....

...US DIVISION ...Pagei.....

...DISTRICT ....Pagei.....

...LATION ...220.....

...ESS ..Track from Pagei station.

.....

...MAN/COUNCILLOR ..NALI.....

.....

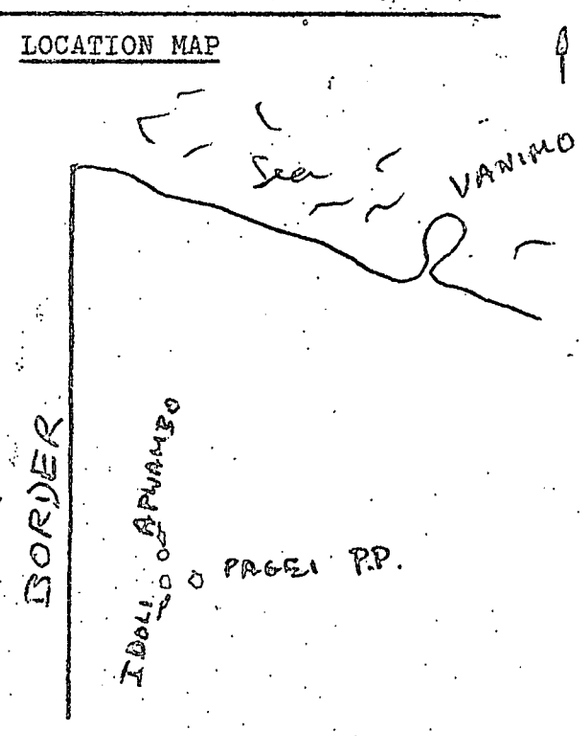
...ER USE - Domestic/Government School/
...on/Mission School/Hospital/First Aid/
...k/Irrigation

...JECTED DEVELOPMENT .....

.....

...IMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

...NFALL ...100.....

...T SEASON From .Oct.... to ...April

...E ... Sanitary well.....

...TANCE FROM VILLAGE ..300' from both

...NSPORT ....Track.....

...LD/RATE OF FLOW .....

...LITY - Chemical .....

Bactereological .....

...TECTION .....

...MARKS .....

.....

.....

.....

...T SEASON From .May..... to .Sept.

...S ... As above.....

...TANCE FROM VILLAGE .....

...NSPORT .....

...LD/RATE OF FLOW .....

...LITY .....Chemical .....

Bactereological .....

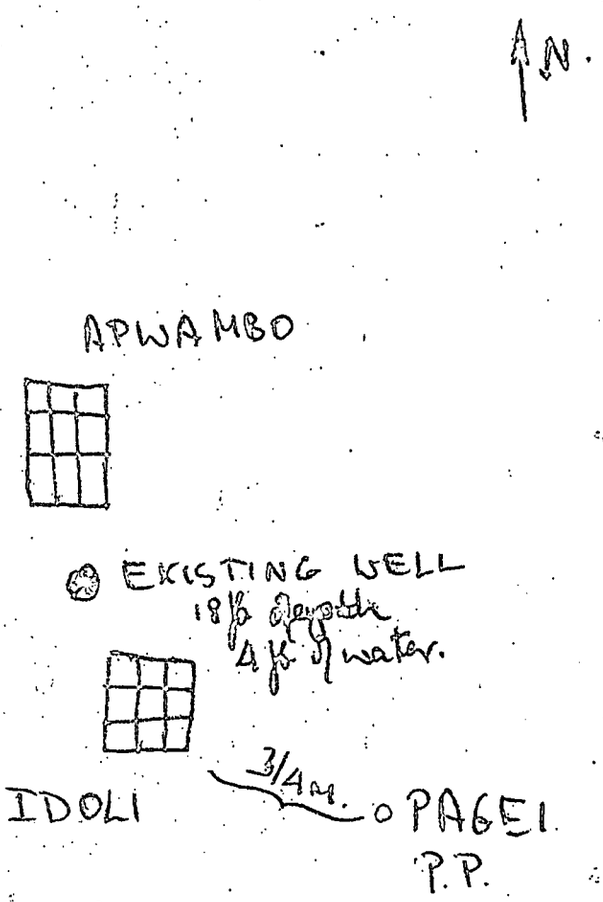
...TECTION .....

...MARKS .....

.....

.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ....WEST SEPIK.....DISTRICT

VILLAGE ....IDOLI & APWAMBO.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ...Existing sanitary well.....

.....

DISTANCE FROM VILLAGE .....300'. from both.....

ACCESS ....Track.....

SITE KNOWN TO...Nell, Smith (P.W.D.).....

TYPE OF AQUIFER ....Silty gravel.....

DETAILS OF SCHEME ....Sanitary well to be cleaned of silt and pump .....repaired.....

.....

.....

MATERIALS REQUIRED ....Local.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) ....Nil.....

ALTERNATIVE SCHEME .....

.....

PRIORITY ..Second..... Signed ...J.F.L. Read... Date ..4/10/66

LOCATION MAP

Film 2, photos 4(Apwambo), 5 & 6(Idoli).

APWAMBO & IDOLI

No new well required

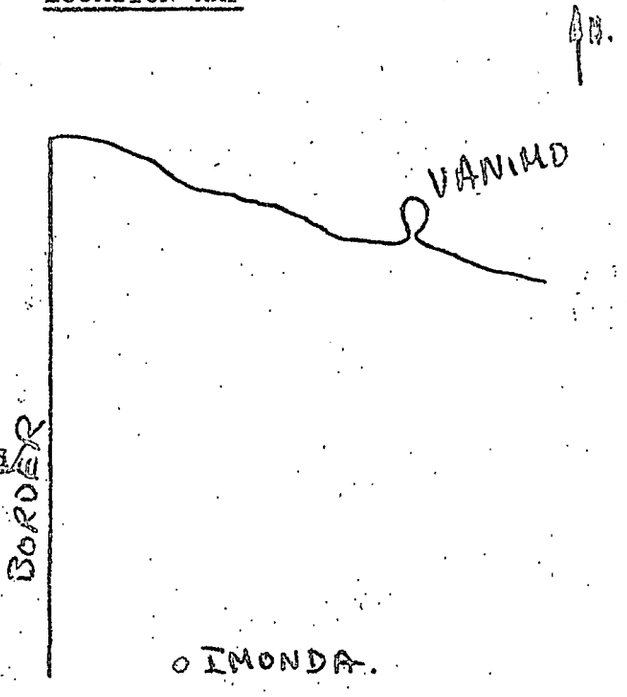
Replace broken pump.

G.S.Form 7

SURVEY OF VILLAGE WATER SUPPLIES ....WEST SEPIK.....DISTRICT

VILLAGE ..IMONDA STATION.....
COUNCIL ...Wola.....
CENSUS DIVISION ...Imonda Local..
SUB-DISTRICT .....Amanab.....
POPULATION .....210.....
ACCESS ....Aircraft.....
.....
HEADMAN/COUNCILLOR .....
.....
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid
Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

LOCATION MAP

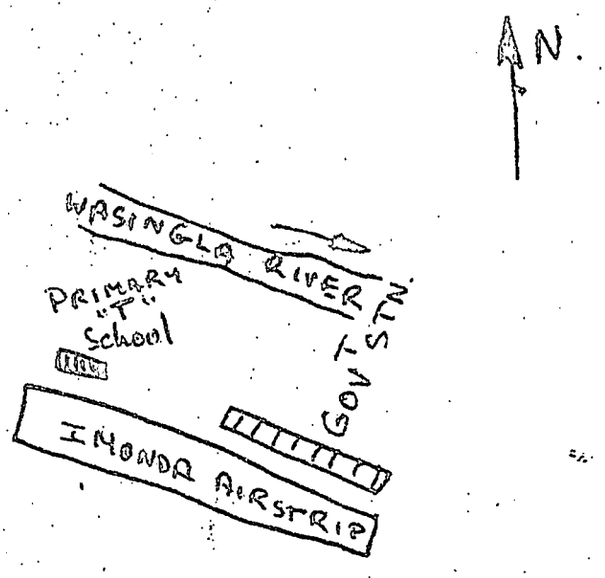


PRESENT SUPPLY

RAINFALL .....93.....
WET SEASON From ..Oct... to ..April
TYPE ....Rainwater.....
DISTANCE FROM VILLAGE .....
TRANSPORT ...Track.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION .....
REMARKS ..Adequate supply except in
extreme dry periods.....
.....
.....
DRY SEASON From .May..... to Sept.
TYPE .....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

Film 2 - photos 8 & 9.

LOCATION MAP

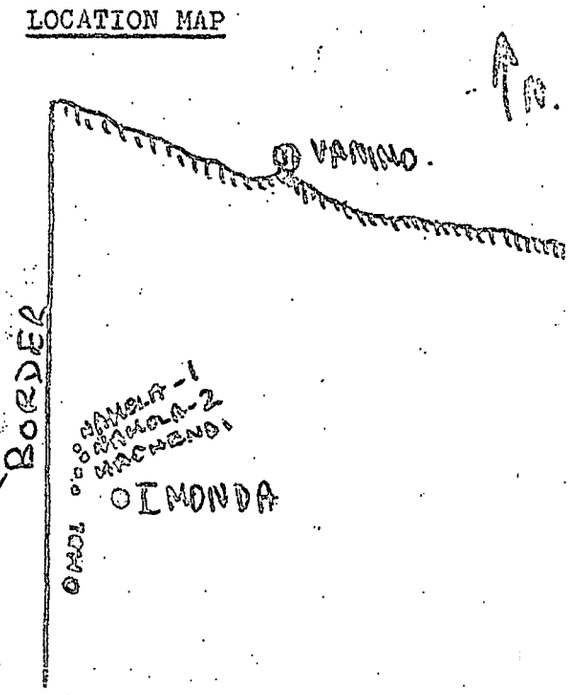


G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES .....WEST.SUKA.....DISTRICT

VILLAGE ..NAMOLA AREA.....
COUNCIL ...Valca.....
CENSUS DIVISION ..Imonda Local...
SUB-DISTRICT ...Amanah.....
POPULATION .....436.....
ACCESS ...Track from Imonda station
.....
HEADMAN/COUNCILLOR ..WERE ANDA...
.....
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

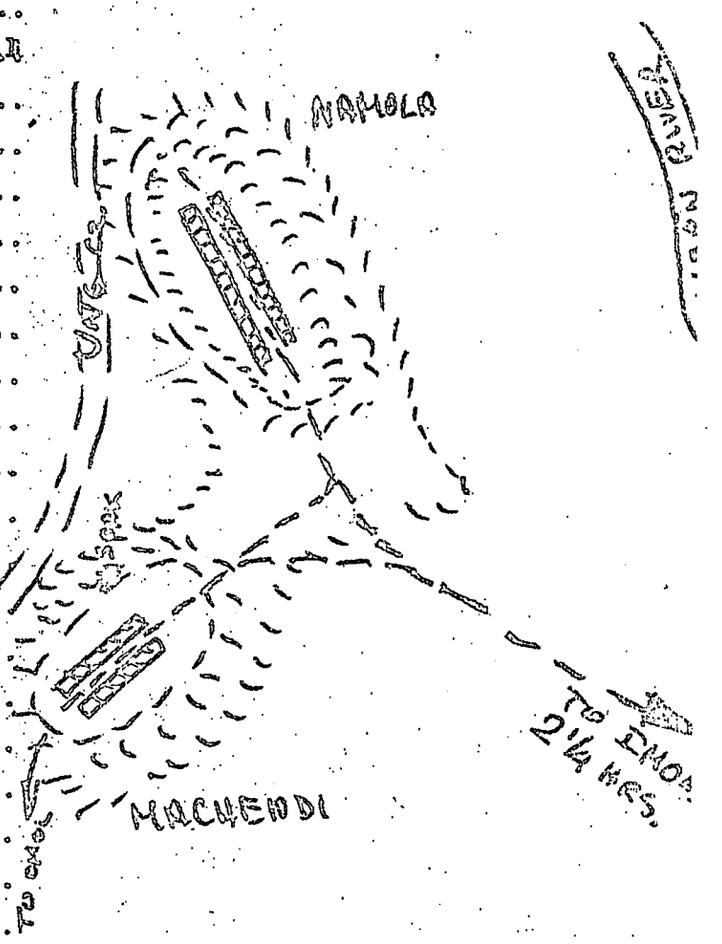
LOCATION MAP



PRESENT SUPPLY

RAINFALL ...120 cms.....
WET SEASON From .Oct.... to .April
TYPE .Soak & River.....
DISTANCE FROM VILLAGE ..5 mins.....
TRANSPORT ...Track.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION ....Nil.....
REMARKS .....
.....
.....
.....
DRY SEASON From ....May.... to Sept.
TYPE ....River.....
DISTANCE FROM VILLAGE ...½ hour....
TRANSPORT .....Track.....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION ...Nil.....
REMARKS ..Soaks on hillsides.....
dry up after prolonged dry season...
and village reliant on river water.

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ...WEST SEPIK.....DISTRICT

VILLAGE ...NAMOLA AREA..... RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ..Slopes.beneath.ridges.on.which.villages.are .....situated.....

DISTANCE FROM VILLAGE ...Central.....

ACCESS .....Track.....

SITE KNOWN TO...Smith.(P.H.D.).....

TYPE OF AQUIFER .....

DETAILS OF SCHEME .Rainwater.catchment.and.storage.in.each.of.the.4. .villages.in.the.Namola.area.-.Namola.1&.2,.Machendi.&.Amol.-.to... .augment.supply.during.the.dry.season..At.Namola.No..1.a.possible.well ..site.is.located.in.the.catchment.area.north.of.the.village.ridge...

MATERIALS REQUIRED ...Two.2000.gal.storage.tanks.and.plastic.catchment ..per.village.....

LABOUR REQUIRED ...Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) ...500.+.labour.in.each.village.....

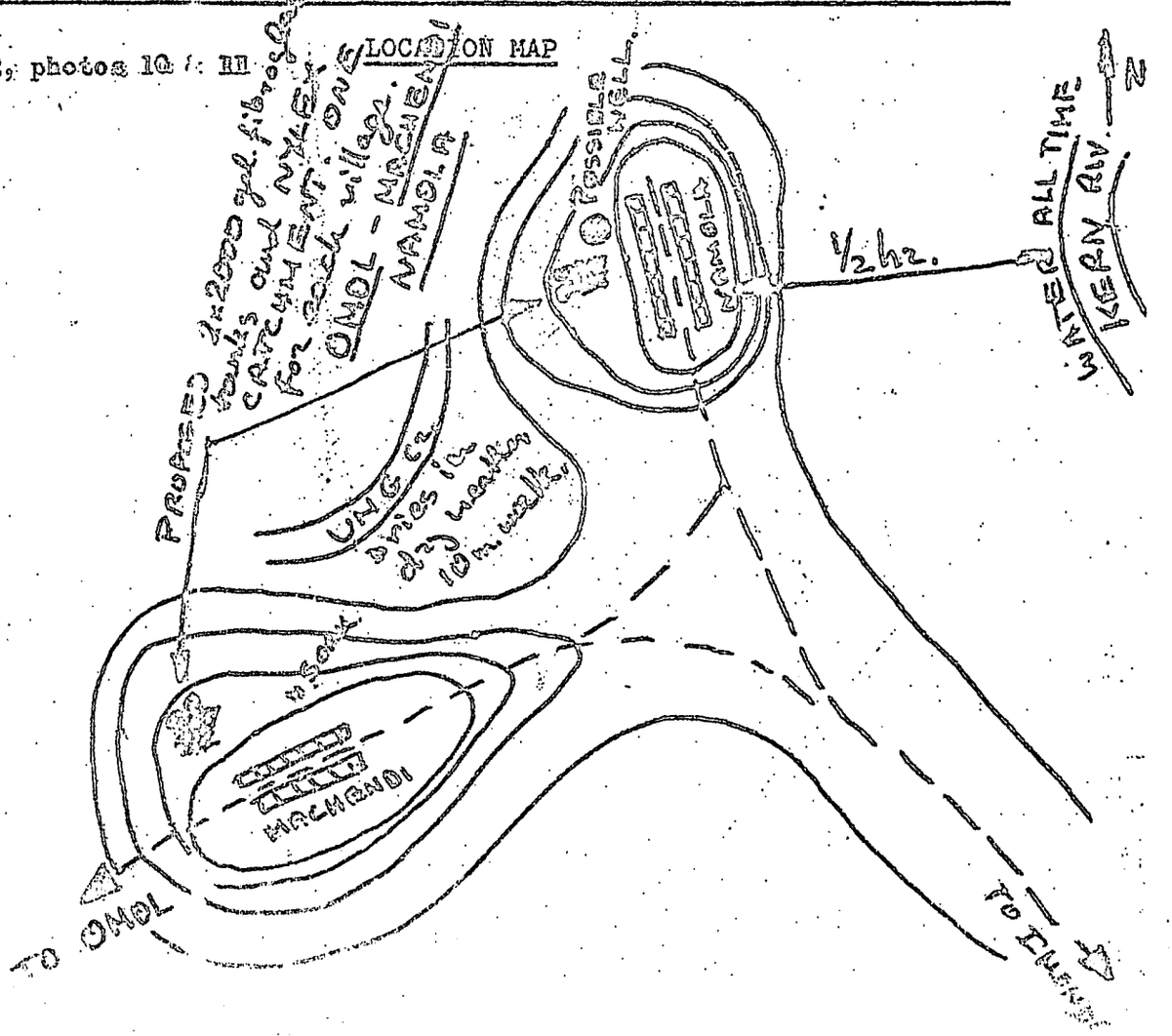
ALTERNATIVE SCHEME .....

.....

PRIORITY ...Second..... Signed ...J.P.L..Reed... Date .5/10/68

Film 2, photos 10 & 11

LOCATION MAP



SURVEY OF VILLAGE WATER SUPPLIES ....WEST SEPIK.....DISTRICT

VILLAGE ..GREEN. RIVER. STATION....

COUNCIL .....Green. River.....

CENSUS DIVISION ....Green.River.Local

SUB-DISTRICT ...Amanab.....

POPULATION .....150.....

ACCESS .Aicraft.....

.....

HEADMAN/COUNCILLOR .....

.....

WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation

PROJECTED DEVELOPMENT .....

.....

ESTIMATED DEMAND .....

LOCATION MAP

PRESENT SUPPLY

RAINFALL ...130.....

WET SEASON From .Oct... to ...April

TYPE ..Rainwater.b. catchment.....

DISTANCE FROM VILLAGE .....

TRANSPORT .....

YIELD/RATE OF FLOW .....

QUALITY - Chemical .....

Bactereological .....

PROTECTION .....

REMARKS .....

.....

.....

.....

DRY SEASON From .May.... to ..Sept

TYPE .....As.above.....

DISTANCE FROM VILLAGE .....

TRANSPORT .....

YIELD/RATE OF FLOW .....

QUALITY .....Chemical .....

Bactereological .....

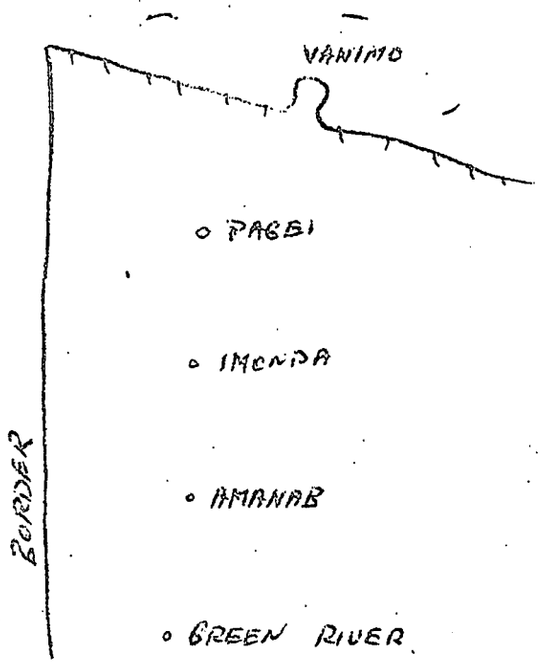
PROTECTION .....

REMARKS .....

.....

.....

LOCATION MAP

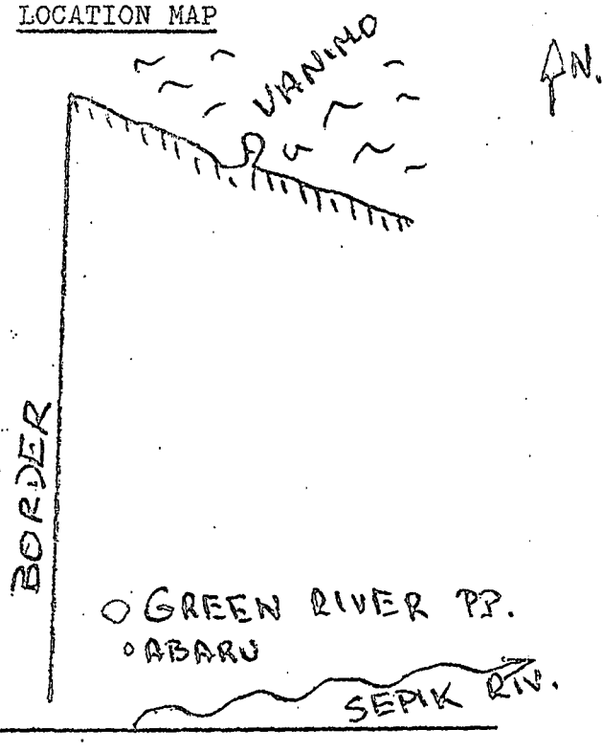


G.S. Form 6
(Rev. 22/8/66)

VEY OF VILLAGE WATER SUPPLIES ....WEST SEPIK.....DISTRICT

LLAGE ...ABARU.....
NCIL ....Green River.....
NSUS DIVISION ...Green River Local
DISTRICT ...Amanab.....
ULATION ...100.....
CESS .Track from Green River station
.....
N/COUNCILLOR ...ANOWAP.....
.....
ATER USE - Domestic/Government School/
ion/Mission School/Hospital/First Aid/
ck/Irrigation
ECTED DEVELOPMENT .....
.....
IMATED DEMAND .....

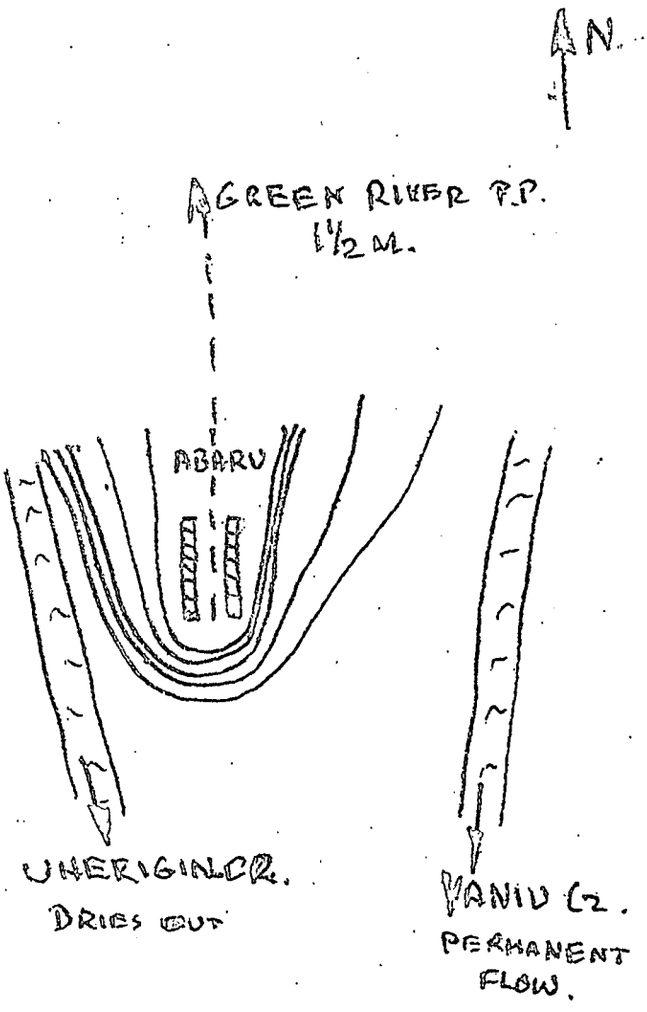
LOCATION MAP



PRESENT SUPPLY

INFALL ....130.....
SEASON From ..Oct.... to ..April
PE ...Stream.....
STANCE FROM VILLAGE ...2-3 mins.
RANSPORT ....Track.....
IELD/RATE OF FLOW .....
ALITY - Chemical .....
Bactereological .....
TECTION .....Nil.....
MARKS .....
.....
.....
.....
Y SEASON From ..May.... to ..Sept
PE ...As above.....
STANCE FROM VILLAGE .....
RANSPORT .....
IELD/RATE OF FLOW .....
ALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS Unerigginer stream dries....
...out in dry season.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

VEY OF VILLAGE WATER SUPPLIES ...WEST.SEPIK.....DISTRICT

LAGE ...ARAWU.....

RECOMMENDATIONS

PE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

CATION OF NEW SUPPLY ..Yaniu..~~on~~ stream.flats.on.eastern.side.of... ....village.ridge.....

STANCE FROM VILLAGE ....150 feet.....

CESS .....Track.....

EN KNOWN TO.....Smith.(P.H.R.).....

PE OF AQUIFER ...River.alluvium.....

TAILS OF SCHEME ...Sanitary.well..3.pipes.....

.....

.....

.....

TERIALS REQUIRED ...As.per.standard.drawing..using.fibreglass.pipes.

.....

BOUR REQUIRED .....As.per.standard.drawing.....

PERVISION .....Local.....

TIMATED COST ($) ....150.....

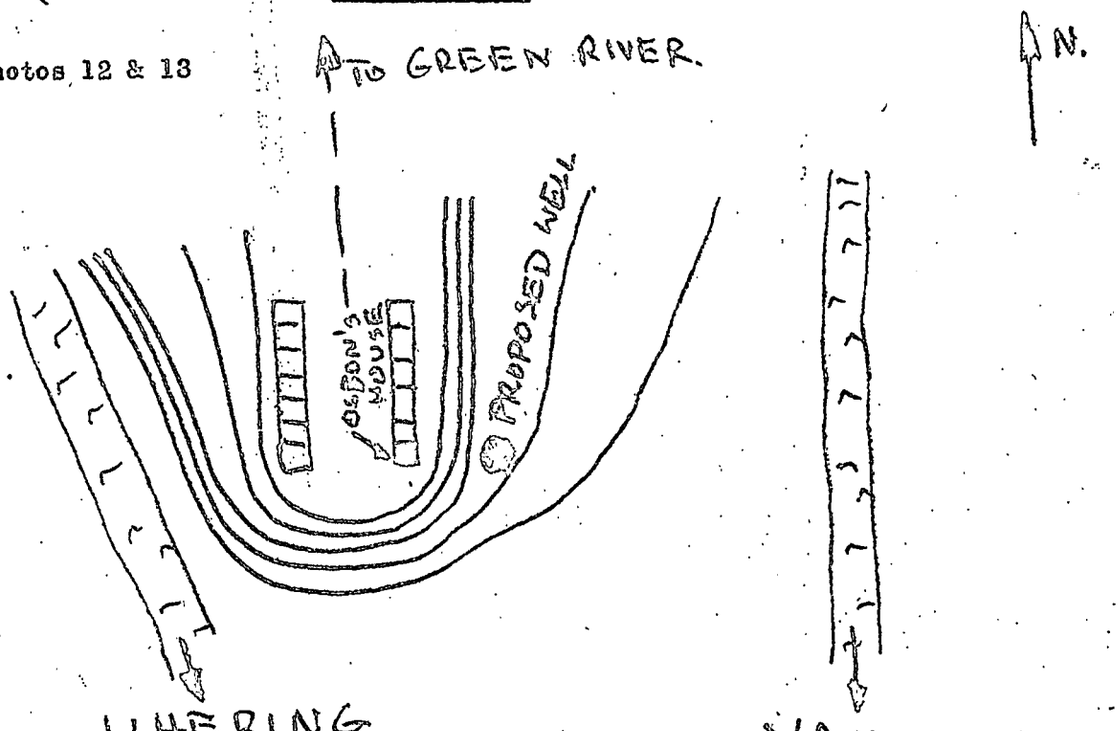
LTERNATIVE SCHEME .....

.....

ORITY ...Second..... Signed ....J.R.L. Read. Date ...6/10/66

LOCATION MAP

lm 2, photos 12 & 13

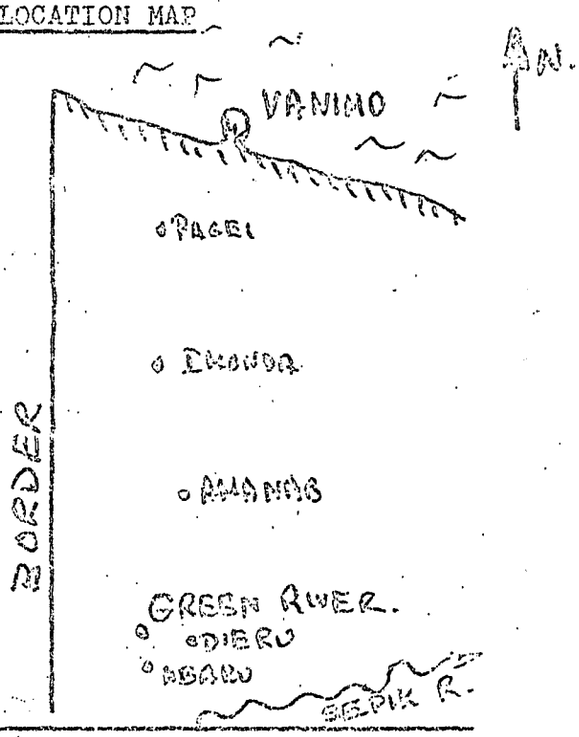


G.S.Form 7

...EY OF VILLAGE WATER SUPPLIES ....WEST SEPIK.....DISTRICT

...GE ..DIERU.....
...CIL ..Green River.....
...C DIVISION .Green River Local
...STRICT ...Ammab.....
...ATION ...140.....
... .Road from Green River station
.....
...M/COUNCILLOR ...VOKO.....
.....
... USE - Domestic/Government School/
.../Mission School/Hospital/First Aid/
... Irrigation
...ED DEVELOPMENT .....
.....
...CED DEMAND .....

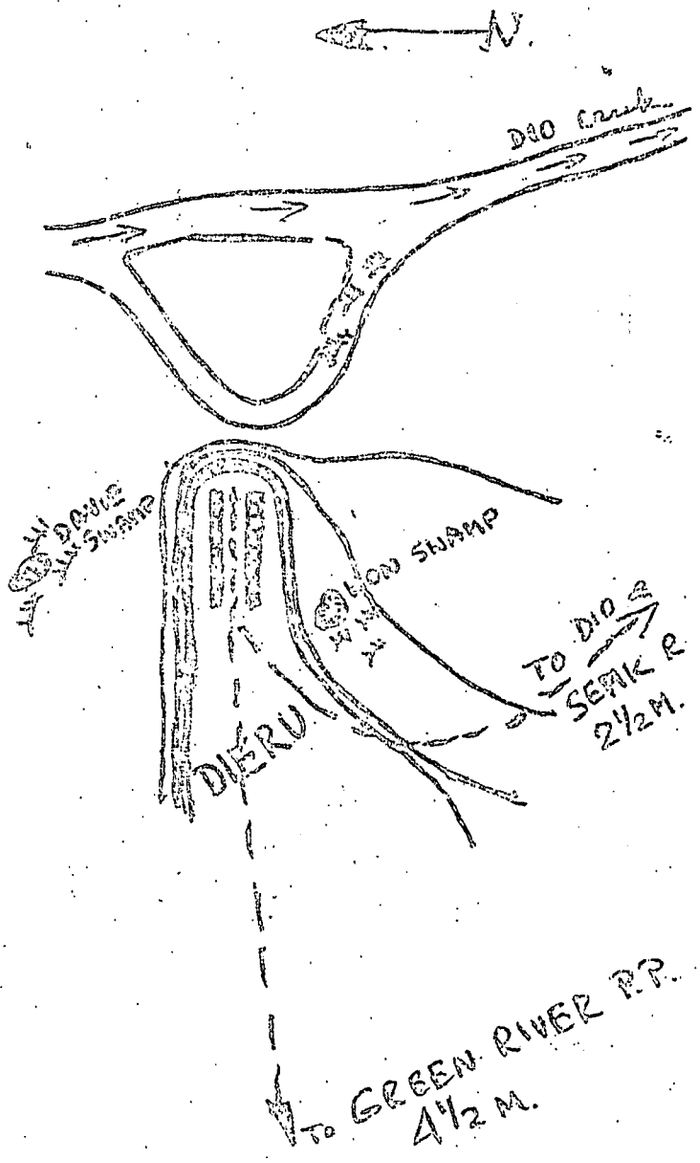
LOCATION MAP



PRESENT SUPPLY

...FALL ..Nil. 130.....
...SEASON From ..Oct.... to ..April
... ...Soak.....
...NCE FROM VILLAGE ..2 mins.....
...PORT ....Track.....
...Y/RATE OF FLOW .....
...ITY - Chemical .....
Bactereological .....
...CTION ....Nil.....
...S .....
.....
.....
.....
.....
...SEASON From ..May.... to ..Sept.
....DIO river.....
...NCE FROM VILLAGE ..300 yds.....
...PORT .....Track.....
...Y/RATE OF FLOW .....
...ITY .....Chemical .....
Bactereological .....
...CTION ....Nil.....
...AS .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

SIAU COUNCIL - AITAPE SUB DISTRICT

SUMMARY OF SURVEY OF VILLAGE WATER SUPPLIES - SIAU COUNCIL

VILLAGE	POPULATION	TYPE OF SCHEME	NO. OF PIPES	ESTIMATED COST $	PRIORITY	REMARKS
Aitape Station (30)	540					No Recommendation
Anopias, Safi No. 1 & 2 and Ainanun (21)	120	3 wells	9	300	Second	Coral in village.
Malung (22)		Well	3	100	Second	Coral behind village
Chaldaleo (23)		Well	3	100	Second	Coral behind village
Italal (24)		Well	3	100	Second	Coral behind village
Tourale (25)		Well	3	100	Second	Coral behind village
Ruiat (26)	580	Well	2	100	Second	Coral in village
Celeo No. 1 (27)	150	Well	2	100	Second	Coral in village
Celeo No. 2 (28)		Well	2	100	Second	Coral in village
Amsor (31)	1500	3 spear points		210	Second	Beach and dune sand. In Village using spear points in Amsor Village.
Tainyapen (32)						
Aindrin (39)		Spear point		70	Second	Beach and dune sand. In Village
PO (33)	100	Well	3	100	Second	Silt and fine sand. Beside Village
Arop Villages (34)	910	4 spear points		280	First	Beach and dune sand. In Villages
Maindrin (35)		Spear point		70	Second	Beach and dune sand. Beside Village
Amsor and Maniar (36)	1000	Spear point		70	Second	Beach and dune sand. Between villages
Sissano (37)		Spear point		70	Second	Beach and dune sand. In Village

SUMMARY OF SURVEY OF VILLAGE WATER SUPPLIES - SIAU COUNCIL

VILLAGE	POPULATION	TYPE OF SCHEME	NO. OF PIPES	ESTIMATED COST $	PRIORITY	REMARKS
Warapu (38)	1180	3 spear points		210	Second	Beach and dune sand. In Village.
Suain No.1 (40)	270	2 wells	8	230	Second	Beach and dune sand. In Village
Waunungi (41)		Well	2	100	Second	Sand and gravel. Behind village.
Wom (42)		Well	4	100	Second	Sand and gravel. In Village
Siate (43)		Well	3	100	Second	Sand and gravel. Behind Village
New Bes (44)		Well	3	100	Second	Sand and gravel. In Village
Old Bes (45)		Well	3	100	Second	Sand and gravel. In Village.
Bes Resettlement (46)		2 Wells	8	200	First	Sand and gravel. In Village.

SURVEY OF VILLAGE WATER SUPPLIES ...WEST SEPIK.....DISTRICT

VILLAGE ..AITAPE STATION.....

COUNCIL ..Sian.....

CENSUS DIVISION ..Aitape.....

SUB-DISTRICT ...Aitape.....

POPULATION ...540.....

ACCESS .Aircraft.....

.....

HEADMAN/COUNCILLOR .....

.....

WATER USE - Domestic/Government School/ Mission/Mission School/Hospital/First Aid/ Stock/Irrigation

PROJECTED DEVELOPMENT .Urban Area..

.....

ESTIMATED DEMAND .....

LOCATION MAP

PRESENT SUPPLY

RAINFALL ..80 - 100.....

WET SEASON From ..Dec... to .April

TYPE .Rainwater storage & wells....

DISTANCE FROM VILLAGE .....

TRANSPORT ...Road.....

YIELD/RATE OF FLOW .....

QUALITY - Chemical .....

Bactereological .....

PROTECTION ..Wells - sanitary.....

REMARKS .....

.....

.....

.....

DRY SEASON From ..June... to .Nov.

TYPE ....As above.....

DISTANCE FROM VILLAGE .....

TRANSPORT .....

YIELD/RATE OF FLOW .....

QUALITY .....Chemical .....

Bactereological .....

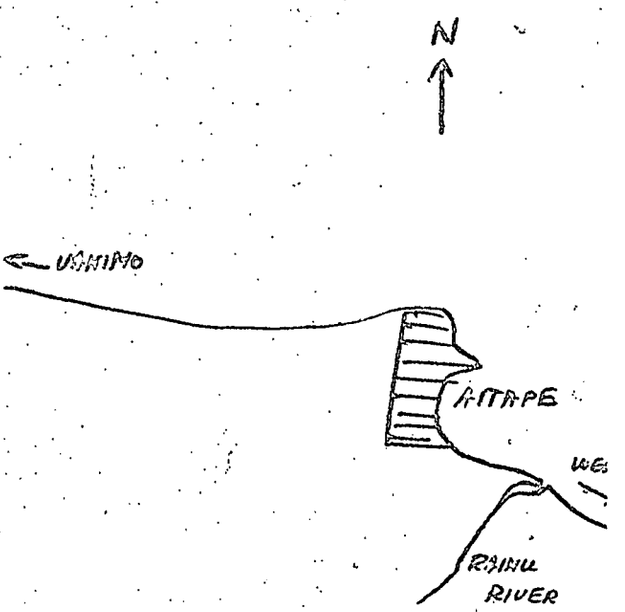
PROTECTION .....

REMARKS .....

.....

.....

LOCATION MAP



Film 4, photo 34.

G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ... WEST SEPIK ..... DISTRICT

VILLAGE ANOPIAS, SAFI 1 & 2, AINAMUN

COUNCIL . Siau.....

CENSUS DIVISION .Aitape Local Malands

SUB-DISTRICT ..Aitape.....

POPULATION ..220.....

ACCESS Canoe from Aitape station.

.....

HEADMAN/COUNCILLOR ...Ignas.....

.....

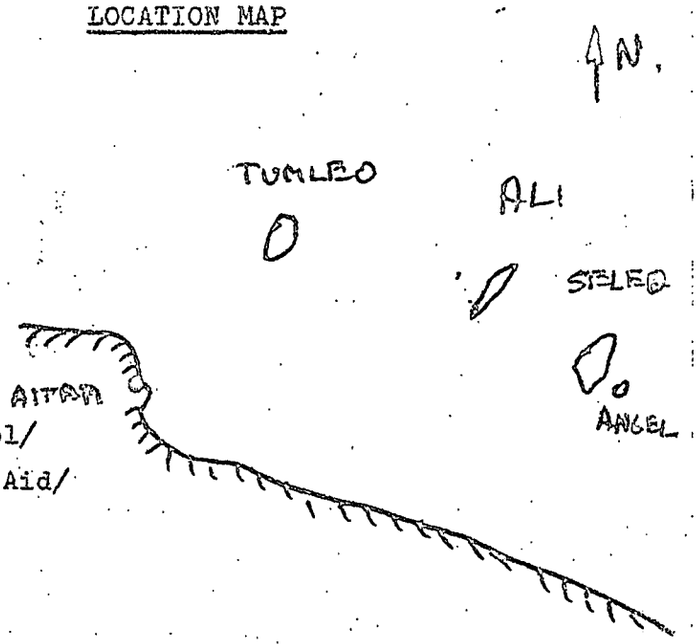
WATER USE - Domestic/Government School/ Mission/Mission School/Hospital/First Aid/ Stock/Irrigation

PROJECTED DEVELOPMENT School,.....

..Aid Post, Commercial.....

ESTIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

RAINFALL ... 80 - 100.....

WET SEASON From ..Dec... to April.

TYPE Rainwater & shallow wells (3).

DISTANCE FROM VILLAGE ..Central....

TRANSPORT ... Track.....

YIELD/RATE OF FLOW .....

QUALITY - Chemical .320 & 420 ppm..

Bactereological .....

PROTECTION ...Nil.....

REMARKS .....

.....

.....

.....

DRY SEASON From .June.... to ..Nov

TYPE .As above.....

DISTANCE FROM VILLAGE .....

TRANSPORT .....

YIELD/RATE OF FLOW .....

QUALITY .....Chemical .....

Bactereological .....

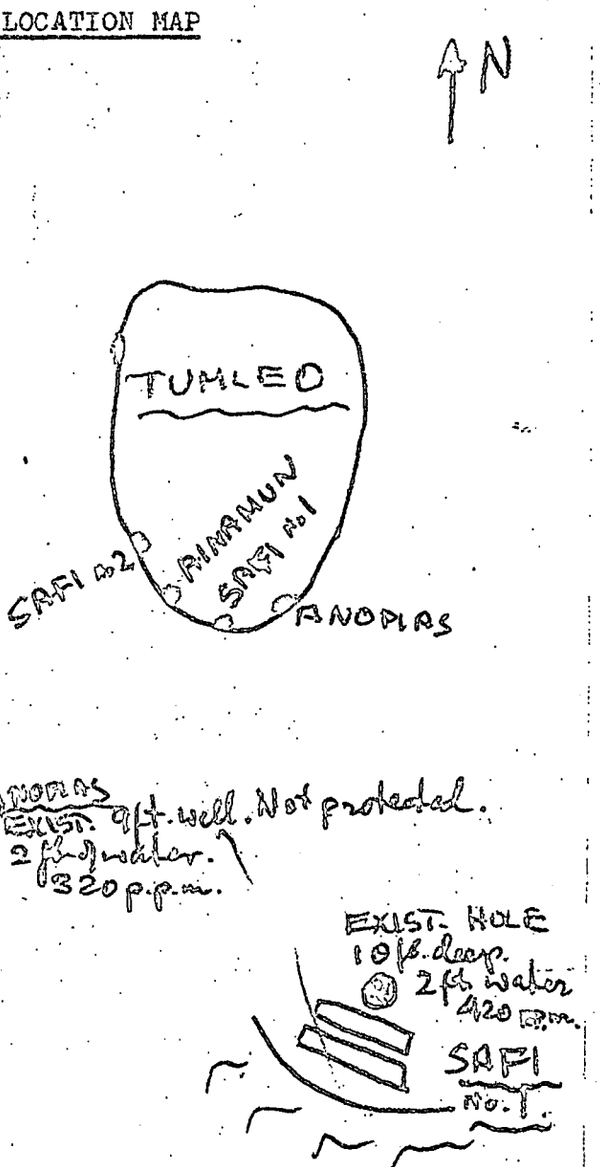
PROTECTION .....

REMARKS .....

.....

.....

LOCATION MAP



G.S. Form 6
(Nov. 22/8/66)

RVEY OF VILLAGE WATER SUPPLIES ...WEST SEPIK.....DISTRICT

ILLAGE ANOPIAS, SAFI 1 & 2, AINAMUN. RECOMMENDATIONS

PE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

CATION OF NEW SUPPLY Existing shallow wells at Anopias & Safi 1 ... nd old well covered in by army at Safi 2. .....

STANCE FROM VILLAGE ...Central .....

CESS ...Track .....

TE KNOWN TO..Ignas. Smith (P.W.D.) .....

PE OF AQUIFER ....Coral .....

TAILS OF SCHEME ..Standerd sanitary wells - develop existing shallow wells ....9 pipes. .....

.....

.....

TERIALS REQUIRED ...As per standard drawing .....

.....

BOUR REQUIRED .....Local .....

PERVISION .....Local .....

TIMATED COST ($) ...300 .....

TERNATIVE SCHEME .....

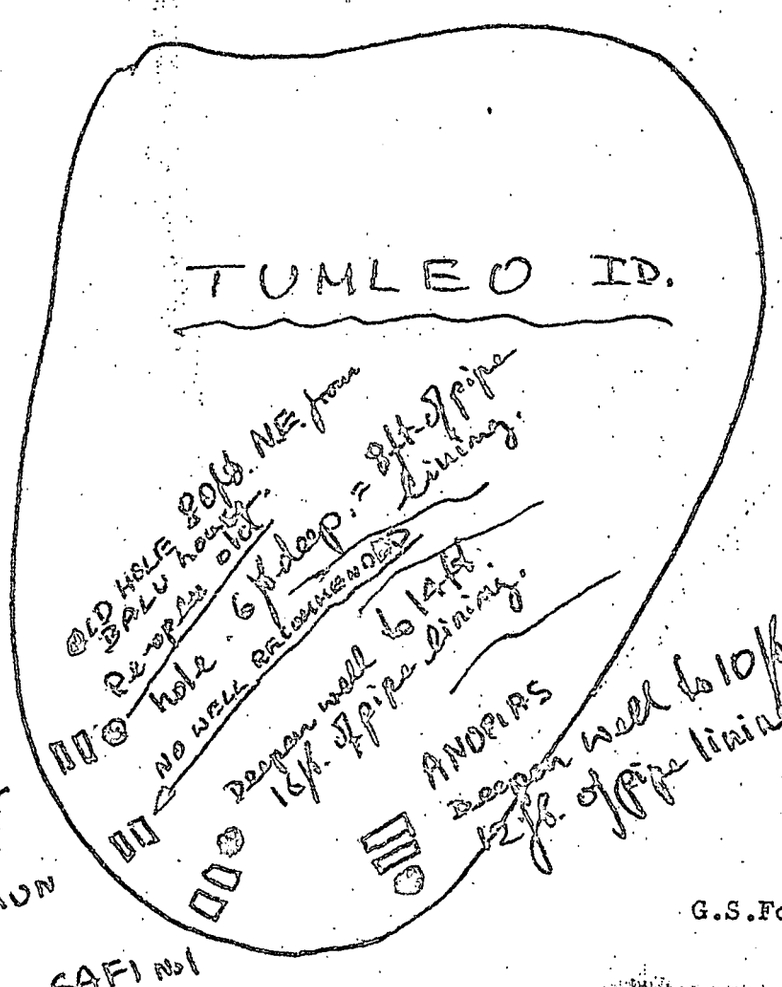
.....

RIORITY ...Second..... Signed J.R.L. Read ..... Date ..10/10/66

LOCATION MAP

Film 4, photos 1 & 2 (Safi 1), 3 (Anopias), 4 (Safi 2), & 5.

N.



G.S.Form 7

...RVEY OF VILLAGE WATER SUPPLIES ...WEST SEPIK.....DISTRICT

...ILLAGE ...MALUNG.....

...NCIL ..Siau.....

...NSUS DIVISION .Aitape.Local.Islands

...BoDISTRICT .Aitape.....

...PULATION .589..(Ali.Island)....

...OSS Canoe from Aitape station.

.....

...RMN/COUNCILLOR .Ignes.....

.....

...ER USE - Domestic/Government School/

...sion/Mission School/Hospital/First Aid/

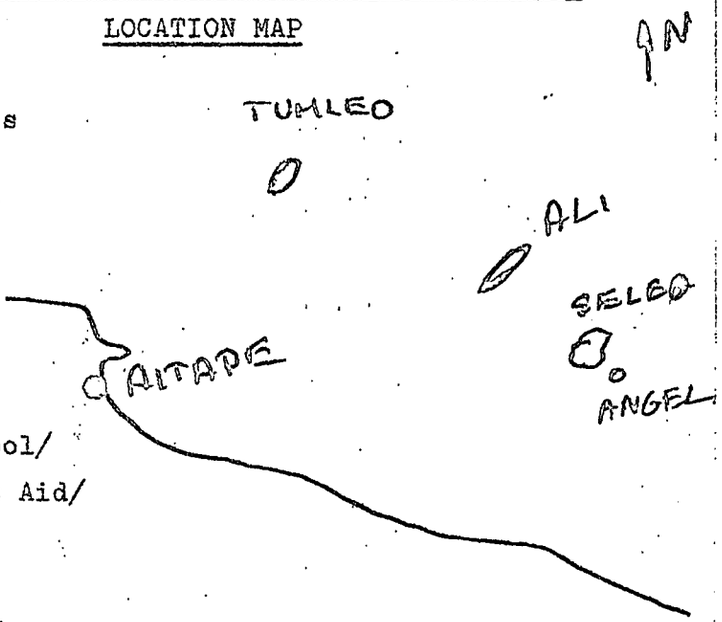
...ock/Irrigation

...OJECTED DEVELOPMENT Govt. School,

...Aid Poss. Commercial.....

...TIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

...INFALL ....80 - 100.....

...T SEASON From .Dec.... to .April

...YPE .Rainwater & shallow well.....

...ISTANCE FROM VILLAGE Central inland

...RANSPORT ..Track.....

...IELD/RATE OF FLOW .....

...UALITY - Chemical ..320.ppm.....

Bactereological .....

...ROTECTION .....

...EMARKS .....

.....

.....

.....

...RY SEASON From .June.... to .Nov..

...YPE ...As above.....

...ISTANCE FROM VILLAGE .....

...RANSPORT .....

...IELD/RATE OF FLOW .....

...UALITY .....Chemical .....

Bactereological .....

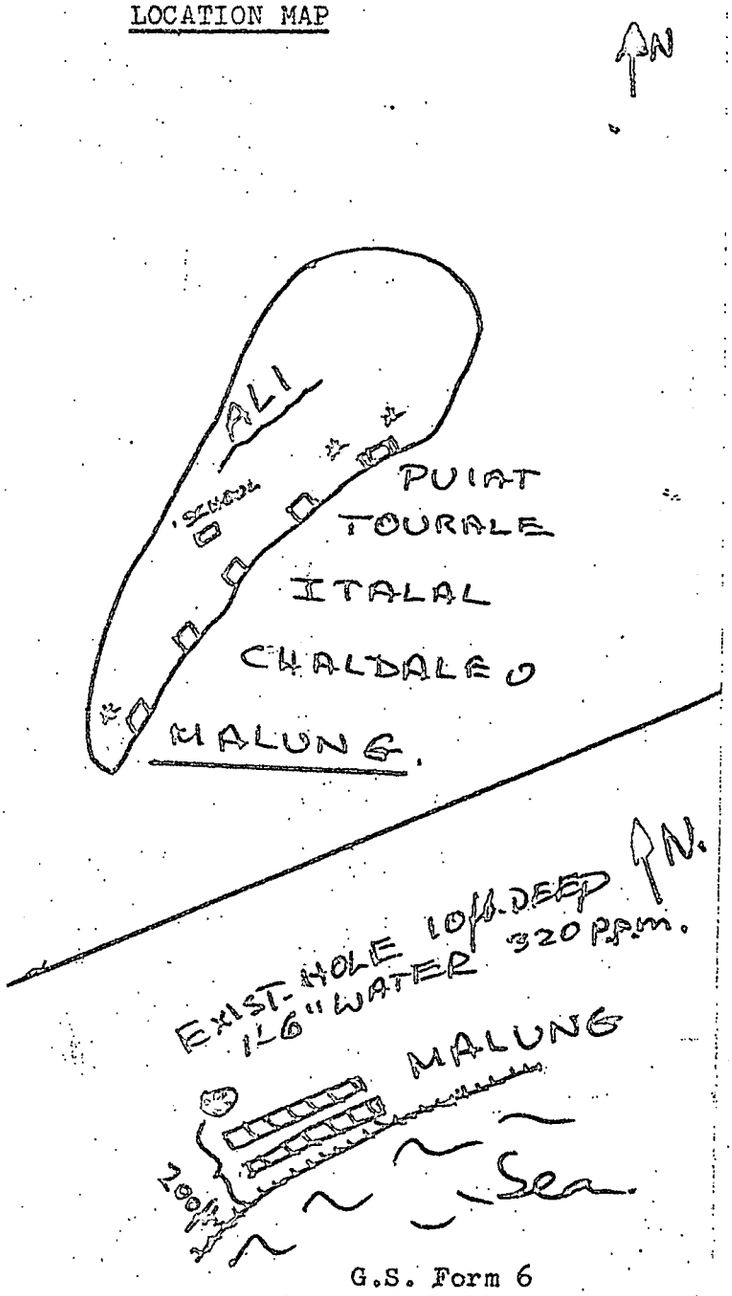
...ROTECTION .....

...EMARKS .....

.....

.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ..WEST SEPIK.....DISTRICT

VILLAGE . MALING.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY .....Existing shallow well 100 feet inland from ....village.....

DISTANCE FROM VILLAGE ....100 feet.....

ACCESS .....Track.....

SITE KNOWN TO..Ignas. Smith.(P.H.D.).....

TYPE OF AQUIFER ...Coral.....

DETAILS OF SCHEME ..Develop existing shallow well into standard.....
...sanitary well.....

.....

.....

MATERIALS REQUIRED ..As per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) ....100.....

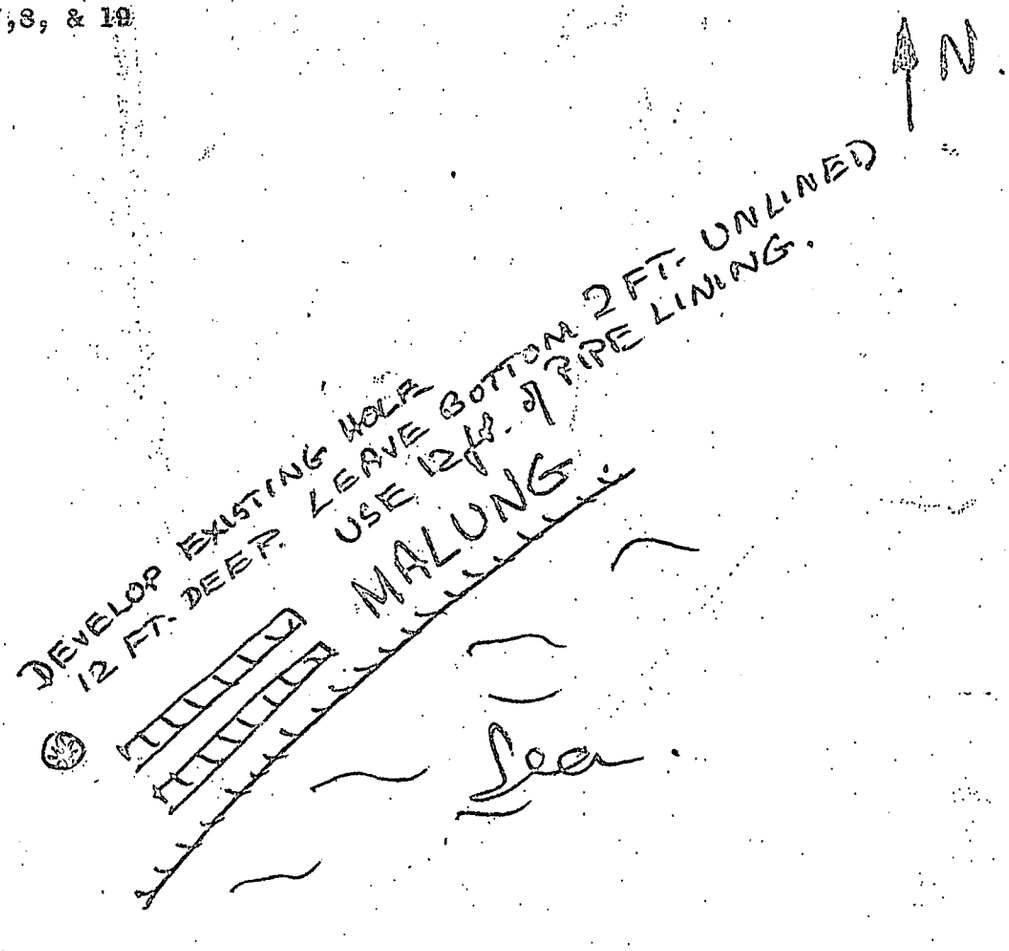
ALTERNATIVE SCHEME .....

.....

PRIORITY ....Second..... Signed ..J.R.L. Read.... Date 10/10/66

LOCATION MAP

Film 3, photos 7,8, & 10



G.S.Form 7

SURVEY OF VILLAGE WATER SUPPLIES ..WEST SEPIK.....DISTRICT

VILLAGE .CHALDALEO.....

COUNCIL .Siau.....

CENSUS DIVISION Aitape Local Islands

SUB-DISTRICT ..Aitape.....

POPULATION ...530 (Ali Island)....

ACCESS .Canoe from Aitape station.

.....

MEMBER/COUNCILLOR .Ignas.....

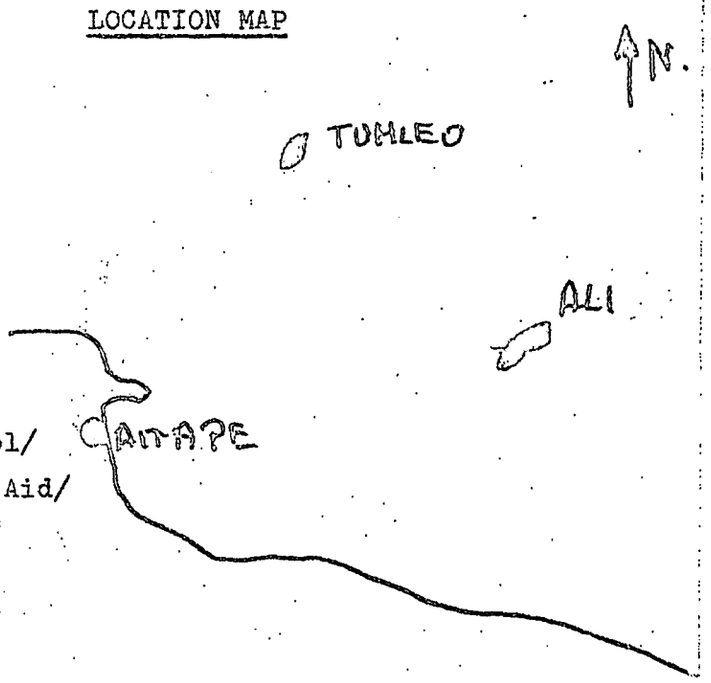
.....

WATER USE - Domestic/Government School/ Mission/Mission School/Hospital/First Aid/ Stock/Irrigation

PROJECTED DEVELOPMENT .Govt. School, ..Aid.Post,.Commercial.....

ESTIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

RAINFALL ...Inc..80 - 100.....

WET SEASON From ..Dec... to April.

TYPE ..Rainwater..catchment.....

DISTANCE FROM VILLAGE ..Central....

TRANSPORT .....Track.....

YIELD/RATE OF FLOW .....

QUALITY - Chemical .....

Bactereological .....

PROTECTION ....Nil.....

REMARKS .....

.....

.....

.....

DRY SEASON From ..June... to ..Nov.

TYPE Making well..pluc.rainwater...

DISTANCE FROM VILLAGE .....

TRANSPORT .....

YIELD/RATE OF FLOW .....

QUALITY .....Chemical .....

Bactereological .....

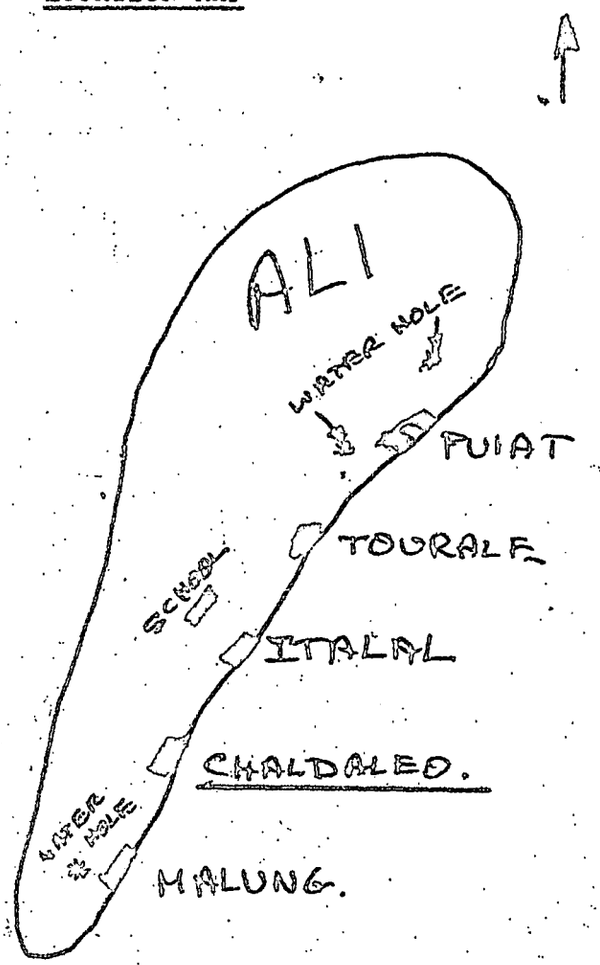
PROTECTION .....

REMARKS .....

.....

.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ...WEST SEPIK.....DISTRICT

VILLAGE ...CHALDALEO..... RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ...Central inland margin of village.....

.....

DISTANCE FROM VILLAGE ...Central.....

ACCESS .....Track.....

SITE KNOWN TO...Ignas. Smith (P.H.L.).....

TYPE OF AQUIFER ..Coral.....

DETAILS OF SCHEME ..Standard sanitary well.....

.....

.....

.....

MATERIALS REQUIRED .....As per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) ...100.....

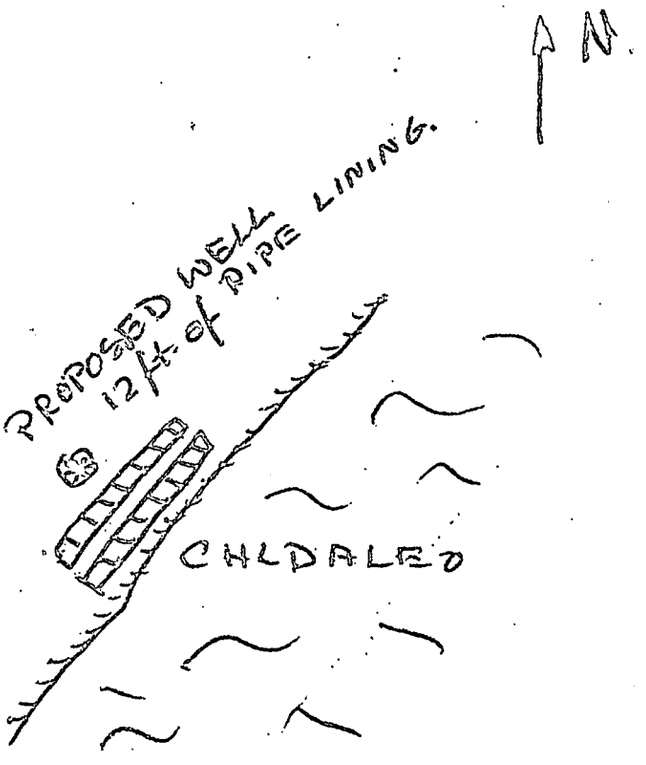
ALTERNATIVE SCHEME .....

.....

PRIORITY .....Second..... Signed ..J.R.L. Read.... Date 10/10/66

LOCATION MAP

Film 3, photos 9, 10 & 19



G.S.Form 7

SURVEY OF VILLAGE WATER SUPPLIES ....WEST SEPIK.....DISTRICT

VILLAGE ....ITALAL.....

COUNCIL ...Siam.....

CENSUS DIVISION Aitape Local Islands

SUB-DISTRICT .Aitape.....

POPULATION ..580 (Ali Island)....

ACCESS Canoe from Aitape station..

.....

~~MEMBER~~/COUNCILLOR Ignas.....

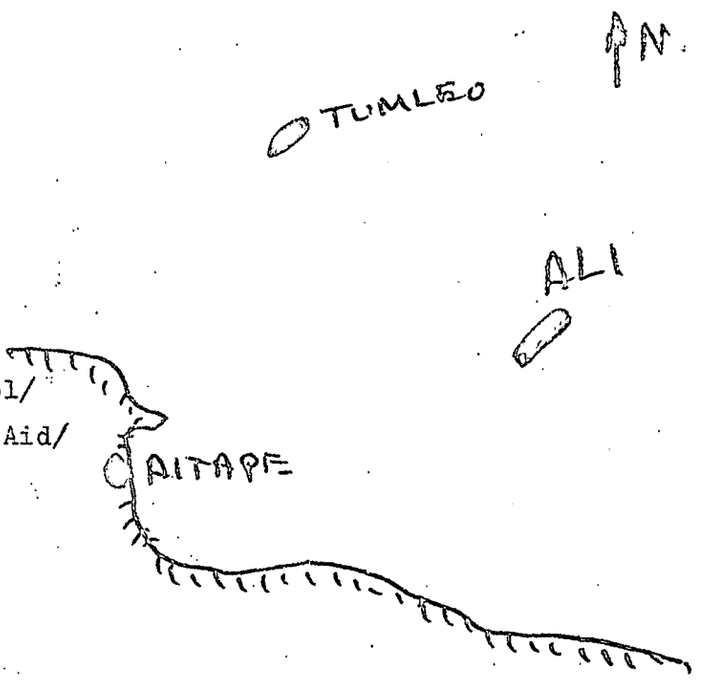
.....

WATER USE - Domestic/Government School/Mission/Mission School/Hospital/First Aid/Stock/Irrigation

PROJECTED DEVELOPMENT .Govt.School, ...Aid Post, Commercial.....

ESTIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

RAINFALL ...80 - 100.....

WET SEASON From .Dec... to ..April

TYPE .Rainwater catchment.....

DISTANCE FROM VILLAGE ..Central....

TRANSPORT ....Track.....

YIELD/RATE OF FLOW .....

QUALITY - Chemical .....

Bactereological .....

PROTECTION .Nil.....

REMARKS .....

.....

.....

.....

DRY SEASON From ..June... to ..Nov.

TYPE Malung well plus rainwater.....

DISTANCE FROM VILLAGE .....

TRANSPORT .....

YIELD/RATE OF FLOW .....

QUALITY .....Chemical .....

Bactereological .....

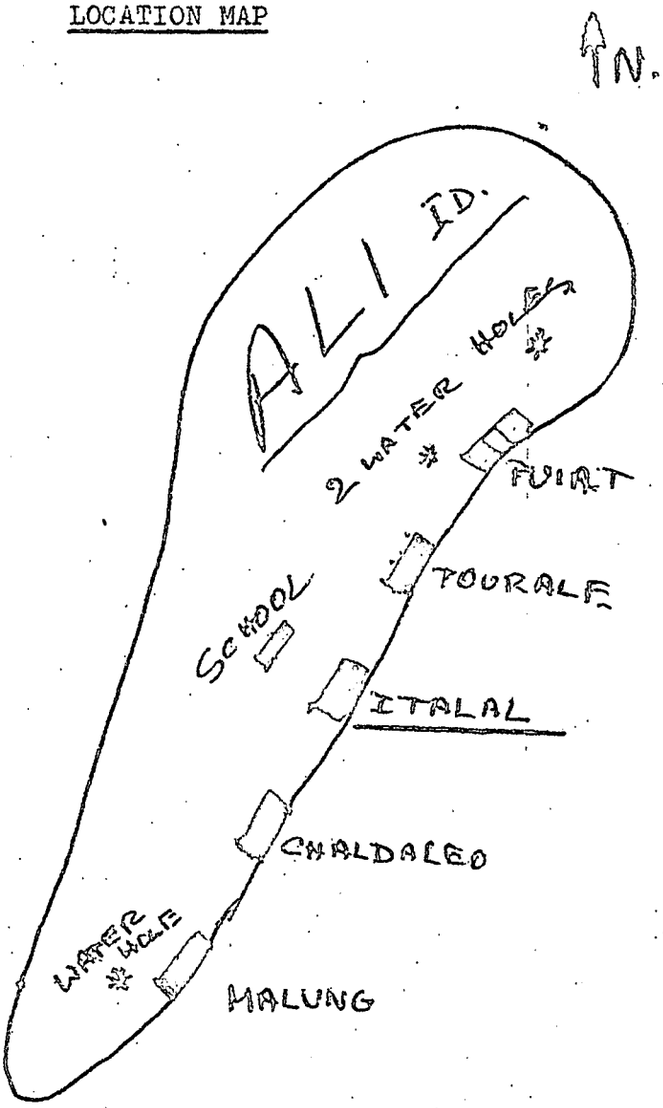
PROTECTION .....

REMARKS .....

.....

.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ...WEST.SEPIK.....DISTRICT

VILLAGE ....ITALAL.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ..Central.inland.margin.of.village.....
.....

DISTANCE FROM VILLAGE .....Central.....

ACCESS .....Track.....

SITE KNOWN TO....Ignas, Smith (P3H.D.).....

TYPE OF AQUIFER ...Coral.....

DETAILS OF SCHEME ....Standard.sanitary.well.....
.....
.....
.....

MATERIALS REQUIRED ...As.per.standard.drawing.....
.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

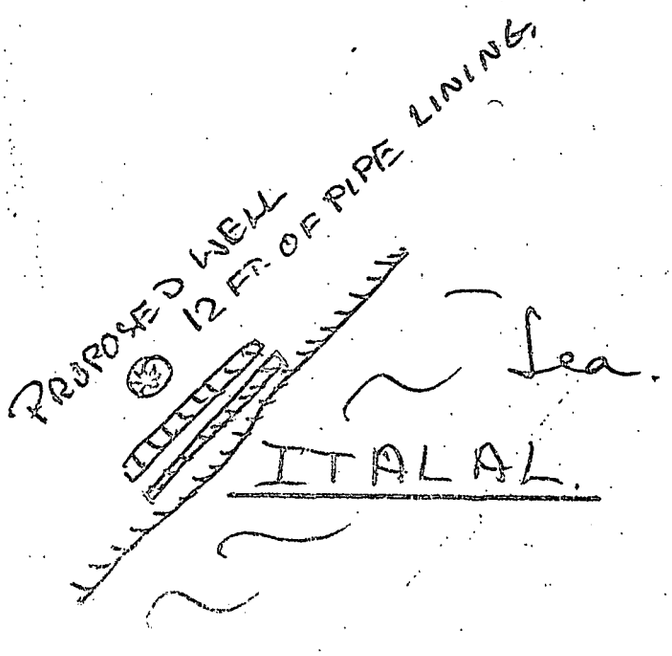
ESTIMATED COST ($) ....100.....

ALTERNATIVE SCHEME .....
.....

PRIORITY ...Second..... Signed ..J.R.L..Read.... Date 10/10/66

LOCATION MAP

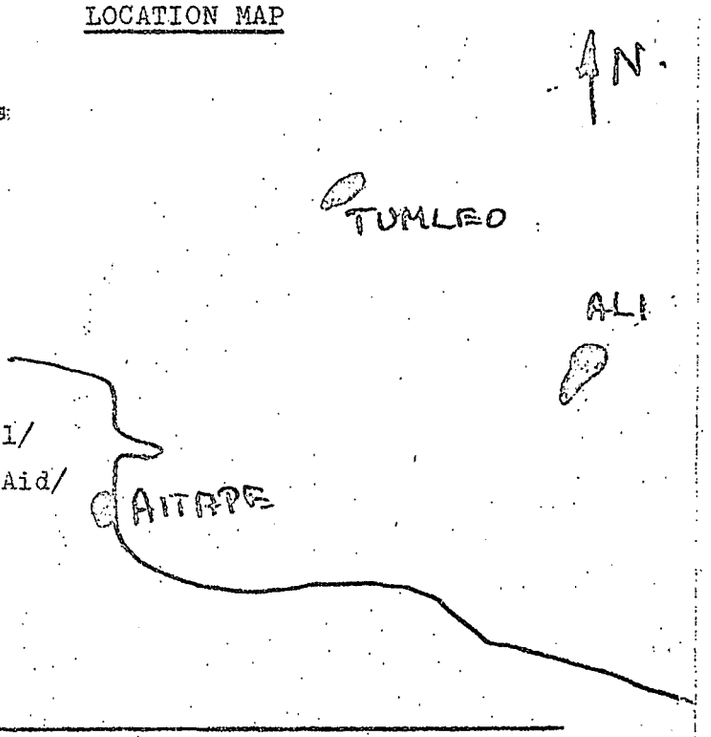
Film 3, photos 11, 12 & 19



SURVEY OF VILLAGE WATER SUPPLIES ... WEST. SEPIK ..... DISTRICT

VILLAGE . TOURALE .....
COUNCIL ... Siou .....
CENSUS DIVISION . Aitape Local. Islands
SUB-DISTRICT . Aitape .....
POPULATION ... 580 (Ali Island) ...
ACCESS Canoe from Aitape station
.....
CHAIRMAN/COUNCILLOR . Ignas .....
.....
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation
PROJECTED DEVELOPMENT Govy. School..
Aid Post, Commercial .....
ESTIMATED DEMAND .....

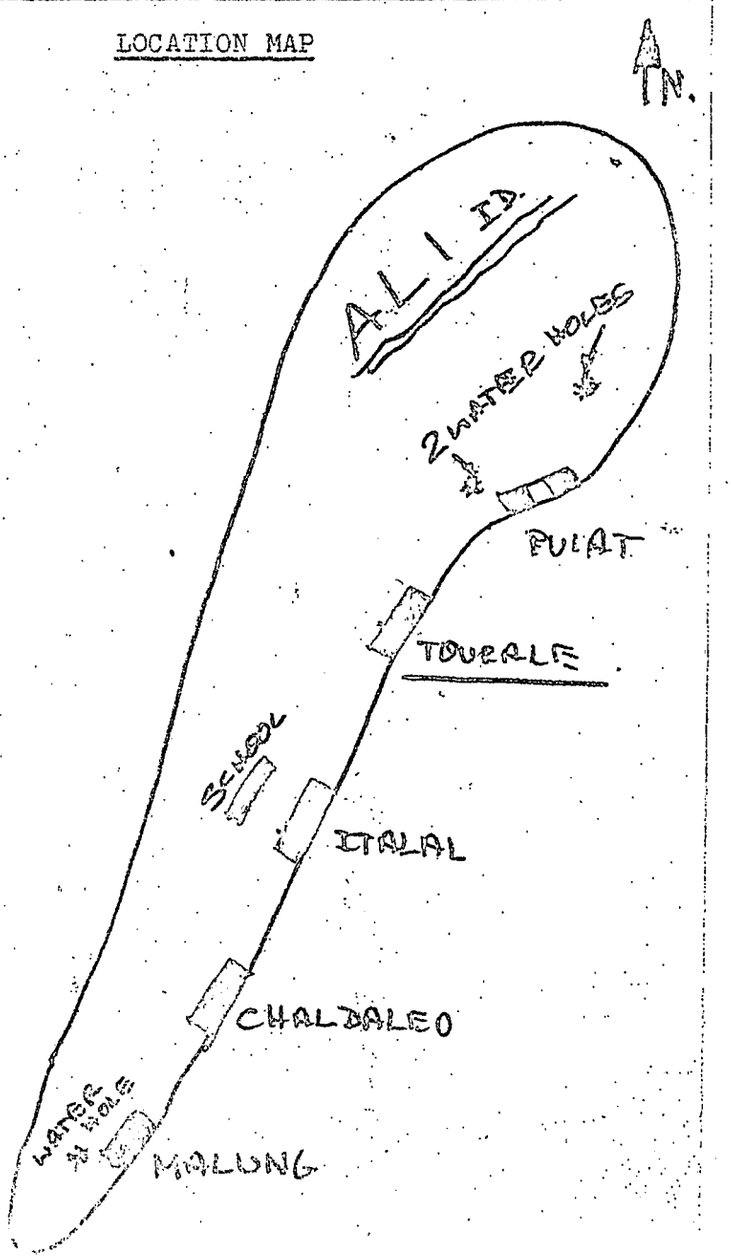
LOCATION MAP



PRESENT SUPPLY

RAINFALL ..... 80 - 100 .....
WET SEASON From . Dec .... to .. April
TYPE .... Rainwater catchment .....
DISTANCE FROM VILLAGE .. Central ....
TRANSPORT .... Track .....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION ..... Nil .....
REMARKS .....
.....
.....
.....
DRY SEASON From . June .... to .. Nov.
TYPE Malung well plus rainwater ....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP



SURVEY OF VILLAGE WATER SUPPLIES ....WEST.SEPIK.....DISTRICT

VILLAGE ...TOURALE.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY . Central. inland.margin.of.village.....

.....

DISTANCE FROM VILLAGE .. Central.....

ACCESS .....Track.....

SITE KNOWN TO...Ignas, Smith (P.H.D.).....

TYPE OF AQUIFER . Coral.....

DETAILS OF SCHEME ... Standard sanitary well.....

.....

.....

.....

MATERIALS REQUIRED .. As per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) .....100.....

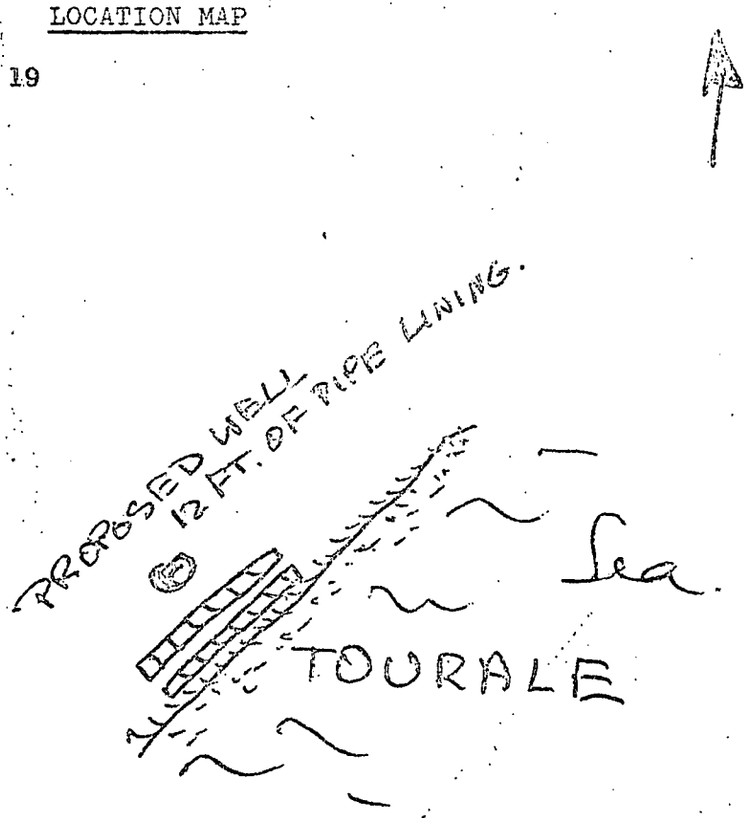
ALTERNATIVE SCHEME .....

.....

PRIORITY ....Second..... Signed .J.B.L..Reed..... Date ..10/10/68

LOCATION MAP

Film 3, photos 13, 14 & 19



SURVEY OF VILLAGE WATER SUPPLIES ..WEST SEPIK.....DISTRICT

VILLAGE ....PUIAT.....

COUNCIL Aitape Local Islands.....

CENSUS DIVISION ...Siau.....

SUB-DISTRICT ..Aitape.....

POPULATION ....530. (Adm. Island)...

ACCESS ..Canoe from Aitape station.

.....

OWNER/COUNCILLOR ....Ignas.....

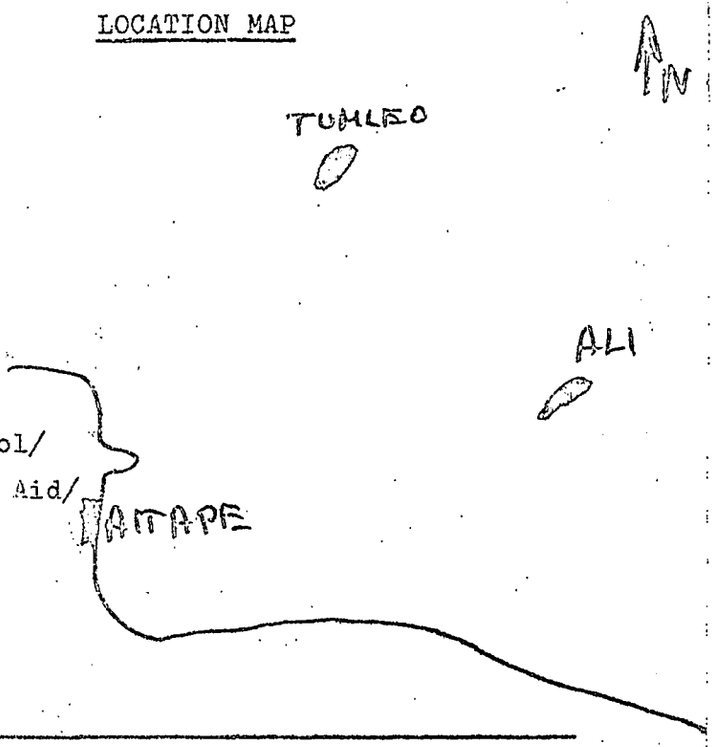
.....

WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation

PROJECTED DEVELOPMENT ..Govt. School,
Aid Post, Commercial.....

ESTIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

RAINFALL .....80.-.100.....

DRY SEASON From ..Dec... to ..April.

TYPE Rainwater & 2 shallow wells...

DISTANCE FROM VILLAGE ..Central north & south

TRANSPORT ...Track.....

YIELD/RATE OF FLOW .....

QUALITY - Chemical 920 & 640 ppm...

Bactereological .....

INFECTION ...Nil.....

REMARKS .....

.....

.....

.....

WET SEASON From June.... to Now...

AS ..As above.....

DISTANCE FROM VILLAGE .....

TRANSPORT .....

YIELD/RATE OF FLOW .....

QUALITY .....Chemical .....

Bactereological .....

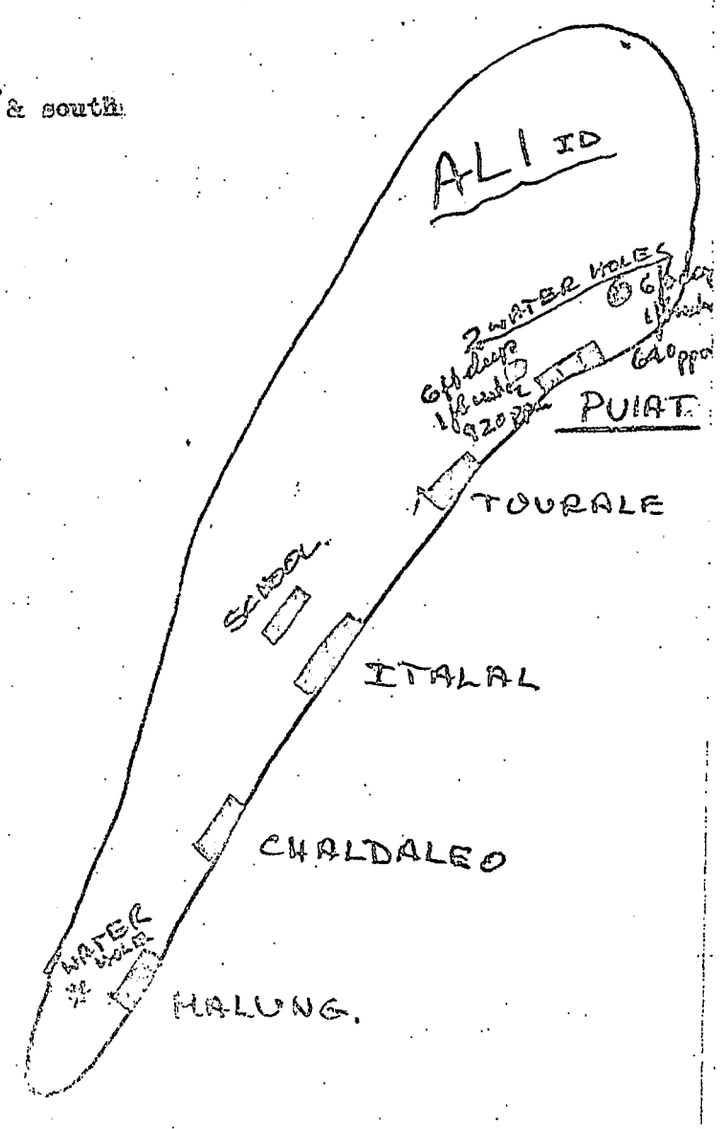
INFECTION .....

REMARKS .....

.....

.....

LOCATION MAP



SURVEY OF VILLAGE WATER SUPPLIES ..[redacted].....DISTRICT

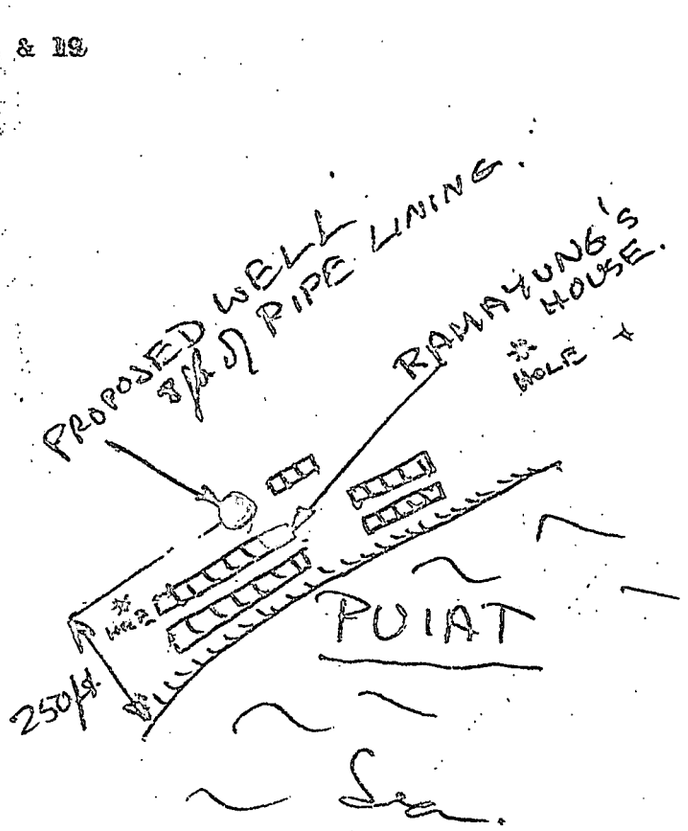
VILLAGE ..PUIAT..... RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY .Village central 20 feet west of house.....
...belonging to Ramayung.....
DISTANCE FROM VILLAGE ..Central.....
ACCESS ....Track.....
SITE KNOWN TO...Ignacy Smith (P.W.D.).....
TYPE OF AQUIFER ...Coral.....
DETAILS OF SCHEME ...Standard sanitary well.....
.....
.....
.....
MATERIALS REQUIRED ...As per standard drawing.....
.....
LABOUR REQUIRED .....Local.....
SUPERVISION .....Local.....
ESTIMATED COST ($) .....100.....
ALTERNATIVE SCHEME .....
.....
PRIORITY ....Second..... Signed ..J.R.L. Read.... Date 10/10/66

LOCATION MAP

Film 3, photos 15, 18, & 19



URVEY OF VILLAGE WATER SUPPLIES ...WEST SEPIK.....DISTRICT

LLAGE ...SELEO I.....

ICIL .~~Aitapandaumbabiyapi~~ .Siou

NSUS DIVISION Aitape Local Islands

~~...~~DISTRICT .Aitape.....

PULATION ...150 (Seleo Island).

CESS Canoe from Aitape station.

.....

~~CHAIRMAN~~/COUNCILLOR ..Ignas.....

.....

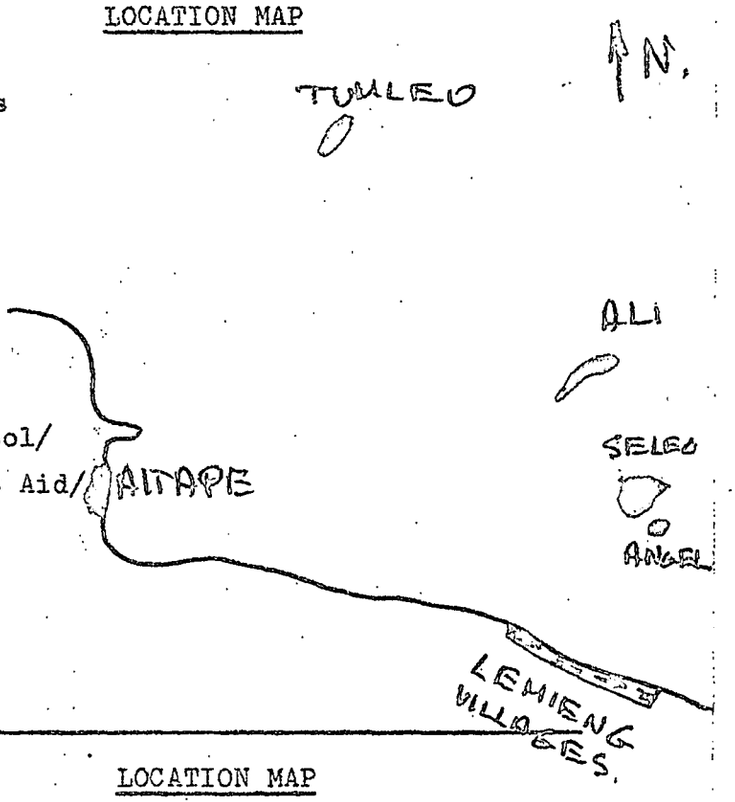
TER USE - Domestic/Government School/
gion/Mission School/Hospital/First Aid/
ock/Irrigation

OJECTED DEVELOPMENT Govt School.

id Post, Commercial.....

TIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

NFALL .....80 - 100.....

T SEASON From .Dec.... to .April

PE Rainwater & shallow well.....

STANCE FROM VILLAGE .Central east

NSPORT .....Track.....

ELD/RATE OF FLOW .....

ALITY - Chemical ..320 ppm.....

Bactereological .....

OTECTION ...Nil.....

MARKS .....

.....

.....

.....

Y SEASON From .June.... to ..Nov.

PE ..As above.....

STANCE FROM VILLAGE .....

NSPORT .....

ELD/RATE OF FLOW .....

ALITY .....Chemical .....

Bactereological .....

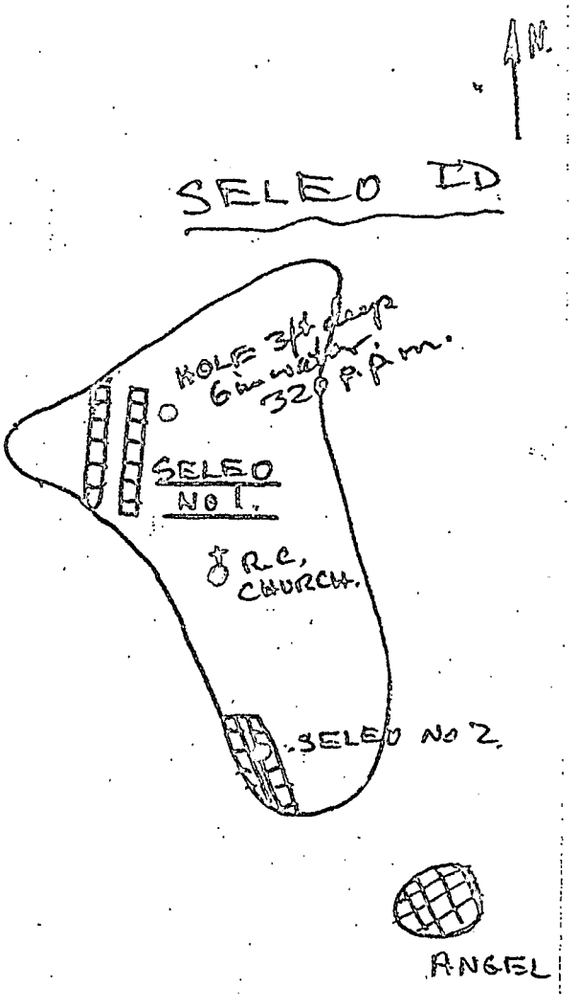
OTECTION .....

MARKS .....

.....

.....

LOCATION MAP



Form 6

SURVEY OF VILLAGE WATER SUPPLIES ....WEST. SEPIK.....DISTRICT

VILLAGE ...SELEO.E.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ..Existing shallow well, eastern margin of... ...village.....

DISTANCE FROM VILLAGE ..Central.....

ACCESS .....Track.....

SITE KNOWN TO.....Ignas, Smith (P.H.D.).....:.

TYPE OF AQUIFER ....Coral.....

DETAILS OF SCHEME ...Standard sanitary well - develop existing shallow well .....

.....

.....

MATERIALS REQUIRED .....As.per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) ....100.....

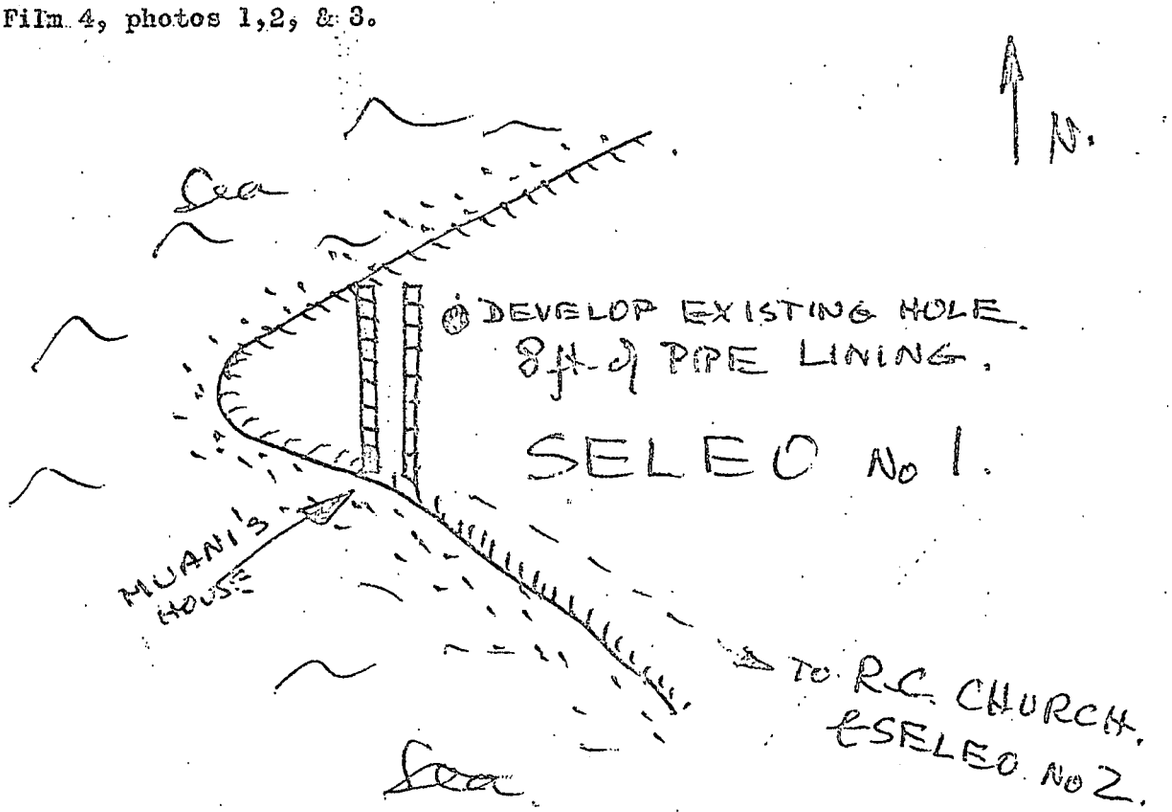
ALTERNATIVE SCHEME .....

.....

PRIORITY .....Second..... Signed ..J.R.L. Read.... Date ..10/10/66

LOCATION MAP

Film 4, photos 1,2, & 3.

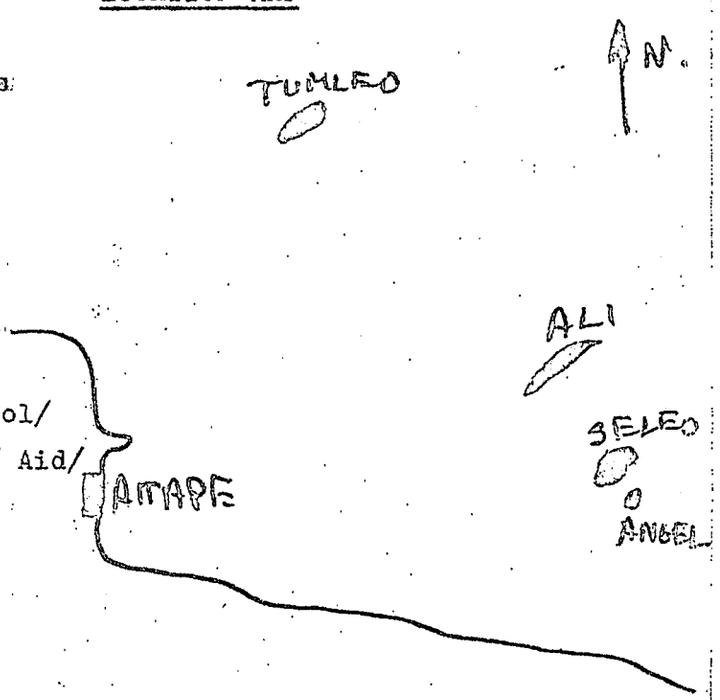


G.S.Form 7

SURVEY OF VILLAGE WATER SUPPLIES ..WEST SEPIK.....DISTRICT

VILLAGE ..SELEO.2.....
COUNCIL ..Siau.....
CENSUS DIVISION .Aitape Local Islands
SUB-DISTRICT ...Aitape.....
POPULATION ...150.(Seleo Island)..
ACCESS ..Canoe from Aitape Station
.....
CHAIRMAN/COUNCILLOR ...Ignas.....
.....
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation
PROJECTED DEVELOPMENT .Govt School.
..Aid Post, Commercial.....
ESTIMATED DEMAND .....

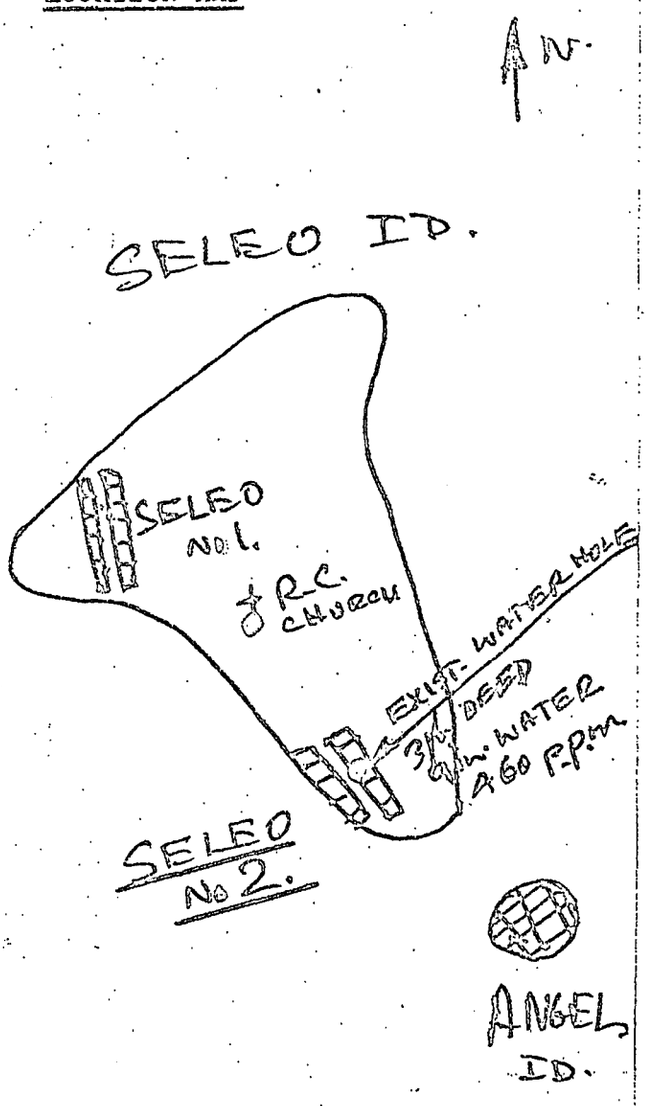
LOCATION MAP



PRESENT SUPPLY

RAINFALL .....80.-.100.....
DRY SEASON From .Dec.... to ..April
TYPE .Rainwater & shallow well.....
DISTANCE FROM VILLAGE ..Central....
TRANSPORT ....Track.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .480.ppm.....
Bactereological .....
PROTECTION ...Nil.....
REMARKS .....
.....
.....
.....
WET SEASON From .June.... to .Nov..
TYPE ..As above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS ..Residents of Angel Island
use Seleo.2.well in dry periods...
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ...WEST SEPIK.....DISTRICT

VILLAGE ....SELEO 2.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY . Existing shallow well, village central.....

.....

DISTANCE FROM VILLAGE .....Central.....

ACCESS .....Track.....

VISITE KNOWN TO....Ignas, Smith (P.H.D.).....

TYPE OF AQUIFER ...Coral.....

DETAILS OF SCHEME . Develop existing well into standard sanitary well

.....

.....

.....

MATERIALS REQUIRED ...As per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) .....100.....

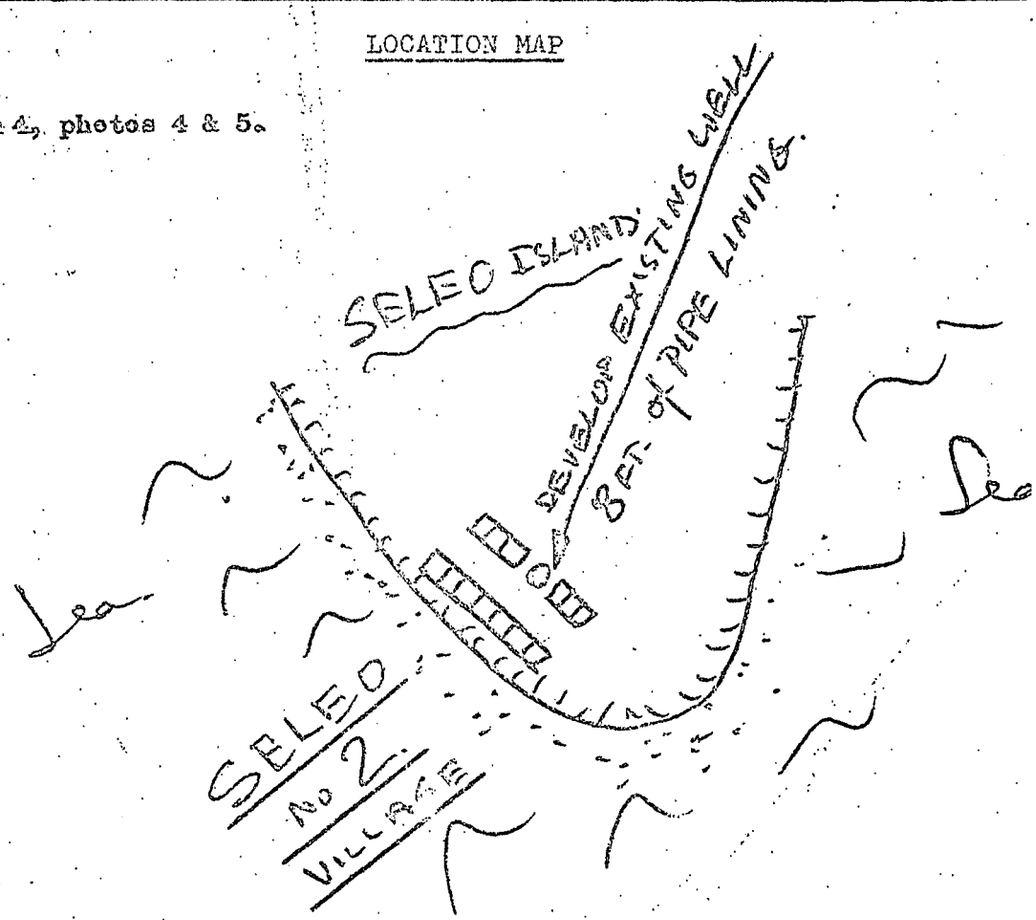
ALTERNATIVE SCHEME .....

.....

PRIORITY ....Second..... Signed ..J.R.L. Read.... Date ..10/10/66

LOCATION MAP

Film 4, photos 4 & 5.



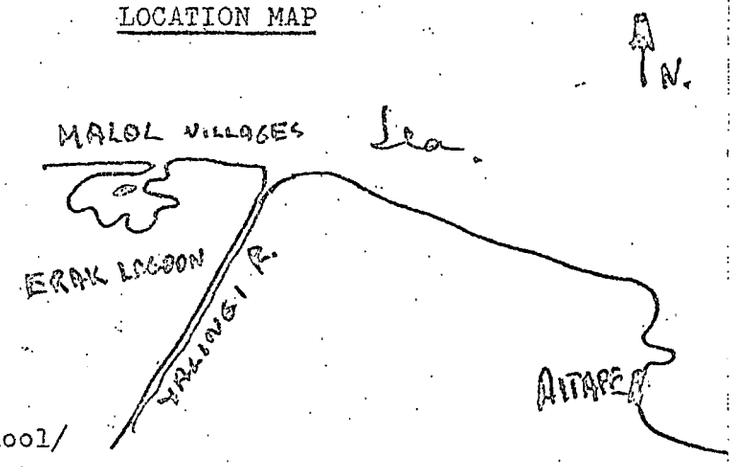
ANGE

G.S.Form 7

VEY OF VILLAGE WATER SUPPLIES ... WEST SEPIK ..... DISTRICT

LLAGE . AMSOR. (MALOL ABEE) .....
UNCIL .. Sian .....
NSUS DIVISION Aitape West Coast
DISTRICT .. Aitape .....
PULATION .. 1500 (Malol Abee) ...
CESS .. Road & Canoe .....
.....
COUNCILLOR . Brere Awal, ..
Klomi .....
ER USE - Domestic/Government School/
sion/Mission School/Hospital/First Aid/
k/Irrigation
JECTED DEVELOPMENT .....
.....
IMATED DEMAND .....

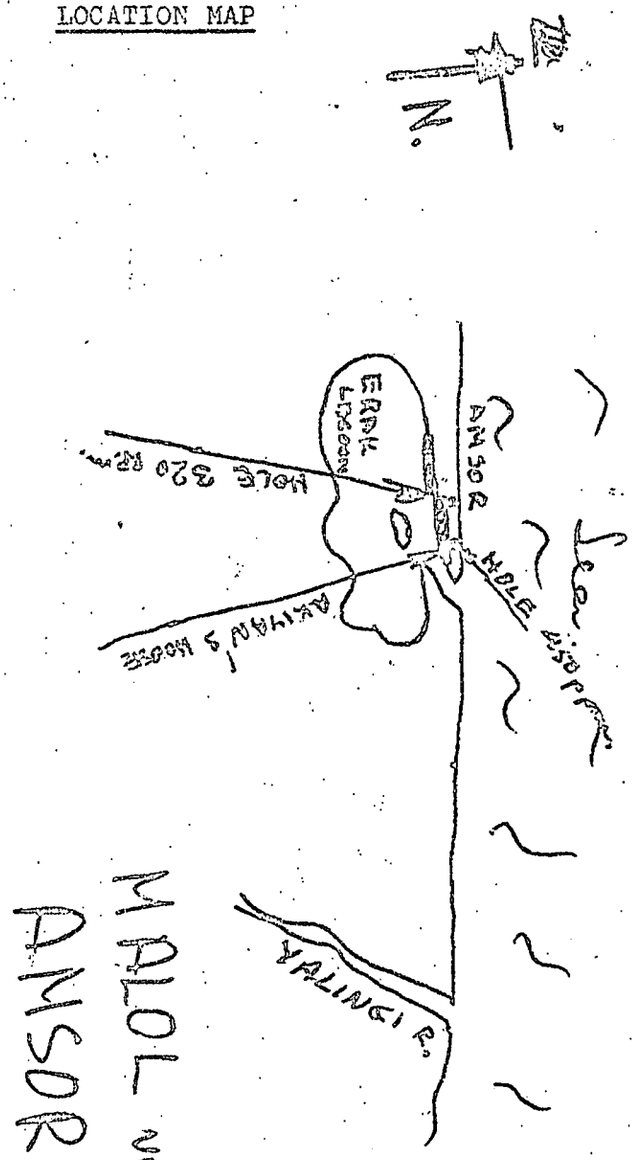
LOCATION MAP



PRESENT SUPPLY

INFALL ....80 - 100 .....
SEASON From ... Dec .. to . April .
PE . Rainwater catchment & wells .
STANCE FROM VILLAGE .. Central ....
NSPORT ... Track .....
LD/RATE OF FLOW .....
LITY - Chemical ... 400 ppm .....
Bactereological .....
TECTION .... Nil .....
MARKS .....
.....
.....
.....
SEASON From .. June ... to . Nov ..
PE ... As above .....
STANCE FROM VILLAGE .....
NSPORT .....
LD/RATE OF FLOW .....
LITY .....Chemical .....
Bactereological .....
TECTION .....
MARKS .. In extreme dry water collected
from coaks in swampy areas inland
from Erak lagoon

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ....WEST SEPIK.....DISTRICT

VILLAGE ...AMSOR (MALOL AREA)...

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ..3 spear points, village east, central & west, along the northern margin of the village.....

DISTANCE FROM VILLAGE ....Central.....

ACCESS .....Track.....

SITE KNOWN TO....Goodwin, Smith (P.W.D.).....

TYPE OF AQUIFER ..Beach & dune sand.....

DETAILS OF SCHEME ..3 spear points.....

.....

.....

.....

MATERIALS REQUIRED .....As per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

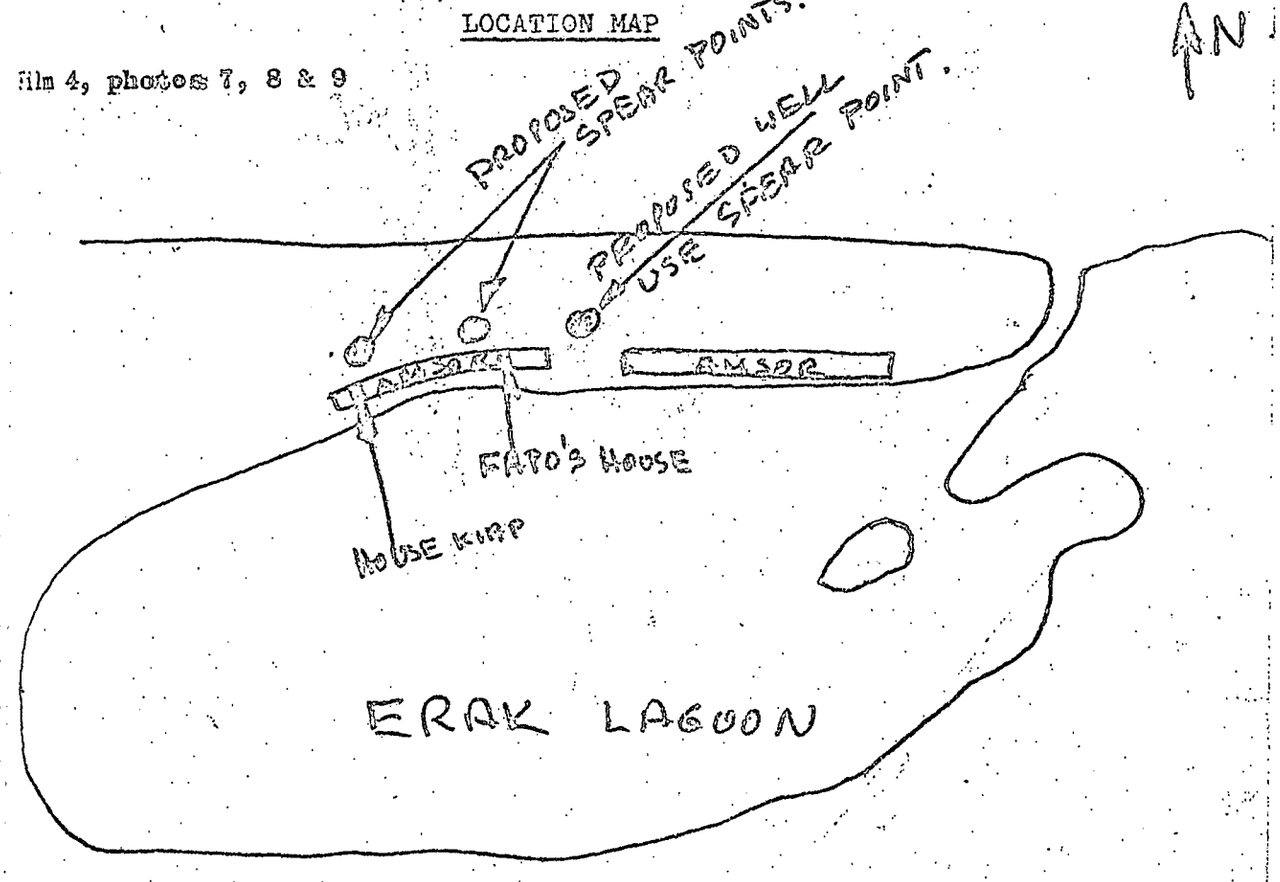
ESTIMATED COST ($) .....$10.....

ALTERNATIVE SCHEME ...Standard sanitary well using fibreglass pipes in the above locations if spear points do not prove satisfactory....

PRIORITY ..Second..... Signed ..J.P.L. Reed.... Date 11/10/66

LOCATION MAP

Film 4, photos 7, 8 & 9



MALOL VILLAGES

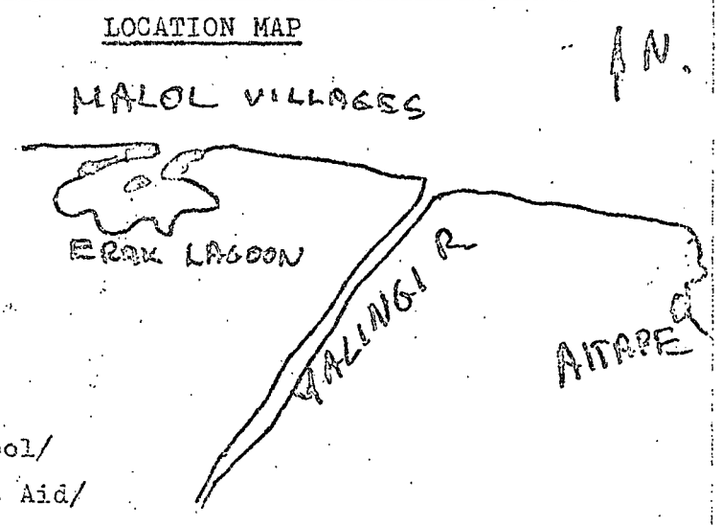
AMSOR

G.S.Form 7

:RVEY OF VILLAGE WATER SUPPLIES ....WEST SEPIK.....DISTRICT

:ILLAGE ..TAINYAPIEN. (MALOL AREA).
:UNCIL ..Sian.....
:NSUS DIVISION Aitape.West.Coast
:'eDISTRICT .Aitape.....
:PULATION .1569. (Malol Area)....
:CESS ...Canoe & Track.....
.....
:.EMAN/COUNCILLOR .Brere Avols..
.....Klami.....
:ATER USE - Domestic/Government School/
:.sion/Mission School/Hospital/First Aid/
:.ck/Irrigation
:JECTED DEVELOPMENT .....
.....
:IMATED DEMAND .....

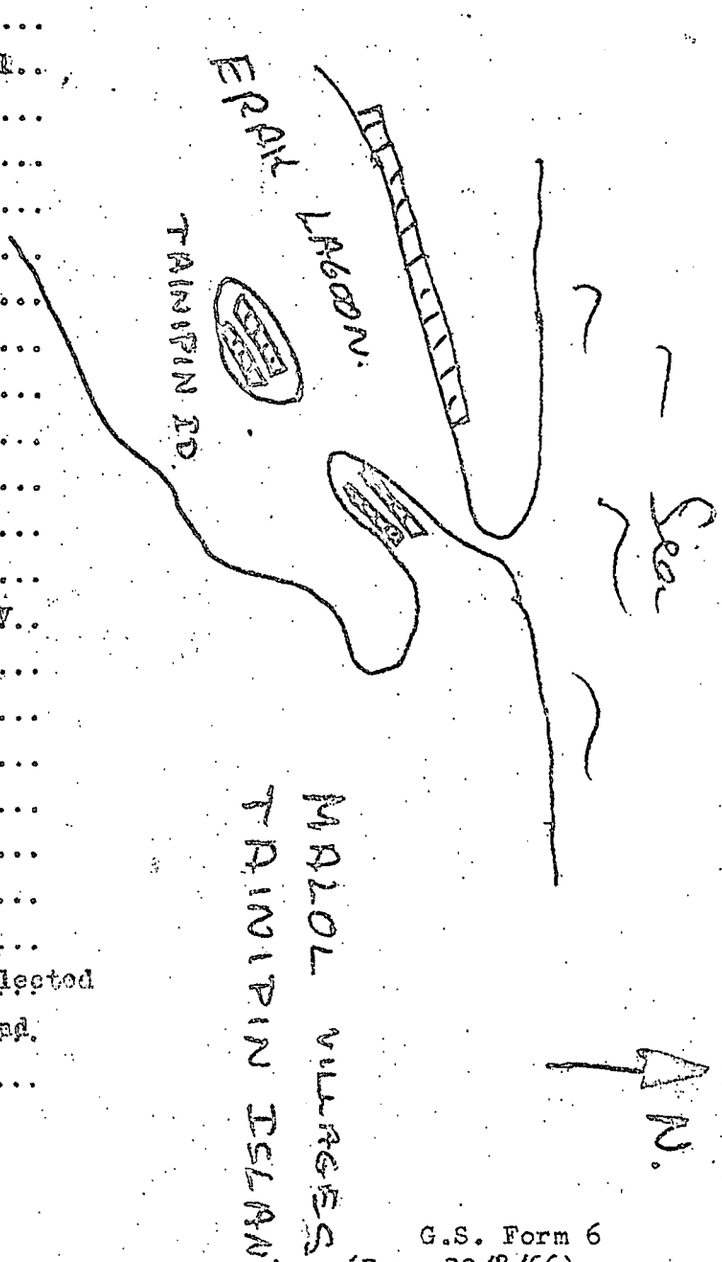
LOCATION MAP



PRESENT SUPPLY

:NFALL ....80 - 100.....
:T SEASON From ..Dec... to April..
:PE .Rainwater & shallow well.....
:.STANCE FROM VILLAGE .Central.....
:ANSPORT ...Track.....
:ELD/RATE OF FLOW .....
:ALITY - Chemical ..1259. ppm.....
Bactereological .....
:OTECTION ...Nil.....
:MARKS .....
.....
.....
.....
:Y SEASON From .June... to .Nov..
:PE ..As above.....
:STANCE FROM VILLAGE .....
:ANSPORT .....
:ELD/RATE OF FLOW .....
:ALITY .....Chemical .....
Bactereological .....
:OTECTION .....
:EMARKS .In extreme dry water collected
from socks on swampy ground inland.
from Erak Lagoon.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ..WEST. SEPIK.....DISTRICT

VILLAGE ..TAINYAPIN..(MALOL AREA). RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ..Spear points in Ansor Village.....

.....

DISTANCE FROM VILLAGE ..5 minutes.....

ACCESS .....Canoe & track.....

SITE KNOWN TO....Goodvin, Smith (P.W.D.).....

TYPE OF AQUIFER ...Beach & dune sand.....

DETAILS OF SCHEME ..Spear points in Ansor village and eventually provision for rainwater catchment and storage.....

.....

.....

MATERIALS REQUIRED .....

.....

LABOUR REQUIRED .....

SUPERVISION .....

ESTIMATED COST ($) .....

ALTERNATIVE SCHEME .....

.....

PRIORITY ...Second..... Signed .J.R.L. Reed.... Date .11/10/66

LOCATION MAP

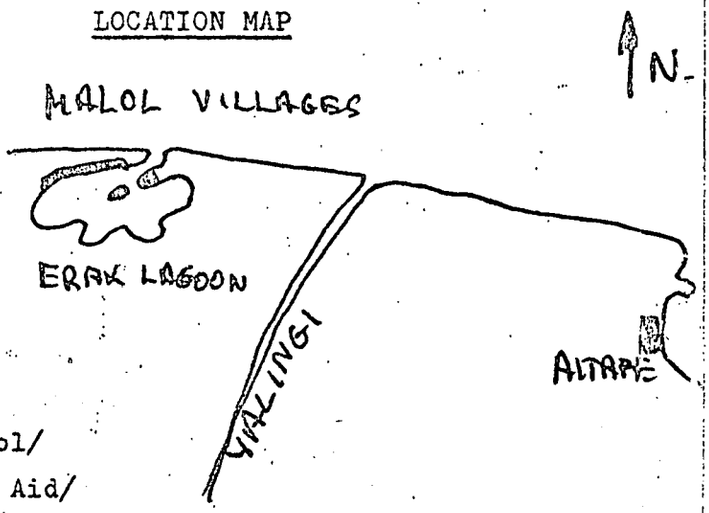
Film 4, photos 10 & 11.

G.S.Form 7

Y OF VILLAGE WATER SUPPLIES ...WEST SEPIK.....DISTRICT

...E . AINDRIN . (MALOL AREA)...
...IL ..Siau.....
...C DIVISION Aitape. West. Coast
...ISTRICT ..Aitape.....
...ATION ..1500. (Malol Area)...
...S ..Canoe & track.....
.....
...EM/COUNCILLOR .Brere Awol,..
.....Klomi.....
... USE - Domestic/Government School/
...n/Mission School/Hospital/First Aid/
.../Irrigation
...TED DEVELOPMENT .....
.....
...TED DEMAND .....

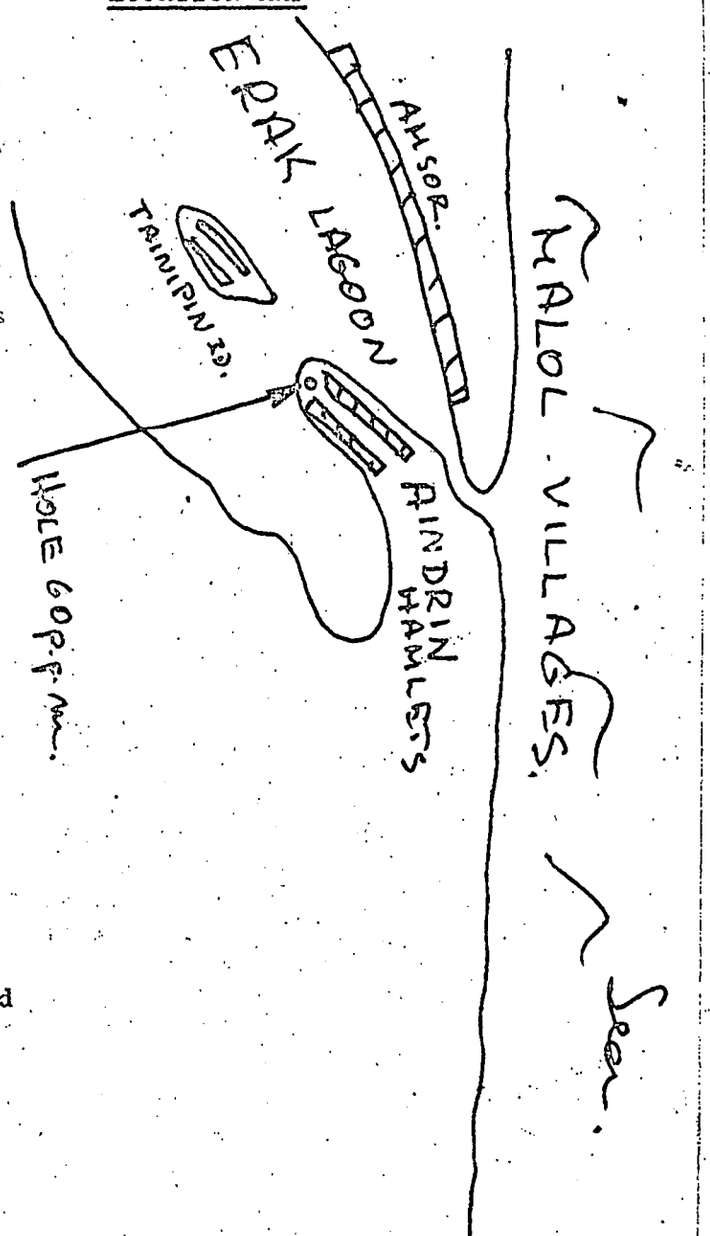
LOCATION MAP



PRESENT SUPPLY

...TALL .....80 - 100.....
...SEASON From .Dec... to .April.
...Rainwater & shallow well.....
...TANCE FROM VILLAGE ..Control....
...SPORT ....Truck.....
...D/RATE OF FLOW .....
...ITY - Chemical . Less than 100. ppm
Bactereological .....
...LECTION ....Nil.....
...RKS .....
.....
.....
.....
...SEASON From ..June... to .Nov..
...Ag. above.....
...TANCE FROM VILLAGE .....
...SPORT .....
...D/RATE OF FLOW .....
...ITY .....Chemical .....
Bactereological .....
...LECTION .....
...RKS . In extreme dry water collected
...m soaks in swampy ground inland
...m Erak lagoon.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES .....DISTRICT

VILLAGE .... DIERU .....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY . River terrace between east end of village and loop of Dio river.....

DISTANCE FROM VILLAGE .....50 feet.....

ACCESS .....Track.....

SITE KNOWN TO.....V.O.K.O. Smith (P.H.D.).....

TYPE OF AQUIFER ... River alluvium.....

DETAILS OF SCHEME .... Sanitary well 3 pipes.....

.....

.....

.....

MATERIALS REQUIRED ... As per standard drawing using fibreglass pipes

.....

LABOUR REQUIRED .....As per standard drawing.....

SUPERVISION .....Local.....

ESTIMATED COST ($) ...150.....

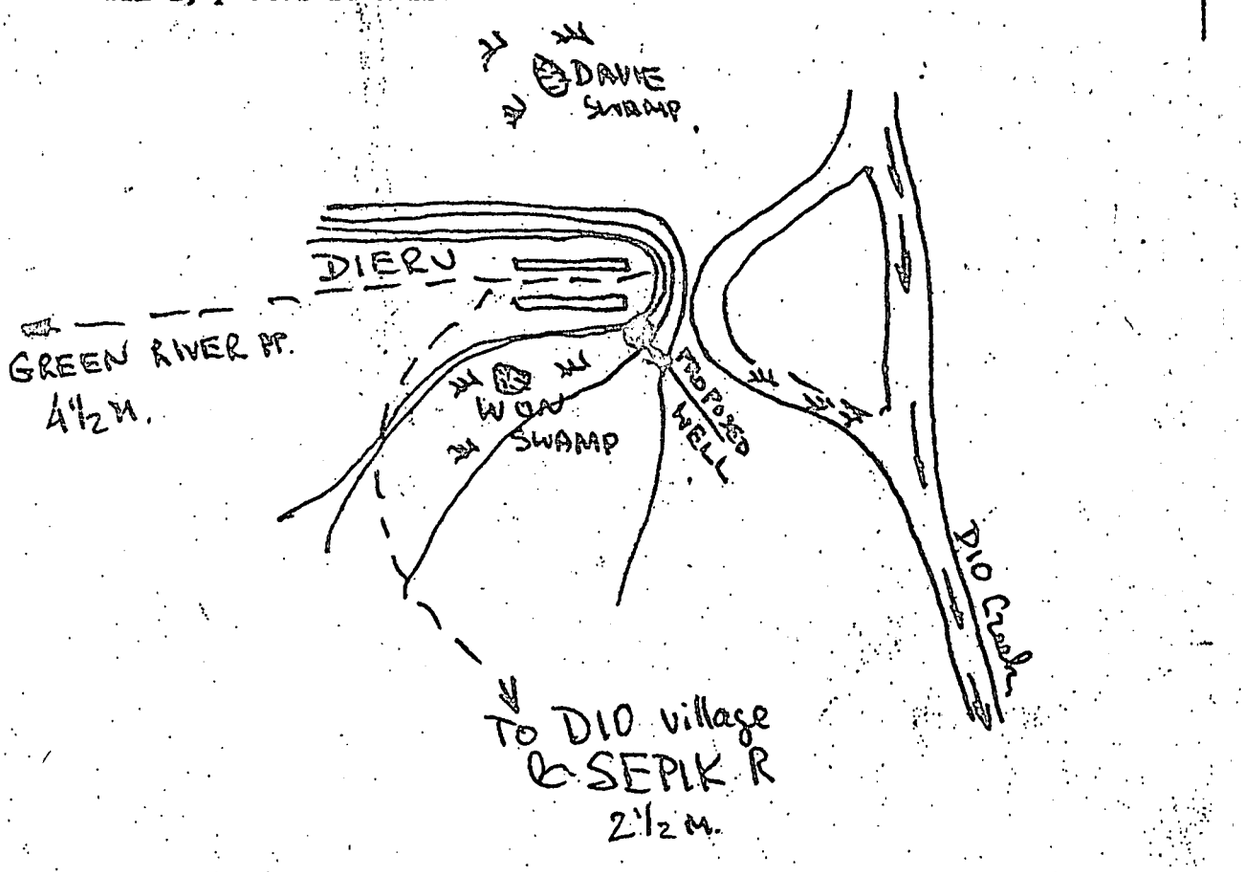
ALTERNATIVE SCHEME .....

.....

PRIORITY .... Second..... Signed ....J.R.L. Read. Date ...6/10/66

LOCATION MAP

Film 2, photos 14 & 15.



G.S.Form 7

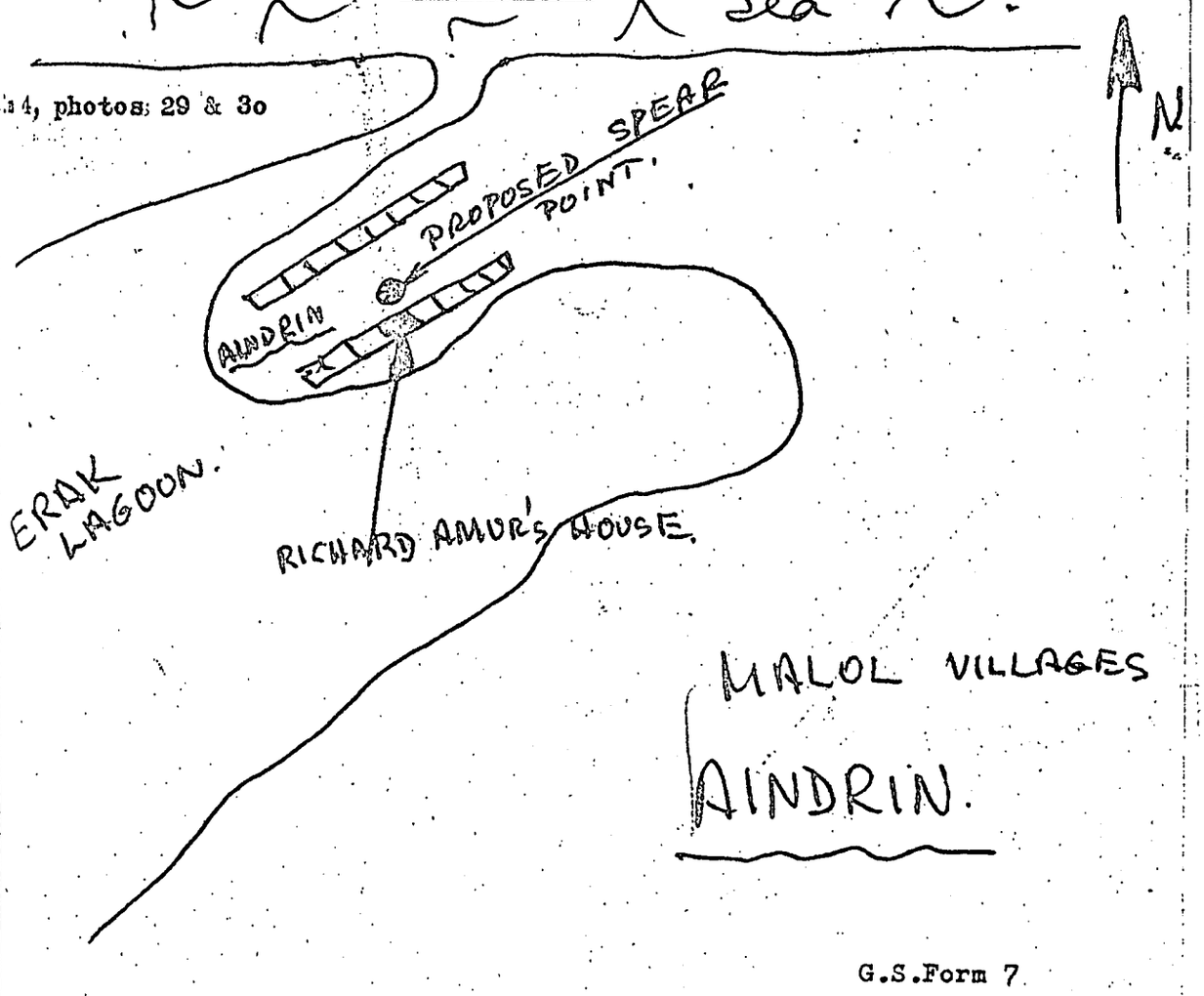
VEY OF VILLAGE WATER SUPPLIES .WEST.SEPIK.....DISTRICT

LLAGE ...AINDRIN . (MALOL AREA). RECOMMENDATIONS

PE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

ATION OF NEW SUPPLY ..Village.central.beside house belonging.....
...to.Richard Amur.....
STANCE FROM VILLAGE ..Central.....
ESS ....Track.....
S KNOWN TO..Goodwin, Smith.(P.H.D.).....
E OF AQUIFER .....Sand.....
AILS OF SCHEME .1 spear point.....
.....
.....
.....
ERIALS REQUIRED ...As per standard draving.....
.....
OUR REQUIRED .....Local.....
ERVISION .....Local.....
IMATED COST ($) .....70.....
ERNATIVE SCHEME ...Standard sanitary well using fibreglass pipes in ...the above location if spear point does not prove satisfactory....
ORITY ..Second..... Signed ..J.B.L. Read.... Date 11/10/66

LOCATION MAP



a 4, photos 29 & 30

G.S.Form 7

VEY OF VILLAGE WATER SUPPLIES ... WEST SEPIK .....DISTRICT

LAGE ..PO.....

NCIL ..Siau.....

SUS DIVISION West.Coast.Inland

DISTRICT ..Aitape.....

PULATION .100.....

CESS . Road, ~~Swamp~~ Canoe & track

.....

~~GOVT~~/COUNCILLOR ..Maio.....

.....

ER USE - Domestic/Government School/

ion/Mission School/Hospital/First Aid/

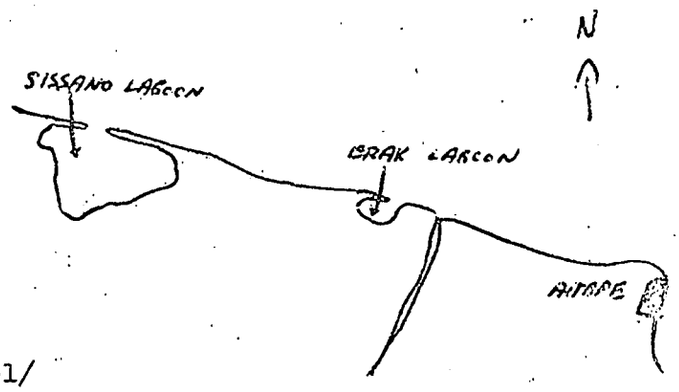
k/Irrigation

JECTED DEVELOPMENT .....

.....

MATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

NFALL .....100.....

SEASON From .Dec.... to .March.

E ..Shallow well.....

TANCE FROM VILLAGE South.Central

NSPORT ...Track.....

D/RATE OF FLOW .....

LITY - Chemical ..580. ppm.....

Bactereological .....

TECTION ...Nil.....

ARKS .....

.....

.....

.....

SEASON From .May.... to Nov...

E ..Sluggish stream.....

TANCE FROM VILLAGE ..1 mile.....

NSPORT ..Track.....

D/RATE OF FLOW .....

LITY .....Chemical .....

Bactereological .....

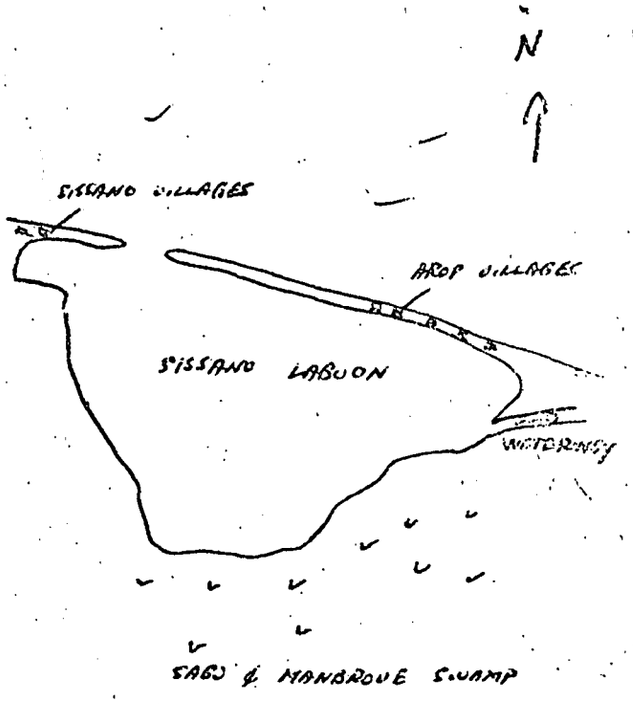
ECTION .....Nil.....

ARKS .....

.....

.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

VILLAGE ....PO..... RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ...Southern margin of village.....

.....

DISTANCE FROM VILLAGE ..South Central.....

ACCESS .....Track.....

SITE KNOWN TO...Mako, Goodwin.....

TYPE OF AQUIFER ...Silt & fine sand.....

DETAILS OF SCHEME .Develop existing shallow well into standard .....

.....sanitary well. 3 pipes.....

.....

.....

MATERIALS REQUIRED ...As per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) ...100.....

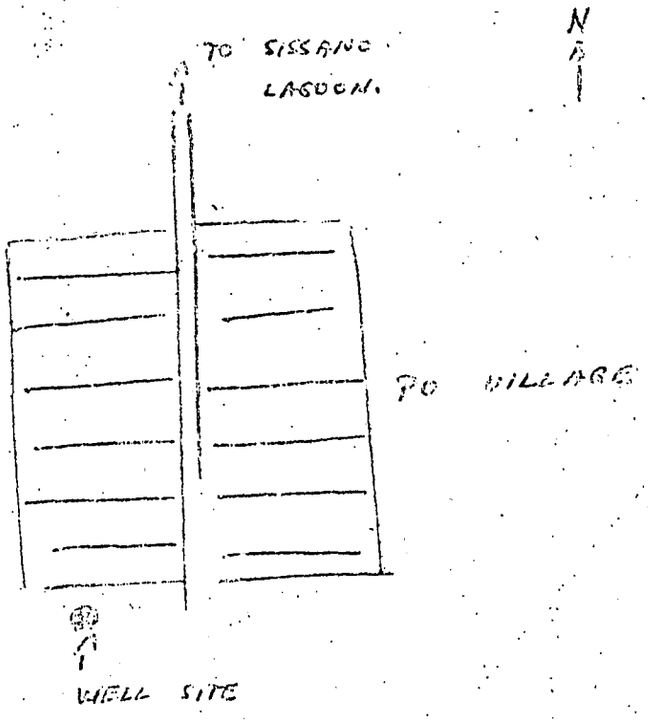
ALTERNATIVE SCHEME .....

.....

PRIORITY ..Second..... Signed .J.R.L. Read.... Date .11/10/38

LOCATION MAP

Film 4, photos 12 & 13.

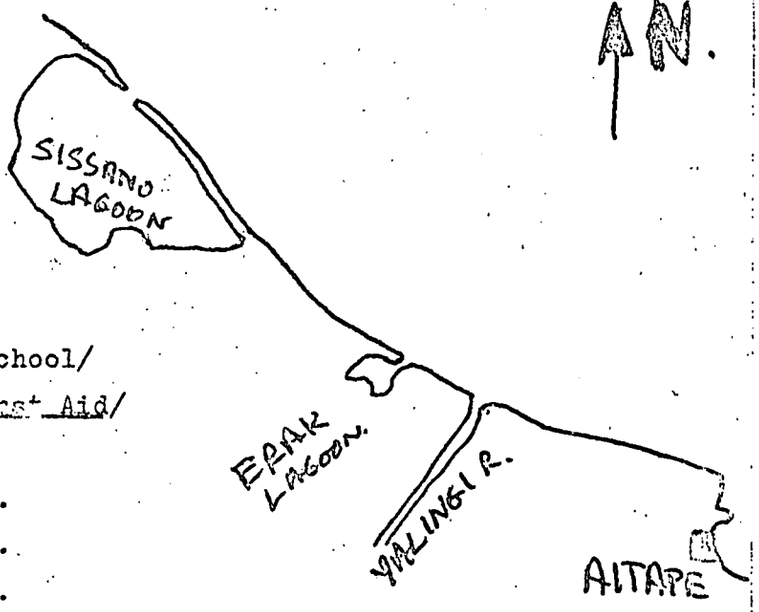


G.S.Form 7

VEY OF VILLAGE WATER SUPPLIES ..WEST SEPIK.....DISTRICT

LAGE ..AROP VILLAGES.....
NCIL ..Sisa.....
SUS DIVISION Aitape.West.Coast
DISTRICT ..Aitape.....
LATION ..910.....
ESS ..Road & then canoe.....
.....
MAN/COUNCILLOR .....
.....
ER USE - Domestic/Government School/
ion/Mission School/Hospital/First Aid/
/Irrigation
ECTED DEVELOPMENT .....
.....
MATED DEMAND .....

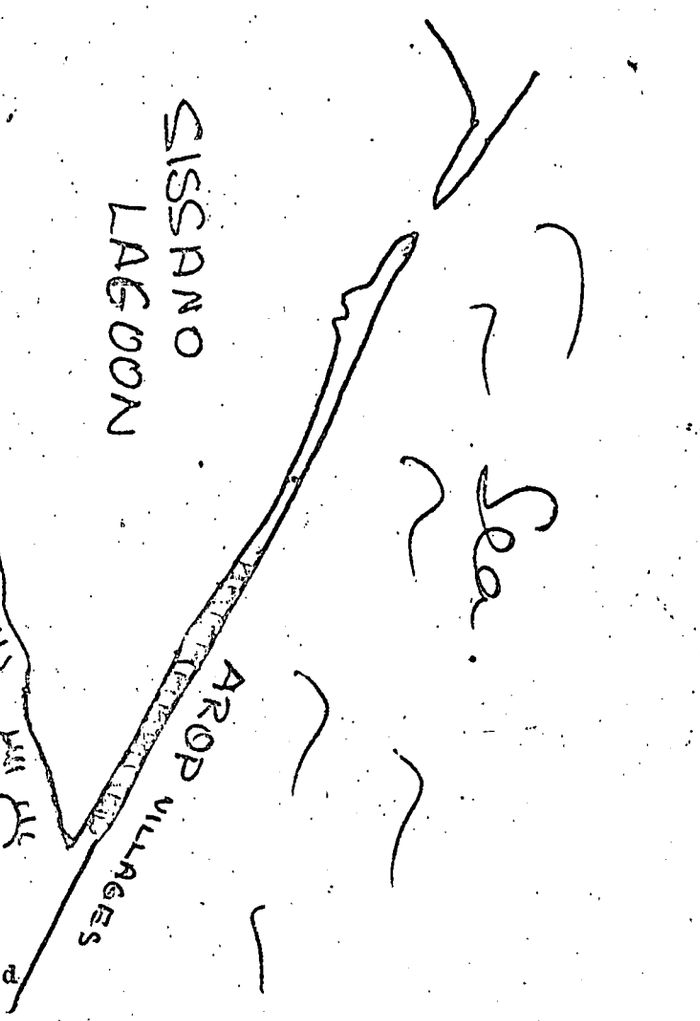
LOCATION MAP



PRESENT SUPPLY

FALL .....60.-.100.....
SEASON From ..Dec... to ..April
..Rainwater & shallow scoks....
NCE FROM VILLAGE ..Central....
SPORT ..Track.....
D/RATE OF FLOW .....
ITY - Chemical ..420.ppm.....
Bactereological .....
ECTION ...Nil.....
KS .....
.....
.....
.....
SEASON From .June.... to ..Nov.
..As above.....
NCE FROM VILLAGE .....
SPORT .....
D/RATE OF FLOW .....
ITY .....Chemical .....
Bactereological .....
ECTION .....
KS .In extreme dry water collected
.soaks in swamp ground inland.
.Sissano Lagoon.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ... WEST SEPIK ..... DISTRICT

VILLAGE .. AROP VILLAGES..... RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY .4.spear.points.located.in.centres.of.maximum .population.on.the.lagoon.side.of.the.sand spit.....

DISTANCE FROM VILLAGE ...Central.....

ACCESS .....Track.....

SITE KNOWN TO... Goodwin, Smith.(P.H.D.).....

TYPE OF AQUIFER ..Beach.&.dune.sand.....

DETAILS OF SCHEME ...4.spear.points.....

.....

.....

.....

MATERIALS REQUIRED .....As.per.standard.drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

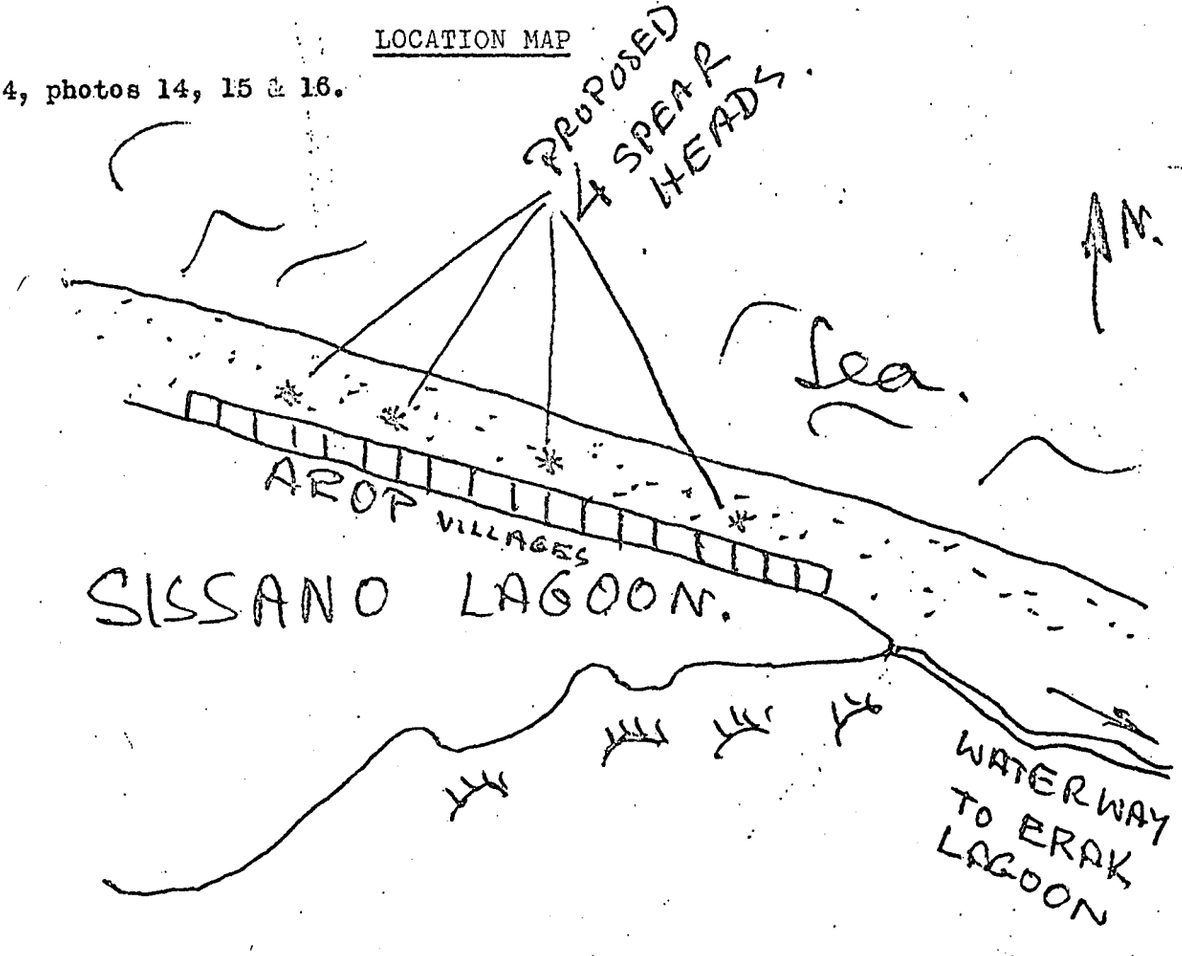
ESTIMATED COST ($) .....280.....

ALTERNATIVE SCHEME .Standard.sanitary.wells.using.fibreglass.pipes. ...in.the.above.locations.if.spear.points.do.not.prove.satisfactory..

PRIORITY .First..... Signed ..J.B.L..Read.... Date 11/10/66

LOCATION MAP

Film 4, photos 14, 15 & 16.

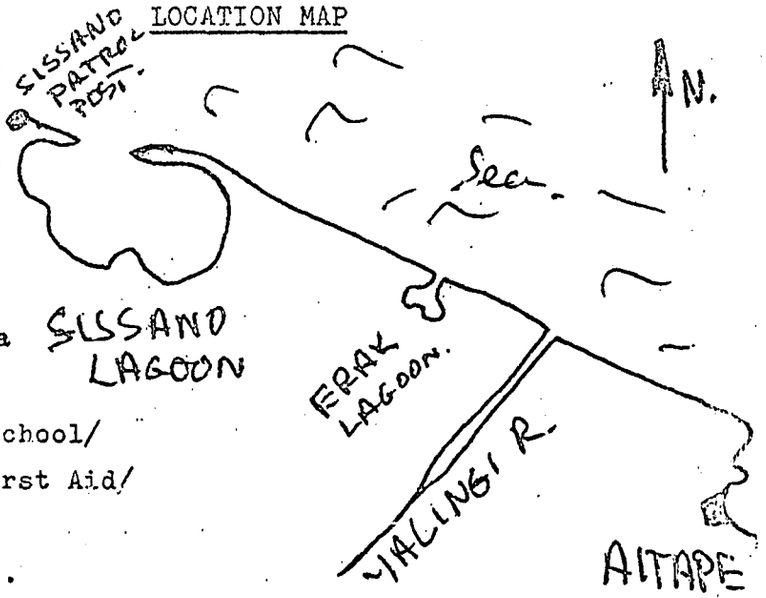


G.S.Form 7

SURVEY OF VILLAGE WATER SUPPLIES ... WEST. SEPIK ..... DISTRICT

VILLAGE MAINDRIN..(SISSANO AREA)..
COUNCIL ..Siau.....
CENSUS DIVISION Aitape West Coast
SUB-DISTRICT ..Aitape.....
POPULATION ..1000.(Sissano Area)..
ACCESS ..Road, canoe & track.....
.....
MAGISTRATE/COUNCILLOR ..Casper Saroia
.....
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

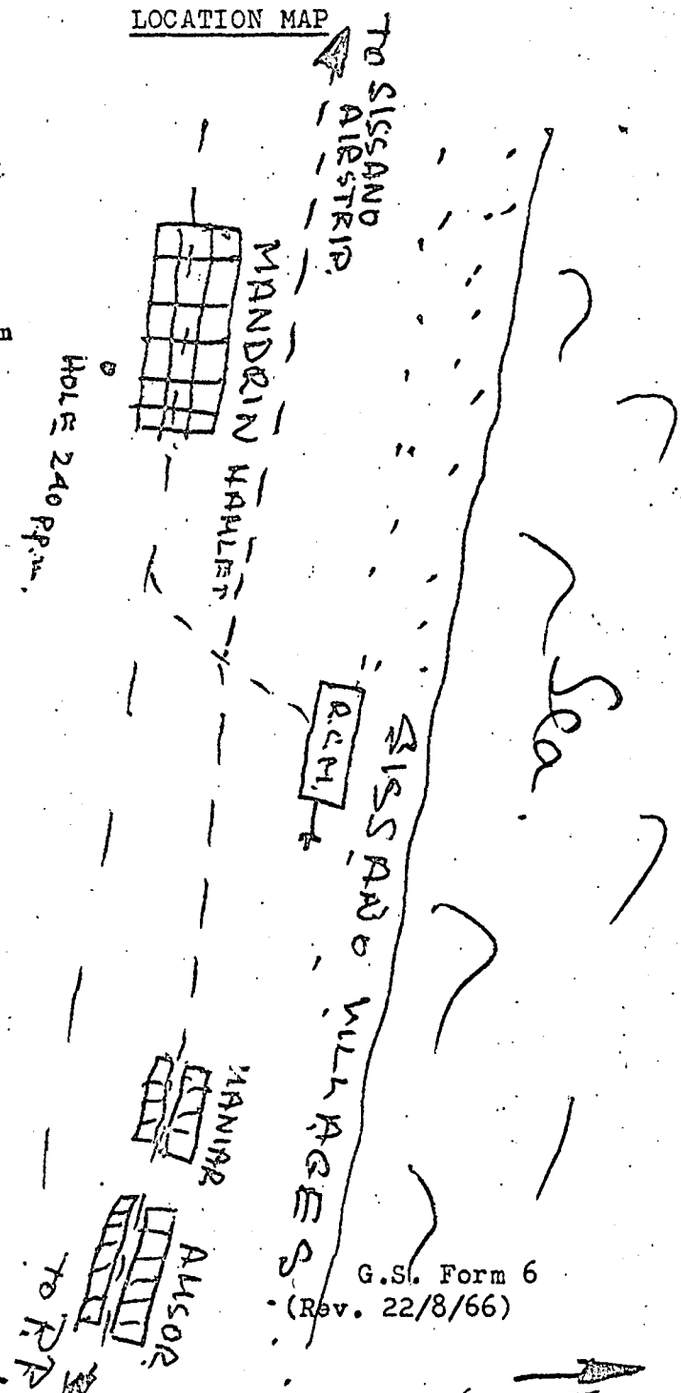
LOCATION MAP



PRESENT SUPPLY

RAINFALL ..80.-.100.....
WET SEASON From .Dec.... to .April.
TYPE .Rainwater & shallow wells....
DISTANCE FROM VILLAGE ..2.-.3 mins.
TRANSPORT ..Track.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical ..240 ppm
Bactereological .....
INFECTION ..Nil.....
REMARKS .....
.....
.....
.....
DRY SEASON From .June... to ..Nov.
TYPE .As above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
INFECTION .....
REMARKS .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ..WEST SEPIK.....DISTRICT

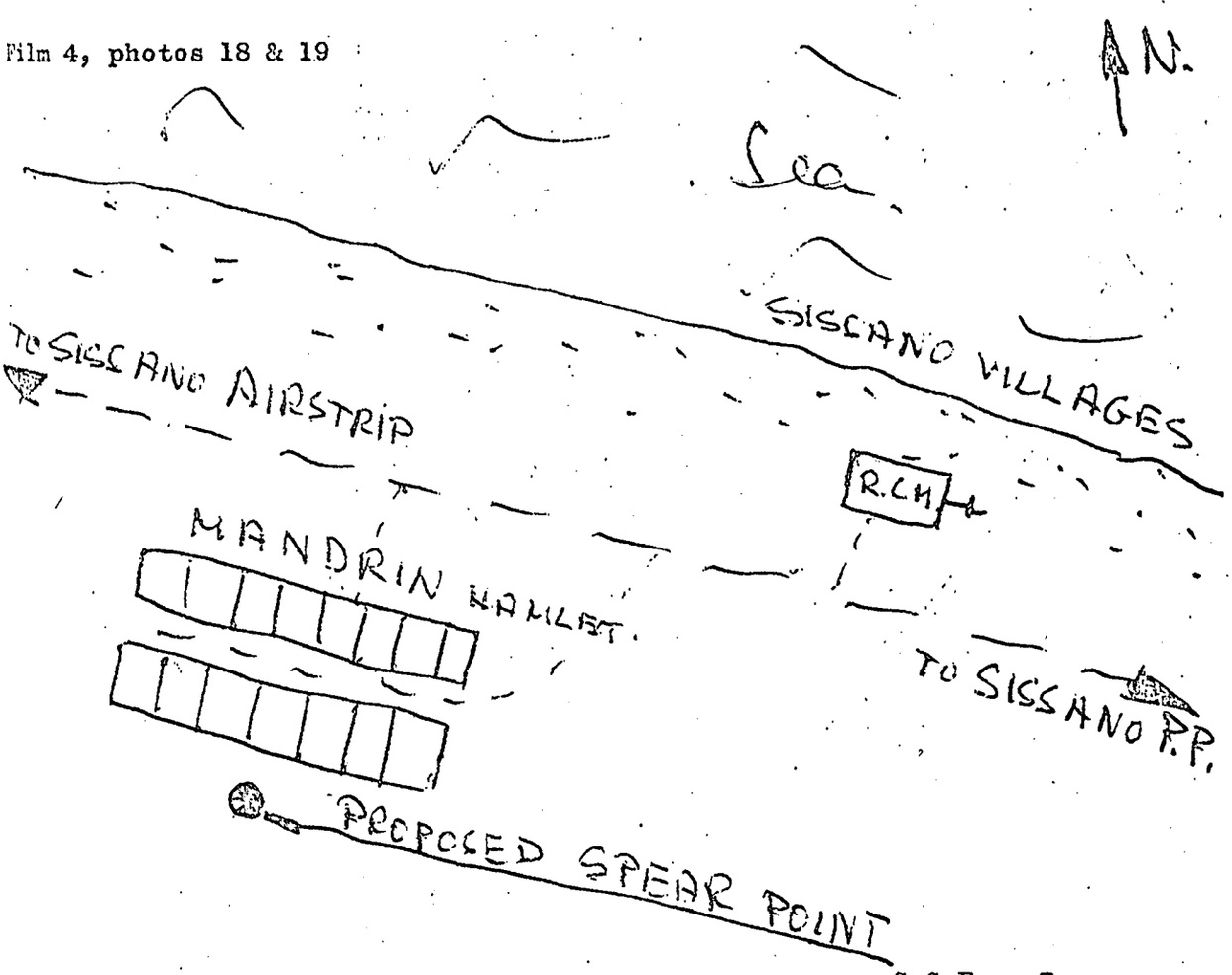
VILLAGE MAINDRIN..(SISSANO AREA,. RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY .1.spear.point at S.E. margin of.village.....
.....
DISTANCE FROM VILLAGE ...South central.....
ACCESS .....Track.....
SITE KNOWN TO....~~XXXX~~...Casper Sarcia, Goodwin, Smith.(P.W.D.)....:.
TYPE OF AQUIFER ...Beach & dune sand.....
DETAILS OF SCHEME ....1.spear.point.....
.....
.....
.....
MATERIALS REQUIRED .....As per standard drawing.....
.....
LABOUR REQUIRED .....Local.....
SUPERVISION .....Local.....
ESTIMATED COST ($) .....70.....
ALTERNATIVE SCHEME .Standard.sanitary well in above location using..
fibreglass pipes if spear point does not prove satisfactory.....
PRIORITY .....Second..... Signed ..J.R.L. Read... Date .12/10/66

LOCATION MAP

Film 4, photos 18 & 19

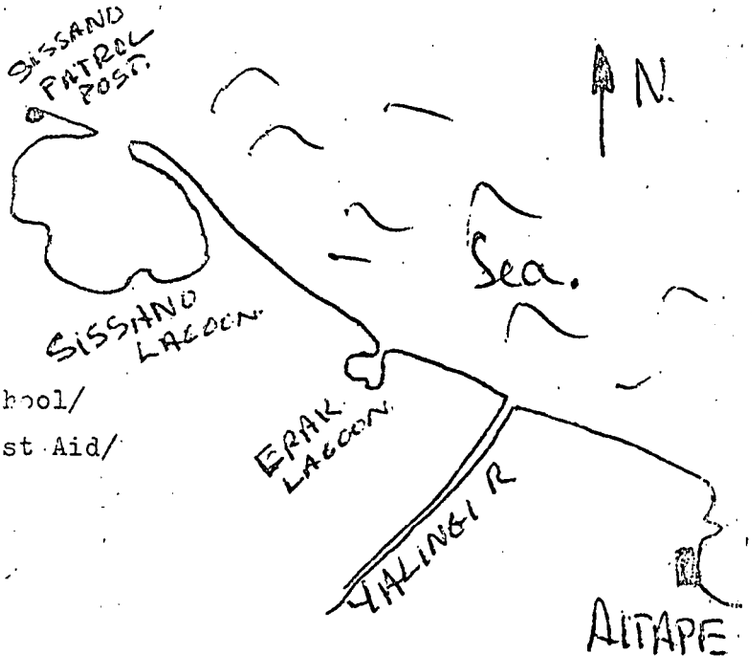


G.S.Form 7

VEY OF VILLAGE WATER SUPPLIES ..WEST SEPIK.....DISTRICT

LLAGE AMSOR & MANIAR (SISSANO AREA)
NCIL ..Siau.....
NSUS DIVISION Aitape.West.Coast
.DISTRICT ..Aitape.....
ULATION ..1000.(Sissano.Area).
ESS .Canoe.&.Road.&.Track.....
.....
COUNCILLOR :Casper.Saroia
.....
ER USE - Domestic/Government School/
ion/Mission School/Hospital/First Aid/
k/Irrigation
ECTED DEVELOPMENT .....
.....
MATED DEMAND .....

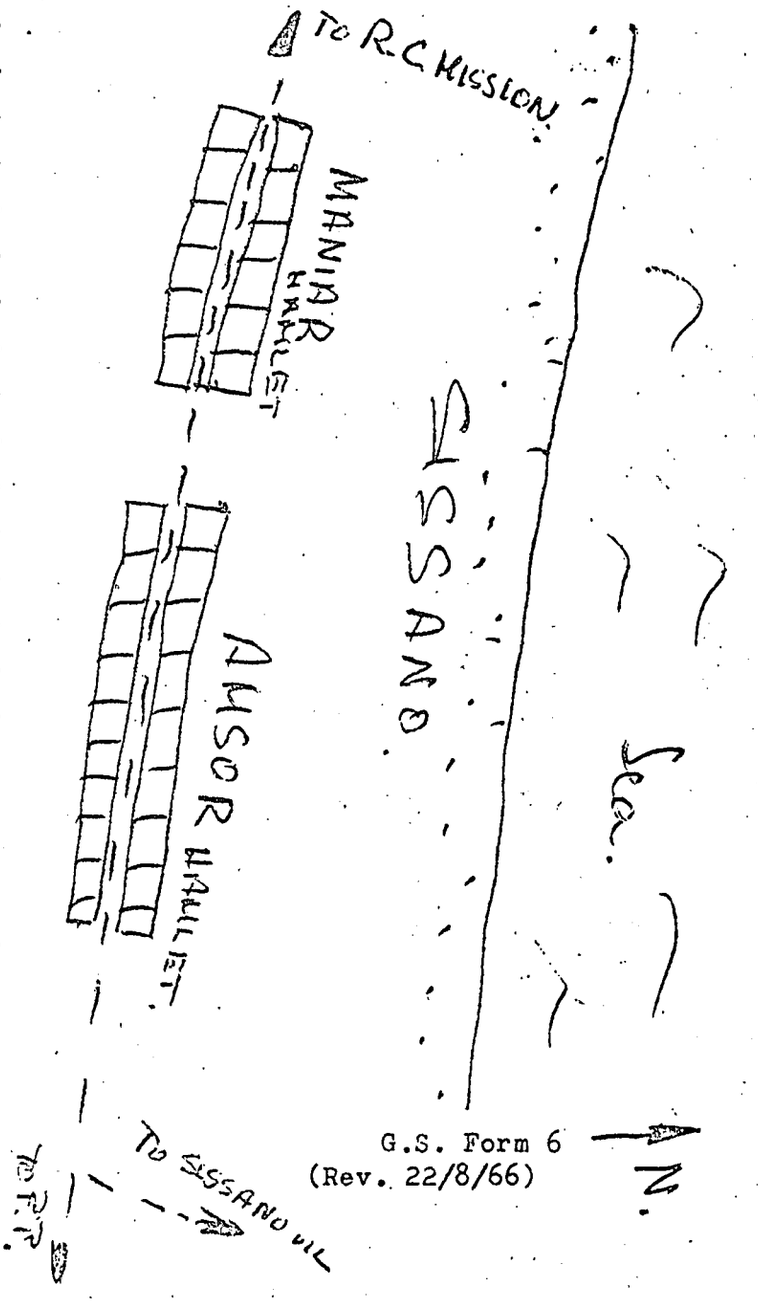
LOCATION MAP



PRESENT SUPPLY

NFALL .....80 - 100.....
SEASON From ..Dec.... to ..April.
Rainwater & Sissano well.....
NCE FROM VILLAGE ..a mile.....
SPORT ...Track.....
D/RATE OF FLOW .....
ITY - Chemical ..300.ppm.....
Bactereological .....
ECTION ....Nil.....
RKS .....
.....
.....
.....
SEASON From .June.... to ..Nov.
.....As.above.....
NCE FROM VILLAGE .....
SPORT .....
D/RATE OF FLOW .....
ITY .....Chemical .....
Bactereological .....
CTION .....
RKS .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

...Y OF VILLAGE WATER SUPPLIES ..WEST.SEPIK.....DISTRICT

...AGE AMSOR.&.MANIAR.(SISSANO AREA) RECOMMENDATIONS

... OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

...TION OF NEW SUPPLY .1 spear point located ~~between~~ between the .... villages beside the house belonging to Asip .....

...ANCE FROM VILLAGE ... Central .....

...YSS .....Treak .....

...KNOWN TO..Cooper.Sangia,.Goodwin,.Smith.(P.H.D.)..... :.

... OF AQUIFER ..Beach & dune sand .....

...ILS OF SCHEME ..Spear Point .....

.....

.....

.....

...NALS REQUIRED ...As per standard drawing .....

.....

...ER REQUIRED .....Local .....

...RVISION .....Local .....

...IMATED COST ($) .....70 .....

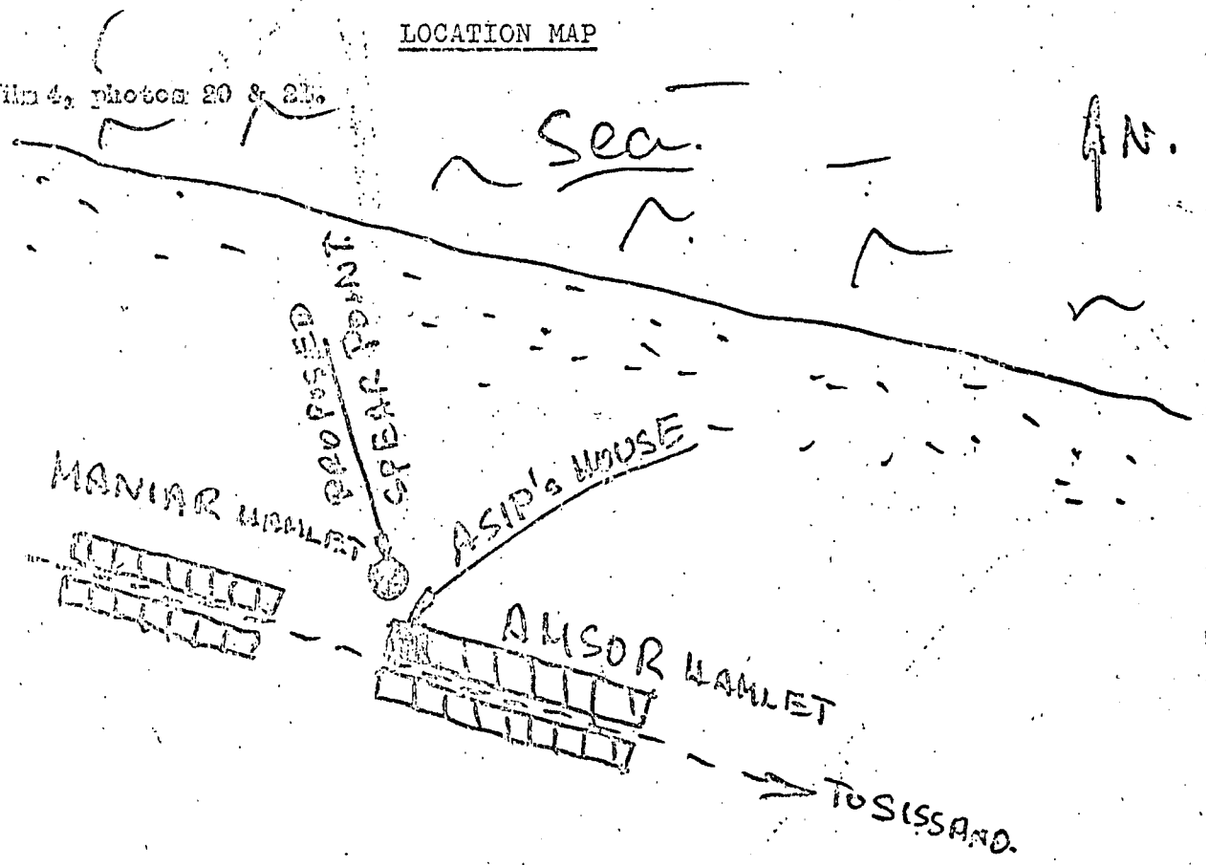
...RNATIVE SCHEME .Standard sanitary well using fibreglass pipes ...

...the above location if spear point does not prove satisfactory...

...ORITY ..Second..... Signed ..J.P.L..Reed.... Date .12/10/88

LOCATION MAP

Film 4, photos 20 & 21.

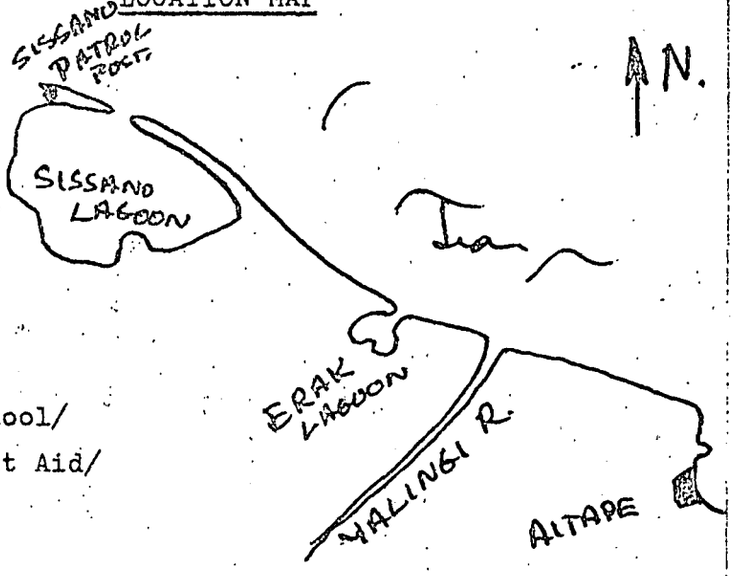


G.S.Form 7

SURVEY OF VILLAGE WATER SUPPLIES ..WEST SEPIK.....DISTRICT

VILLAGE ..SISSANO (SISSANO AREA)..
COUNCIL .Sinu.....
CENSUS DIVISION .Aitape.West Coast
SUB-DISTRICT ..Aitape.....
POPULATION ..1000.(Sissano Area)..
ACCESS .Road & Canoe.....
.....
HEADMAN/COUNCILLOR .Casper Saroia
.....
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

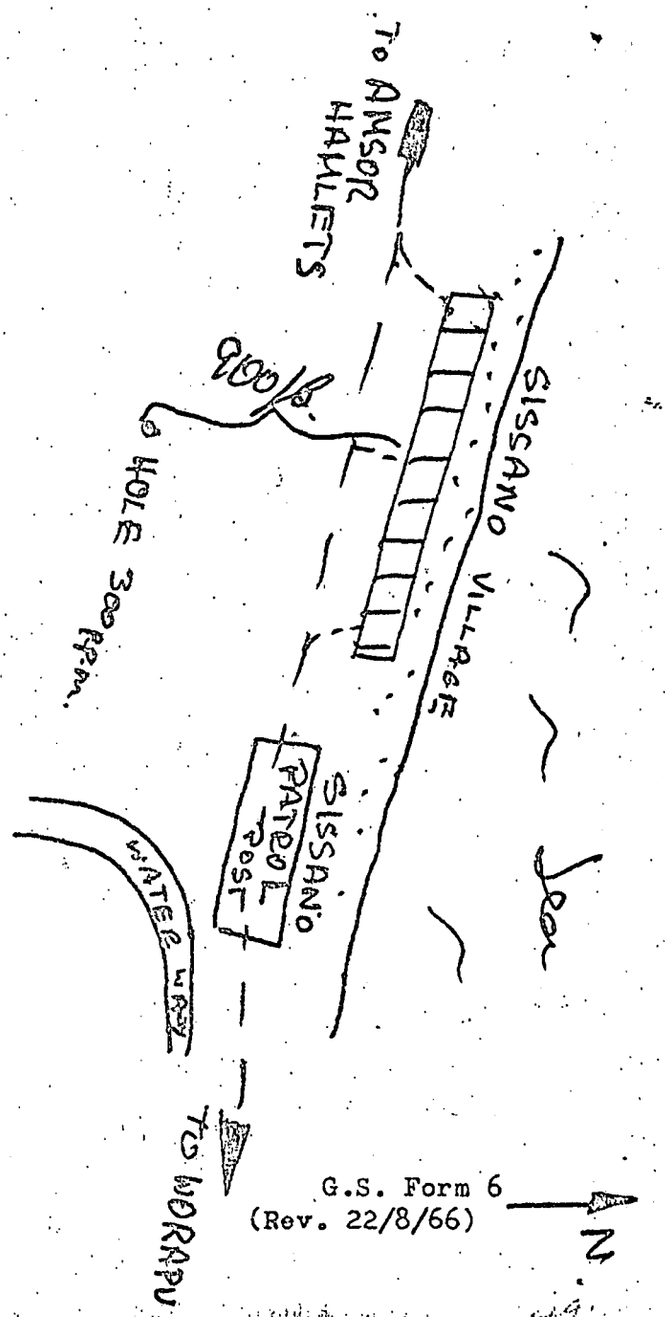
LOCATION MAP



PRESENT SUPPLY

RAINFALL ...80 - 100.....
WET SEASON From .Dec.... to .April
TYPE .Rainwater & shallow wells....
DISTANCE FROM VILLAGE .1/2 mile....
TRANSPORT ..Track.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .300.ppm.....
Bactereological .....
PROTECTION ...Nil.....
REMARKS .....
.....
.....
.....
DRY SEASON From .June.... to .Nov..
TYPE ...As above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ... WEST SEPIK ..... DISTRICT

VILLAGE .. SISSANO (SISSANO AREA) RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY .~~Kopermangin~~ Central southern margin of village

DISTANCE FROM VILLAGE .... Central

ACCESS ..... Track

SITE KNOWN TO .... Casper Saroia, Goodwin, Smith (P.H.D.)

TYPE OF AQUIFER ... Beach & Dune sand

DETAILS OF SCHEME .. 1. spear point

MATERIALS REQUIRED ... As. per standard drawing

LABOUR REQUIRED ..... Local

SUPERVISION ..... Local

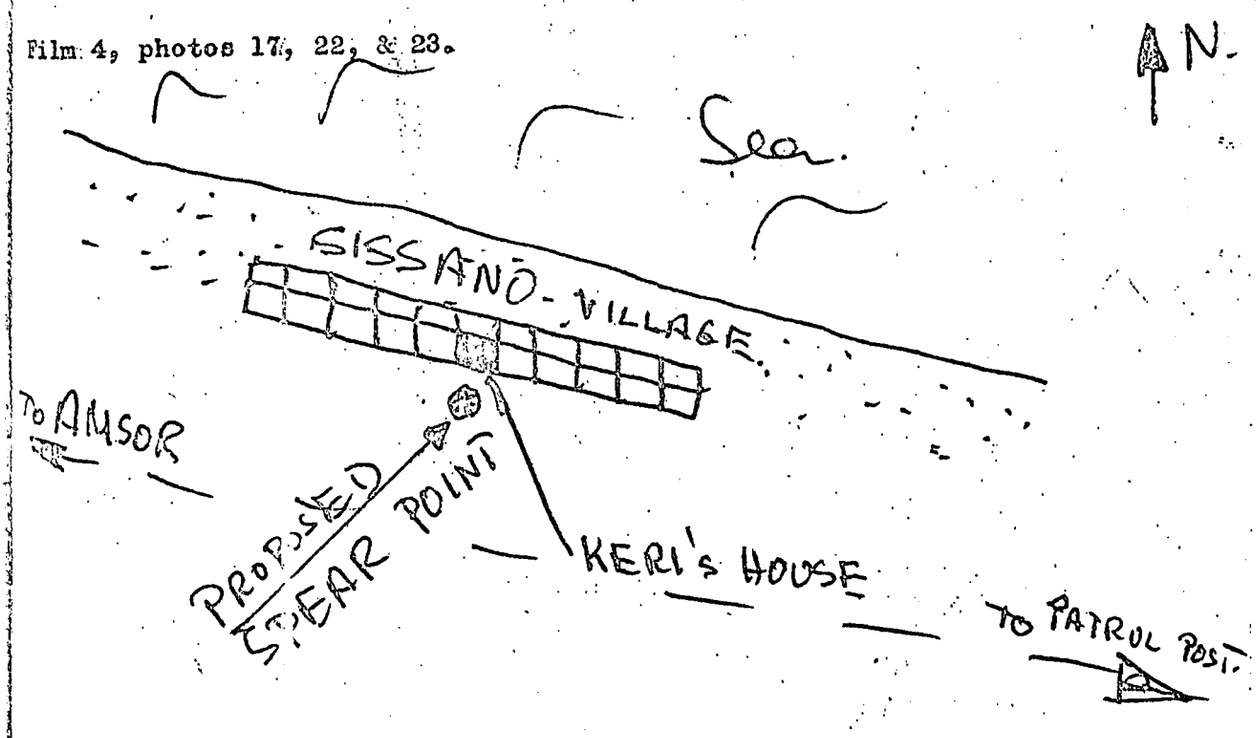
ESTIMATED COST ($) 70

ALTERNATIVE SCHEME . Standard sanitary well using fibreglass pipes in the above location if spear point does not prove satisfactory

PRIORITY .. Second ..... Signed .. J.R.L. Read .... Date .. 12/10/66

LOCATION MAP

Film 4, photos 17, 22, & 23.

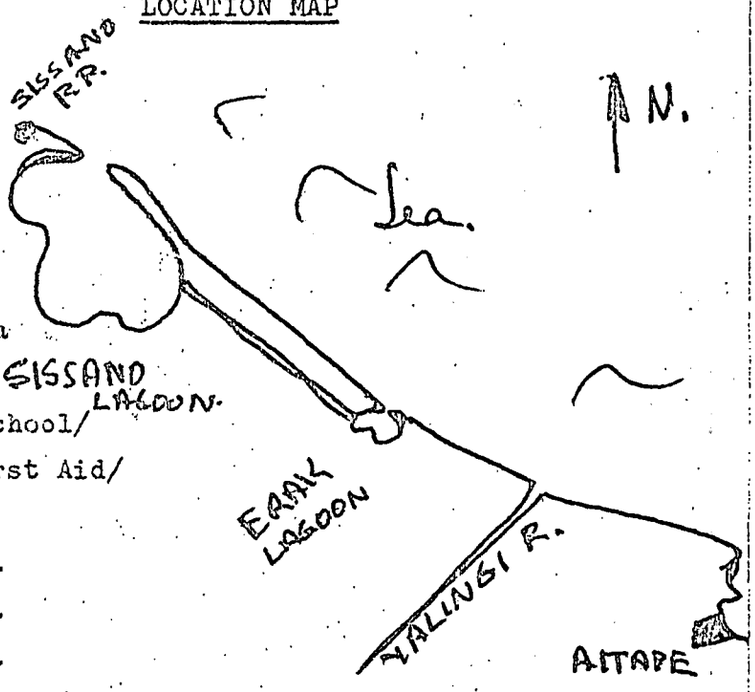


G.S.Form 7

:EWEY OF VILLAGE WATER SUPPLIES ...WEST SEPIK.....DISTRICT

:LLAGE ..WARAPU.....
:NCIL ...Siau.....
:NSUS DIVISION Aitape. West. Coast
:eDISTRICT . Aitape.....
:ULATION ..1180.....
:ESS ..Road, canoe & track.....
.....
:OWAN/COUNCILLOR Thomas. Maintopa
..... SISSAND LAGOON.
:ER USE - Domestic/Government School/
:sion/Mission School/Hospital/First Aid/
:k/Irrigation
:NECTED DEVELOPMENT .....
.....
:IMATED DEMAND .....

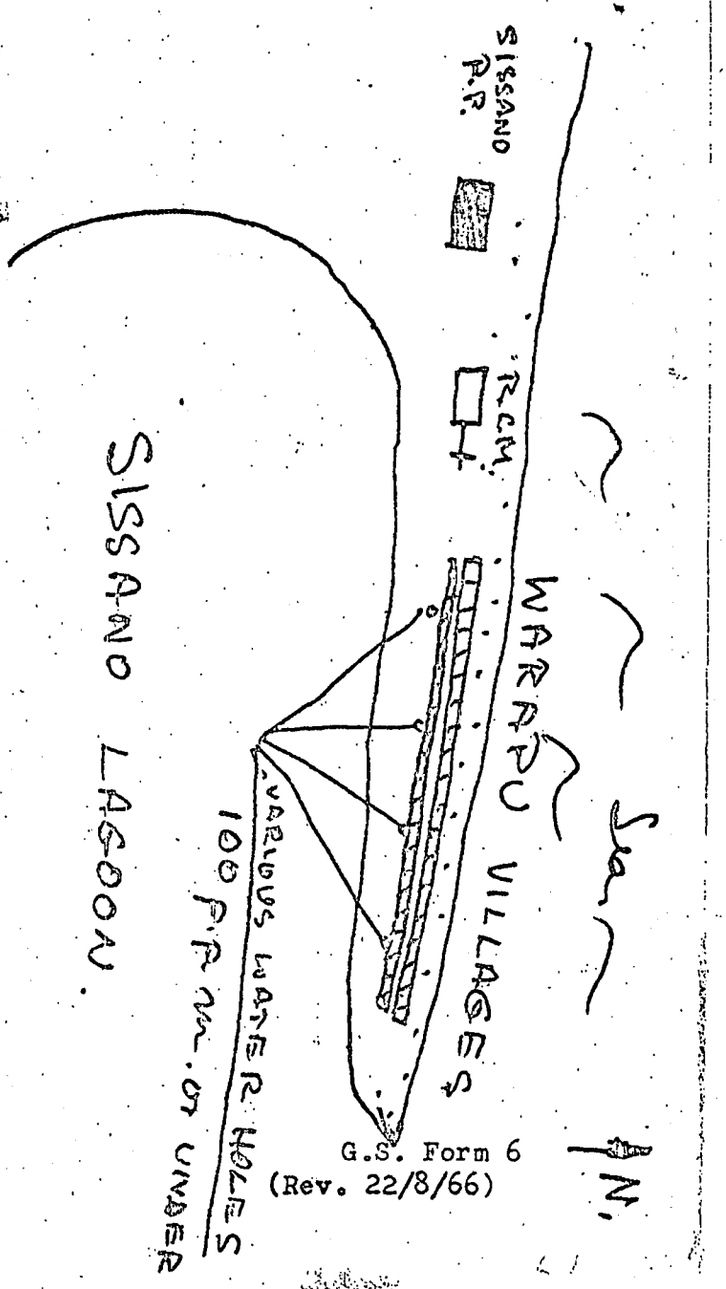
LOCATION MAP



PRESENT SUPPLY

:NFALL ...80.-.100.....
:T SEASON From ..Dec... to .April.
:E Rainwater.&.shallow wells.....
:TANCE FROM VILLAGE .Central.....
:NSPORT ...Track.....
:LD/RATE OF FLOW .....
:LITY - Chemical .Less.than 100. ppm.
Bactereological .....
:ECTION ....Nil.....
:ARKS .....
.....
.....
.....
T SEASON From .June.... to .Nov..
:E ... As above.....
:TANCE FROM VILLAGE .....
:NSPORT .....
:LD/RATE OF FLOW .....
:LITY .....Chemical .....
Bactereological .....
:ECTION .....
:ARKS .....
.....
.....

LOCATION MAP



SURVEY OF VILLAGE WATER SUPPLIES ....WEST.SEPIK.....DISTRICT

VILLAGE ....WARAPU.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY .3 spear points village west, central & east. located beside 1. House Kiap, & houses belonging to 2. Pina & 3. T. Maintopa

DISTANCE FROM VILLAGE .Village west, central & east.....

ACCESS .....Track.....

SITE KNOWN TO..T. Maintopa, Goodwin, Smith. (P.E.D.).....

TYPE OF AQUIFER ..Beach & dune sand.....

DETAILS OF SCHEME ...3 spear points.....

.....

.....

.....

MATERIALS REQUIRED ..As per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

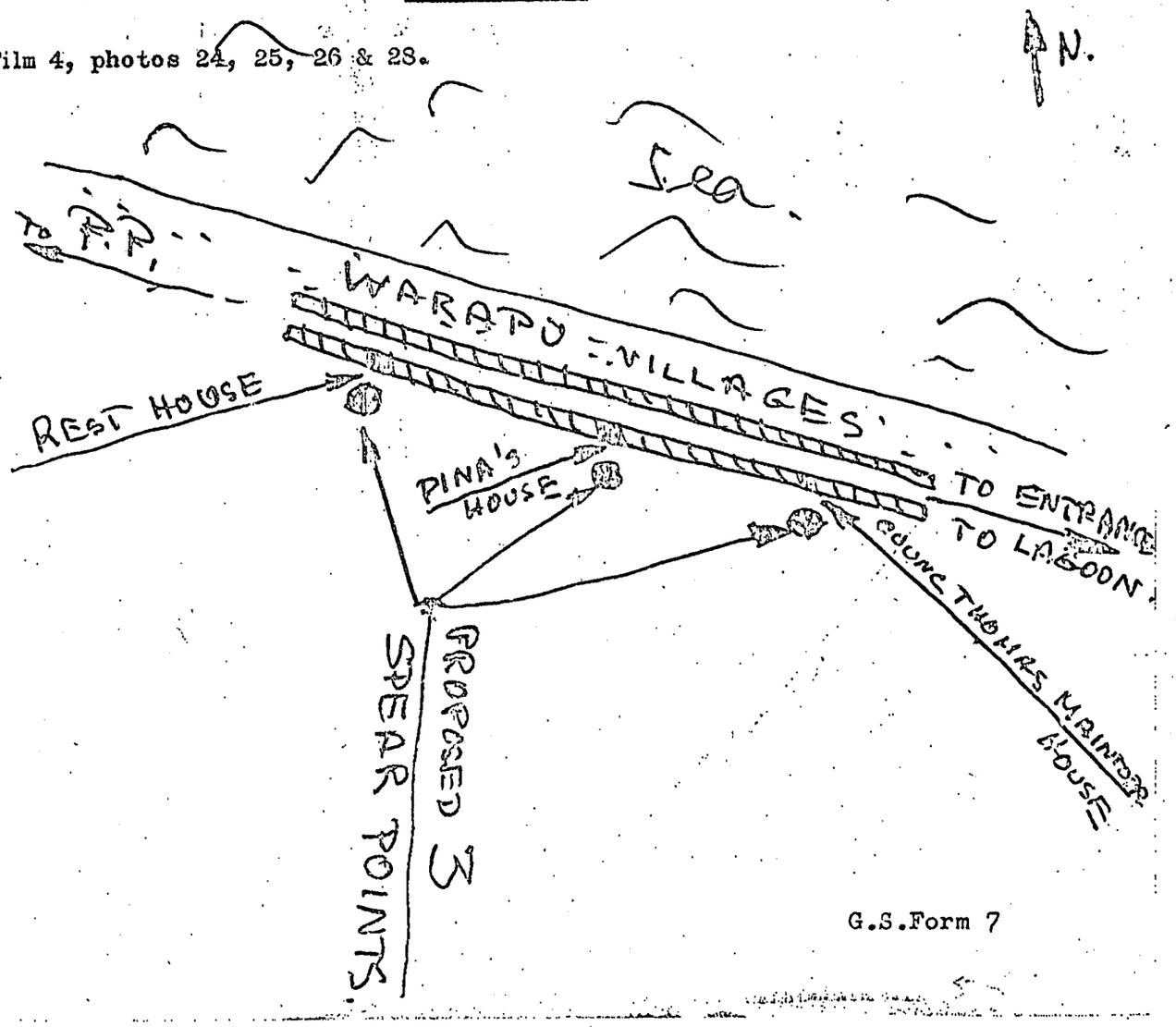
ESTIMATED COST ($) .....210.....

ALTERNATIVE SCHEME .Standard sanitary wells using fibreglass pipes.. in the above locations if spear points do not prove satisfactory.....

PRIORITY ...Second..... Signed .J.R.L. Read..... Date 12/10/66

LOCATION MAP

Film 4, photos 24, 25, 26 & 28.



G.S.Form 7

...Y OF VILLAGE WATER SUPPLIES ... WEST. SEPIK .....DISTRICT

...E ..SUAIN NO. 1.....

...CIL .Siau.....

...S DIVISION Aitape.East Coast

...ISTRICT ..Aitape.....

...LATION ....270.....

...S Aicraft or canoe.....

.....

...N/COUNCILLOR ..Wamrambus...

.....

...R USE - Domestic/Government School/

...on/Mission School/Hospital/First Aid/

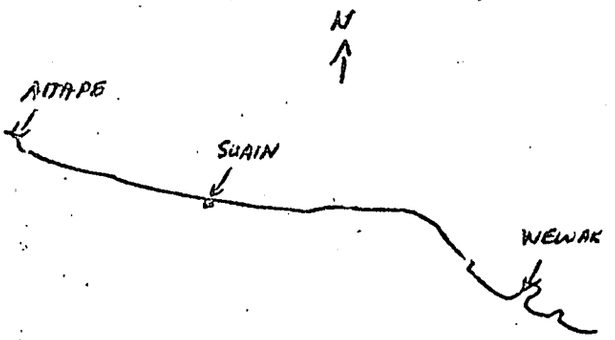
.../Irrigation

...OTED DEVELOPMENT .....

.....

...ATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

...ALL ....80 - 100.....

...EASON From .Dec.... to ..April

... Rainwater & small creek.....

...NCE FROM VILLAGE ..¼ mile.....

...PORT .Track.....

.../RATE OF FLOW .....

...TY - Chemical .....

Bactereological .....

...CTION ..Nil.....

...KS .....

.....

.....

.....

...EASON From .June... to .Nov..

...As above.....

...NCE FROM VILLAGE .....

...PORT .....

.../RATE OF FLOW .....

...TY .....Chemical .....

Bactereolcgical .....

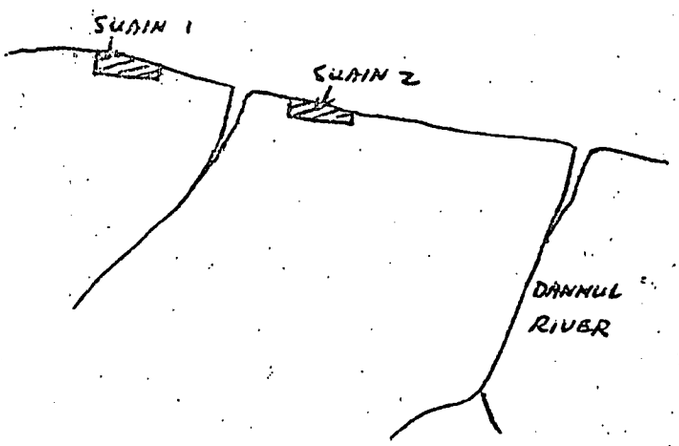
...CTION .....

...MS .....

.....

.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

:VEY OF VILLAGE WATER SUPPLIES ...WEST SEPIK.....DISTRICT

:ILLAGE ...SUAIN NO. 1.....

RECOMMENDATIONS

:E OF RECOMMENDED SCHEME - Pumped/Gravity/~~Well~~/Bore/Hydraulic Ram/Rainwater Catchment.

:OCATION OF NEW SUPPLY .2 sanitary wells, 1 deep well central inland begin. west end of village & 2. beside house belonging to Dakai.....

:ISTANCE FROM VILLAGE ..Central, west & east.....

:CCESS .....Track.....

:ITE KNOWN TO....Dakai, Smith (P.H.D.).....

:PE OF AQUIFER ....Beach & dune sand.....

:TAILS OF SCHEME ...2 sanitary wells, one to depth of about 20 feet. .....8 pipes.....

.....

.....

:ATERIALS REQUIRED ....As per standard drawing.....

.....

:EDUR REQUIRED .....Local.....

:PERVISION .....Local.....

:IMATED COST ($) ....220.....

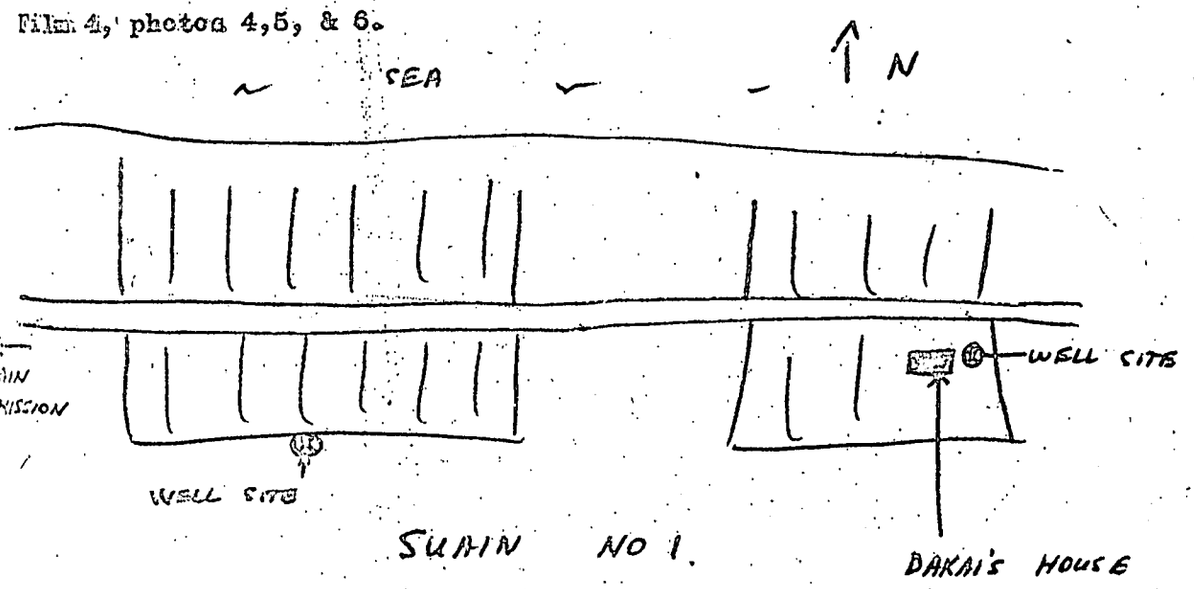
:ERNATIVE SCHEME .....

.....

:IORITY ...Second..... Signed J.R.L. Read Date 13/10/66

LOCATION MAP

Film 4, photos 4,5, & 6.

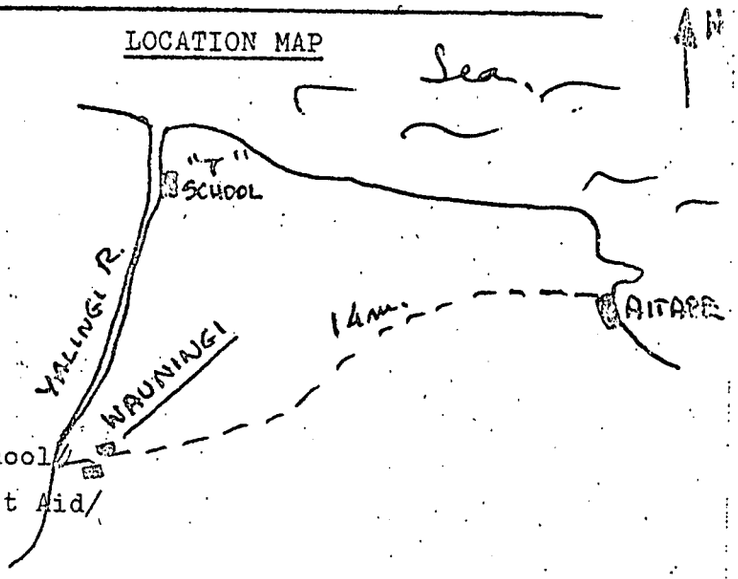


G.S.Form 7

VEY OF VILLAGE WATER SUPPLIES ...WEST SEPIK.....DISTRICT

ILLAGE ..WAUNUNGI.....
UNCIL ..Siau.....
NSUS DIVISION .....
-DISTRICT .Aitape.....
PULATION .....
ESS ....Road.....
.....
MAN/COUNCILLOR .....
.....
TER USE - Domestic/Government School
sion/Mission School/Hospital/First Aid/
k/Irrigation
JECTED DEVELOPMENT .....
.....
IMATED DEMAND .....

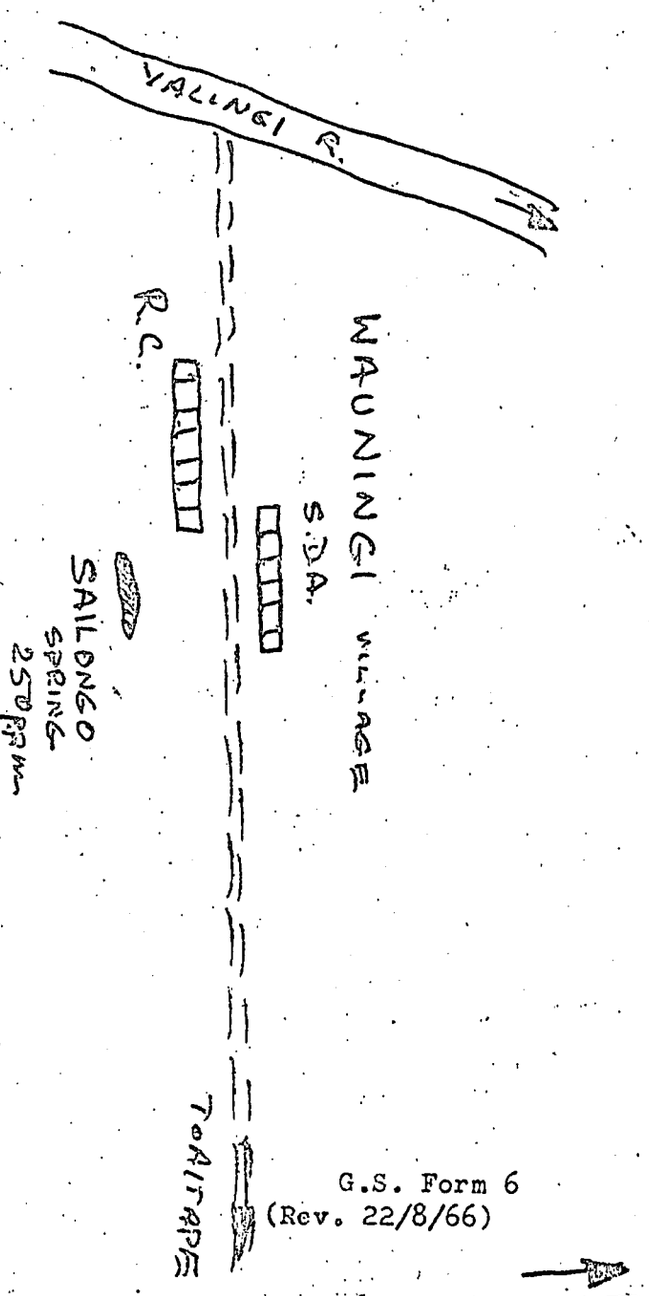
LOCATION MAP



PRESENT SUPPLY

NFALL ....100.....
SEASON From .Dec... to .April.
E ..Sailongo spring.....
TANCE FROM VILLAGE .50 feet.....
SPORT .....Track.....
D/RATE OF FLOW .....
LITY - Chemical ...250 ppm.....
Bactereological .....
ECTION .....Nil.....
RKS .....
.....
.....
.....
SEASON From .June.... to .Nov
....As above.....
TANCE FROM VILLAGE .....
SPORT .....
D/RATE OF FLOW .....
ITY .....Chemical .....
Bactereological .....
CTION .....
RKS .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

...LAGE ..WAUNINGI.....

RECOMMENDATIONS

...PE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

...CATION OF NEW SUPPLY ...10 feet north of Sailongo spring.....

.....

...STANCE FROM VILLAGE ...40 Feet.....

...CESS .....Track.....

...TE KNOWN TO...Here.....

...PE OF AQUIFER ...Sand & gravel.....

...TAILS OF SCHEME ...Standard sanitary well.....

.....

.....

.....

...TERIALS REQUIRED .....As per standard drawing.....

.....

...BOUR REQUIRED .....Local.....

...PERVISION .....Local.....

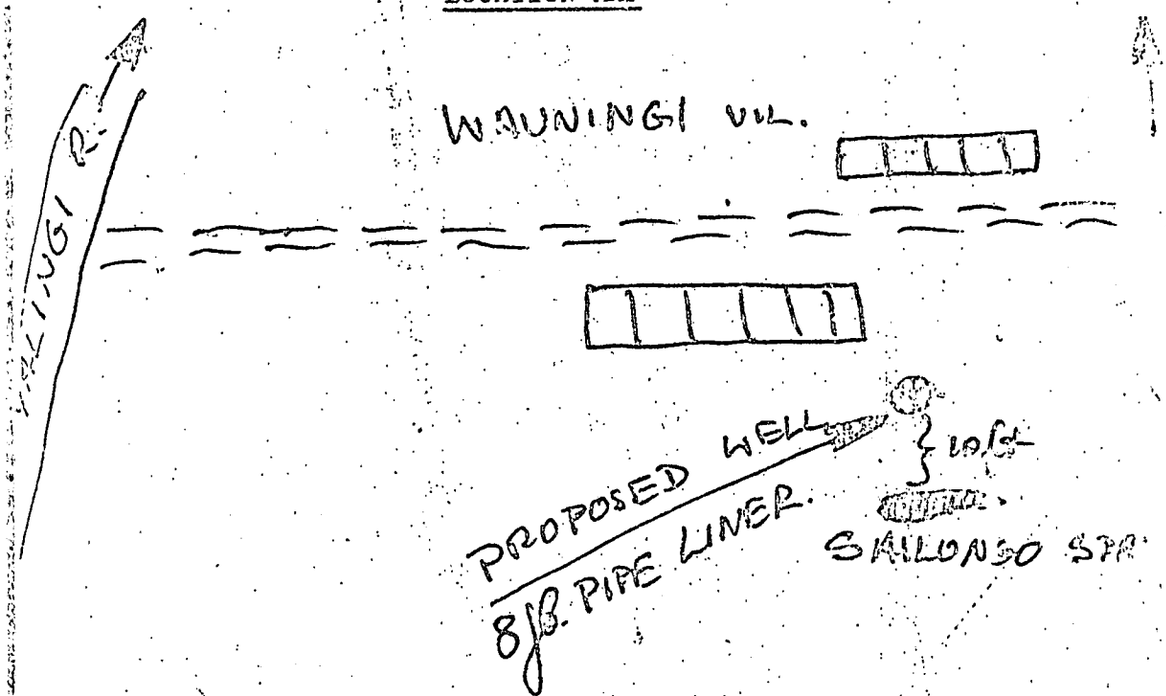
...TIMATED COST ($) .....100.....

...TERNATIVE SCHEME .....

.....

...IORITY ..Second..... Signed ..J.B.L. Read.... Date ..13/10/66

LOCATION MAP

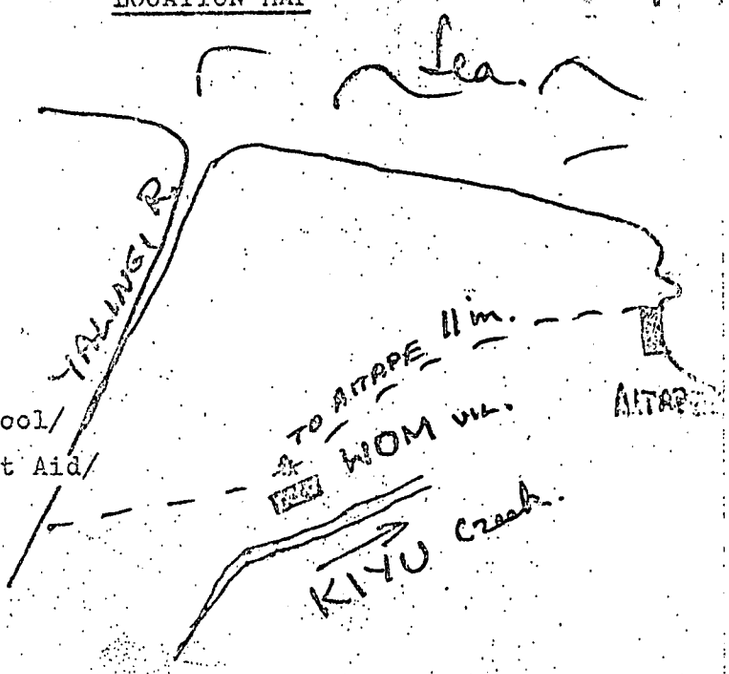


G.S.Form 7

RVEY OF VILLAGE WATER SUPPLIES .... WEST SEPIK ..... DISTRICT

ILLAGE .... WOM .....
OUNCIL ... Siau .....
ENSUS DIVISION .....
UB-DISTRICT ... Aitape .....
PULATION .....
CCESS .... Road .....
.....
N/COUNCILLOR .....
.....
TER USE - Domestic/Government School/
sion/Mission School/Hospital/First Aid/
ck/Irrigation
JECTED DEVELOPMENT .....
.....
IMATED DEMAND .....

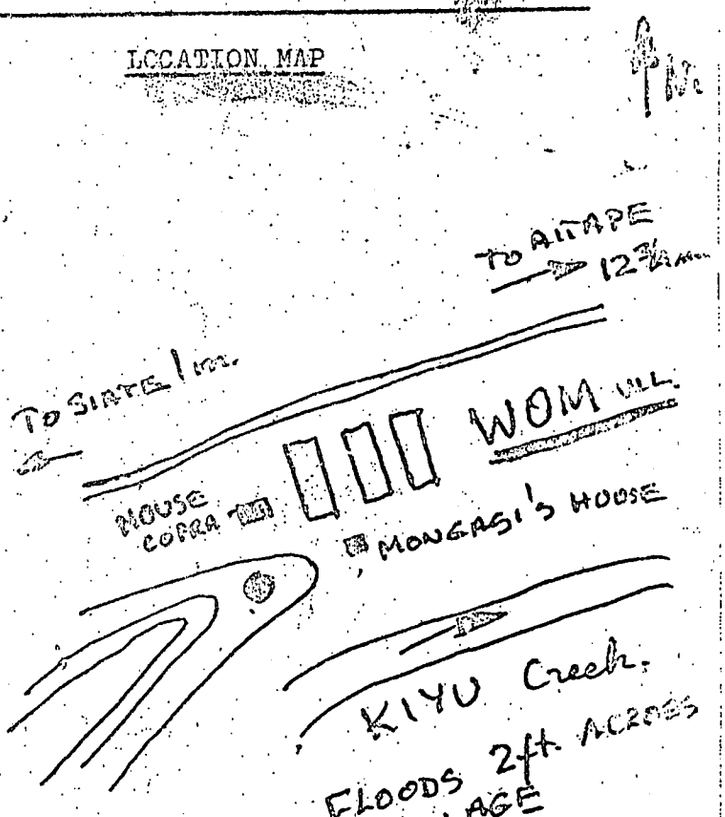
LOCATION MAP



PRESENT SUPPLY

INFALL 100 .....
T SEASON From .. Dec ... to . April .
PE ... Kiyu creek .....
STANCE FROM VILLAGE .. 250 feet ...
NSPORT .... Truck .....
ELD/RATE OF FLOW .....
ALITY - Chemical .....
Bactereological .....
OTECTION ... Nil .....
MARKS .....
.....
.....
.....
T SEASON From .. June ... to Nov ...
PE ..... As above .....
STANCE FROM VILLAGE .....
NSPORT .....
ELD/RATE OF FLOW .....
ALITY ..... Chemical .....
Bactereological .....
OTECTION .....
MARKS .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

..RVEY OF VILLAGE WATER SUPPLIES ...WEST SEPIK.....DISTRICT

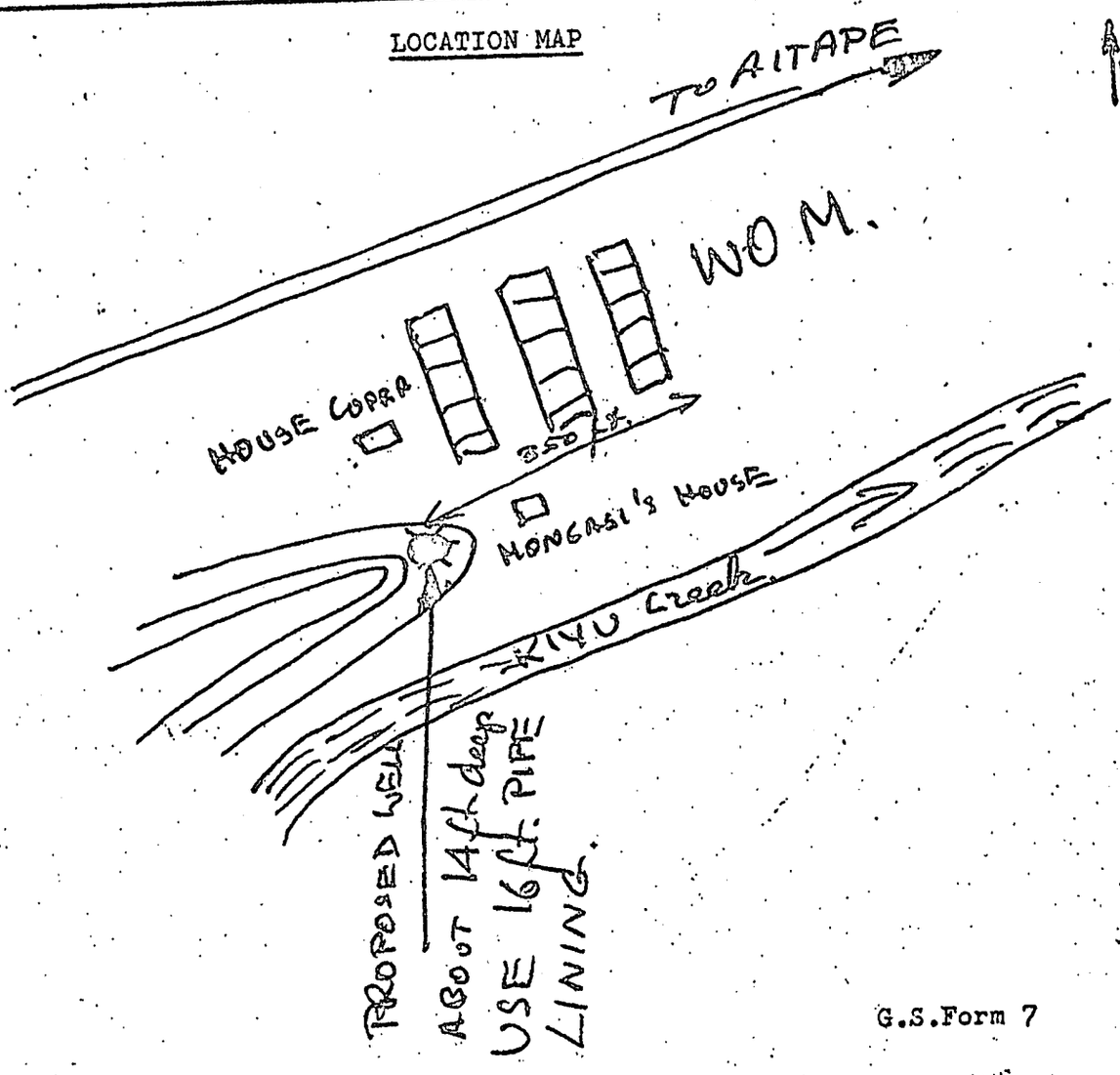
..ILLAGE ...Nil.....

RECOMMENDATIONS

..PE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

..CATION OF NEW SUPPLY ....Western end of village, equidistant.....
..between House. Copra. & house belonging to Mongasi.....
..STANCE FROM VILLAGE ..Central west.....
..CESS .....Track.....
..PE KNOWN TO...Sina.....
..PE OF AQUIFER ..Sand & gravel.....
..TAILS OF SCHEME ....Standard sanitary well.....
.....
.....
.....
..TERIALS REQUIRED .....As per standard drawing.....
.....
..ABOUR REQUIRED .....Local.....
..UPERVISION .....Local.....
..STIMATED COST ($) .....100.....
..LTERNATIVE SCHEME .....
.....
..RIORITY ....Second..... Signed ..J.R.L. Read.... Date 13/10/66

LOCATION MAP

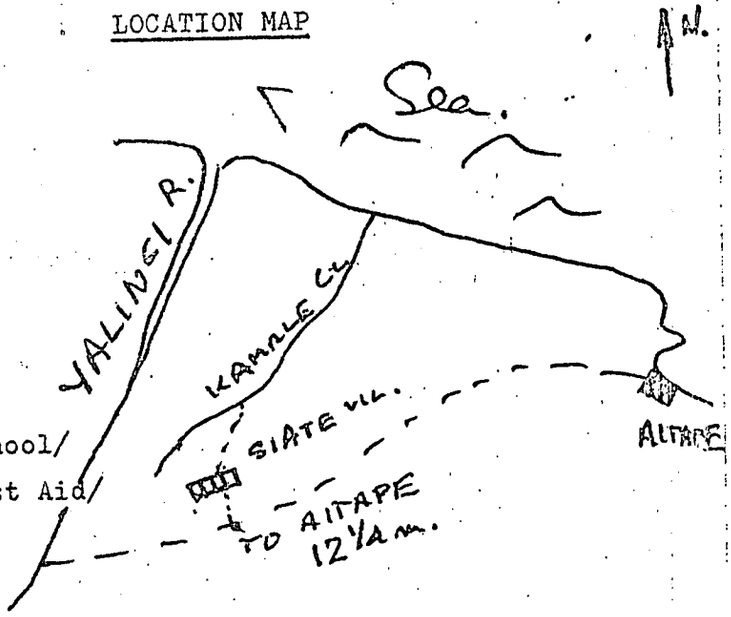


G.S.Form 7

SURVEY OF VILLAGE WATER SUPPLIES .WEST.SEPIK.....DISTRICT

VILLAGE .....SIATE.....
COUNCIL .....Siau.....
CENSUS DIVISION .....
SUB-DISTRICT ..Aitape.....
POPULATION .....
ACCESS .....Road.....
.....
CHAIRMAN/COUNCILLOR .....
.....
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

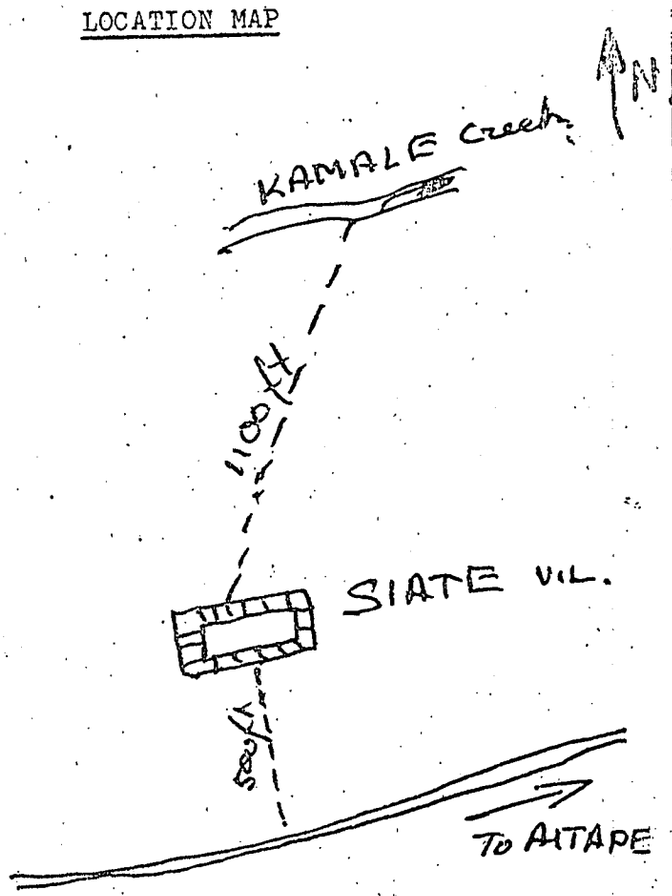
LOCATION MAP



PRESENT SUPPLY

RAINFALL ....100.....
DRY SEASON From ..Dec... to ..April
TYPE .....Kamale.creek.....
DISTANCE FROM VILLAGE ..1000 feet..
TRANSPORT ....Track.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION .....Nil.....
REMARKS .....
.....
.....
.....
WET SEASON From .June.... to Nov..
TYPE .....As.above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ....WEST.SEPIK.....DISTRICT

VILLAGE .....SIATE.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ..Central.north.of.village.....

.....

DISTANCE FROM VILLAGE ....Central.....

ACCESS .....Track.....

SITE KNOWN TO...Umem.....

TYPE OF AQUIFER ..Sand & gravel.....

DETAILS OF SCHEME ...Standard.sanitary.well.....

.....

.....

.....

MATERIALS REQUIRED .....As.per.standard.drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

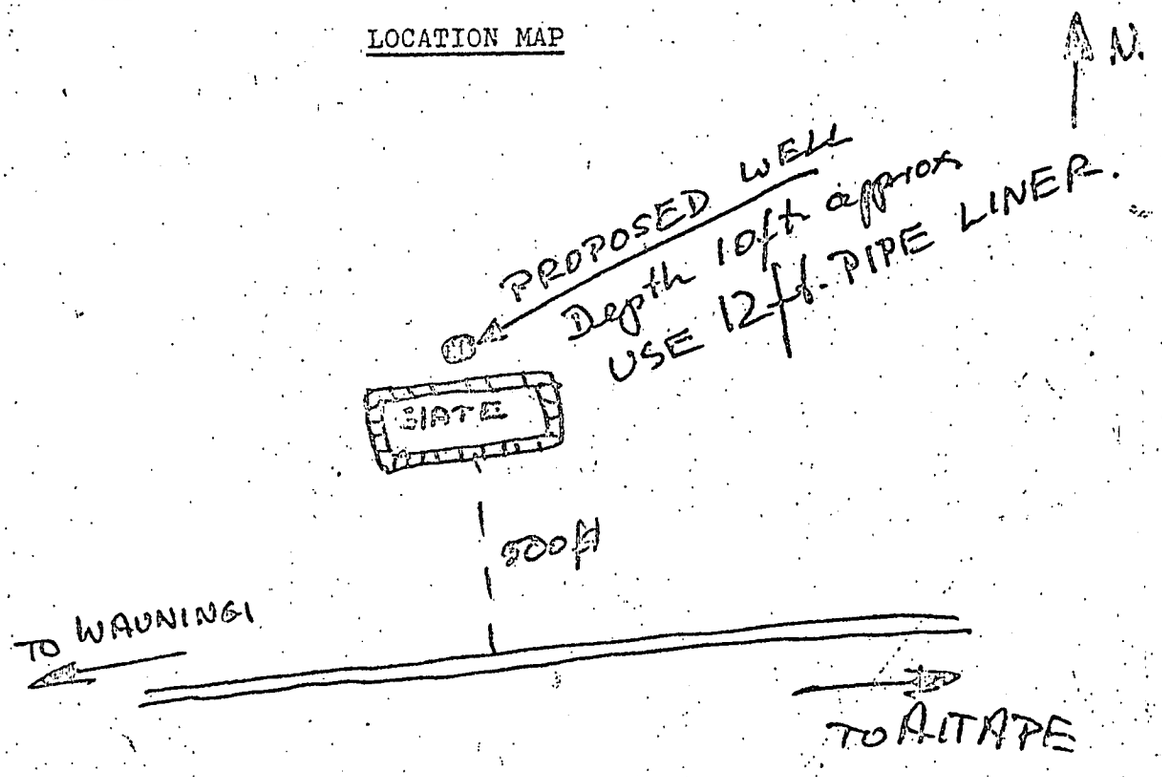
ESTIMATED COST ($) .....100.....

ALTERNATIVE SCHEME .....

.....

PRIORITY ....Second..... Signed ..J.R.L.Reed.... Date .13/10/66

LOCATION MAP

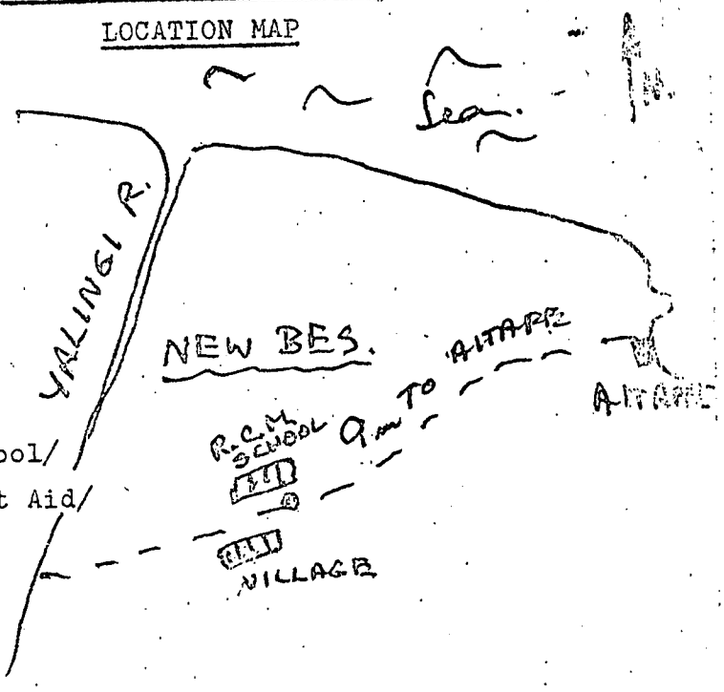


Note Two small houses distant about 80ft. from well site to be moved further away by 100ft.

G.S.Form 7

VILLAGE ..... NEW BES .....
COUNCIL ..... Siau .....
CENSUS DIVISION .....
SUB-DISTRICT .. Aitape .....
POPULATION .....
ACCESS ..... Road .....
.....
CHAIRMAN/COUNCILLOR .....
.....
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

RAINFALL ..... 100 .....
DRY SEASON From .Feb.... to ..April
TYPE ...Well.....
DISTANCE FROM VILLAGE ..Central....
TRANSPORT ..Track.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION ...Nil.....
REMARKS .....
.....
.....
.....
WET SEASON From .June.... to .Nov..
TYPE ...As above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ...WEST SEPIK.....DISTRICT

VILLAGE ....NEW.BES.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ....Existing well - village central.....

.....

DISTANCE FROM VILLAGE ....Central.....

ACCESS .....Track.....

SITE KNOWN TO.....

TYPE OF AQUIFER .....Sand & gravel.....

DETAILS OF SCHEME ...Develop existing well to standard sanitary well

.....

.....

.....

MATERIALS REQUIRED ..As per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) ....100.....

ALTERNATIVE SCHEME .....

.....

PRIORITY ....Second..... Signed .J.R.L. Read.... Date ..13/10/66

LOCATION MAP

N.

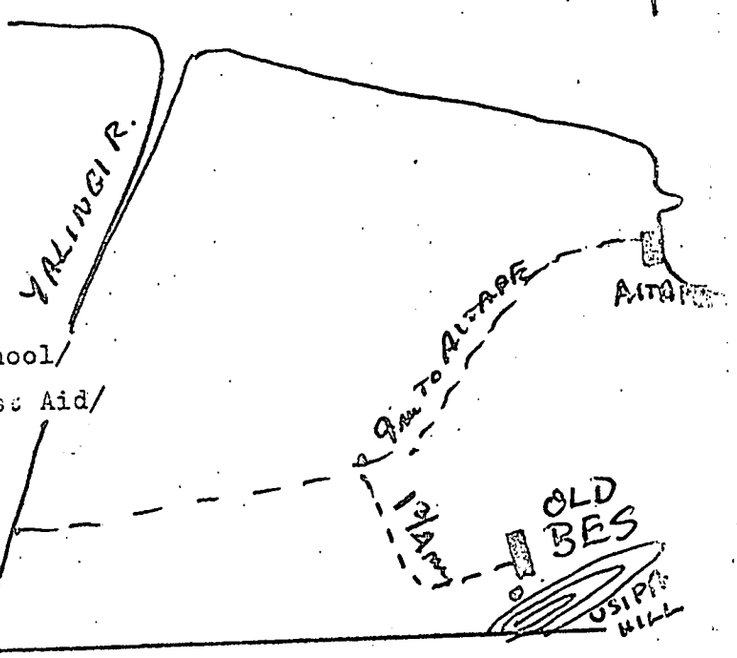
BRING EXISTING WELL TO A STANDARD ACCEPTABLE BY P.H.D.

G.S.Form 7

SY OF VILLAGE WATER SUPPLIES ... WEST SEPIK ..... DISTRICT

LAGE ... OLD BES .....
CIL ... Siau .....
SUS DIVISION .....
DISTRICT .. Aitape .....
LATION .....
SS ... Road .....
.....
MAN/COUNCILLOR .....
.....
ER USE - Domestic/Government School/
ion/Mission School/Hospital/First Aid/
k/Irrigation
ECTED DEVELOPMENT .....
.....
MATED DEMAND .....

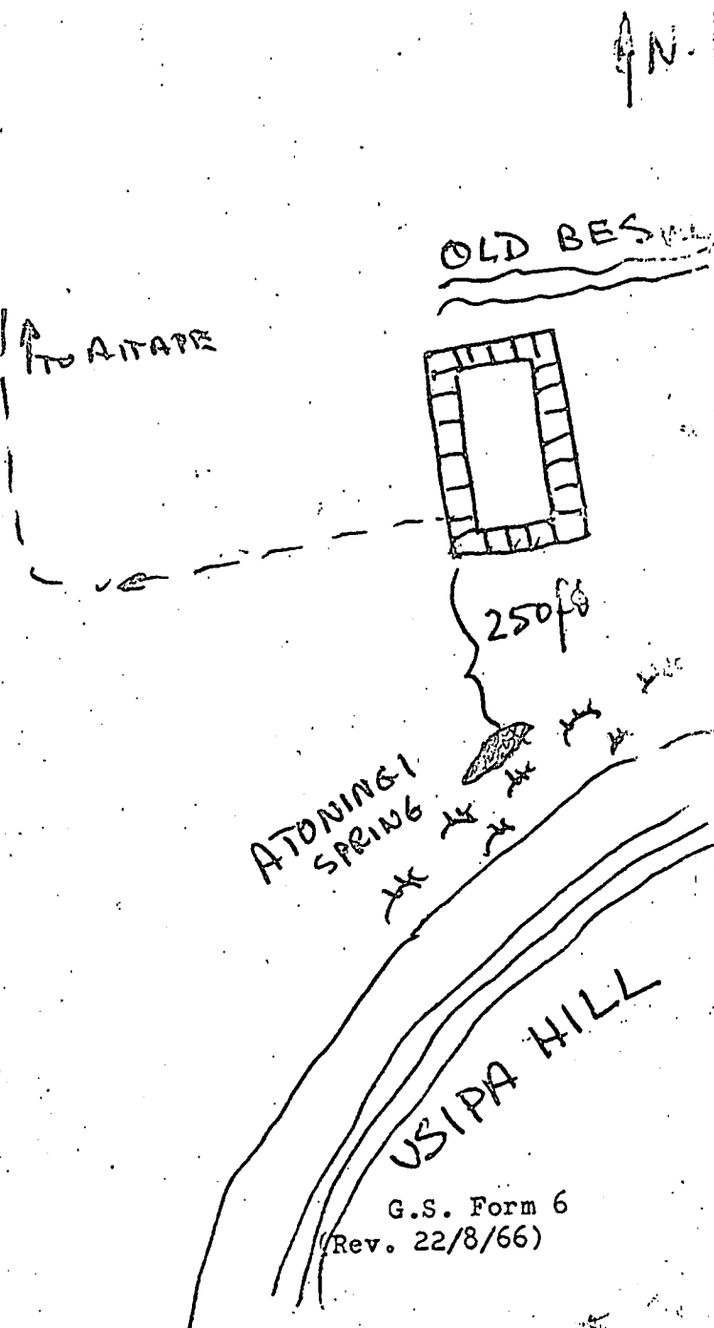
LOCATION MAP



PRESENT SUPPLY

NFALL .....100.....
SEASON From ..Dec.... to ..April
E ..Atoningi spring.....
ANCE FROM VILLAGE ...250 feet...
NSPORT ....Track.....
LD/RATE OF FLOW .....
LITY - Chemical .....
Bactereological .....
ECTION ....Nil.....
ARKS .....
.....
.....
.....
SEASON From ..June.... to ..Nov
E .....As above.....
ANCE FROM VILLAGE .....
NSPORT .....
LD/RATE OF FLOW .....
LITY .....Chemical .....
Bactereological .....
TECTION .....
MARKS .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ....WEST SEPIK.....DISTRICT

VILLAGE ...OLD BES.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY .Village.central.....

.....

DISTANCE FROM VILLAGE ...Central.....

ACCESS .....Track.....

SITE KNOWN TO.....Aimo & Kamela.....

TYPE OF AQUIFER ..Sand & gravel.....

DETAILS OF SCHEME ..Standard. sanitary.well.....

.....

.....

.....

MATERIALS REQUIRED .....As. per. standard.drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

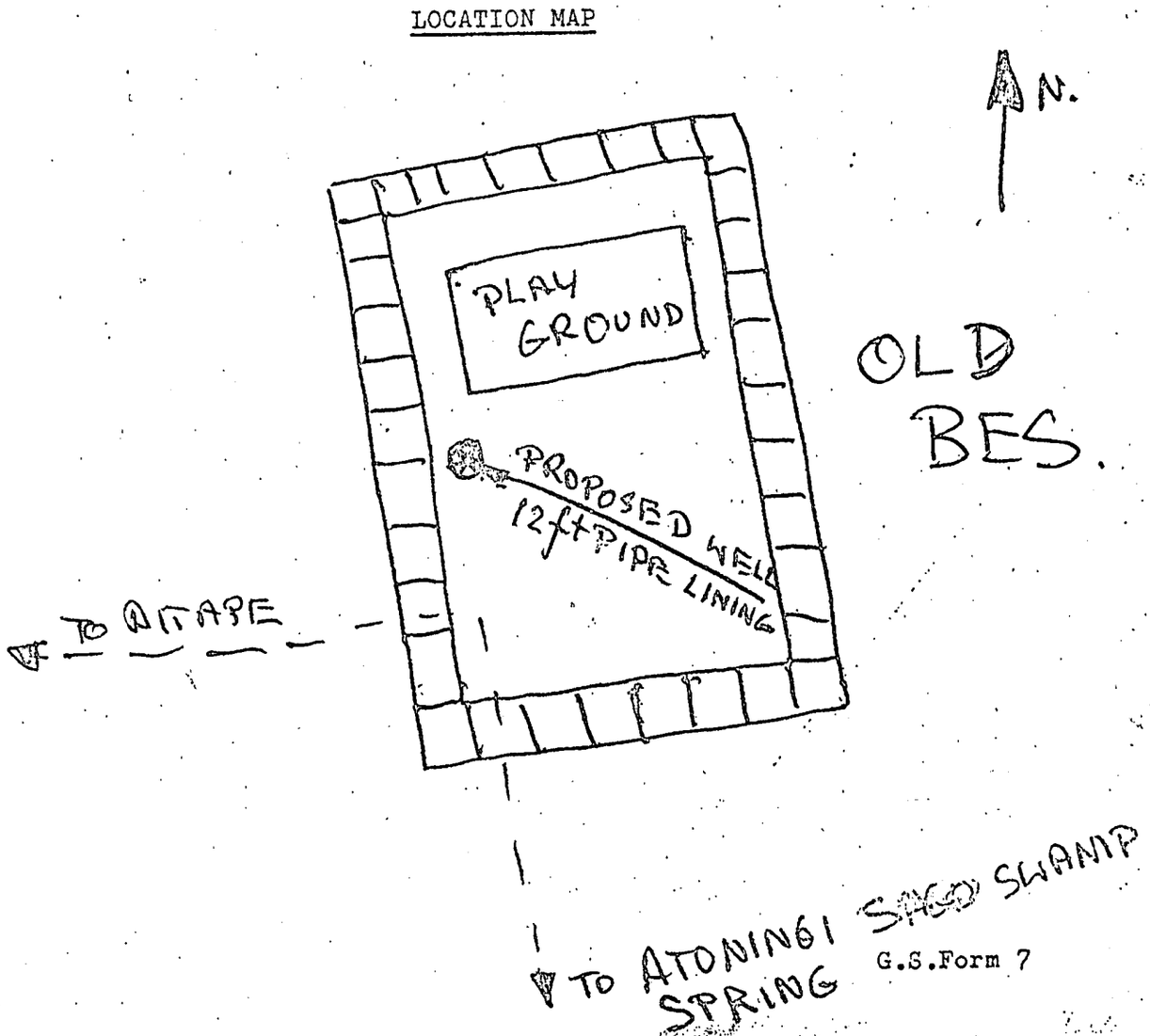
ESTIMATED COST ($) .....100.....

ALTERNATIVE SCHEME .....

.....

PRIORITY ...Second..... Signed ...J.R.L. Read... Date 13/10/66

LOCATION MAP

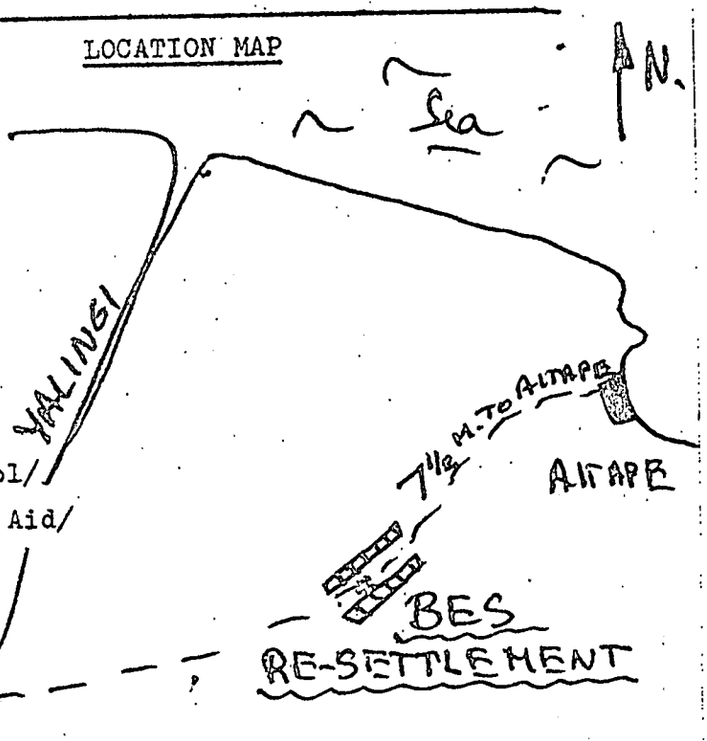


G.S.Form 7

SURVEY OF VILLAGE WATER SUPPLIES ...WEST SEPIK.....DISTRICT

VILLAGE ..BES RESETTLEMENT.....
COUNCIL ...Siau.....
CENSUS DIVISION .....
SUB-DISTRICT ..Aitape.....
POPULATION .....
ACCESS ...Road.....
.....
~~HEADMAN~~/COUNCILLOR .....
.....
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

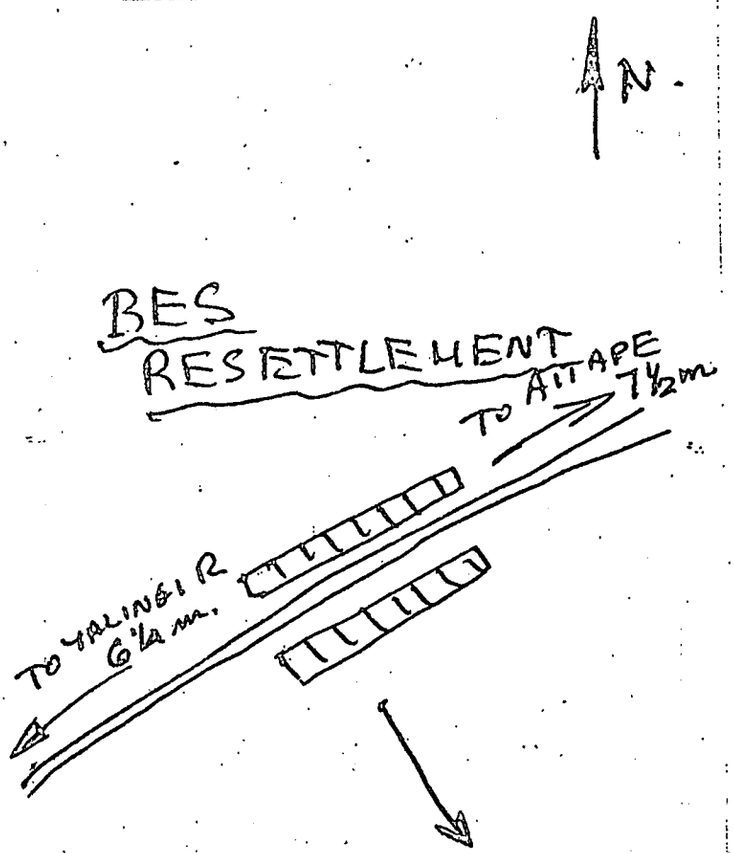
LOCATION MAP



PRESENT SUPPLY

RAINFALL .....100.....
WET SEASON From ...Dec... to .April
TYPE ..Rainwater & shallow well....
DISTANCE FROM VILLAGE ..1 mile.....
TRANSPORT .....Truck.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION ....Nil.....
REMARKS .....
.....
.....
.....
DRY SEASON From ..June.. to ..Nov.
TYPE .....As above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP



G.S. Form 6

SURVEY OF VILLAGE WATER SUPPLIES ..WEST SEPIK.....DISTRICT

VILLAGE .. BES RESETTLEMENT.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ..Northwest margin of village.....

DISTANCE FROM VILLAGE ....50 feet.....

ACCESS .....Track.....

SITE KNOWN TO.....

TYPE OF AQUIFER ...Sand & gravel.....

DETAILS OF SCHEME ...Standard sanitary well .. Second well to be added when required.....

MATERIALS REQUIRED ....As per standard drawing.....

LABOUR REQUIRED .....Local.....

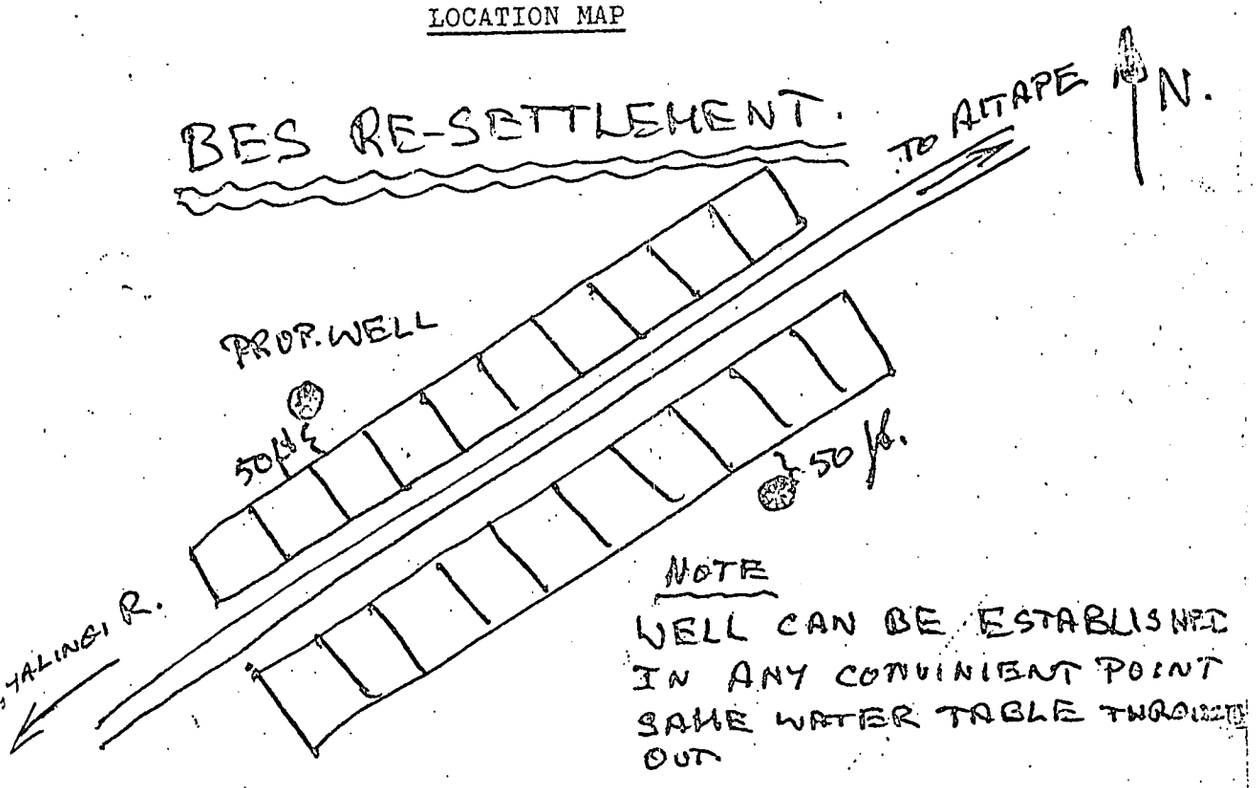
SUPERVISION .....Local.....

ESTIMATED COST ($) .....200.....

ALTERNATIVE SCHEME .....

PRIORITY ..~~Second~~ First.... Signed ..J.B.L. Read.... Date .13/10/66

LOCATION MAP



WATER TABEL ABOUT 5 ft.
DEPTH OF WELLS' 10 ft to 14 ft. EASY EXCAVATION.
RECOMMENDED PIPE LINING FOR EACH WELL 16 ft.

G.S.Form 7

WATER TEST 300 p.p.m.

MAKRU KLAPLEI)
)
)
CENSUS DIVISION) LUMI SUB DISTRICT
)
)
WAPEI COUNCIL)

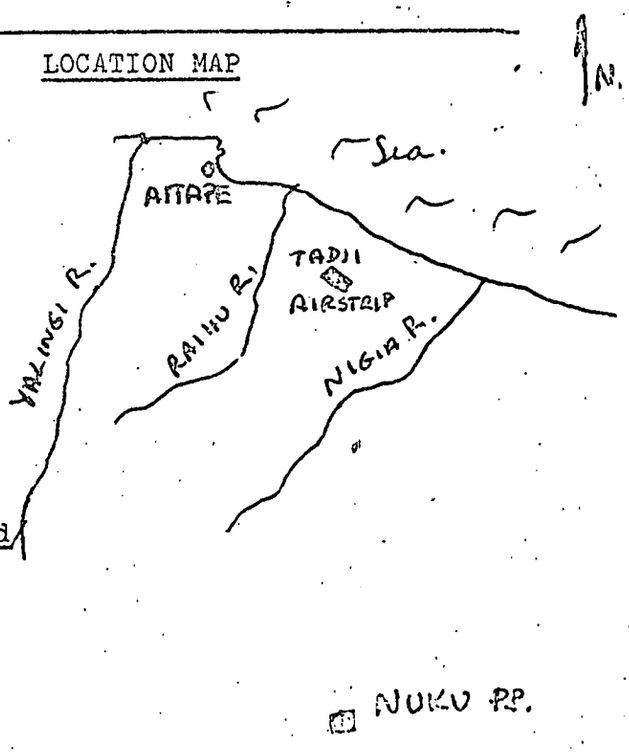
SUMMARY OF SURVEY OF VILLAGE WATER SUPPLY - MAKRU KLAPLEI CENSUS DIVISION AND WAPEI COUNCIL

VILLAGE	POPULATION	TYPE OF SCHEME	NO. OF PIPES	ESTIMATED COST $	PRIORITY	REMARKS
Nuku Station (47)	150					No Recommendation
Nuku Hamlets (48)	305	Catchment		1000	Second	Nylex catchment and fibre-glass tanks.
Mantsuku Hamlets (49)	380	Catchment		1000	Second	Nylex catchment and fibre-glass tanks.
Lumi Station (50)	300					No Recommendation
Lumi Village (51)	124	Well	2	100	Second	Natural spring. 300 yards from village.
Maui (52)	197	Catchment		500	Second	Nylex catchment and fibre-glass tank
Wabuf (53)	131	Catchment		300	Second	Nylex catchment and fibre-glass tank
Talote (54)	150	Well	4	140	Second	River gravel and alluvium Behind village.
Sarboite (55)	123	Catchment		500	Second	Nylex catchment and fibre-glass tank

SURVEY OF VILLAGE WATER SUPPLIES ...WEST SEPIK.....DISTRICT

VILLAGE ..NUKU STATION.....
COUNCIL ...Nil.....
CENSUS DIVISION ..Makru Klaplei..
SUB-DISTRICT ..Lumi.....
POPULATION ....150.....
ACCESS .....Aircraft.....
.....
HEADMAN/COUNCILLOR .....
.....
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid
Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

RAINFALL .....ac...85.....
WET SEASON From ..Dec... to ..June..
TYPE .Rainwater & shallow wells....
DISTANCE FROM VILLAGE ..Central....
TRANSPORT ...Road & track.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION ..Wells - nil.....
REMARKS .....
.....
.....
.....
DRY SEASON From .July.... to ..Nov.
TYPE .... As above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP

Film 4, photo 35

G.S. Form 6
(Rev. 22/8/66)

...GE WATER SUPPLIES ..WEST SEPIK.....DISTRICT

(4 HAMLETS).....

:.....

...Makru.Klaplei..

...Lumi.....

....095.....

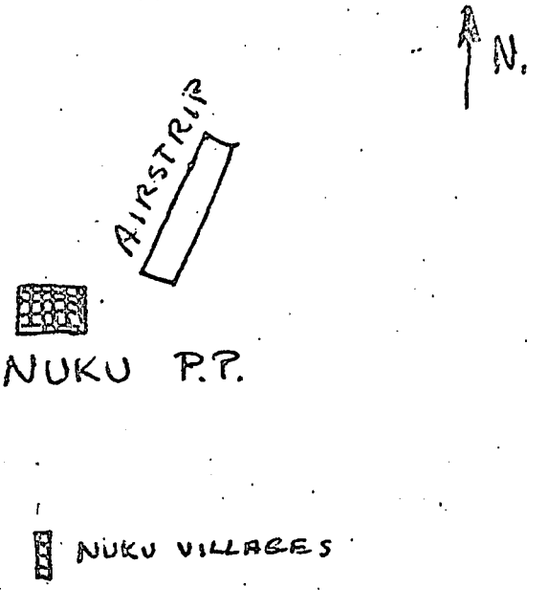
:.....

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.....

.....

LOCATION MAP



...ntic/Government School/
...School/Hospital/Fire, Aid/

...HT .....

.....

.....

...SUPPLY

.....

..Dec... to ..June.

...l streams.....

...LAGE ..10 - 15 mins

.....

.....

.....

...logical .....

.....

...streams 2-300 ft.

...side of ridge...

.....

.....

...July... to .Nov..

.....

...LAGE .....

.....

.....

....Chemical .....

...eological .....

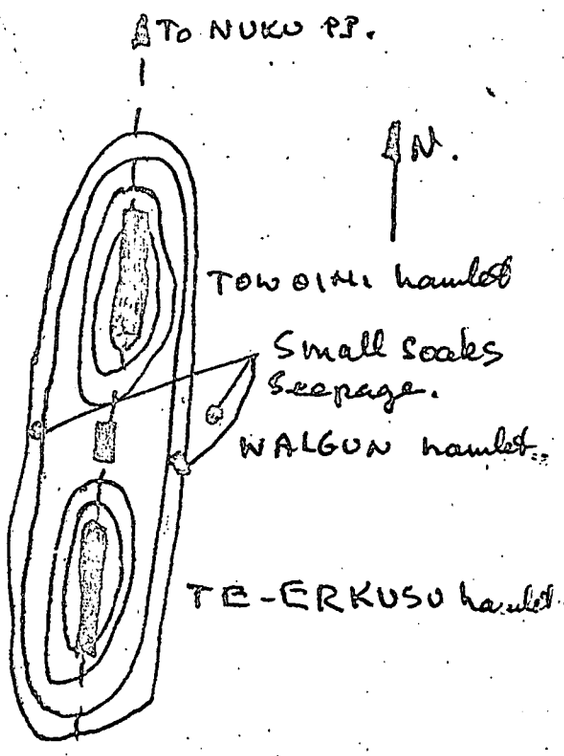
.....

.....

.....

.....

LOCATION MAP



NUKU villages.

SURVEY OF VILLAGE WATER SUPPLIES ..WEST.SEPIK.....DISTRICT

VILLAGE UNKY..(HEALERS)..... RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ..Ridge slopes at Towoini & To-Erkusu hamlets.....

.....

DISTANCE FROM VILLAGE ..Central.....

ACCESS .....Track.....

SITE KNOWN TO...Sabbem (D.D.A.), Smith (P.H.D.).....

TYPE OF AQUIFER ...Nil.....

DETAILS OF SCHEME ..2 areas of rainwater catchment.....

.....

.....

.....

MATERIALS REQUIRED ..2 Nyle x catchments & 2 2nd gal. fibreglass..

.....storage tanks.....

LABOUR REQUIRED ....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) ..1000.....

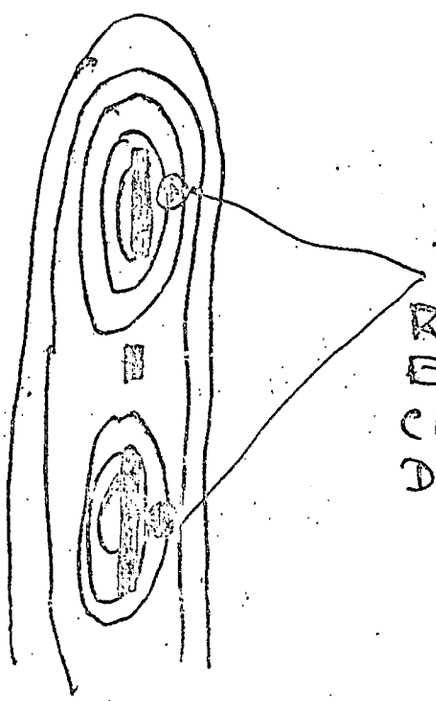
ALTERNATIVE SCHEME .....

.....

PRIORITY ...Second..... Signed ...J.R.L. Read... Date ..14/10/66

LOCATION MAP

Film 5, photos 1 & 3.

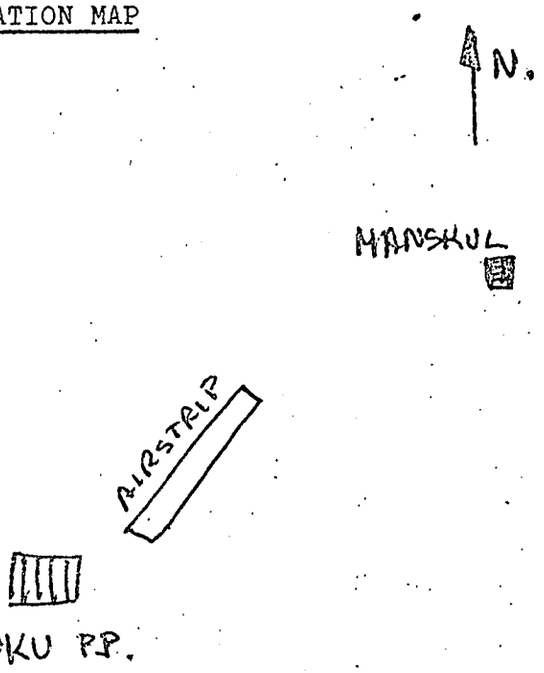


G.S.Form 7

...VEY OF VILLAGE WATER SUPPLIES ..WEST SEPIK.....DISTRICT

...LLAGE ..MANTSUKU..(4.HAMLETS)...
...NCIL ..~~Makrocklaplei~~..Nil.....
...NSUS DIVISION .Makru.Klaplei...
...oDISTRICT ..Lumi.....
...PULATION ..380.....
...OSS .Road & track.....
.....
...EADMAN/~~COUNCILLOR~~ ..Tomasambo...
.....
...TER USE - Domestic/Government School/
...ssion/Mission School/Hospital/First Aid/
...ck/Irrigation
...JECTED DEVELOPMENT .....
.....
...IMATED DEMAND .....

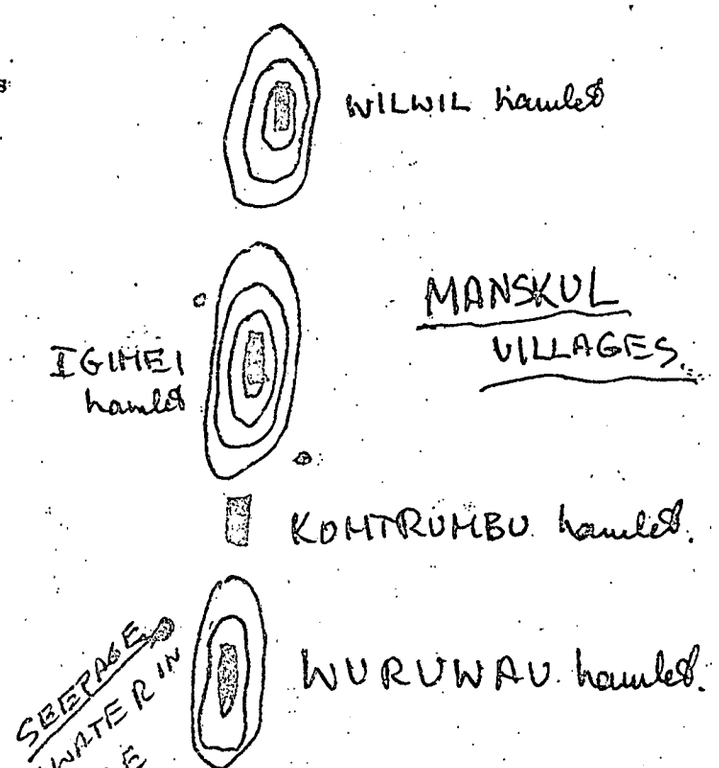
LOCATION MAP



PRESENT SUPPLY

...NFALL .....85.....
...SEASON From ..Dec... to ....June
...E ...Soak.....
...TANCE FROM VILLAGE ..10.-.15.mins
...NSPORT ....Track.....
...LD/RATE OF FLOW .....
...LITY - Chemical .....
Bactereological .....
...ECTION ....Nil.....
...ARKS .Soaks.2-300feet.below.....
village.on.side.of.ridge.....
.....
.....
...SEASON From ..July... to ..Nov.
...E ....As.above.....
...TANCE FROM VILLAGE .....
...NSPORT .....
...LD/RATE OF FLOW .....
...LITY .....Chemical .....
Bactereological .....
...TECTION .....
...ARKS .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ..WEST SEPIK.....DISTRICT

VILLAGE ..MANTSUKU (4 HAMLETS). RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY .Ridge slopes at Igimoi & Wuruwau hamlets....

.....

DISTANCE FROM VILLAGE ..Central.....

ACCESS ....Track.....

SITE KNOWN TO..Sabbem (D.D.A.), Smith (PHD).....

TYPE OF AQUIFER .....

DETAILS OF SCHEME ..2 areas of rainwater catchment.....

.....

.....

.....

MATERIALS REQUIRED . 2 Nylex catchments & 2, 2000 gal. fibreglass...

.....storage tanks.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) ....4000.....

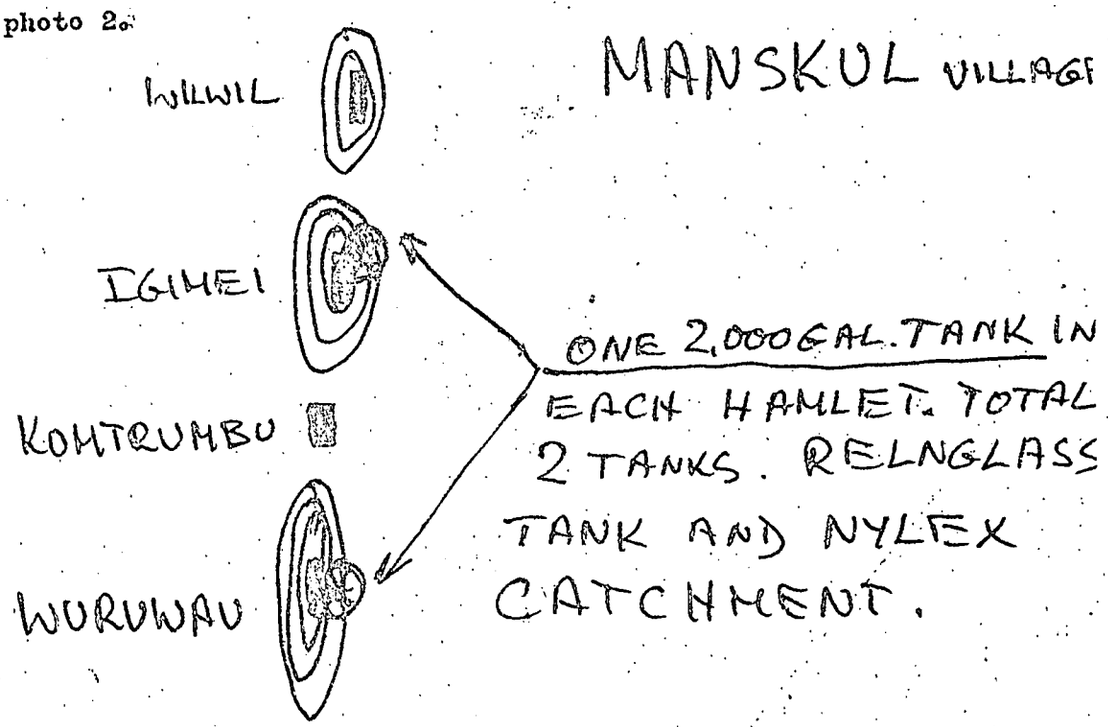
ALTERNATIVE SCHEME .....

.....

PRIORITY ..Second..... Signed ..J.R.L. Read.... Date ..14/10/66

LOCATION MAP

Film 5, photo 2.

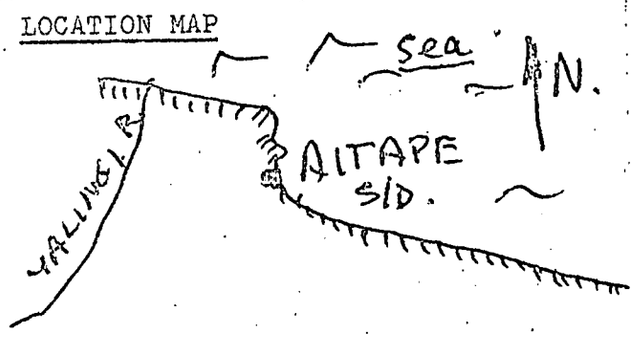


G.S.Form 7

RVEY OF VILLAGE WATER SUPPLIES ... WEST. SEPIK .....DISTRICT

LLAGE ...LUMI STATION.....
UNCIL .....
NSUS DIVISION ..Lumi Local.....
STRICT ....Lumi.....
PULATION .....300.....
CESS ....Aicraft.....
.....
DMAN/COUNCILLOR .....
.....
ER USE - Domestic/Government School/
ion/Mission School/Hospital/First Aid/
k/Irrigation
JECTED DEVELOPMENT .....
.....
TIMATED DEMAND .....

LOCATION MAP



LUMI S/D.

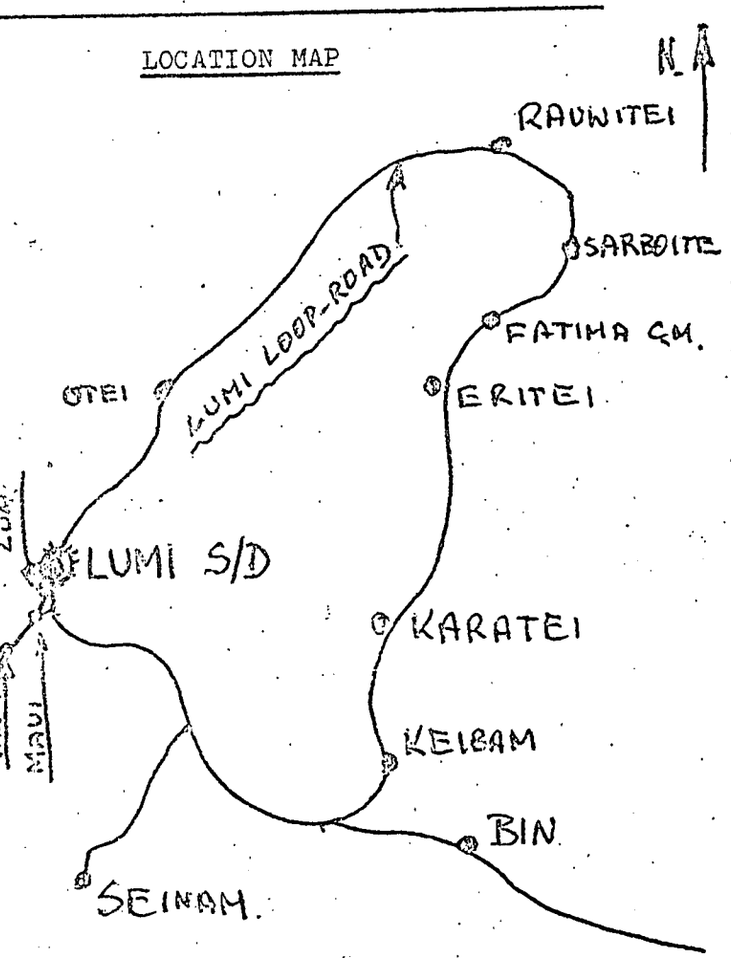
NUKU R.P.

PRESENT SUPPLY

INFALL .....103.....
SEASON From .Oct.... to .April.
PE .Rainwater catchment.....
STANCE FROM VILLAGE .....
NSPORT Road & track.....
LD/RATE OF FLOW .....
LITY - Chemical .....
Bactereological .....
OTECTION .....
MARKS .....
.....
.....
.....
SEASON From .May..... to Sept.
PE .....As above.....
STANCE FROM VILLAGE .....
NSPORT .....
LD/RATE OF FLOW .....
LITY .....Chemical .....
Bactereological .....
OTECTION .....
MARKS .Water supply adequate.....
except in periods of extreme dry.
.....

lm 5, photo 4

LOCATION MAP

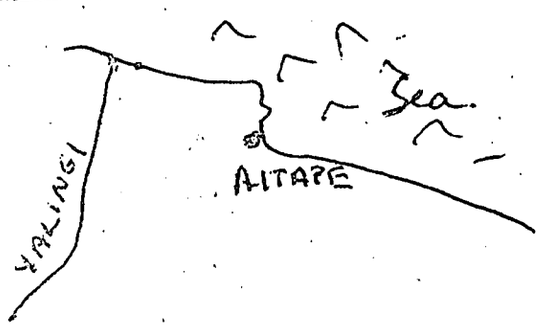


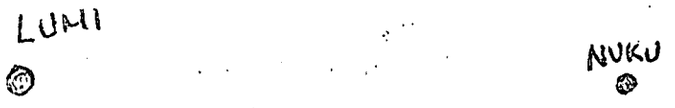
G.S. Form 6
(Rev. 22/8/66)

VEY OF VILLAGE WATER SUPPLIES ...WEST SEPIK.....DISTRICT

LLAGE ..LUMI.....
NCIL ..Wapei.....
NSUS DIVISION ...Lumi Local....
DISTRICT ....Lumi.....
PULATION ...124.....
CESS .....Track.....
.....
~~ASSEMBLY~~/COUNCILLOR :Telfi.....
.....
ER USE - Domestic/Government School/
ion/Mission School/Hospital/First Aid/
k/Irrigation
JECTED DEVELOPMENT .....
.....
IMATED DEMAND .....

LOCATION MAP

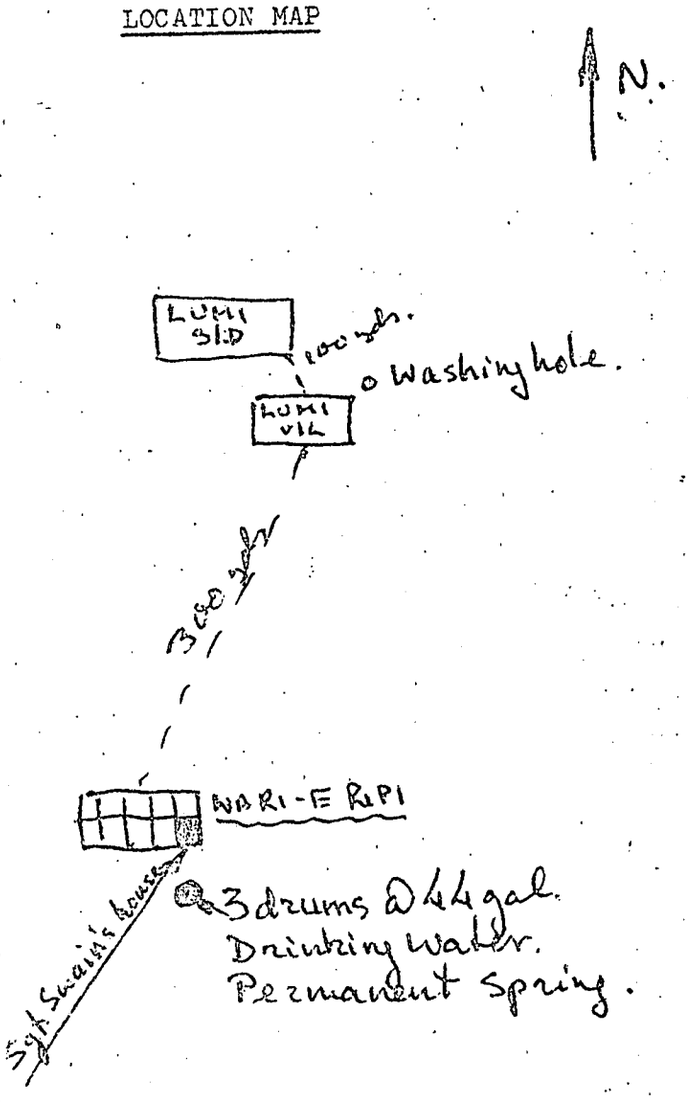




PRESENT SUPPLY

NFALL .....103.....
SEASON From .Oct... to .April.
E ..Soak & natural spring.....
TANCE FROM VILLAGE ..300.yds....
NSPORT ....Track.....
LD/RATE OF FLOW .....
LITY - Chemical .....
Bactereological .....
TECTION ...Nil.....
ARKS .Soak used for washing.....
..water only.....
.....
.....
SEASON From .May..... to ..Sept
E ....As above.....
TANCE FROM VILLAGE .....
NSPORT .....
LD/RATE OF FLOW .....
LITY .....Chemical .....
Bactereological .....
TECTION .....
ARKS .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

VEY OF VILLAGE WATER SUPPLIES ..WEST. SEPIK.....DISTRICT

LLAGE .....LUMI.....

RECOMMENDATIONS

PE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

CATION OF NEW SUPPLY ..Present supply close to Sgt. Swain's house..

.....

STANCE FROM VILLAGE ....300 yds.....

SS ....Track.....

E KNOWN TO....Telfi.....

PE OF AQUIFER ..Spring in natural watercourse.....

TAILS OF SCHEME ..Develop existing supply into a standard .....

sanitary well using fibreglass pipes.....

.....

.....

TERIALS REQUIRED ..As per standard drawing.....

.....

BOUR REQUIRED .....Local.....

PERVISION .....Local.....

IMATED COST ($) .....100.....

TERNATIVE SCHEME .....

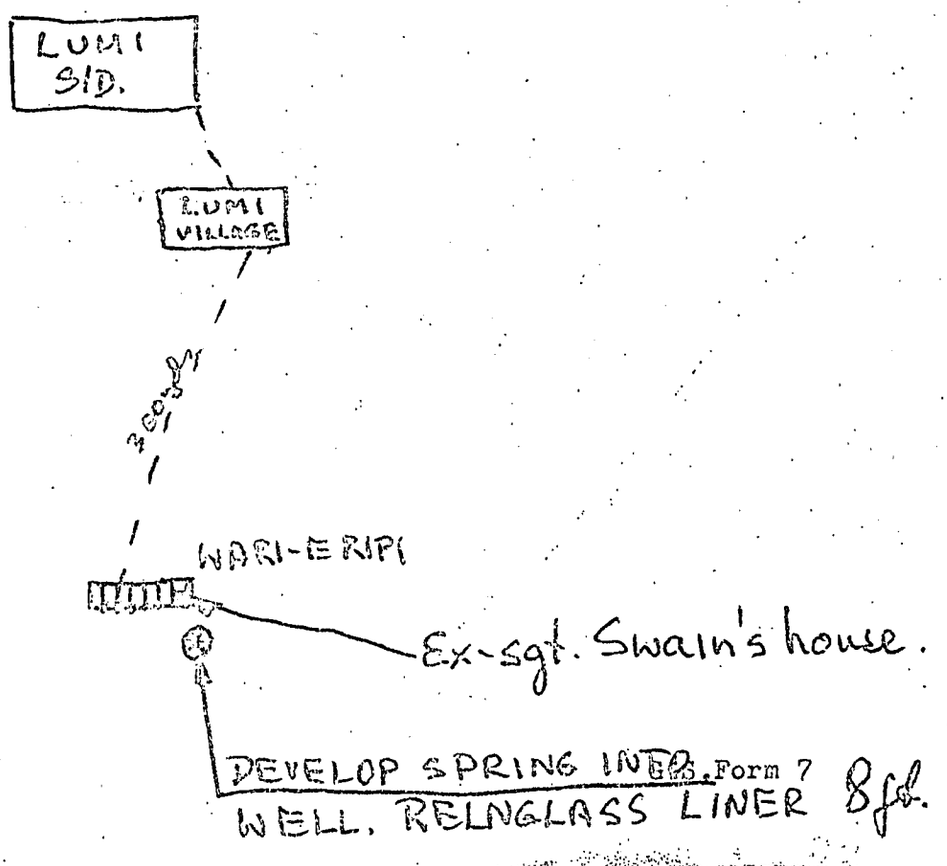
.....

RIORITY ...Second..... Signed .J.R.L. Read..... Date 15/10/66

LOCATION MAP

N.

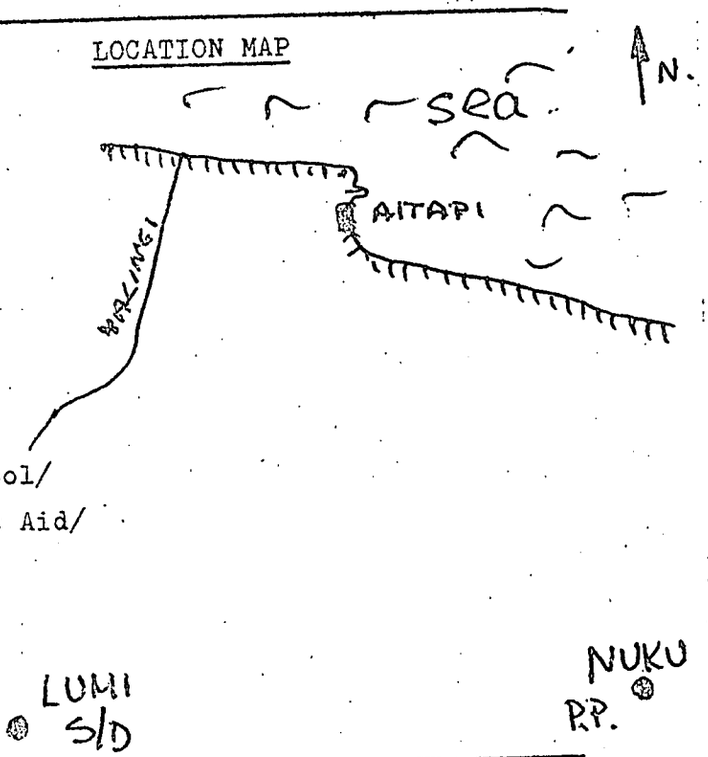
Film 5, photos 5,6 & 7.



RVEY OF VILLAGE WATER SUPPLIES ....WEST SEPIK.....DISTRICT

LLAGE ....MAUI.....
UNCIL ....Wapei.....
NSUS DIVISION ...Lumi Local....
DISTRICT .....Lumi.....
PULATION ....197.....
CESS ...Track.....
.....
RMAN/COUNCILLOR ..Ofi.....
.....
TER USE - Domestic/Government School/
sion/Mission School/Hospital/First Aid/
ock/Irrigation
JECTED DEVELOPMENT .....
.....
IMATED DEMAND .....

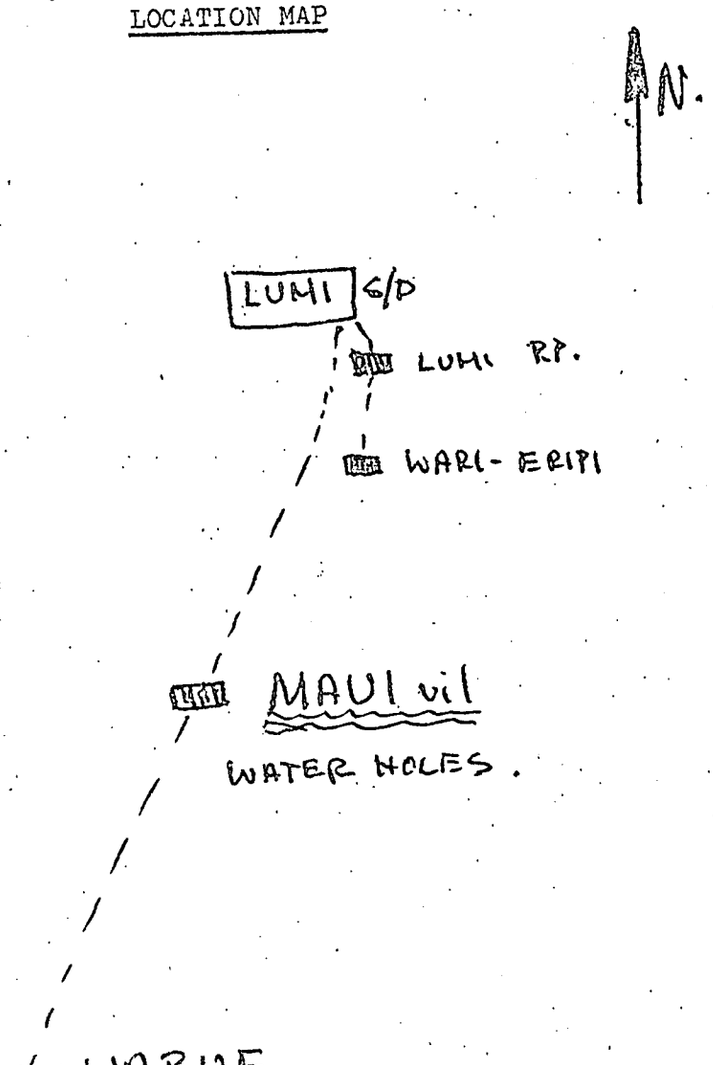
LOCATION MAP



PRESENT SUPPLY

INFALL ....103.....
SEASON From ..Oct... to .April.
PE ...Soak.....
STANCE FROM VILLAGE ...10.min....
NSPORT .....Track.....
ELD/RATE OF FLOW .....
ALITY - Chemical .....
Bactereological .....
OTECTION ...Nil.....
MARKS ..Soaks 2 00 feet below....
.illage on side of ridge.....
.....
.....
T SEASON From ..May... to .Sept.
PE .....As above.....
STANCE FROM VILLAGE .....
ANSPORT .....
ELD/RATE OF FLOW .....
ALITY .....Chemical .....
Bactereological .....
OTECTION .....
MARKS ....Soaks dry up completely
in dry season.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ....WEST SEPIK.....DISTRICT

VILLAGE ...MAUL.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ..Ridge slopes immediately below centre.....
.....of village.....

DISTANCE FROM VILLAGE ..Central.....

ACCESS .....Track.....

SITE KNOWN TO..Ofi.....

TYPE OF AQUIFER .....

DETAILS OF SCHEME ..Rainwater catchment.....
.....
.....
.....

MATERIALS REQUIRED ..1 Nylex catchment & 1, 2000 gal. fibreglass....
.....storage tank.....

LABOUR REQUIRED ....Local.....

SUPERVISION .....Local.....

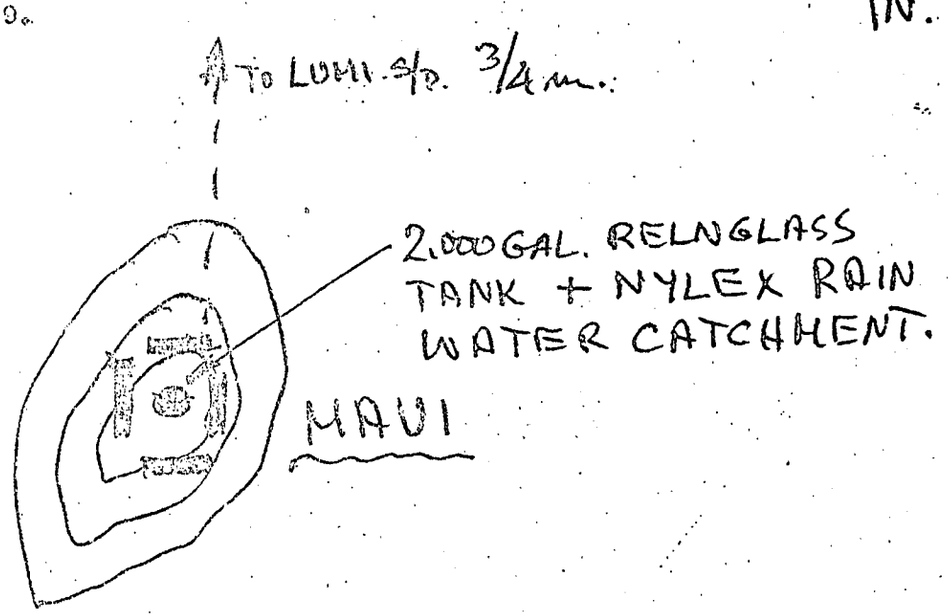
ESTIMATED COST ($) ..500.....

ALTERNATIVE SCHEME .....
.....

PRIORITY .....Second..... Signed .....J.R.L. Read.... Date ..15/10/66

LOCATION MAP

Film 5, photos 3 & 9.

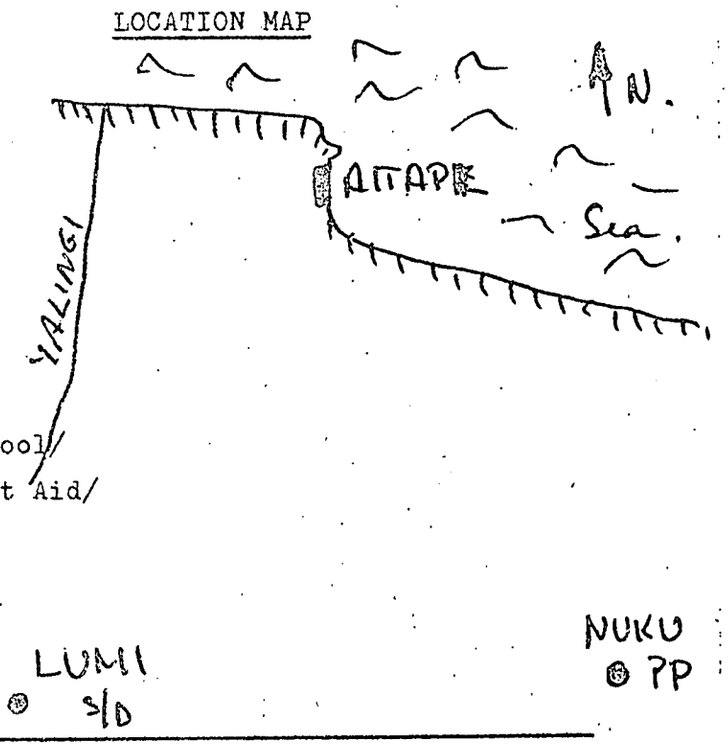


G.S.Form 7

SURVEY OF VILLAGE WATER SUPPLIES ....WSET.SEPIK.....DISTRICT

VILLAGE ....WABUF.....
COUNCIL ..Wapei.....
CENSUS DIVISION ..Lumi Local.....
SUB-DISTRICT .....Lumi.....
POPULATION .....131.....
ACCESS ...Road & track.....
.....
[redacted]/COUNCILLOR ..Oui-Ai.....
.....
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

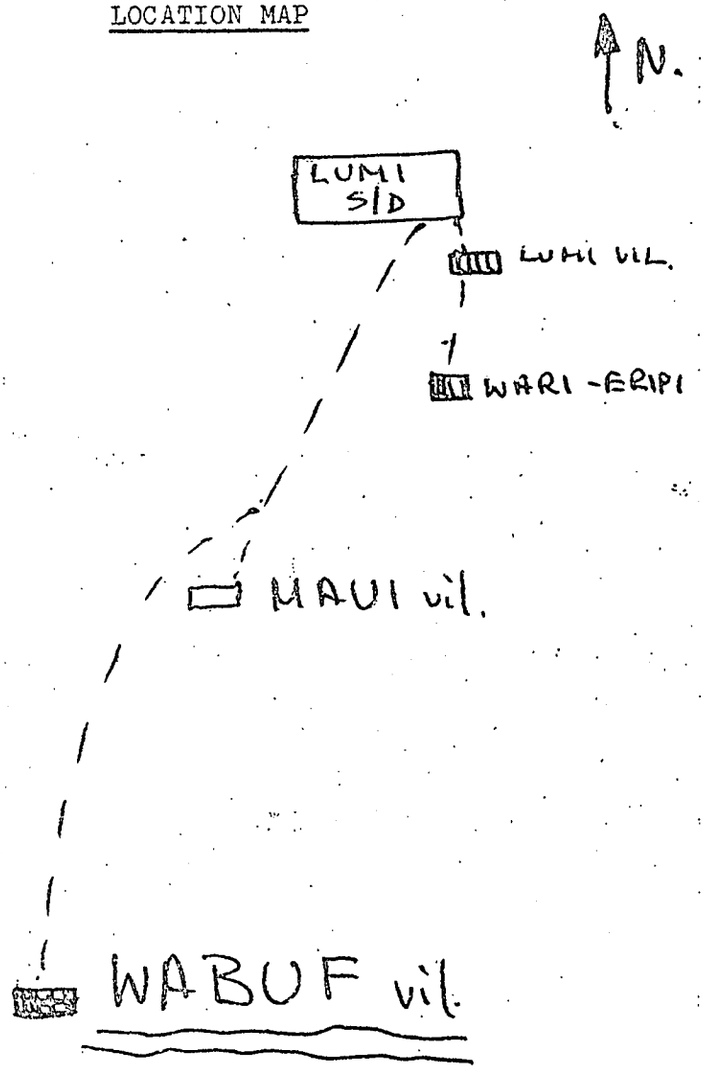
LOCATION MAP



PRESENT SUPPLY

RAINFALL ....103.....
WET SEASON From ..Oct... to ..April
TYPE ...Soak.....
DISTANCE FROM VILLAGE ..10 min.....
TRANSPORT .Track.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION ....Nil.....
REMARKS .Soaks 2-300 feet below....
...village on side of ridge.....
.....
.....
DRY SEASON From May..... to ..Sept
TYPE ...As above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS ..Soaks dry up completely...
...in dry season.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ..WEST SEPIK.....DISTRICT

VILLAGE ..WABUE.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY . Ridge slopes immediately below centre.....
.....of village.....

DISTANCE FROM VILLAGE ...Central.....

ACCESS .....Track.....

SITE KNOWN TO...Oui-Ai.....

TYPE OF AQUIFER .....

DETAILS OF SCHEME . Rainwater catchment.....
.....
.....
.....

MATERIALS REQUIRED ..1 Nylex catchment & 1, 1000 gal. fibrglass.....
.....storage tank.....

LABOUR REQUIRED ...Local.....

SUPERVISION .....Local.....

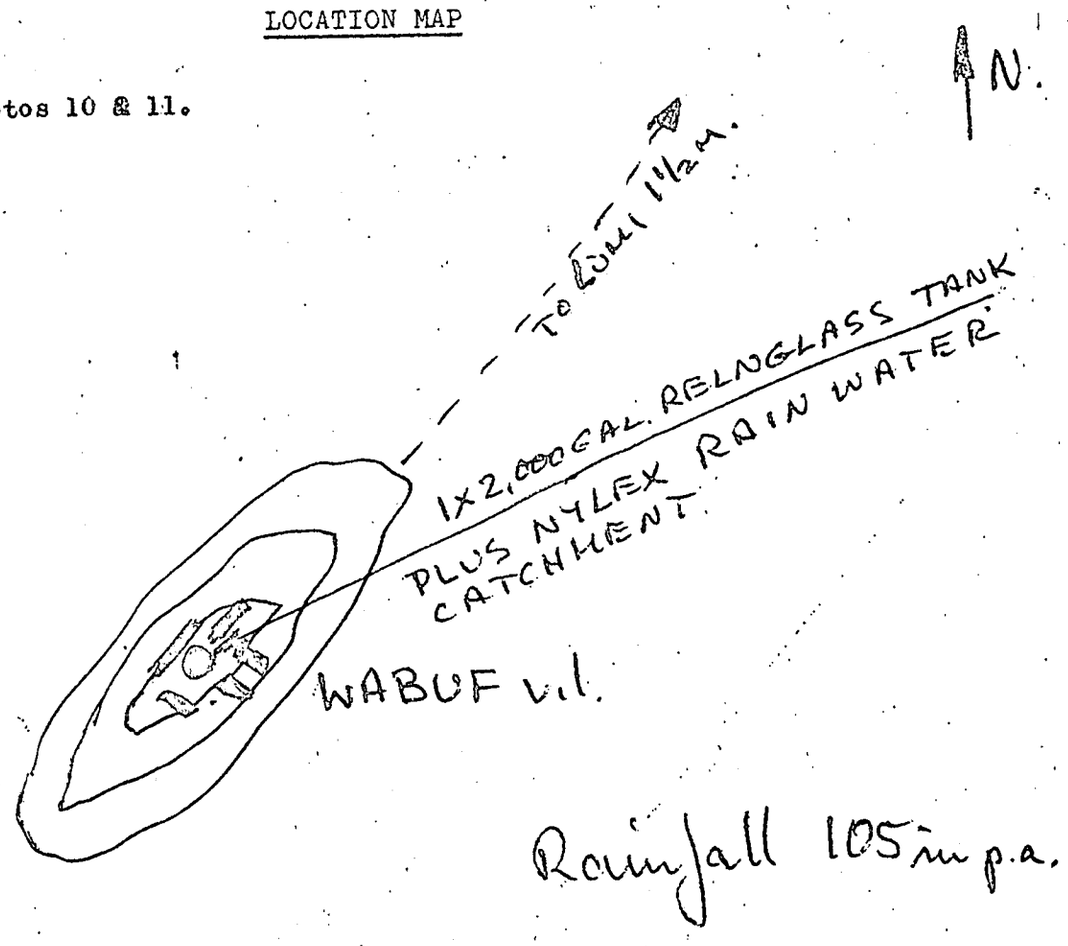
ESTIMATED COST ($) ..300.....

ALTERNATIVE SCHEME .....
.....

PRIORITY ..Second..... Signed ..J.B.L. Read.... Date ..15/10/66

LOCATION MAP

Film 5, photos 10 & 11.

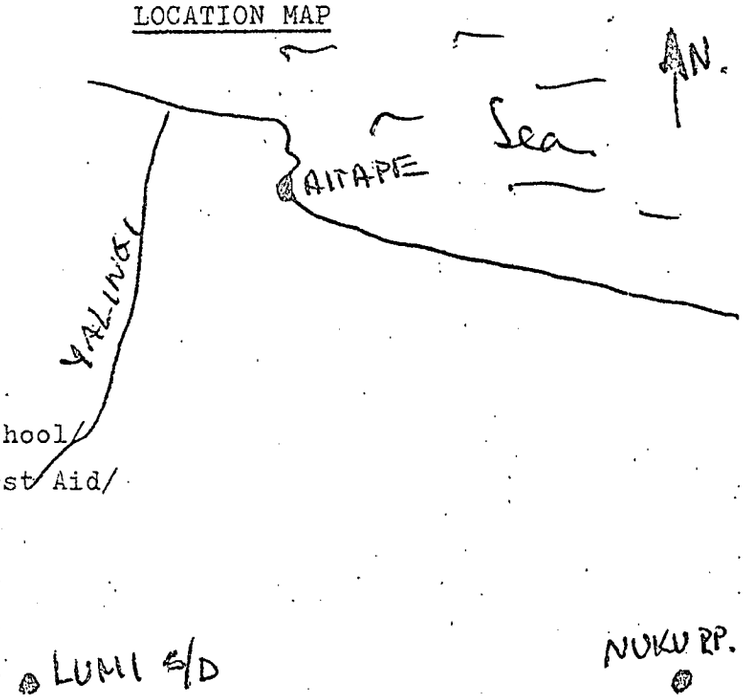


G.S.Form 7

RVEY OF VILLAGE WATER SUPPLIES ..... WEST SEPIK .....DISTRICT

ILLAGE ....TOLOTE.....
OUNCIL ....Vapoi.....
ENSUS DIVISION ...Lumi Local....
S-DISTRICT ...Lumi.....
OPULATION .....150.....
CCESS .....Road.....
.....
EADMAN/COUNCILLOR ..Kolbel.....
.....
ATER USE - Domestic/Government School/
ssion/Mission School/Hospital/First Aid/
ock/Irrigation
OJECTED DEVELOPMENT .....
.....
IMATED DEMAND .....

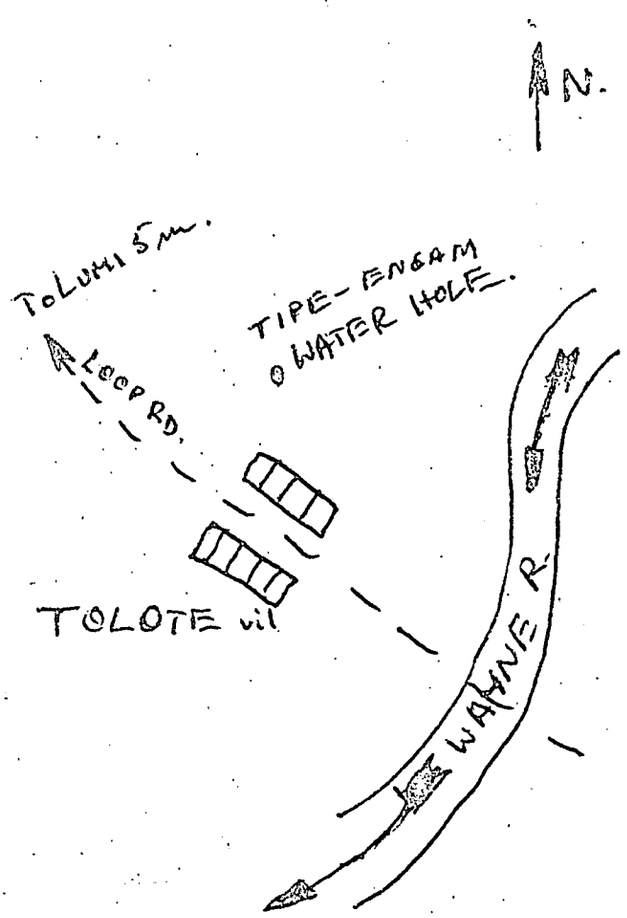
LOCATION MAP



PRESENT SUPPLY

INFALL .....103.....
T SEASON From ..Oct... to ..April
PE ..Shallow well.....
STANCE FROM VILLAGE ..2-3 min....
ANSPORT ...Track.....
ELD/RATE OF FLOW .....
ALITY - Chemical .....
Bactereological .....
OTECTION .....Nil.....
MARKS .....
.....
.....
.....
Y SEASON From .May.... to .Sept.
PE ..As above.....
STANCE FROM VILLAGE .....
ANSPORT .....
ELD/RATE OF FLOW .....
ALITY .....Chemical .....
Bactereological .....
OTECTION .....
MARKS .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES .....WEST SEPIK.....DISTRICT

VILLAGE .....TOLOTE.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ..South central margin of village behind.... ....the house belonging to Kuni.....

DISTANCE FROM VILLAGE .....Central.....

ACCESS .....Track.....

SITE KNOWN TO....Noibel.....

TYPE OF AQUIFER ..River gravel & alluvium.....

DETAILS OF SCHEME ..Standard sanitary well using fibreglass pipes.... .....4 pipes.....

.....

.....

MATERIALS REQUIRED ....As per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) .....140.....

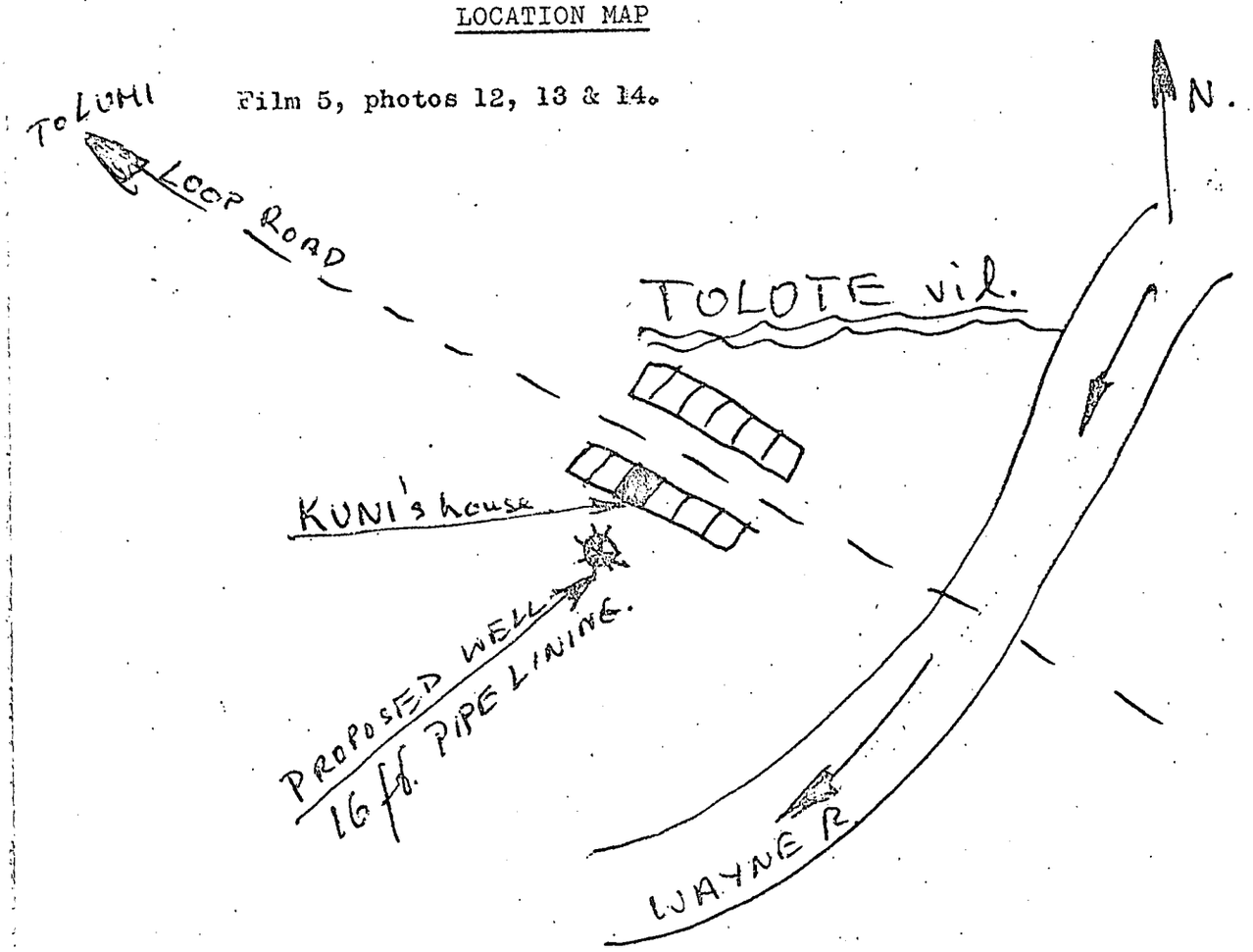
ALTERNATIVE SCHEME .....

.....

PRIORITY ..Second..... Signed ....J.R.L. Read.. Date .16/10/66

LOCATION MAP

Film 5, photos 12, 13 & 14.

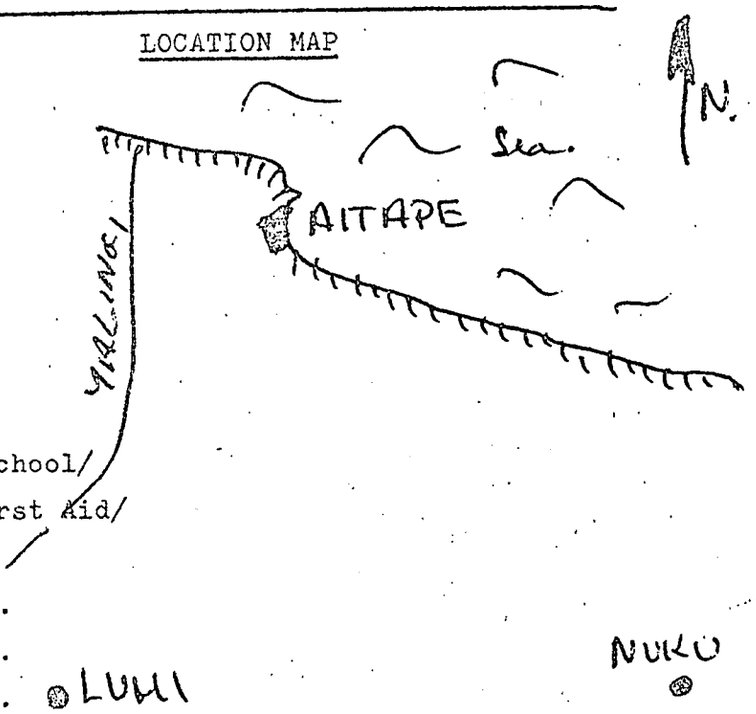


G.S.Form 7

SURVEY OF VILLAGE WATER SUPPLIES ....WEST.SEPIK.....DISTRICT

VILLAGE .....SARBOITE.....
COUNCIL ....Vapei.....
CENSUS DIVISION ..Siamaro.....
SUB-DISTRICT .....Lumi.....
POPULATION .....123.....
ACCESS ....Road.....
.....
~~CHAIRMAN~~/COUNCILLOR ...Albaki.....
.....
WATER USE - Domestic/Government School/
ission/Mission School/Hospital/First Aid/
ock/Irrigation
OJECTED DEVELOPMENT .....
.....
TIMATED DEMAND .....

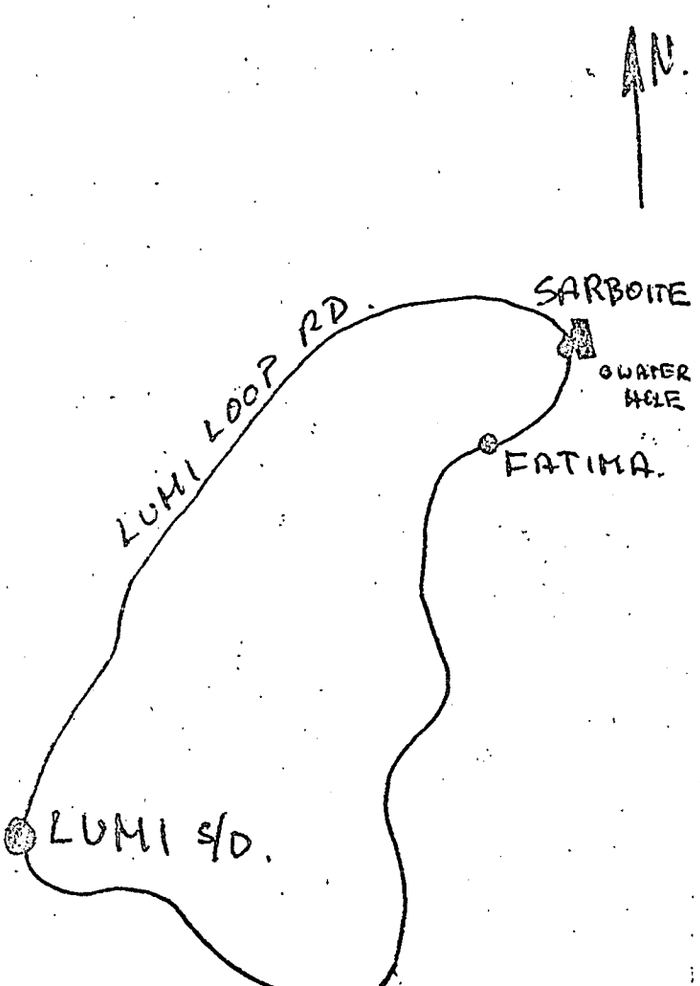
LOCATION MAP



PRESENT SUPPLY

INFALL .....120.....
F SEASON From ..Oct... to .April.
PE ..Rainwater.&.soak.....
STANCE FROM VILLAGE ...2-3 mins..
ANSPORT ...Track.....
ELD/RATE OF FLOW .....
ALITY - Chemical .....
Bactereological .....
OTECTION .....Nil.....
MARKS ...Soak.at.some.level.as...
village.but.on.side.of.ridge.....
.....
.....
Y SEASON From ..May.... to .Sept.
PE ....As above.....
STANCE FROM VILLAGE .....
ANSPORT .....
ELD/RATE OF FLOW .....
ALITY .....Chemical .....
Bactereological .....
OTECTION .....
MARKS .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

VEY OF VILLAGE WATER SUPPLIES ....WEST SEPIK.....DISTRICT

LAGE .....SARBOITE.....

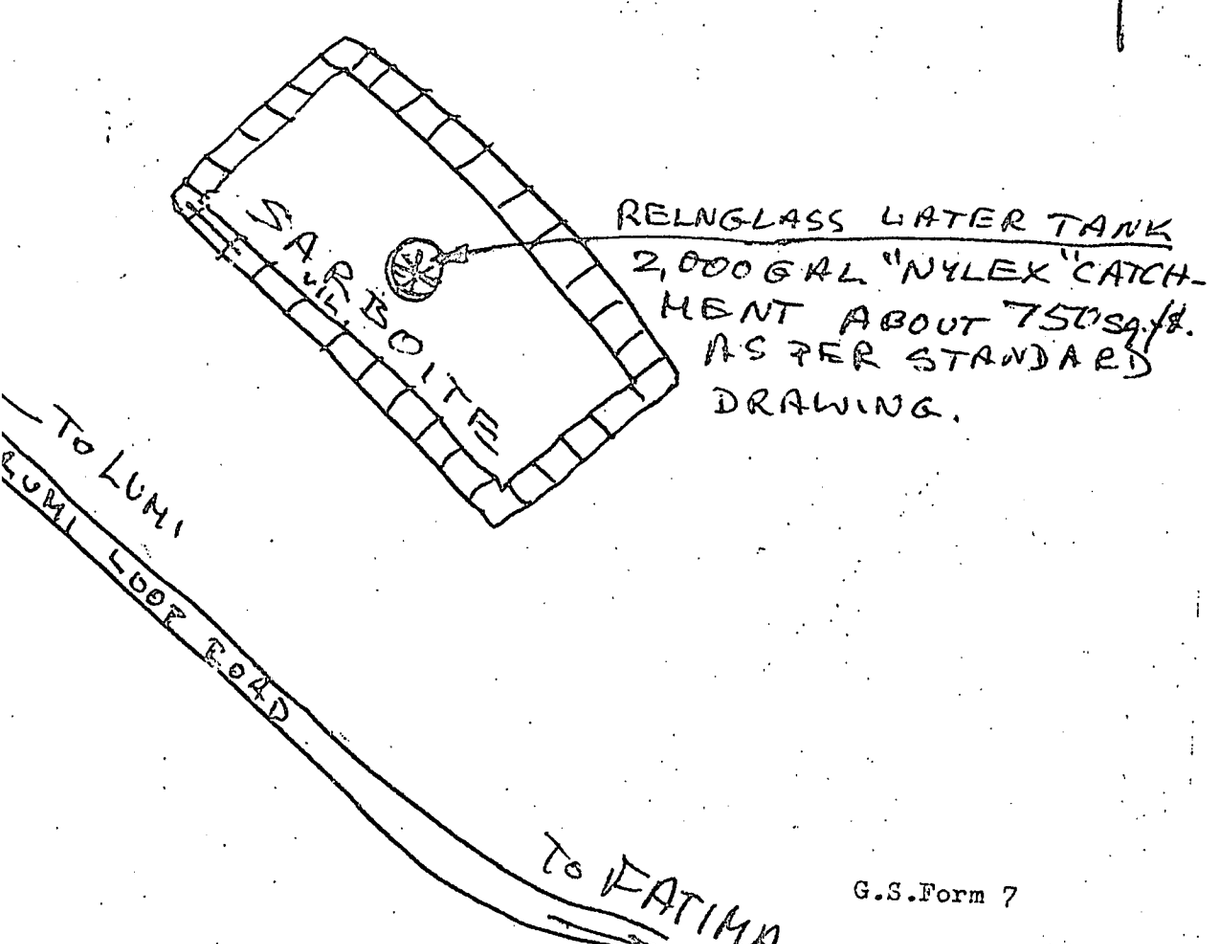
RECOMMENDATIONS

PE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic
Rain/Rainwater Catchment.

CATION OF NEW SUPPLY .Ridge slopes beside the village.....
.....
STANCE FROM VILLAGE ....Central.....
CCESS .....Track.....
TE KNOWN TO..Albaki.....
PE OF AQUIFER .....
TAILS OF SCHEME ..Rainwater catchment.....
.....
.....
.....
TERIALS REQUIRED ..1 Nylex catchment & 1, 2000 gal. fibreglass.....
.....storage tank.....
OUR REQUIRED .....Local.....
ERVISION .....Local.....
IMATED COST ($) ...500.....
ERNATIVE SCHEME .....
.....
ORITY .....Second..... Signed ...J.R.L. Read... Date 16/10/66

LOCATION MAP

Film 5, photos 15 & 16.



G.S.Form 7

MAY RIVER, WANGANUSEN,
UPPER SEPIK AND MAIN
RIVER CENSUS DIVISIONS
GAUI COUNCIL

AMBUNTI SUB DISTRICT

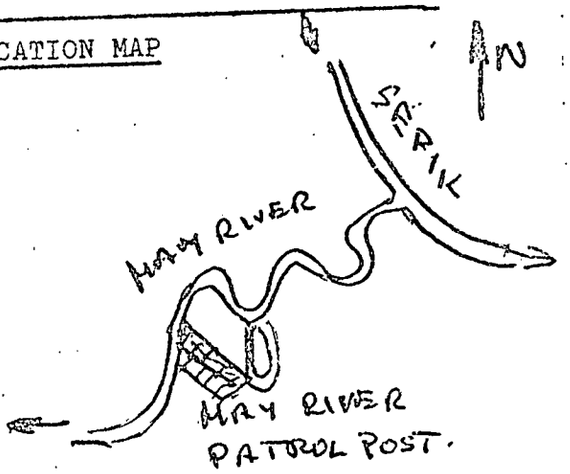
SUMMARY OF SURVEY OF VILLAGE WATER SUPPLIES - MAY RIVER, WONGAMUSEN, UPPER SEPIK AND MAIN RIVER CENSUS DIVISIONS, AND KAUI COUNCIL.

VILLAGE	POPULATION	TYPE OF SCHEME	NO. OF PIPES	ESTIMATED COST $	PRIORITY	REMARKS
May River Station (116)	40					No recommendation
Aumi (115)	79	Well	3	120	Second	Sandy silt and clay. In Village.
Iniok (117)	220	Well	3	120	Second	Sandy silt. In Village
Kubkain (118)		Well	3	120	Second	Sandy silt. In Village
Yambon (119)	269	Well	3	120	Second	Sandy silt. In Village
Malu (120)	449	2 Wells	8	280	Second	Sandy silt. In Village
Auatip (121)	683	3 Wells	12	420	Second	Sandy silt. In Village
Korogo (122)	606	2 Wells	8	280	Second	Sandy silt. In Village
Kanganaman (123)	595	3 Wells	12	420	Second	Sandy silt. In Village
Tegoi (124)	148	Well	4	140	Second	Sandy silt. In Village
Aibom (125)	516	3 Wells	9	360	Second	Sandy alluvium. In village
Indingai (126)	242	Well	4	140	Second	Sandy alluvium. In village
Arijone (127)	85	Well	4	140	Second	Alluvium
Timbuneri (128)	179	Well	2	120	Second	Sandy alluvium 150 yards behind village.

SURVEY OF VILLAGE WATER SUPPLIES .....WEST SEPIK.....DISTRICT

VILLAGE .MAY RIVER PATROL POST.....
COUNCIL ...Nil.....
CENSUS DIVISION ...May. River.....
SUB-DISTRICT ..Ambunti.....
POPULATION .....40.....
ACCESS ..Sepik River.....
.....
HEADMAN/COUNCILLOR .....
.....
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

RAINFALL .....156 (Lowest).....
WET SEASON From .Dec.... to .March.
TYPE ..Rainfall catchment.....
DISTANCE FROM VILLAGE ...Central....
TRANSPORT ...Track.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....
.....
DRY SEASON From ...April. to Nov...
TYPE .....As. above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS ..Rainfall catchment.....
...adequate.. No. recommendation.....
.....

LOCATION MAP

Film 11, photo 3.

G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ..... WEST SEPIK .....DISTRICT

VILLAGE ..... AUMI .....

COUNCIL ..Nil.....

CENSUS DIVISION ..May River.....

SUB-DISTRICT ...Ambunti.....

POPULATION ..79.....

ACCESS ...May River.....

.....

~~MEMBER~~/COUNCILLOR ...Naru.....

.....

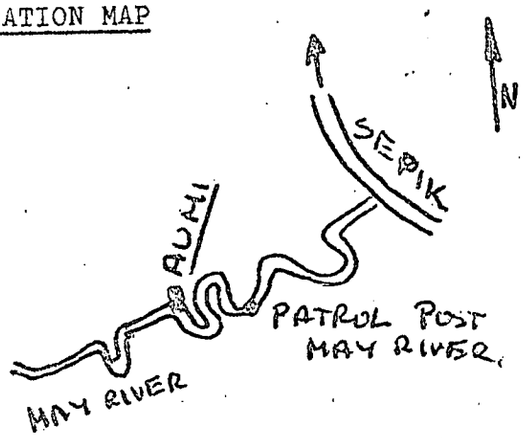
WATER USE - Domestic/Government School/ Mission/Mission School/Hospital/First Aid/ Stock/Irrigation

PROJECTED DEVELOPMENT .....

.....

ESTIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

RAINFALL ...156 (Lowest).....

WET SEASON From ..Dec.... to .March.

TYPE ..May River.....

DISTANCE FROM VILLAGE .....

TRANSPORT ...May River.....

YIELD/RATE OF FLOW .....

QUALITY - Chemical .....

Bactereological .....

PROTECTION ...Nil.....

REMARKS .....

.....

.....

.....

DRY SEASON From ..April.. to .Nov.

TYPE ....As above.....

DISTANCE FROM VILLAGE .....

TRANSPORT .....

YIELD/RATE OF FLOW .....

QUALITY .....Chemical .....

Bactereological .....

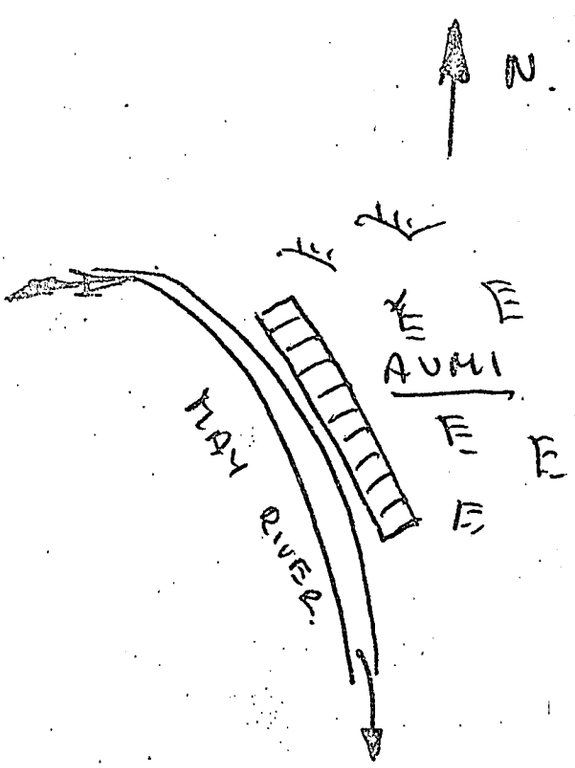
PROTECTION .....

REMARKS .....

.....

.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ....WEST SEPIK.....DISTRICT

VILLAGE ....AUMI.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ...Village Central. 15 feet behind the house.

.....Belonging to ~~Amax~~ ONEI.....

DISTANCE FROM VILLAGE ....Central.....

ACCESS .....Track.....

SITE KNOWN TO.....

TYPE OF AQUIFER ..Sandy silt & clay.....

DETAILS OF SCHEME ...Standard sanitary well. 3 pipes. Fibreglass...

.....

.....

.....

MATERIALS REQUIRED ...As per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) .....120.....

ALTERNATIVE SCHEME .....

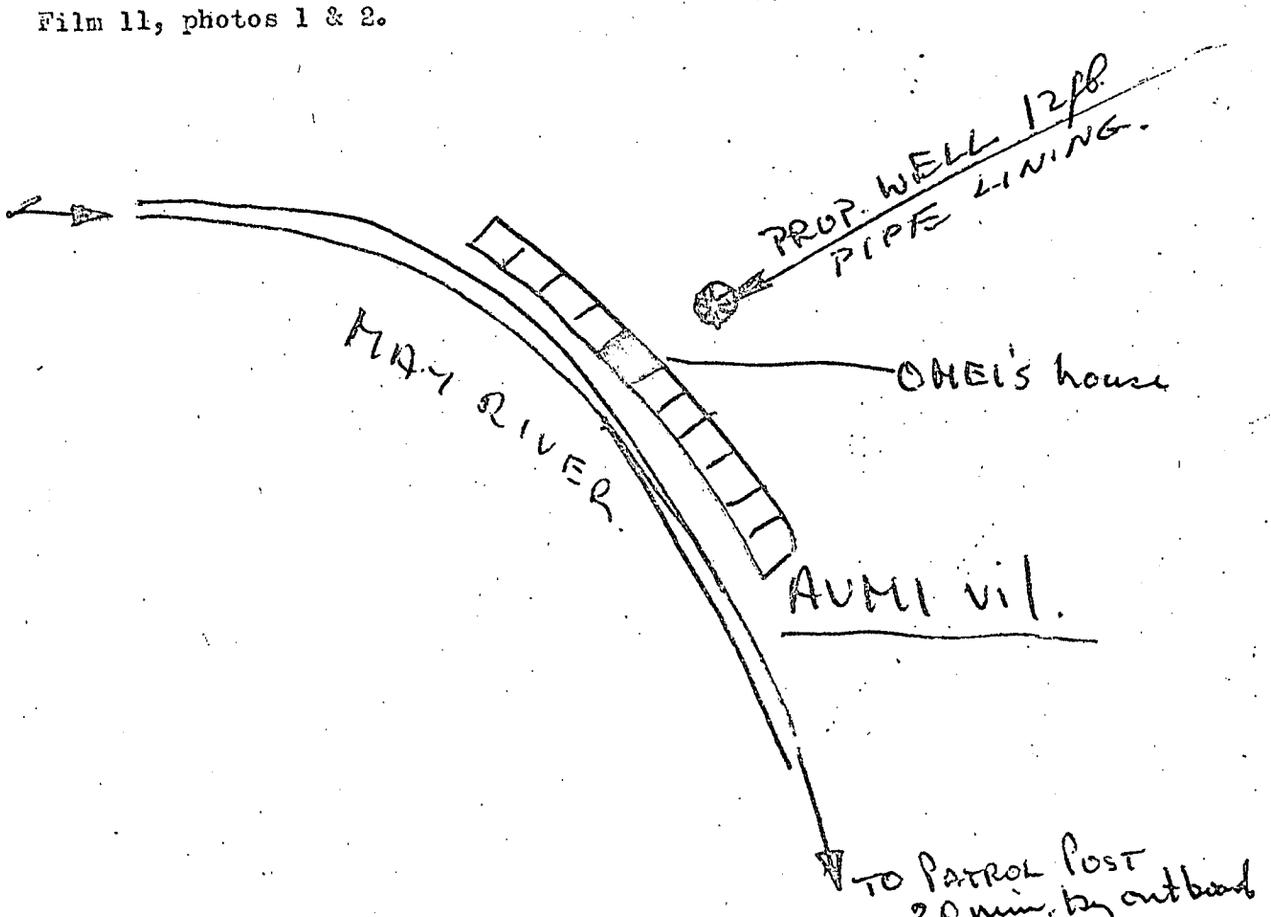
.....

PRIORITY ..Second..... Signed ...J.R.L. Read... Date .20/11/66

LOCATION MAP

N.

Film 11, photos 1 & 2.



G.S.Form 7

ILLAGE .....INIOK.....

OUNCIL ...Nil.....

ENSUS DIVISION ...May.River.....

EB.DISTRICT ....Ambunti.....

OPULATION ....220.....

CCESS ...Sepik.River.....

.....

EADMAN/~~COUNCILLOR~~ ..Namagum.....

.....

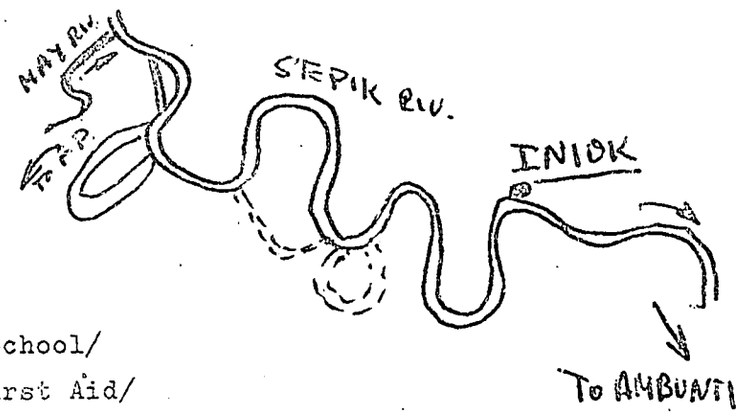
ATER USE - Domestic/Government School/
ssion/Mission School/Hospital/First Aid/
ock/Irrigation

NNECTED DEVELOPMENT .....

.....

TIMATED DEMAND .....

LOCATION MAP



N.

PRESENT SUPPLY

INFALL .....156. (Lowest).....

SEASON From .Dec.... to .March.

E ...Sepik.River.....

STANCE FROM VILLAGE .....

NSPORT ...Track.....

LD/RATE OF FLOW .....

LITY - Chemical .....

Bactereological .....

ECTION .....Nil.....

ARKS .....

.....

.....

.....

SEASON From .April... to .Nov.

E ....As.above.....

STANCE FROM VILLAGE .....

NSPORT .....

LD/RATE OF FLOW .....

LITY .....Chemical .....

Bactereological .....

TECTION .....

ARKS .....

.....

.....

LOCATION MAP

G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ..... WEST SEPIK .....DISTRICT

VILLAGE ..... INIOK .....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ....Village central, in between houses belonging .....to. IKU. and. ~~XXX~~. MAIKWA .....

DISTANCE FROM VILLAGE .....Central .....

ACCESS .....Track.....

SITE KNOWN TO.....

TYPE OF AQUIFER .....Sandy silt.....

DETAILS OF SCHEME ....Standard sanitary well. 3 pipes. Fibreglass. .....

.....

.....

.....

MATERIALS REQUIRED .....As per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) .....120.....

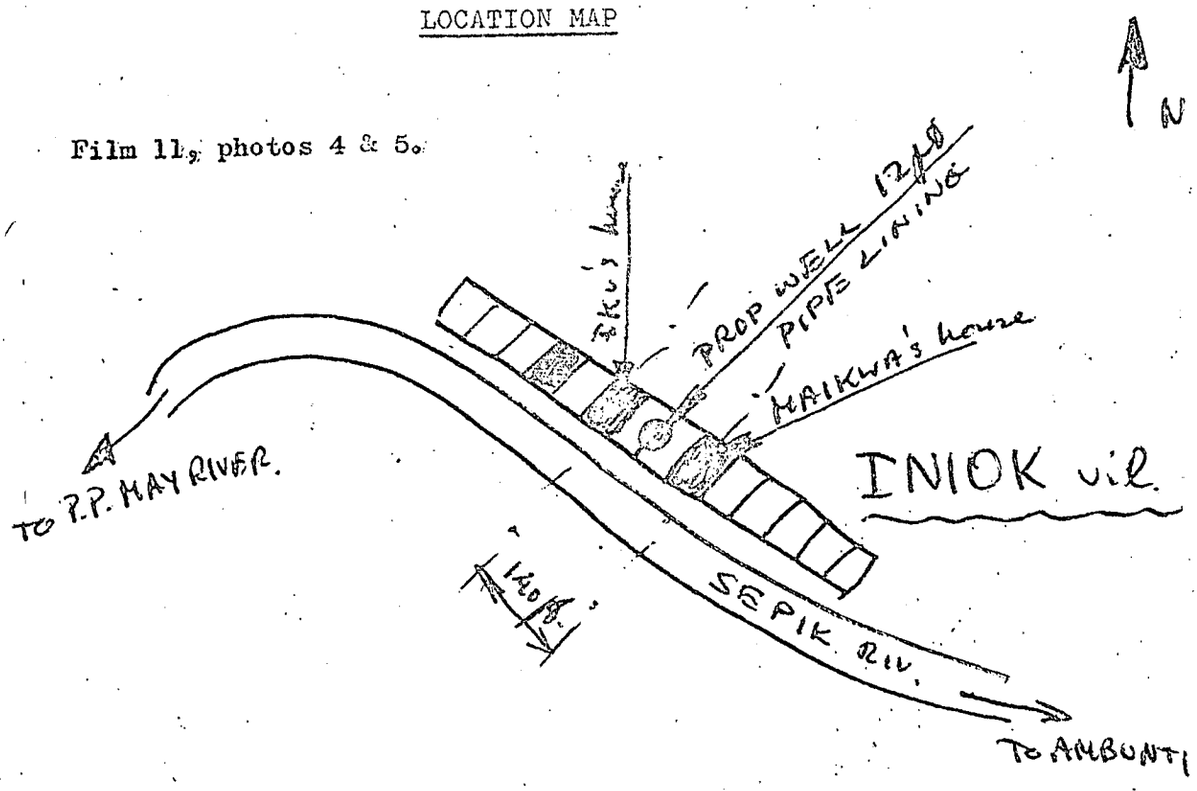
ALTERNATIVE SCHEME .....

.....

PRIORITY ...Second..... Signed ...J.R.L. Read... Date ..20/11/66.

LOCATION MAP

Film 11, photos 4 & 5.

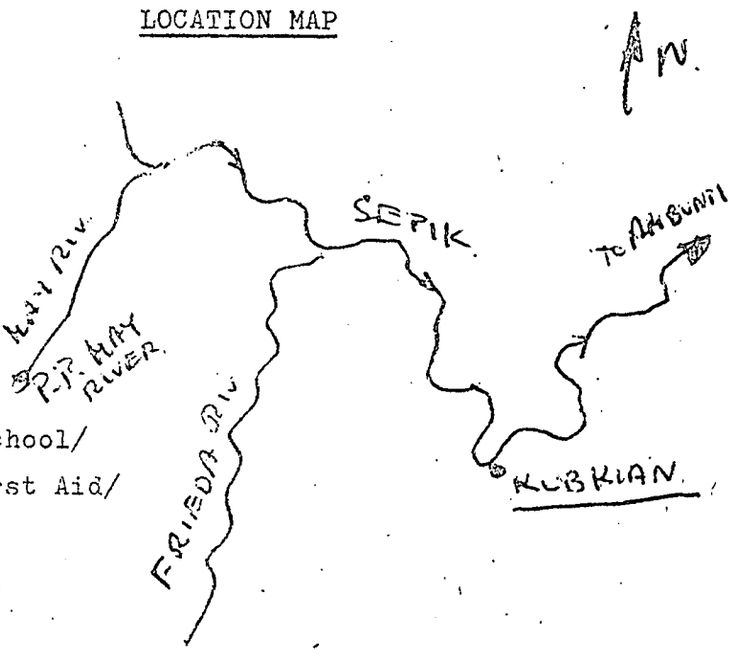


G.S.Form 7

SURVEY OF VILLAGE WATER SUPPLIES .....WEST. SEPIK.....DISTRICT

VILLAGE ..KUBKIAN.....
COUNCIL ....Nil.....
CENSUS DIVISION ..Ongumusen.....
SUB-DISTRICT ..Ambunti.....
POPULATION .....
ACCESS ..Sepik River.....
.....
HEADMAN/COUNCILLOR .....
.....
WATER USE - Domestic/Government School/
ission/Mission School/Hospital/First Aid/
ock/Irrigation
OJECTED DEVELOPMENT .....
.....
TIMATED DEMAND .....

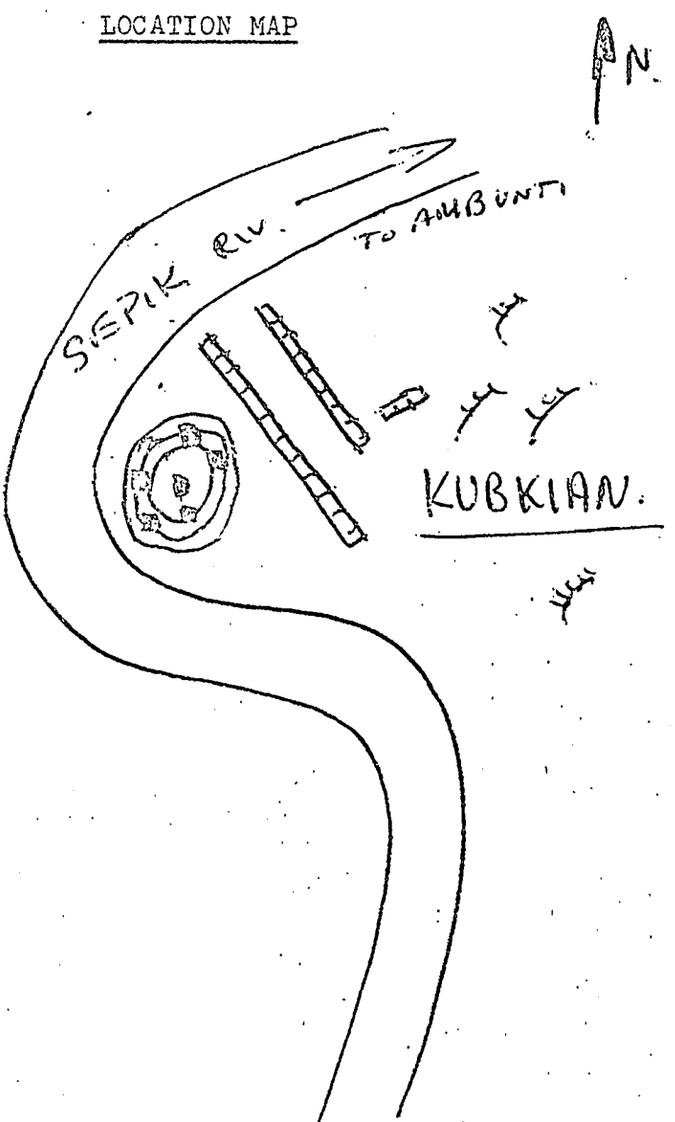
LOCATION MAP



PRESENT SUPPLY

INFALL .....75.....
T SEASON From ..Oct... to ..March
PE ..Sepik River.....
STANCE FROM VILLAGE .....
NSPORT ..Track.....
LD/RATE OF FLOW .....
LITY - Chemical .....
Bactereological .....
OTECTION ...Nil.....
MARKS .....
.....
.....
.....
T SEASON From .April... to ..Sept
PE ...As above.....
STANCE FROM VILLAGE .....
NSPORT .....
LD/RATE OF FLOW .....
LITY .....Chemical .....
Bactereological .....
OTECTION .....
MARKS .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ....WEST SEPIK.....DISTRICT

VILLAGE .....KUBKAIN..... RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ..Village central, 20 feet SE of house belonging to .....YENUAI.....

DISTANCE FROM VILLAGE ....Central.....

ACCESS .....Track.....

SITE KNOWN TO.....

TYPE OF AQUIFER ....Sandy silt.....

DETAILS OF SCHEME .....Standard sanitary well. 3 pipes. Fibreglass.

.....

.....

.....

MATERIALS REQUIRED .....As per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) .....120.....

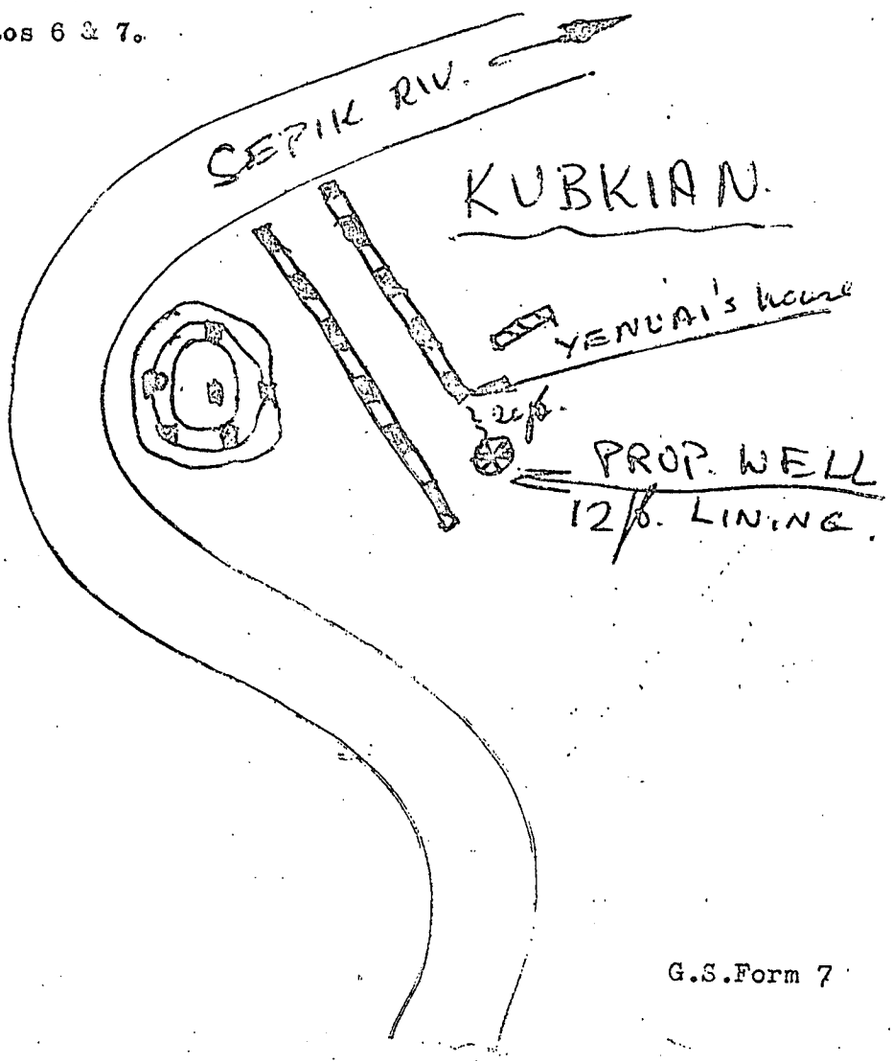
ALTERNATIVE SCHEME .....

.....

PRIORITY .....Second..... Signed ..J.R.L. Read.... Date .20/11/66.

LOCATION MAP

Film 11, photos 6 & 7.



G.S.Form 7

SURVEY OF VILLAGE WATER SUPPLIES ....WEST SEPIK.....DISTRICT

VILLAGE ....YAMBON.....

COUNCIL ...Nil.....

CENSUS DIVISION ..Upper Sepik....

SUB-DISTRICT ...Ambunti.....

POPULATION ..269.....

ACCESS ...Sepik River.....

.....

HEADMAN/~~COUNCILLOR~~ .....

.....

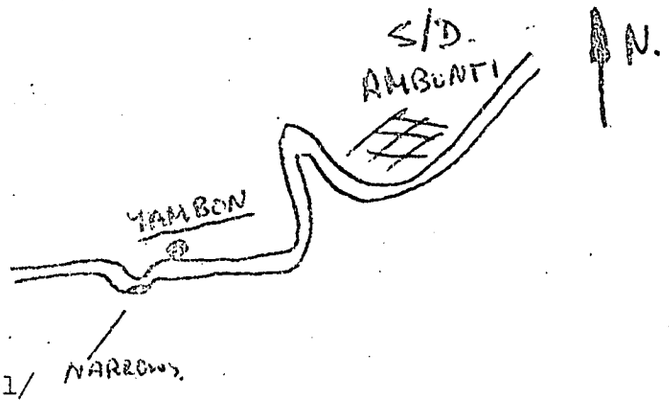
WATER USE - Domestic/Government School/
ission/Mission School/Hospital/First Aid/
tock/Irrigation

ROJECTED DEVELOPMENT .....

.....

STIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

AINFALL .....75.....

T SEASON From .Oct.... to ..March.

PE ..Small stream.....

STANCE FROM VILLAGE .100 yds.....

ANSPORT ...Track.....

ELD/RATE OF FLOW .....

ALITY - Chemical .....

Bactereological .....

TECTION .....Nil.....

ARKS .....

.....

.....

.....

T SEASON From .April... to .Sept.

E ...As above.....

TANCE FROM VILLAGE .....

NSPORT .....

LD/RATE OF FLOW .....

LITY .....Chemical .....

Bactereological .....

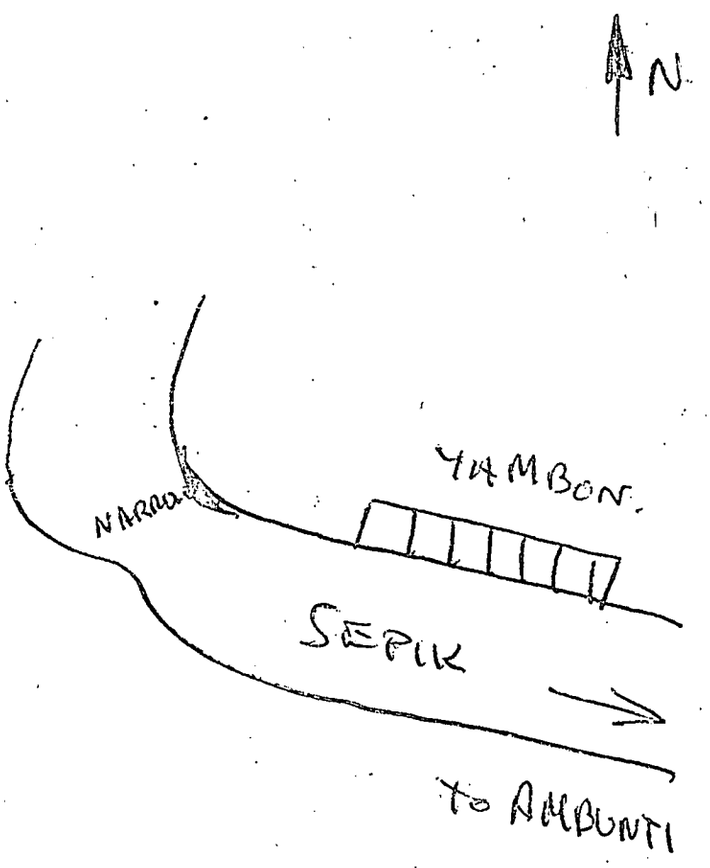
ECTION .....

RKS .....

.....

.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ...WEST SEPIK.....DISTRICT

VILLAGE ...YAMBON.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ..Village central between houses belonging ...
....to BANGU & WOIOKAI.....

DISTANCE FROM VILLAGE ..Central.....

ACCESS ....Track.....

SITE KNOWN TO.....

TYPE OF AQUIFER ...Sandy silt.....

DETAILS OF SCHEME ..Standard sanitary well. 8 pipes. Fibreglass.....
.....
.....
.....

MATERIALS REQUIRED ....As per standard drawing.....
.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

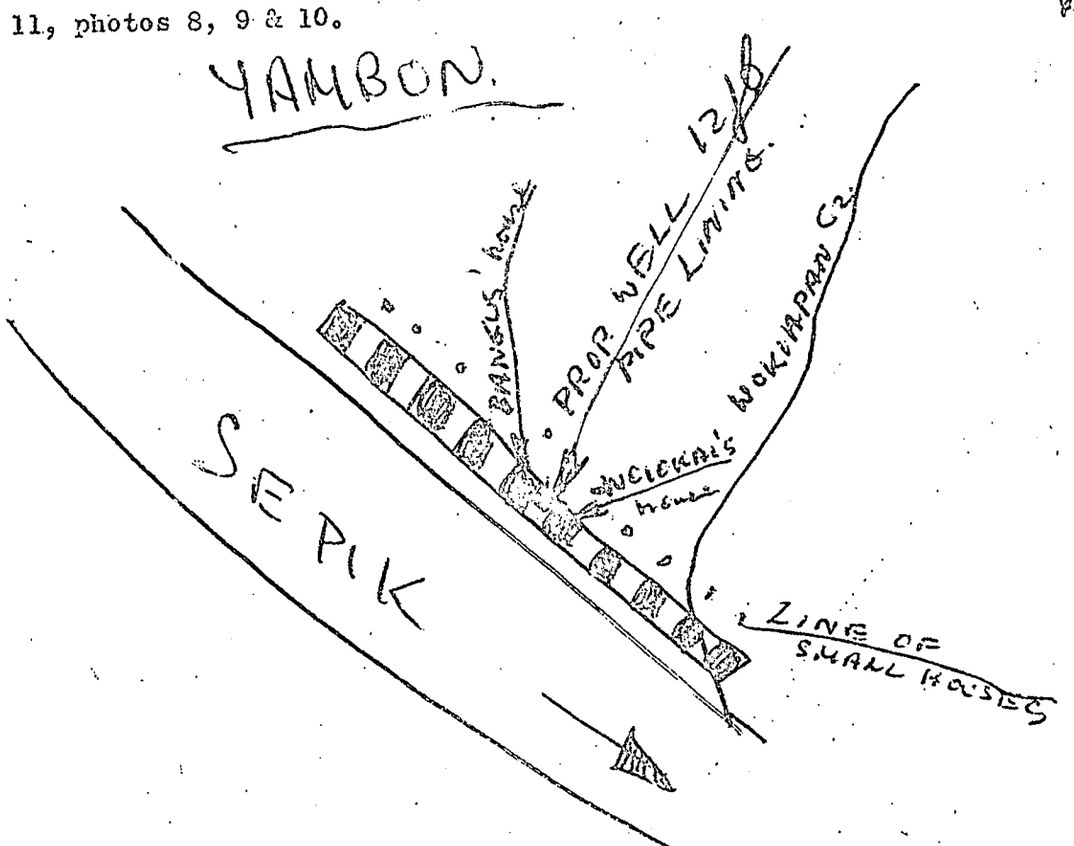
ESTIMATED COST ($) .....120.....

ALTERNATIVE SCHEME .....
.....

PRIORITY ..Second..... Signed .J.R.L. Read..... Date .20/11/66

LOCATION MAP

Film 11, photos 8, 9 & 10.

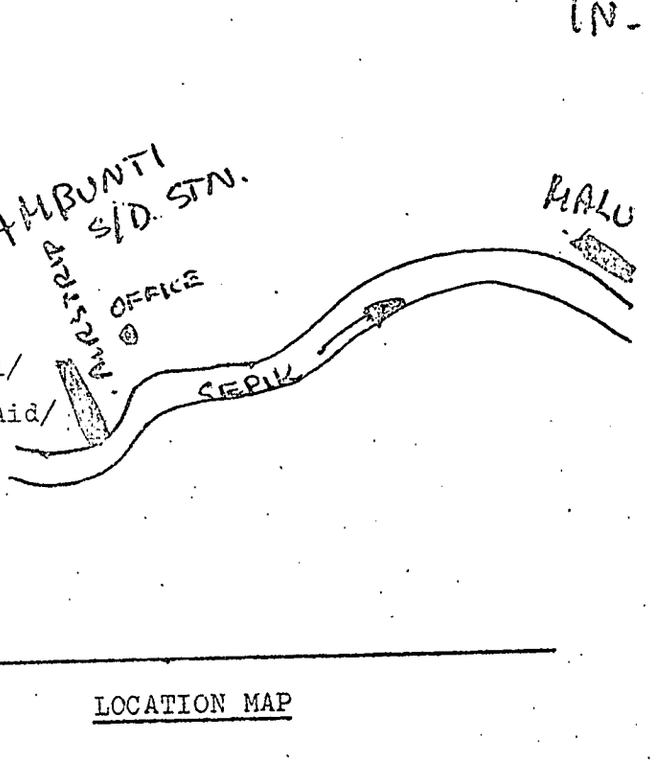


G.S.Form 7

URVEY OF VILLAGE WATER SUPPLIES ..WEST SEPIK.....DISTRICT

ILLAGE ...MAIN.....
OUNCIL ....Nil.....
ENSUS DIVISION ..Main River.....
UB-DISTRICT ..Ambunti.....
OPULATION ..449.....
CCESS ..Sepik River.....
.....
EADMAN/~~COUNCILLOR~~ ...Kariam.....
.....
ATER USE - Domestic/Government School/
ssion/Mission School/Hospital/First Aid/
ock/Irrigation
ROJECTED DEVELOPMENT .....
.....
STIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

AINFALL ...75.....
T SEASON From ..... Oct to ..... March.
PE ...Sepik River.....
STANCE FROM VILLAGE .....
ANSPORT ...Track.....
ELD/RATE OF FLOW .....
ALITY - Chemical .....
Bactereological .....
OTECTION ....Nil.....
MARKS .....
.....
.....
.....
Y SEASON From ...April. to Sept.
PE ...As. above.....
STANCE FROM VILLAGE .....
ANSPORT .....
ELD/RATE OF FLOW .....
ALITY .....Chemical .....
Bactereological .....
OTECTION .....
MARKS .....
.....
.....

LOCATION MAP

Water from the Sepik river.

G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ....WEST.SEPIK.....DISTRICT

VILLAGE ....MALU.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ..2 wells. One between houses belomging to GAIA & WAINE. One between houses belonging to GANI & PASANDU.....

DISTANCE FROM VILLAGE ..Central.....

ACCESS ....Track.....

SITE KNOWN TO.....

TYPE OF AQUIFER .....Sandy silt.....

DETAILS OF SCHEME . Standard sanitary well. 4 pipes each. Fibreglass. ..Trench latrines behind houses of GANI & PASANDU. to be abandoned & ...the ground chlorinated & not used for a well site for at least 6 months. ...Each well to protrude 4 feet above ground level.....

MATERIALS REQUIRED .....As per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) ....280.....

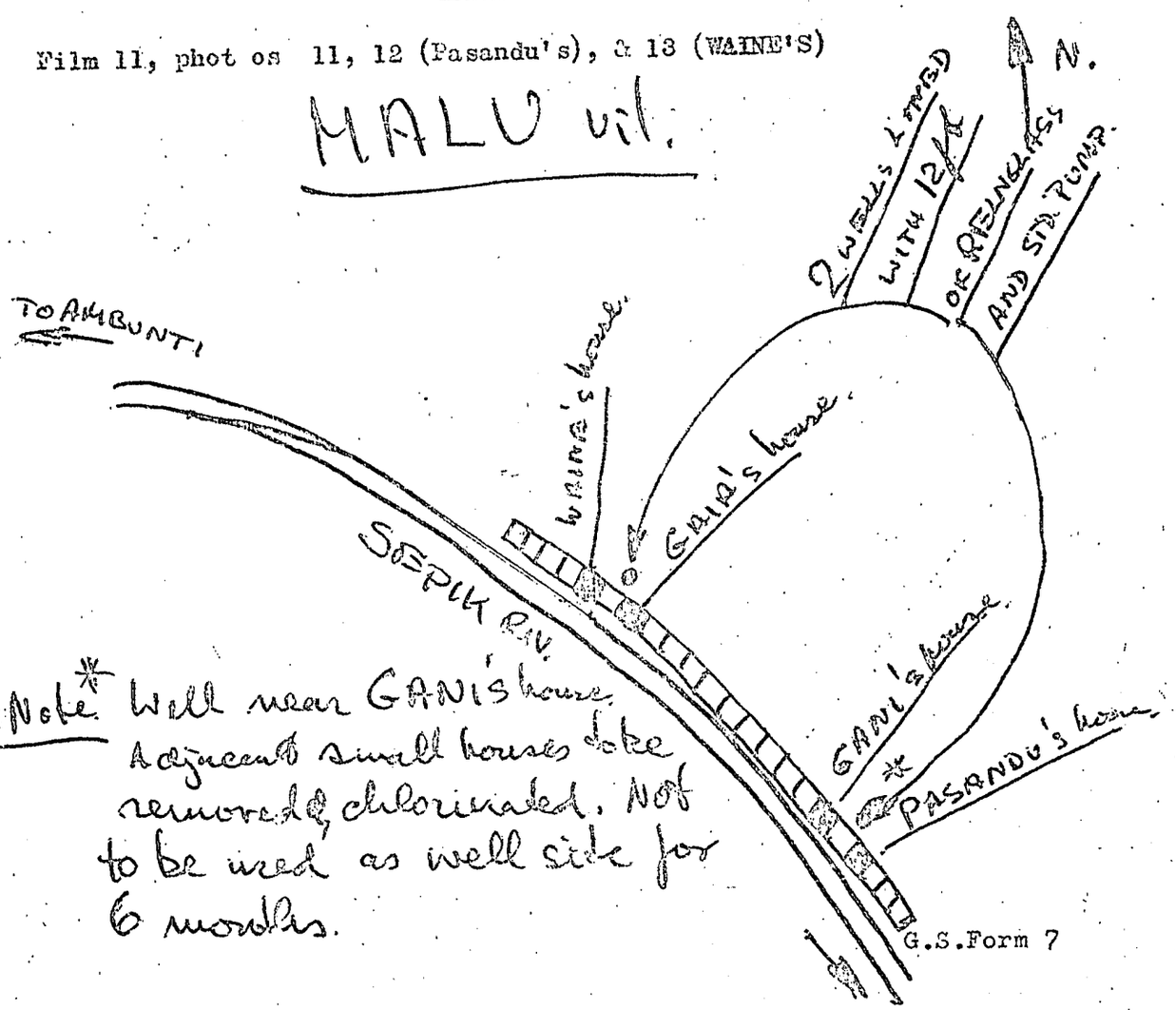
ALTERNATIVE SCHEME .....

.....

PRIORITY .Second..... Signed ..J.R.L..Read.... Date 20/11/66

LOCATION MAP

Film 11, phot os 11, 12 (Pasandu's), & 13 (WAINE'S)



G.S.Form 7

SURVEY OF VILLAGE WATER SUPPLIES ..WEST SEPIK.....DISTRICT

VILLAGE ....AVATIP.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY 3 wells. One in front of House Copra. Two in front of Aid Post. Three between houses belonging to RANKER & TAPI.....

DISTANCE FROM VILLAGE ....Central.....

ACCESS .....Track.....

SITE KNOWN TO.....

TYPE OF AQUIFER ....Sandy silt.....

DETAILS OF SCHEME ...3 standard sanitary wells. 4 pipes. Fibreglass. Each well to protrude 4 feet above ground level.....

.....

.....

MATERIALS REQUIRED .....As per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) ....420.....

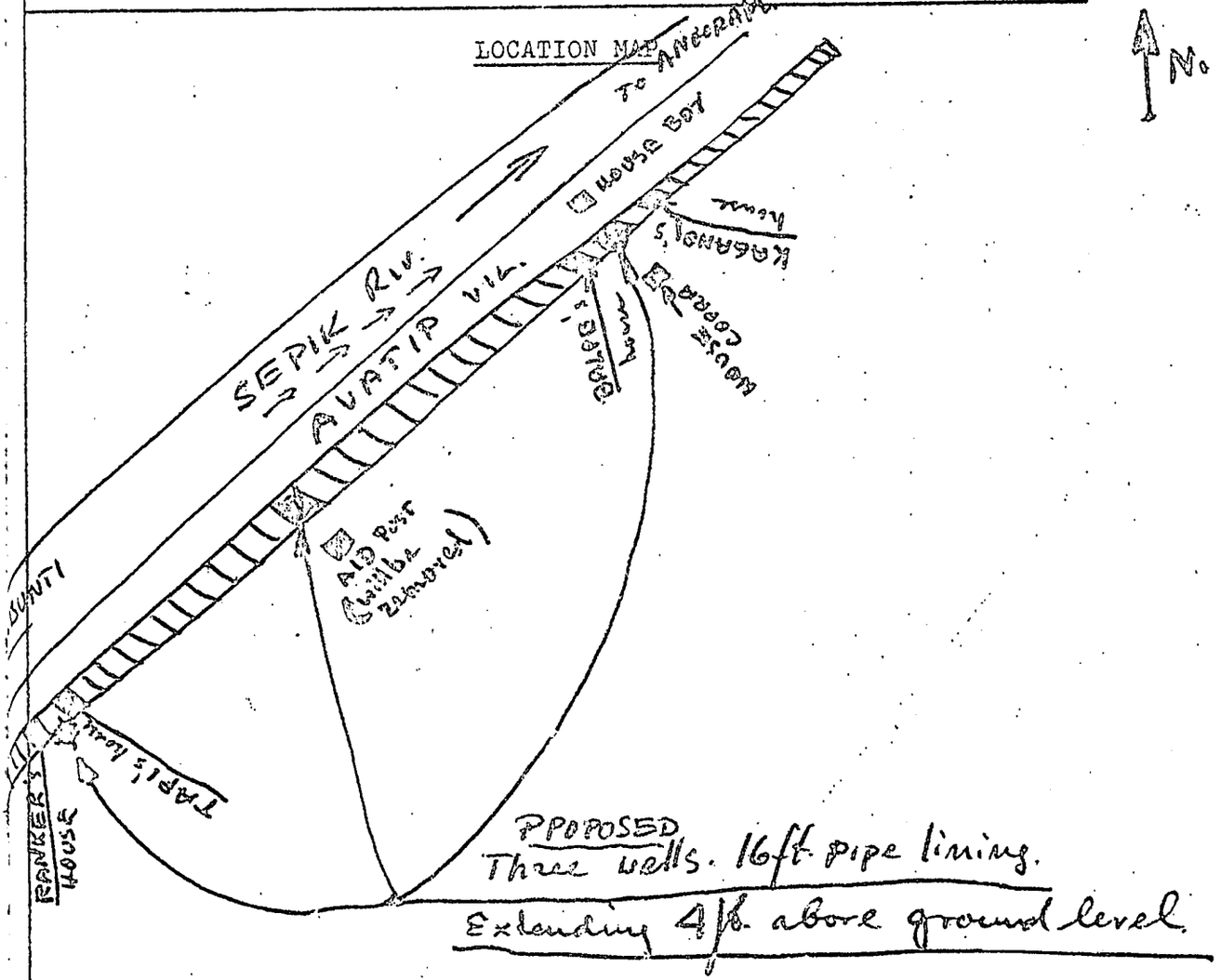
ALTERNATIVE SCHEME .....

.....

PRIORITY ...Second..... Signed ..J.R.L. Read.... Date ..21/11/66.

Film 11 photos 15 (Site 1), 17(Site 2) & 18(Site 3).

LOCATION MAP

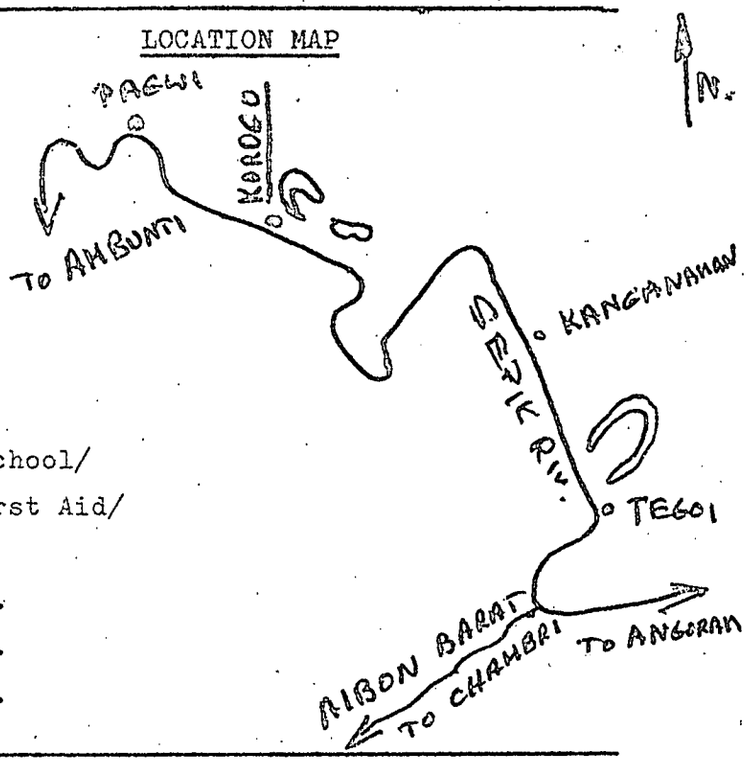


G.S.Form 7

SURVEY OF VILLAGE WATER SUPPLIES ..EAST SEPIK.....DISTRICT

VILLAGE ..KOROGO.....
COUNCIL ..Gaui.....
CENSUS DIVISION ....Main Rivers..
SUB-DISTRICT ....Ambunti.....
POPULATION ..606.....
ACCESS ...Sepik River.....
.....
~~HEADMAN~~/COUNCILLOR ..Konkon.....
.....
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

RAINFALL .....65.....
WET SEASON From .Oct.... to .March.
TYPE ...Sepik River.....
DISTANCE FROM VILLAGE .....
TRANSPORT ...Track.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION .....Nil.....
REMARKS .....
.....
.....
.....
DRY SEASON From ..April.. to .Sept.
TYPE ....As above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP

G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ...EAST SEPIK.....DISTRICT

VILLAGE .....KOROGO.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY .2 wells. One in front of house belonging to CHUA ...& Two beside The Haus Boi.

DISTANCE FROM VILLAGE ..Central.

ACCESS ....Track

SITE KNOWN TO..Konkon.

TYPE OF AQUIFER ...Sandy silt.

DETAILS OF SCHEME ...Standard sanitary wells. 4 pipes each. Fibreglass. .....Each well to protrude 4 feet above ground level.

MATERIALS REQUIRED ....As per standard drawing.

LABOUR REQUIRED .....Local

SUPERVISION .....Local

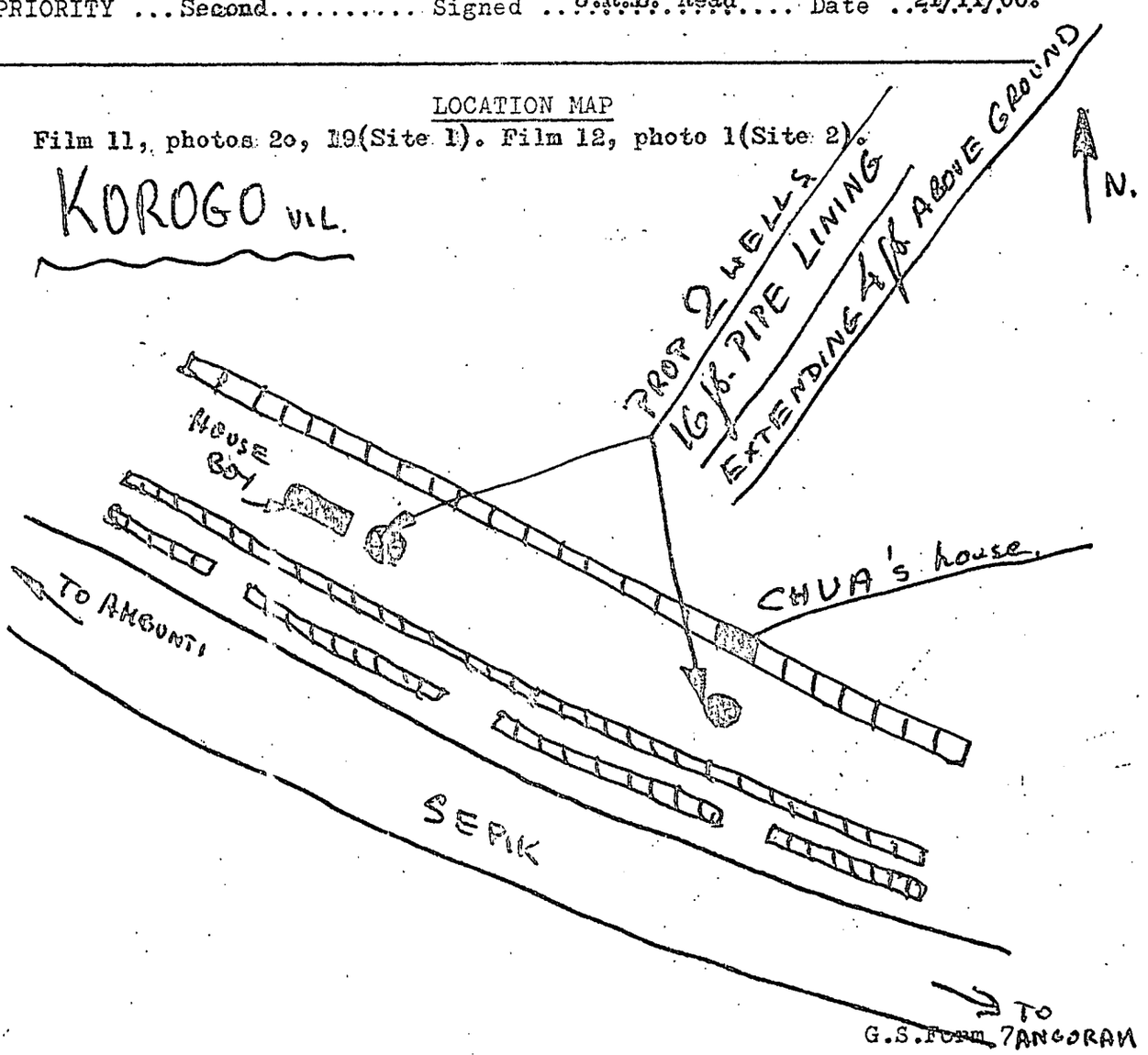
ESTIMATED COST ($) ...280.

ALTERNATIVE SCHEME .....

PRIORITY ...Second..... Signed ..J.R.L. Read.... Date ..21/11/66.

LOCATION MAP

Film 11, photos 2o, 19(Site 1). Film 12, photo 1(Site 2).



G.S. Form 7

SURVEY OF VILLAGE WATER SUPPLIES ... EAST SEPIK .....DISTRICT

VILLAGE ...KANGANAMAN.....

COUNCIL ...Gani.....

CENSUS DIVISION ..Main River.....

SUB-DISTRICT ....Ambunti.....

POPULATION ....595.....

ACCESS ..Sepik River.....

.....

HEADMAN/~~COUNCILLOR~~ : Gondwan.....

.....

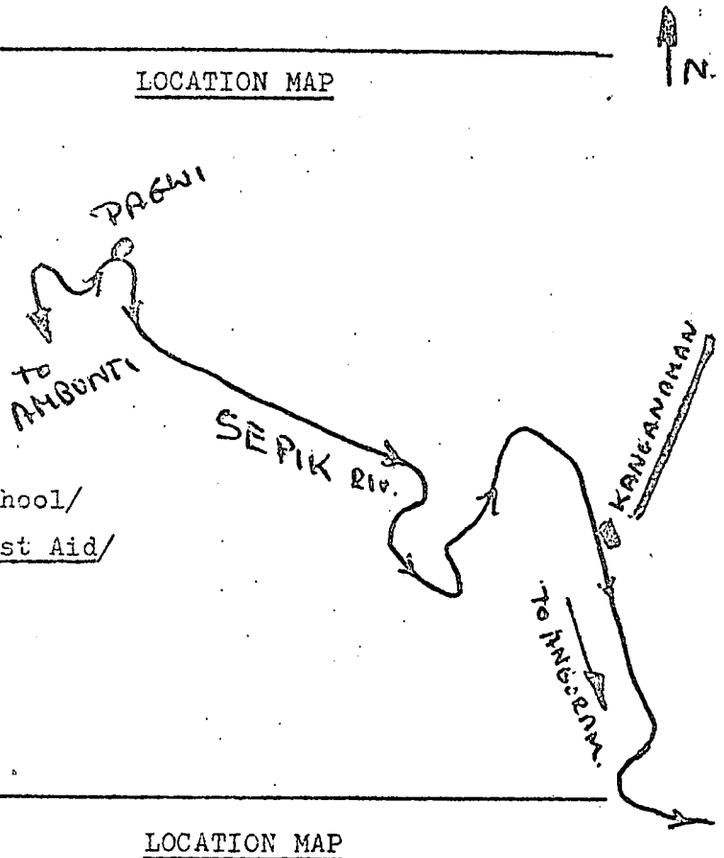
WATER USE - Domestic/Government School/ Mission/Mission School/Hospital/First Aid/ Stock/Irrigation

PROJECTED DEVELOPMENT .....

.....

ESTIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

RAINFALL .....65.....

WET SEASON From ..Oct... to .March.

TYPE ...Sepik River.....

DISTANCE FROM VILLAGE .....

TRANSPORT ...Track.....

YIELD/RATE OF FLOW .....

QUALITY - Chemical .....

Bactereological .....

PROTECTION .....Nil.....

REMARKS .....

.....

.....

.....

DRY SEASON From April..... to Sept.

TYPE ....As above.....

DISTANCE FROM VILLAGE .....

TRANSPORT .....

YIELD/RATE OF FLOW .....

QUALITY .....Chemical .....

Bactereological .....

PROTECTION .....

REMARKS .....

.....

.....

LOCATION MAP

G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ..... EAST SEPIK .....DISTRICT

VILLAGE ..KANGANAMAN..... RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY 3 wells. One between houses belonging to KANUA & GONDWAN, Two beside house of WARINDAMBIL. Three between houses belonging to MARASAPA & GRAMBAN.

DISTANCE FROM VILLAGE ..Central to each hamlet.....

ACCESS ....Track.....

SITE KNOWN TO.....Gondwan.....

TYPE OF AQUIFER ...Sandy silt.....

DETAILS OF SCHEME .3 sanitary wells..4 pipes each. Fibreglass.....
.Each well to protrude 4 feet above ground level.....
.....
.....

MATERIALS REQUIRED ...As per standard draving.....
.....

LABOUR REQUIRED .....Local.....

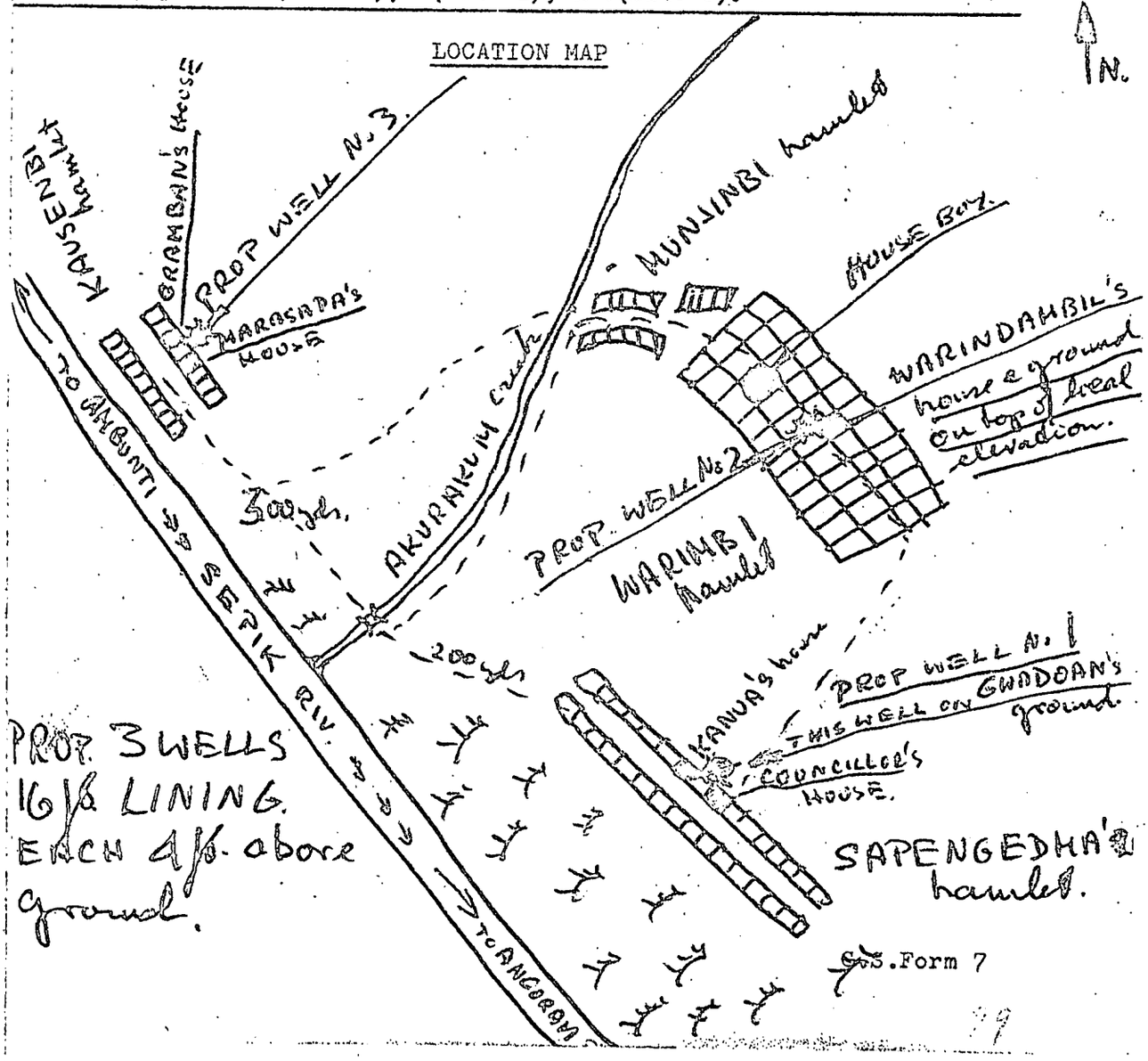
SUPERVISION .....Local.....

ESTIMATED COST ($) .....420.....

ALTERNATIVE SCHEME .....
.....

PRIORITY ...Second..... Signed .J.B.L. Read..... Date .21/11/66

Film 12, photos 4(Site 1), 5(Site 2), & 6(Site 3).



SURVEY OF VILLAGE WATER SUPPLIES ..EAST SEPIK.....DISTRICT

VILLAGE ...TEGOI.....

COUNCIL ..Gaui.....

CENSUS DIVISION ...Main River....

SUB-DISTRICT ..Ambunti.....

POPULATION ...148.....

ACCESS .....Sepik River.....

.....

~~HEADMAN~~/COUNCILLOR Nwolai.....

.....

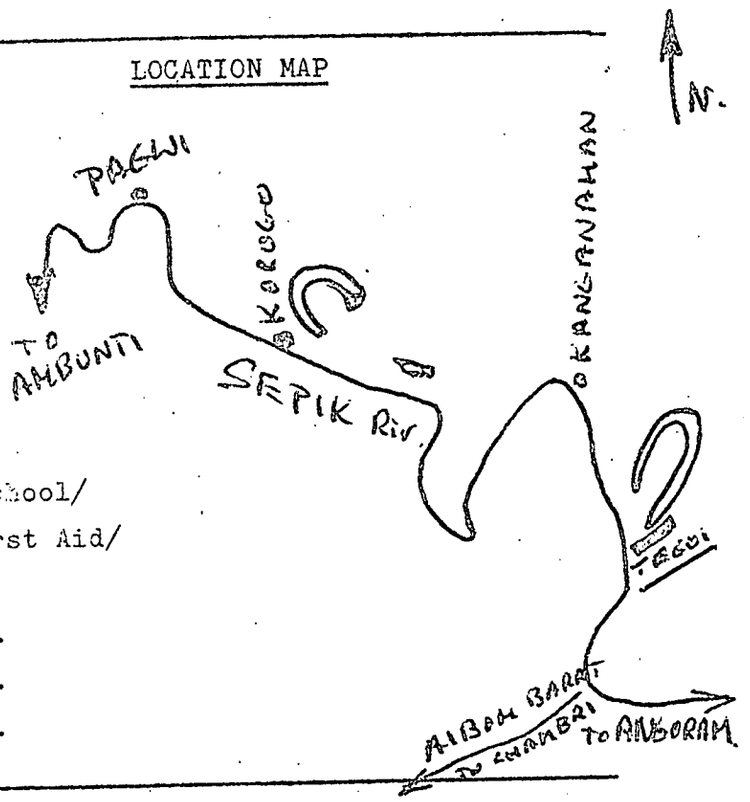
WATER USE - Domestic/Government School/ Mission/Mission School/Hospital/First Aid/ Stock/Irrigation

PROJECTED DEVELOPMENT .....

.....

ESTIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

RAINFALL .....65.....

WET SEASON From ..Oct... to ..March

TYPE ..Sepik River...Tegoi Lagoon..

DISTANCE FROM VILLAGE .....

TRANSPORT ...Track.....

YIELD/RATE OF FLOW .....

QUALITY - Chemical .....

Bactereological .....

PROTECTION .....Nil.....

REMARKS .....

.....

.....

.....

DRY SEASON From ..April... to ..Sept.

TYPE .....As above.....

DISTANCE FROM VILLAGE .....

TRANSPORT .....

YIELD/RATE OF FLOW .....

QUALITY .....Chemical .....

Bactereological .....

PROTECTION .....

REMARKS .....

.....

.....

LOCATION MAP

G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES . EAST SEPIK .....DISTRICT

VILLAGE .....TEGOI.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ...Between R.C. Church & R.C. Teacher's house.

DISTANCE FROM VILLAGE ...Central.

ACCESS ....Track

SITE KNOWN TO.....Kwalai

TYPE OF AQUIFER ...Sandy silts.

DETAILS OF SCHEME ....Standard sanitary well. 4 pipes. Fibreglass.

....The well is to protrude 4 feet above ground level.

MATERIALS REQUIRED .....As per standard drawing.

LABOUR REQUIRED .....Local

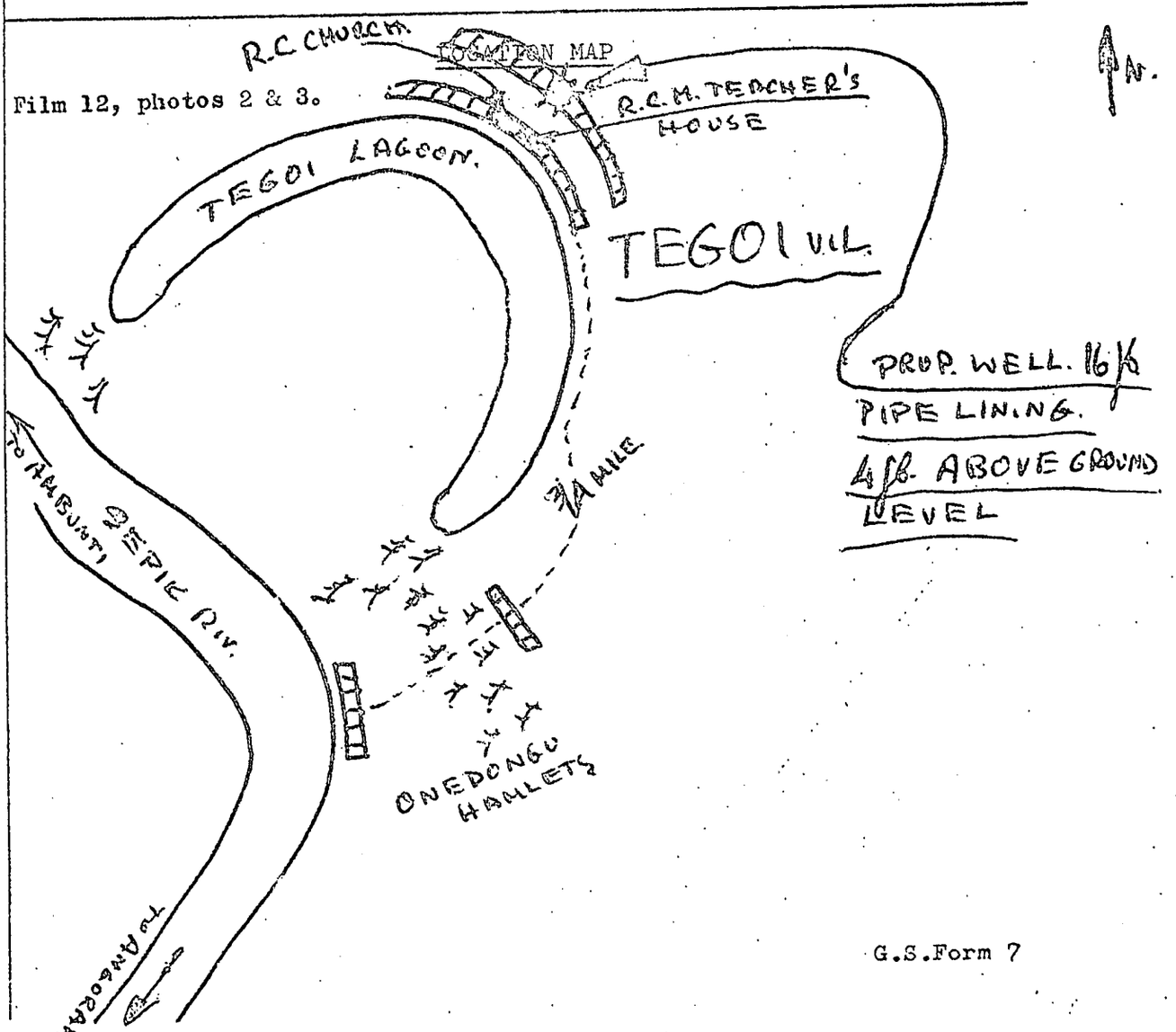
SUPERVISION .....Local

ESTIMATED COST ($) 140

ALTERNATIVE SCHEME .....

PRIORITY ..Second..... Signed ....J.R.L. Read... Date 21/11/66

Film 12, photos 2 & 3.

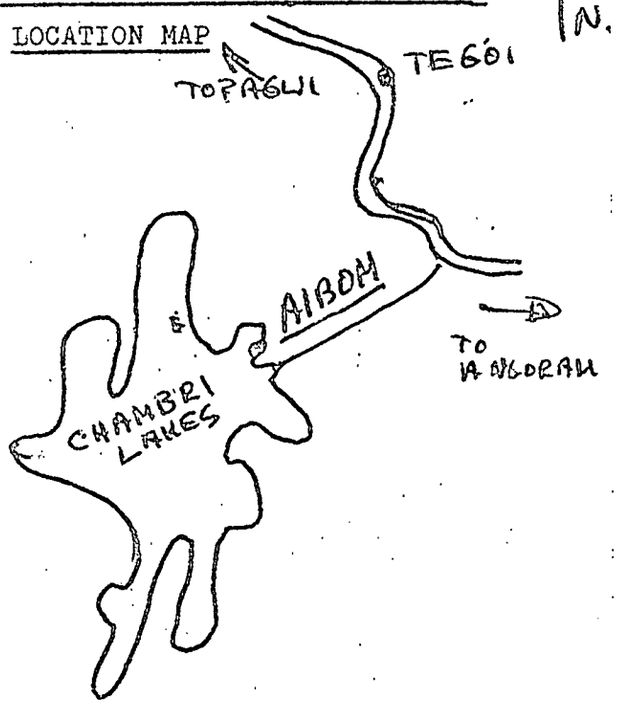


G.S.Form 7

SURVEY OF VILLAGE WATER SUPPLIES ....EAST SEPIK.....DISTRICT

VILLAGE .....AIBOM.....
COUNCIL ....Gaui.....
CENSUS DIVISION ....Chambri Lakes.
SUB-DISTRICT ...Ambunti.....
POPULATION ...516.....
ACCESS .Sepik River & Aibom Barat.
.....
~~HEADMAN~~/COUNCILLOR .William.....
.....Deman.....
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

RAINFALL .....65.....
WET SEASON From ..Oct... to .March
TYPE Chambri Lake & small streams..
DISTANCE FROM VILLAGE .....
TRANSPORT .Track.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION .....Nil.....
REMARKS .....
.....
.....
.....
DRY SEASON From ..April.. to ..Sept.
TYPE ....As above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP

G.S. Form 6
(Rev. 22/8/66)

2

SURVEY OF VILLAGE WATER SUPPLIES ....EAST SEPIK.....DISTRICT

VILLAGE ...AIBOM.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY 3.wells. One behind Haus Boi at Aibom 1, Two behind R.C. Church at Aibom 2, Three on SUAT'S ground behind Aibom 3.

DISTANCE FROM VILLAGE ...Central to each hamlet.....

ACCESS ...Track.....

SITE KNOWN TO...MAGI.....

TYPE OF AQUIFER .Sandy alluvium.....

DETAILS OF SCHEME ..3.standard sanitary wells. 3.pipes each. Fibreglass.

.....

.....

.....

MATERIALS REQUIRED ..As per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) .....360.....

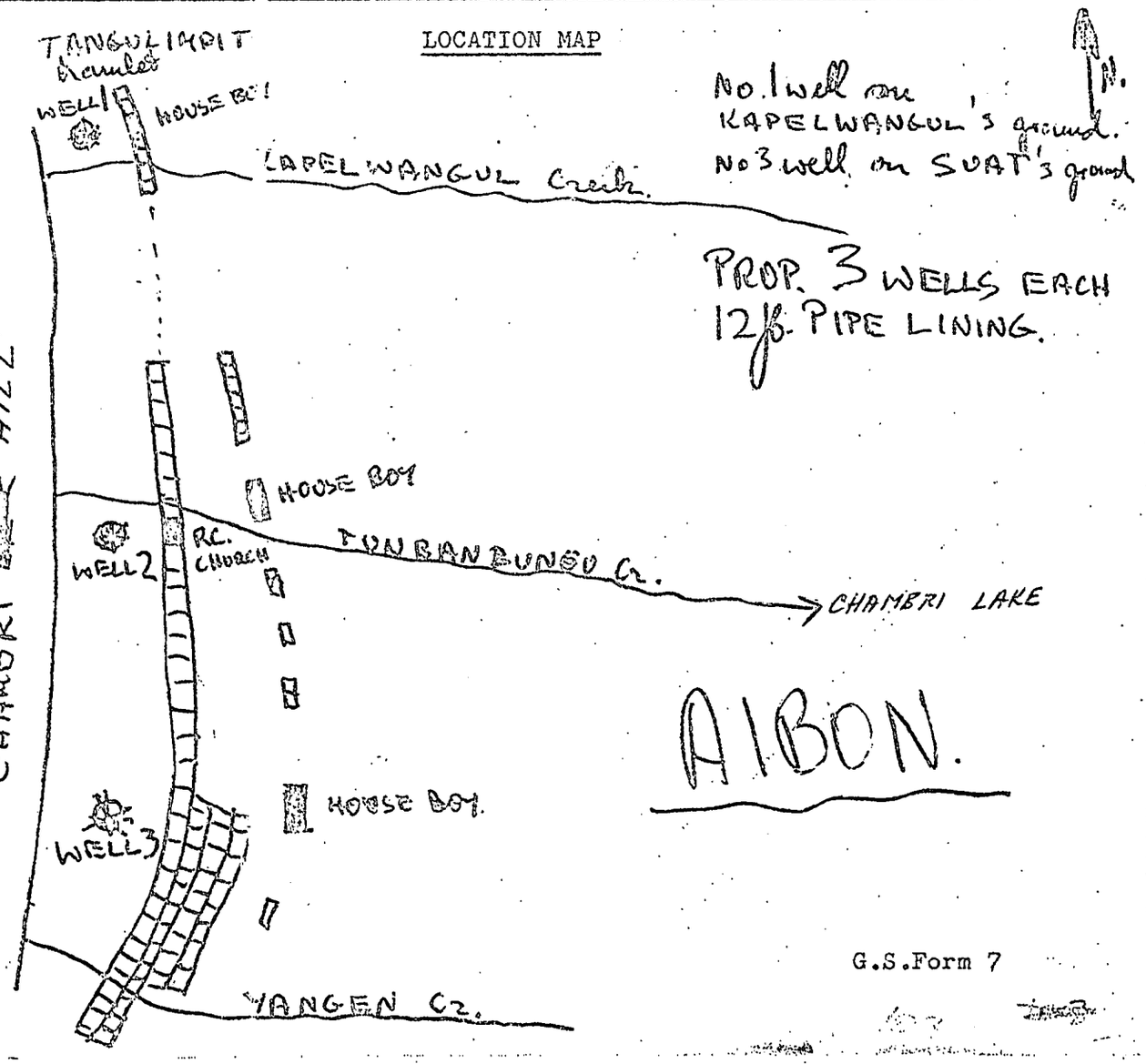
ALTERNATIVE SCHEME .....

.....

PRIORITY .Second..... Signed ..J.R.L. Read... Date .22/11/66

Film 12, photos 7(Site 2), 8(Site 3) & 9(Site 1).

LOCATION MAP

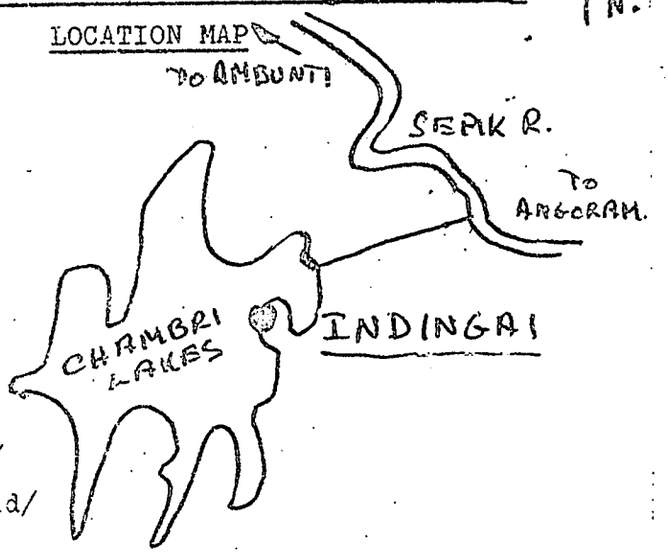


G.S.Form 7

SURVEY OF VILLAGE WATER SUPPLIES ...EAST SEPIK.....DISTRICT

VILLAGE ....INDINGAI.....
COUNCIL ...Gaui.....
CENSUS DIVISION ..Chambri Lakes...
SUB-DISTRICT ..Ambunti.....
POPULATION ..242.....
ACCESS Sepik River & Abbom Barat.
.....
~~MEMBER~~/COUNCILLOR ..Yanbumbe -...
.....Welinagwan.....
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

RAINFALL .....65.....
WET SEASON From ..Oct... to ..March
TYPE Small streams in hill behind village.
DISTANCE FROM VILLAGE ..50 yds.....
TRANSPORT ..Track.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION .....Nil.....
REMARKS .....
.....
.....
.....
DRY SEASON From .April... to .Sept.
TYPE ....As above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP

G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES: ...EAST SEPIK.....DISTRICT

VILLAGE ..INDINGAI.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ..Well between houses belonging to SUI & MORIS. ..at base of Wegli creek & above high tide level.....

DISTANCE FROM VILLAGE ...Central.....

ACCESS .....Track.....

SITE KNOWN TO.....Yambunbe.....

TYPE OF AQUIFER ...Sandy alluvium.....

DETAILS OF SCHEME ..Standard sanitary well. 4 pipes. Fibreglass.....

.....

.....

.....

MATERIALS REQUIRED ..As per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

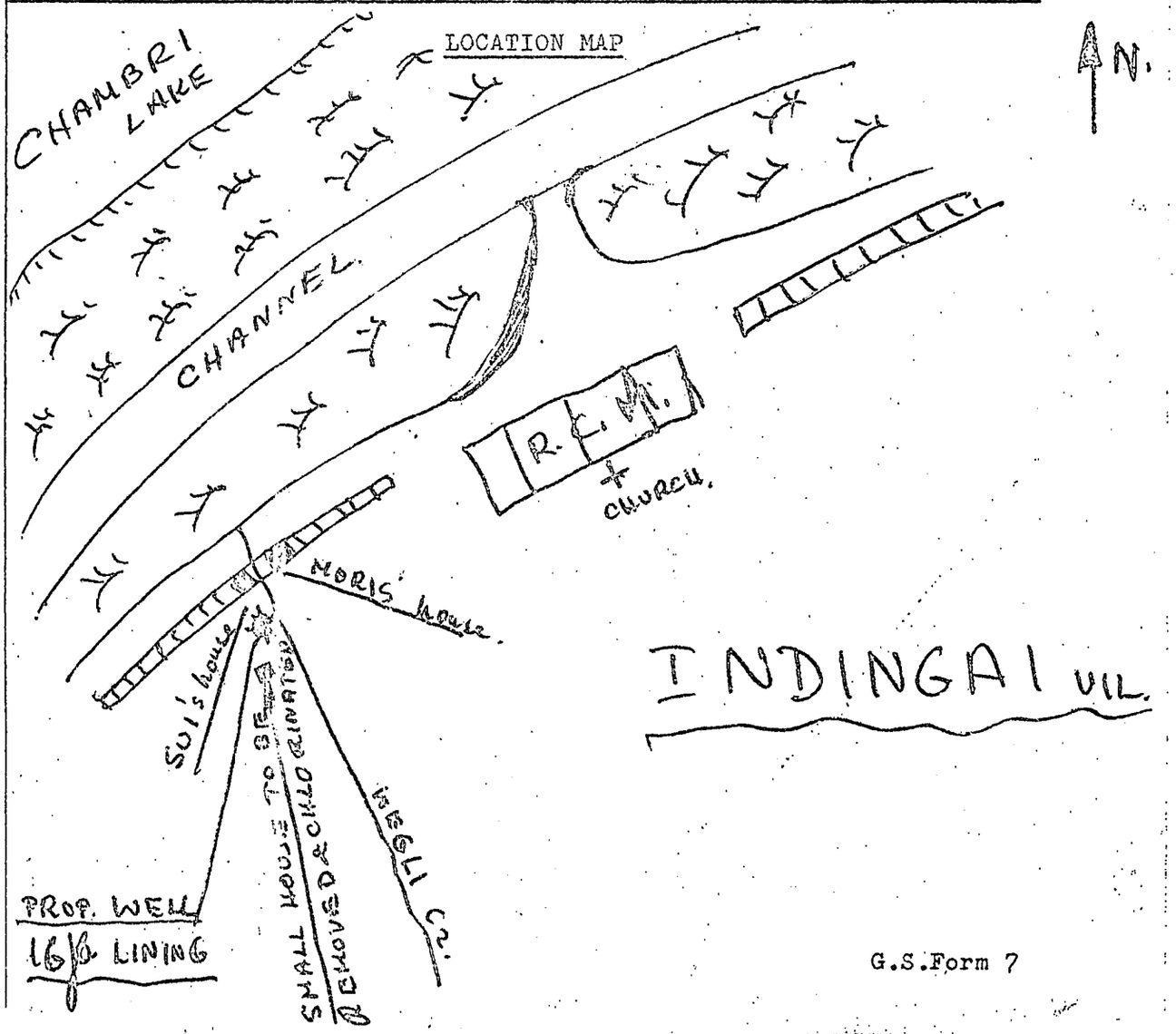
ESTIMATED COST ($) ....140.....

ALTERNATIVE SCHEME .....

.....

PRIORITY .Second..... Signed .J.R.L. Read.... Date .22/11/66.

Film 12, photos 10 & 11.

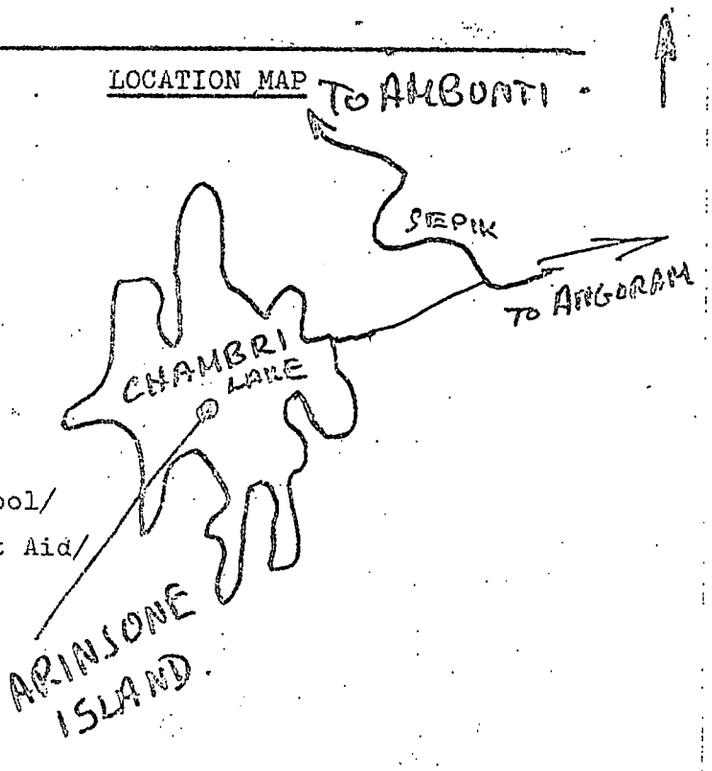


G.S.Form 7

SURVEY OF VILLAGE WATER SUPPLIES ...EAST SEPIK.....DISTRICT

VILLAGE ...ARIJONE.....
COUNCIL ...Gaui.....
CENSUS DIVISION ...Chambri Lakes.
SUB-DISTRICT ..Ambunti.....
POPULATION .85.....
ACCESS .Chambri Lake.....
.....
~~HEADMAN~~/COUNCILLOR .Kobundimi -..
.....Nvaurengai.....
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

RAINFALL .....85.....
WET SEASON From .Oct.... to .March.
TYPE ....Cham bri Lake.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION ....Nil.....
REMARKS .....
.....
.....
.....
DRY SEASON From .April... to Sept..
TYPE ...As above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP

G.S. Form 6
(Rev. 22/3/66)

SURVEY OF VILLAGE WATER SUPPLIES ..EAST SEPIK.....DISTRICT

VILLAGE .ARIJONE..... RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ..Well located between houses belonging to.. ..... ~~MANXX~~ ....GAWI & MANGAN.....

DISTANCE FROM VILLAGE .Central.....

ACCESS ...Track.....

SITE KNOWN TO.....

TYPE OF AQUIFER .Alluvium.....

DETAILS OF SCHEME ..Standard sanitary well. 4 pipes. Fibreglass.... ..Pipes to protrude 4 feet above ground level.....

.....

.....

MATERIALS REQUIRED .....As per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

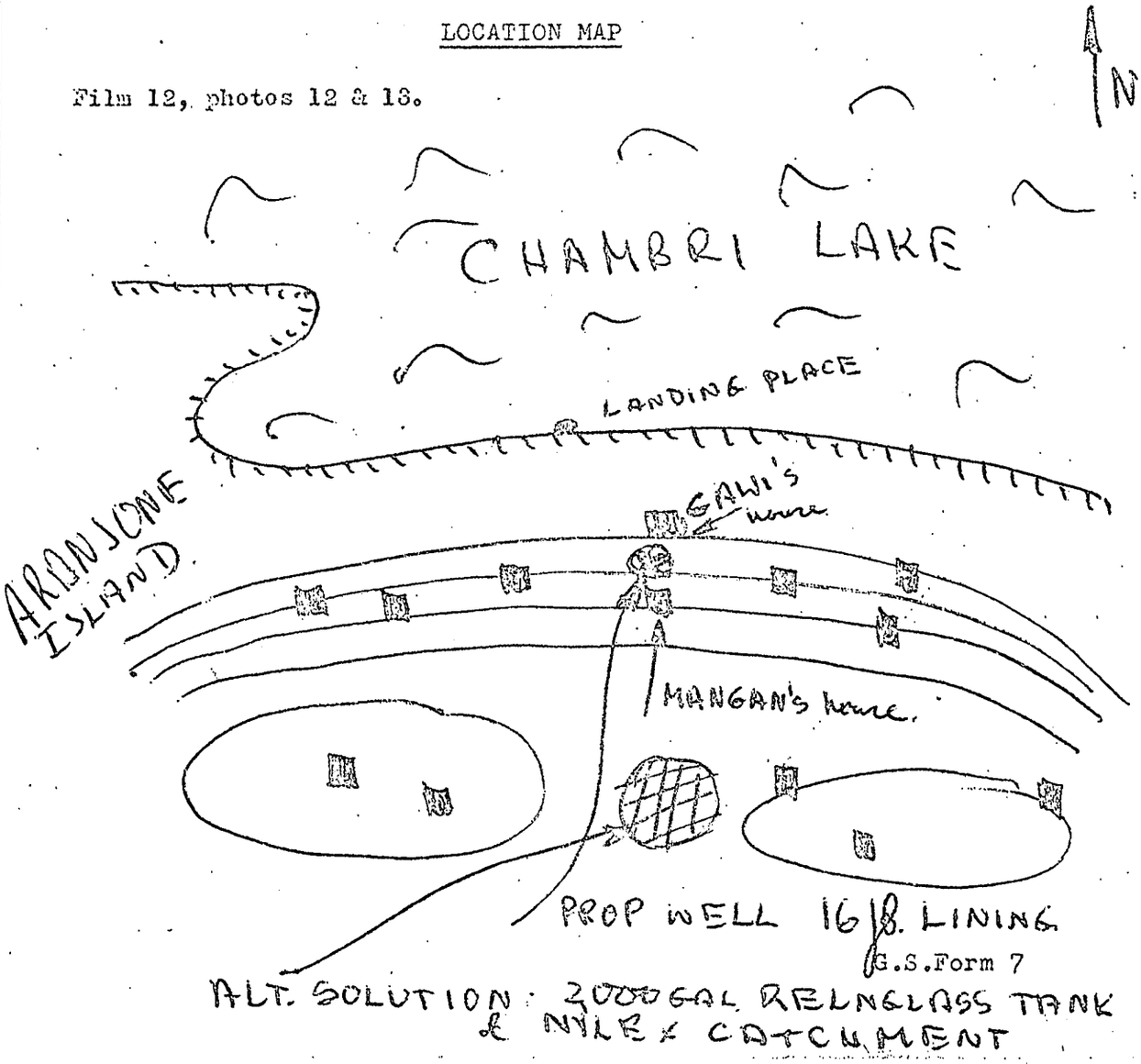
ESTIMATED COST ($) .....140.....

ALTERNATIVE SCHEME If hard, schistose bedrock encountered at shallow depth at well site replace with 1, 2000 gal. storage tank & Nylex catchment

PRIORITY .....Second..... Signed J.R.L. Read..... Date ..22/11/66

LOCATION MAP

Film 12, photos 12 & 13.

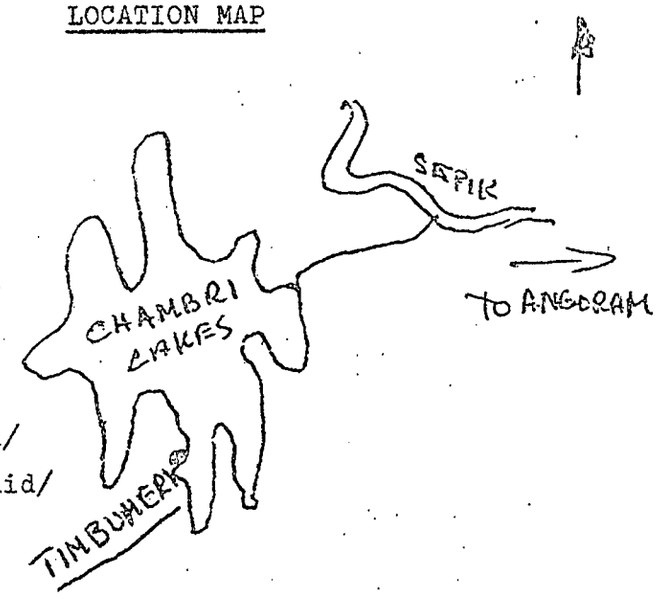


G.S.Form 7

SURVEY OF VILLAGE WATER SUPPLIES ...EAST.SEPIK.....DISTRICT

VILLAGE ...TIMBUMERI.....
COUNCIL ...Gaui.....
CENSUS DIVISION ..Chambri Lakes.
SUB-DISTRICT ...Ambunti.....
POPULATION ....179.....
ACCESS ..Chambri Lake.....
.....
HEADMAN/COUNCILLOR .Wangi - Meipel.
.....
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

RAINFALL ...65.....
WET SEASON From .Oct.... to ..March
TYPE Small stream behind village....
DISTANCE FROM VILLAGE 150.yds.....
TRANSPORT ..Track.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION ..Nil.....
REMARKS .....
.....
.....
.....
DRY SEASON From .April... to ..Sept.
TYPE .....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP

G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ....EAST.SEPIK.....DISTRICT

VILLAGE .....TIMBUMERI.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ..Existing small stream behind village.....

DISTANCE FROM VILLAGE ....150 yds.....

ACCESS .....Track.....

SITE KNOWN TO...MAIRUNGU.....

TYPE OF AQUIFER ...Sandy alluvium.....

DETAILS OF SCHEME .Standard sanitary well. 2 pipes. Fibreglass.....

MATERIALS REQUIRED .....As per standard drawing.....

LABOUR REQUIRED .....Local.....

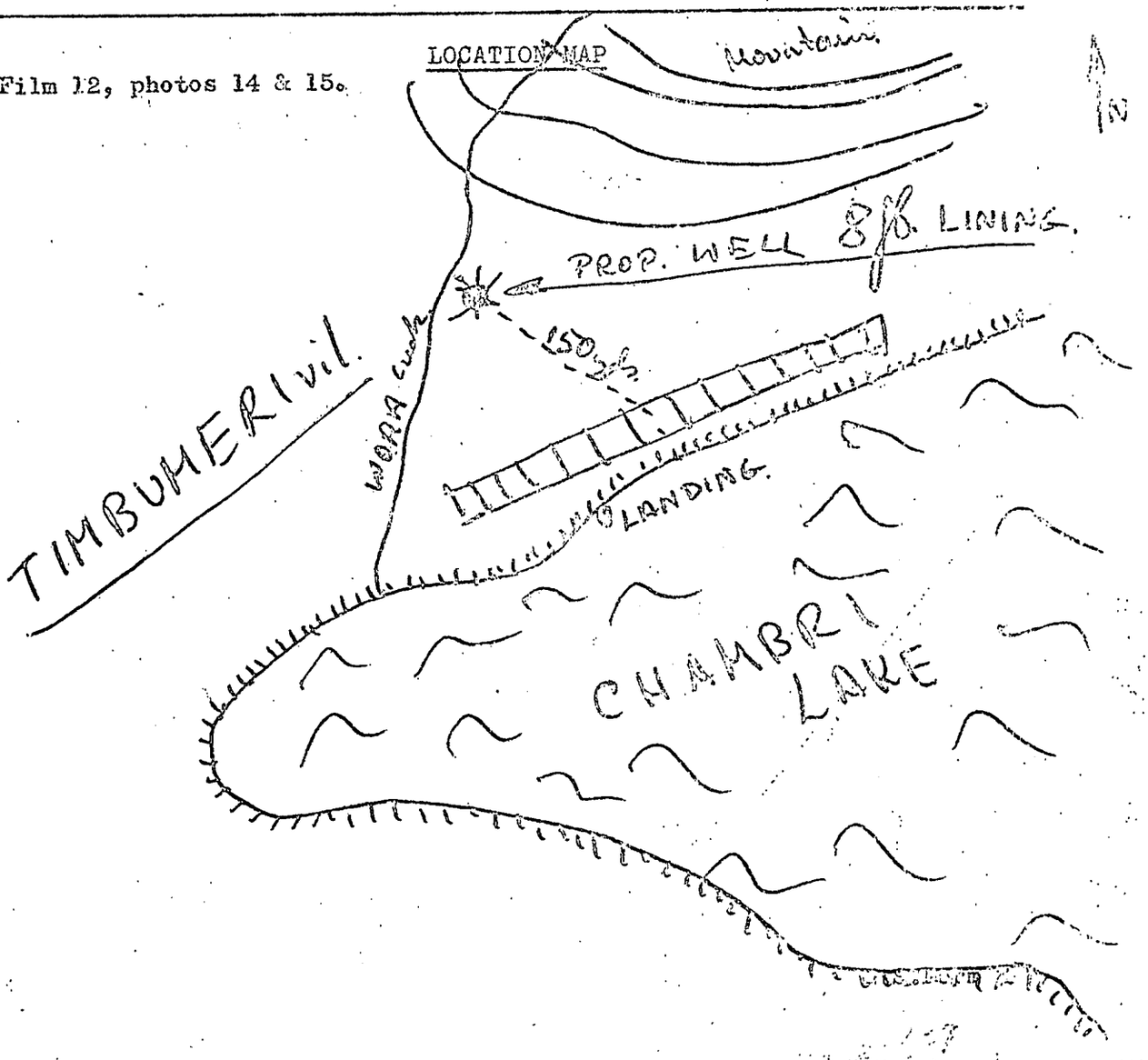
SUPERVISION .....Local.....

ESTIMATED COST ($) .....120.....

ALTERNATIVE SCHEME .....

PRIORITY ....Second..... Signed ..J.R.L. Reed.... Date .22/11/80

Film 12, photos 14 & 15.



COMMONWEALTH OF AUSTRALIA

DEPARTMENT OF NATIONAL DEVELOPMENT

BUREAU OF MINERAL RESOURCES GEOLOGY AND GEOPHYSICS

RECORDS:

1965/31

PART 3.

DETAILED RECOMMENDATIONS, EAST SEPIK DISTRICT.

(No plates)

EAST AND WEST SEPIK DISTRICTS WATER SUPPLY SURVEY.

J.R.L. Reid

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15928/65

EAST AND WEST SEPIK DISTRICTS WATER SUPPLY SURVEY

by

J.R.L. Read

RECORDS 1967/31

(IN THREE VOLUMES)

PART 1. GENERAL

PART II. DETAILED RECOMMENDATIONS, WEST SEPIK DISTRICT

PART III. DETAILED RECOMMENDATIONS, EAST SEPIK DISTRICT.

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EAST AND WEST SEPIK DISTRICTS WATER SUPPLY SURVEY

by

J.R.L. Read

RECORDS 1967/31

PART III. DETAILED RECOMMENDATIONS, EAST SEPIK DISTRICT

Contents

Wewak But Council Saussia Council	Wewak Sub-District
Yangoru Council Dreikikir Council Greater Maprik Council Wosera Council Sepik Plains Census Div.	Maprik Sub-District
Alanblak and Karawari Census Divisions Biwat Council Keram Council	Angoram Sub-District
May River, Wangamusen Upper Sepik and Main River Census Divisions Gaui Council	Ambunti Sub-District

SUMMARY OF SURVEY OF VILLAGE WATER SUPPLY - WEWAK BUT COUNCIL

VILLAGE	POPULATION	TYPE OF SCHEME	NO. OF PIPES	ESTIMATED COST $	PRIORITY	REMARKS
WOM (1)	128	Well	3	100	Second	Coral In Village
Kreer (2)				20	Second	Minor improvements to present system
Kreer Migrants (3)				20	Second	Utilisation of existing system
Kaindi No. 2 (4)	265	Well	3	100	Second	Sand. In Village
Waramin (5)	200	Well	3	100	Second	Sand. In Village
Yarapos (6)	40	Well	3	100	Second	Sand. In Village
Yauwosoru (56)		Wells & Bores				To be developed by P.W.D. and P.H.D.
Yarimul (57)		Well	3	100	Second	Sand. In Village
Sauri (58)	14					No recommendation
Smain (59)	104	Well	3	100	Second	Beach sand. In Village
Magofin (60)	498	2 wells	6	200	Second	Silt and clay. In Village
Boiken (61)	176	Well	3	100	Second	Sand. In Village
Krupier (62)		Well	3	100	Second	Alluvium. In Village
Kwabun (63)	112	2 wells	6	200	Second	Beach and dune sand. In Village
Sup (64)	158	Well	3	100	Second	Coral In village
Marai (65)	25	Catchment		200		Nylex catchment and fibreglass tank
Koragul (66)	371					No recommendation
Shagur (67)	275					No recommendation

SJB-DISTRICT .....

SUMMARY OF SURVEY OF VILLAGE WATER SUPPLIES - WEWAK BUT COUNCIL

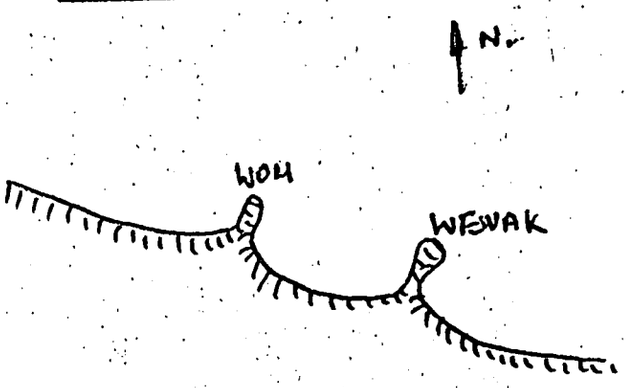
VILLAGE	POPULATION	TYPE OF SCHEME	NO. OF PIPES	ESTIMATED COST $	PRIORITY	REMARKS
Terebu (68)	83	Catchment				Complete present catchment scheme.
Toporu (69)	113	Catchment		250	Second	Nylex catchment and fibreglass tank.
Kulei (70)		Catchment		250	Second	" " " "
Forok No.1 (71)	201	Well	4	100	Second	Sandy alluvium. In Village
Mandi (72)	87	Well	3	100	Second	" " " "
New Moem (73)	63	Well	3	100	Second	" " " "
New Perigo (74)		Well	3	100	Second	" " " "
Kumbagora (75)	183	Well	2	100	Second	Silty alluvium. In Village

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ...EAST.SEPIK.....DISTRICT

VILLAGE ..WOM.....
COUNCIL ..Wewak But.....
CENSUS DIVISION ....Wewak But.....
SUB-DISTRICT ...Wewak.....
POPULATION ...128.....
ACCESS ..Boat to Wom Point.....
.....
~~HEADMAN~~/COUNCILLOR : .MAGKRU.....
.....
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation
PROJECTED DEVELOPMENT . 2% p/ann....
.....
ESTIMATED DEMAND .....

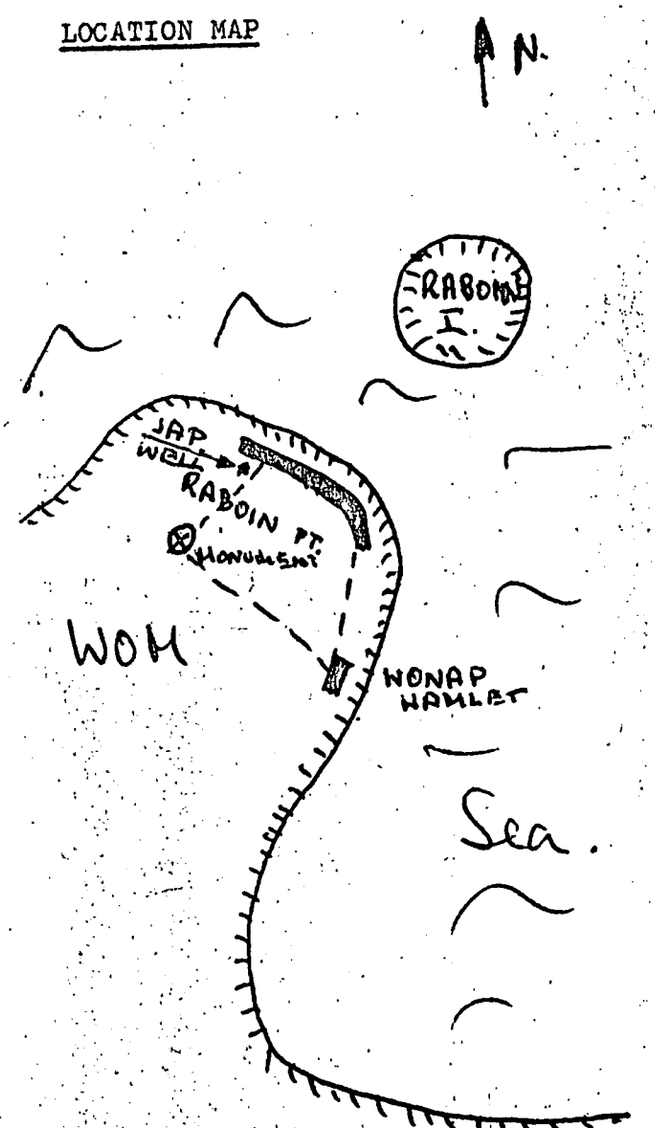
LOCATION MAP



PRESENT SUPPLY

RAINFALL .....80.....
WET SEASON From ..... to .....
TYPE ..Rainwater & wartime well.....
DISTANCE FROM VILLAGE .....
TRANSPORT ..Road.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical 1300 ppm. in well
Bactereological .....
PROTECTION ...NONE.....
REMARKS .....
.....
.....
.....
DRY SEASON From ..... to .....
TYPE ....As above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ...EAST SEPIK.....DISTRICT

VILLAGE ...WOM.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ..North end of village on flats below .....
...Catholic Mission rest house.....

DISTANCE FROM VILLAGE ...North end.....

ACCESS .....Road.....

SITE KNOWN TO..Magkru, Hutchison. (A/D.O.) & Smith (P.H.D.).....

TYPE OF AQUIFER ...Coral.....

DETAILS OF SCHEME ....Sanitary well.....

.....

.....

.....

MATERIALS REQUIRED ..As per standard drawing.....

.....

LABOUR REQUIRED ..As per standard drawing.....

SUPERVISION .....Local.....

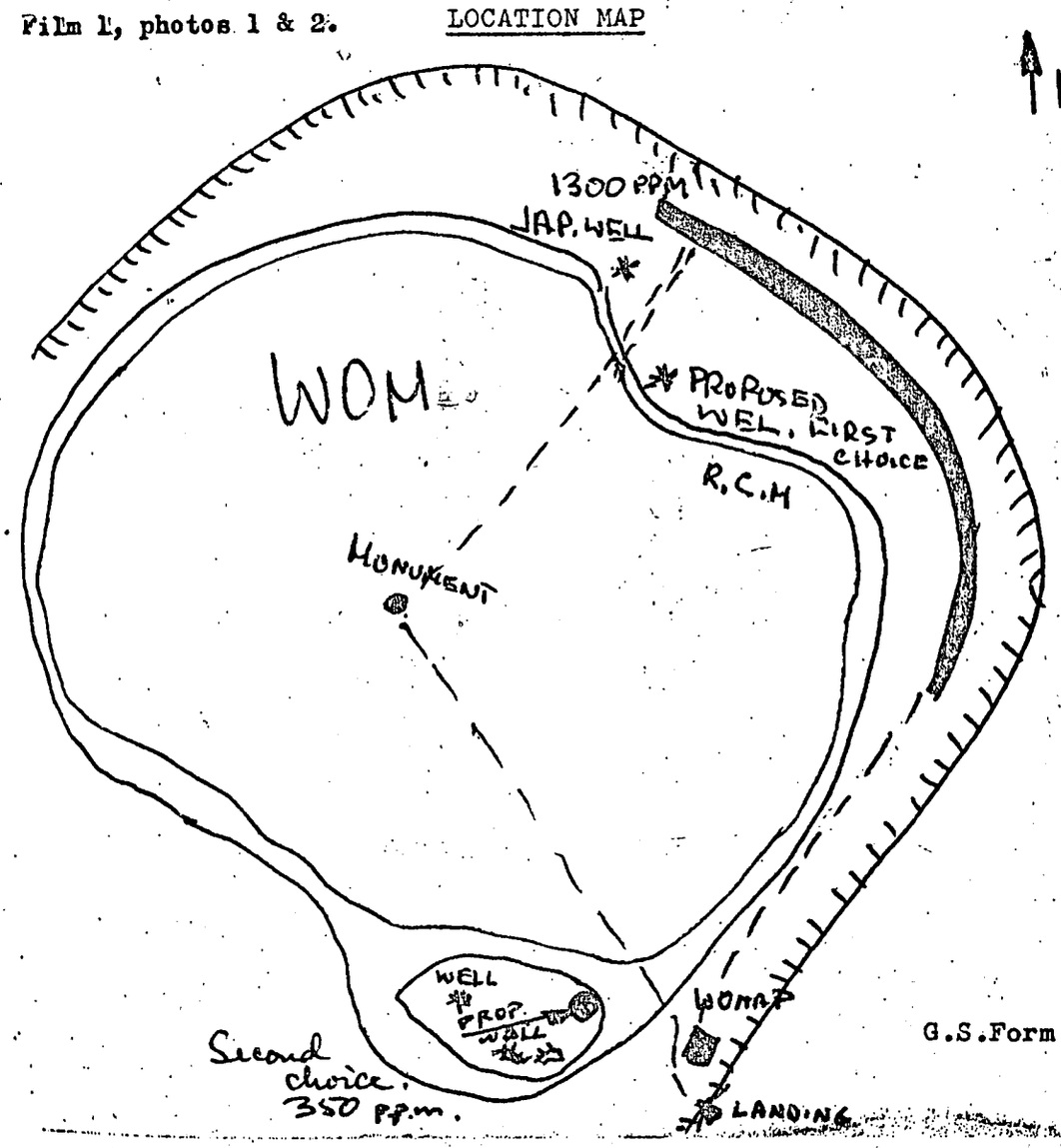
ESTIMATED COST ($) ...100.....

ALTERNATIVE SCHEME ..Sanitary well in catchment area 200' East of WONAP village. Only to be developed if population re-settled at Wonap village.

PRIORITY ..Second..... Signed ..J.R.L. Read.... Date .2/10/66

Film 1, photos 1 & 2.

LOCATION MAP



G.S.Form 7

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ...EAST SEPIK.....DISTRICT

VILLAGE ..KREER.....

COUNCIL ...Wewak Rut.....

CENSUS DIVISION ..Wewak But.....

SUB-DISTRICT Wewak .....

POPULATION .....

ACCESS .....Road.....

.....

~~CHAIRMAN~~/COUNCILLOR ..KARGAI.....

.....

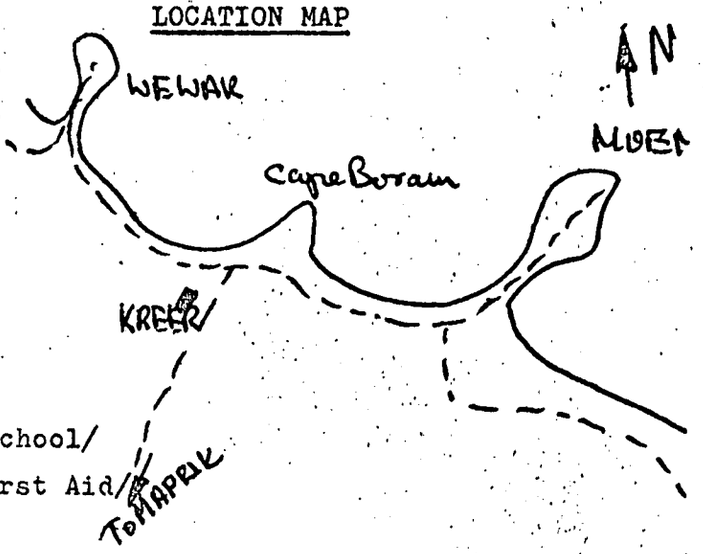
WATER USE - Domestic/Government School/ Mission/Mission School/Hospital/First Aid/ Stock/Irrigation

PROJECTED DEVELOPMENT .....

.....

ESTIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

RAINFALL .....

WET SEASON From ..... to .....

TYPE Pipeline from dammed spring...

DISTANCE FROM VILLAGE Central.....

TRANSPORT ..Road.....

YIELD/RATE OF FLOW .....

QUALITY - Chemical .....

Bactereological .....

PROTECTION ...Nil.....

REMARKS .....

.....

.....

.....

DRY SEASON From ..... to .....

TYPE ...As above.....

DISTANCE FROM VILLAGE .....

TRANSPORT .....

YIELD/RATE OF FLOW .....

QUALITY .....Chemical .....

Bactereological .....

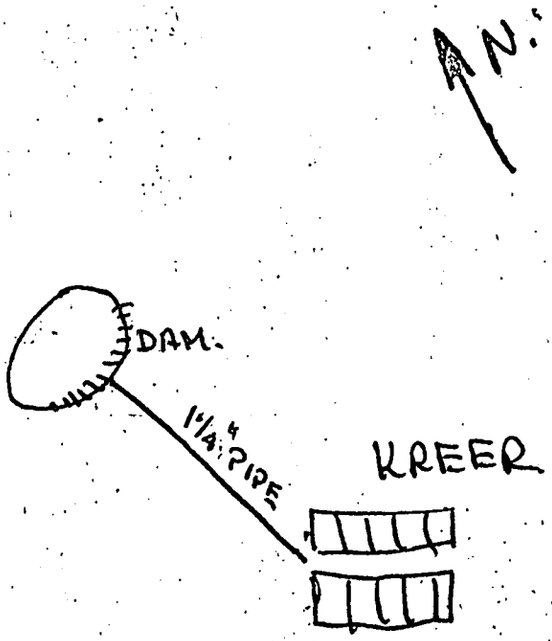
PROTECTION .....

REMARKS .....

.....

.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ... EAST SEPIK ..... DISTRICT

VILLAGE ....KREER.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ..Village central.....

.....

DISTANCE FROM VILLAGE ....Central.....

ACCESS .....Road.....

SITE KNOWN TO....KARGI, Hutchison (A/D.O.).....

TYPE OF AQUIFER ..Natural spring in alluvium.....

DETAILS OF SCHEME ...Improvement of present scheme - addition of screen . at dam outlet and provision of concrete shower slab at outlet of... . pipeline in the village.....

.....

MATERIALS REQUIRED ....See below.....

.....

LABOUR REQUIRED ....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) .....20 plus labour.....

ALTERNATIVE SCHEME .....

.....

PRIORITY .Second..... Signed ..J.R.L. Read.... Date ..2/10/66

LOCATION MAP

Film 1, photos 3 & 4.

Use existing scheme but replace gauze at the end of 4" clay pipe by the following.

(i) Southern Cross Brass Strainer Mark BZ-E size 1½". $4-00

(ii) Reducing Socket 1½" x 1¼" G.I. - $0-40

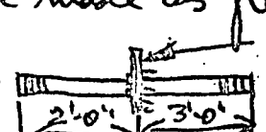
(iii) 1¼" G.I. pipe about 5 ft. long - $0-90
threaded both ends, see sketch below

(iv) Polythene to Male Iron End Connector 1¼" x 1¼" M.I. $2-50

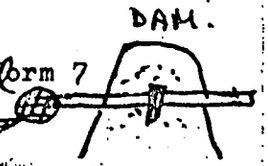
(v) Socket G.I. 1¼" $0-30

Total $9-10

The pipe item (iii) to be made as per sketch



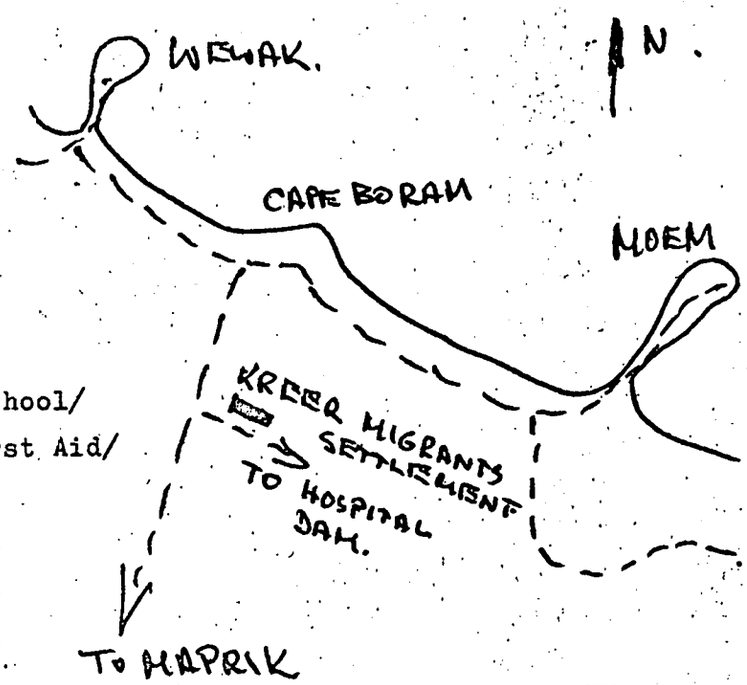
The pipe to be grouted into the dam wall



SURVEY OF VILLAGE WATER SUPPLIES ... EAST SEPIK .....DISTRICT

VILLAGE .. KREER MIGRANTS SETTLEMENT
COUNCIL .. Wewak But.....
CENSUS DIVISION .. Wewak But.....
SUB-DISTRICT . Wewak.....
POPULATION .....
ACCESS .. Road .....
.....
~~HEADMAN~~/COUNCILLOR .. KARGAI.....
.....
WATER USE - Domestic/Government School/ Mission/Mission School/Hospital/First Aid/ Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

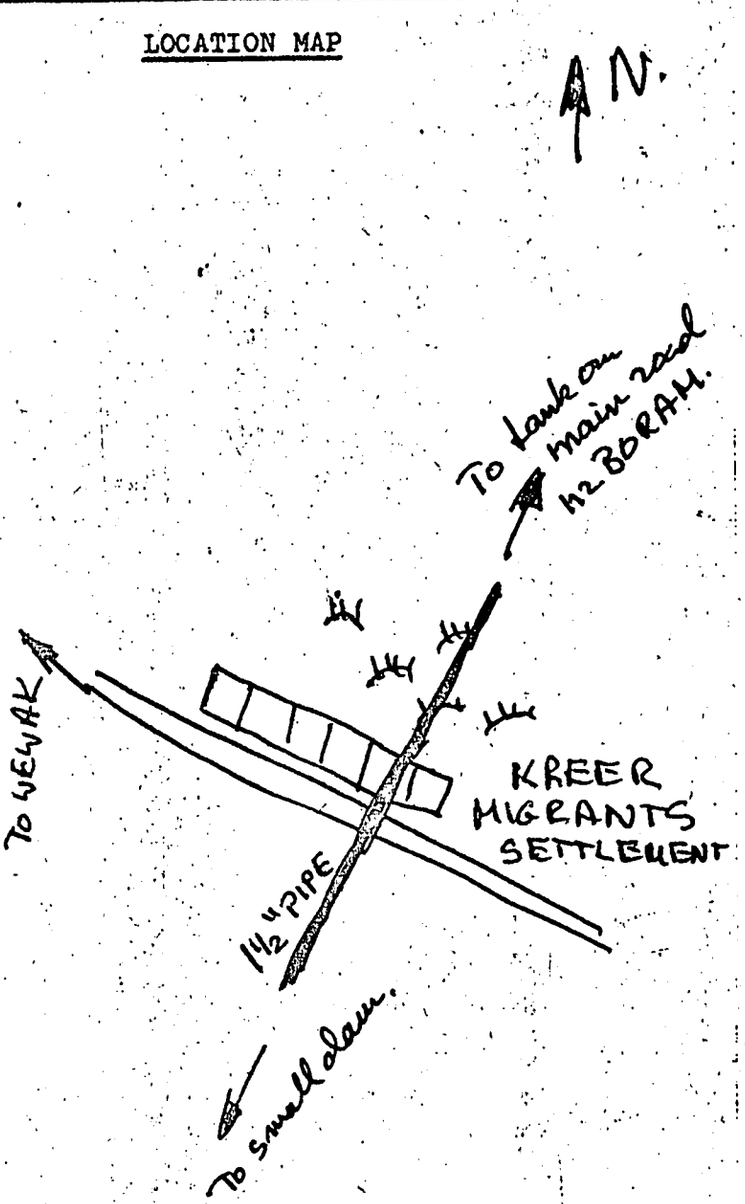
LOCATION MAP



PRESENT SUPPLY

RAINFALL .....
WET SEASON From ..... to .....
TYPE ...Rainwater.....
DISTANCE FROM VILLAGE ...Central...
TRANSPORT ..Road.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION .....Nil.....
REMARKS .....
.....
.....
.....
DRY SEASON From ..... to .....
TYPE ...As above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

TERRITORY

SURVEY OF VILLAGE WATER SUPPLIES ...EAST SEPIK.....DISTRICT

VILLAGE .KREER MIGRANTS SETTLEMENT RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ...Village Central.....

.....

DISTANCE FROM VILLAGE ....Central.....

ACCESS .....Road.....

SITE KNOWN TO...Kargai, Hutchison (A/D.O.).....

TYPE OF AQUIFER ...Natural creek.....

DETAILS OF SCHEME ...Take-off from pipeline running through centre of village drawing water supply from reservoir in creek ~~xx~~ west of village. For details of take-off see below.....

.....

MATERIALS REQUIRED ...See below.....

.....

LABOUR REQUIRED ....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) ...20 plus labour.....

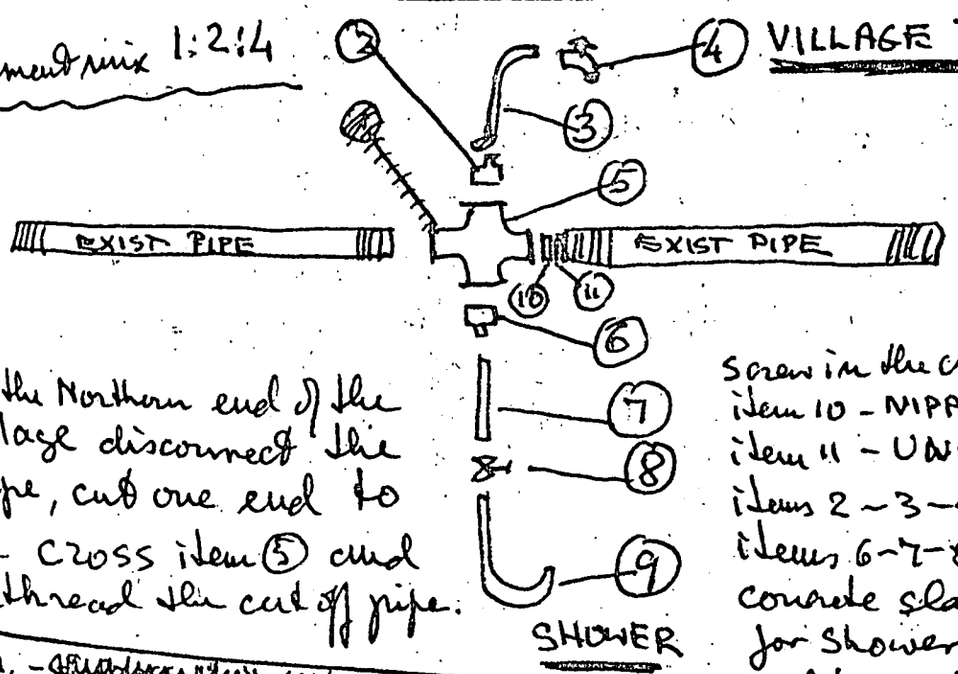
ALTERNATIVE SCHEME .....

.....

PRIORITY ..Second..... Signed ..J.R.L. Read.... Date ...2/10/66

Film 1, photos 5.

LOCATION MAP



At the Northern end of the village disconnect the pipe, cut one end to fit Cross item (5) and rethread the cut off pipe.

Screw in the cross. Then fit item 10 - NIPPLE. Then fit item 11 - UNION. Then fit items 2-3-4 Then fit items 6-7-8-9. Cast concrete slab (drained) for shower 5'6"x5'6". and for village tap 3'6"x3'6" 6in. thick.

Item 1. - ~~Headworks~~ NIL

2 - Reducing nipple 1½"x ½" G.I.
3 - G.I Pipe ½" bend forming tap outlet. About 2'6"
4. Southern Cross BIB cock ½"
5. G.I Cross 1½"
6. Reducing Nipple G.I 1½"x ¾"
7. ¾" G.I pipe 3'6".
8. Gate valve ¾"
9. ¾" G.I pipe bend by hand. 5'6" long.
10. 1½" G.I NIPPLE
11. 1½ G.I - UNION.
12 cement - 5 bags.

Estimated cost $20 + labour.

G.S.Form 7

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ...EAST SEPIK.....DISTRICT

VILLAGE ..KANDI NO.2.....

COUNCIL ..Wewak.But.....

CENSUS DIVISION ...Wewak.But.....

SUB-DISTRICT ...Wewak.....

POPULATION ...265.....

ACCESS ..Road from Wewak.....

.....

MEMBER/COUNCILLOR ..KUMASI.....

.....

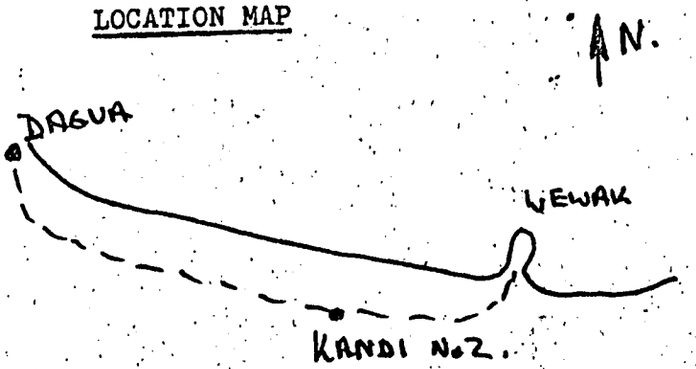
WATER USE - Domestic/Government School/ Mission/Mission School/Hospital/First Aid/ Stock/Irrigation

PROJECTED DEVELOPMENT .....

.....

ESTIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

RAINFALL .....

WET SEASON From ..... to .....

TYPE .Rainwater & soak.....

DISTANCE FROM VILLAGE ..Central....

TRANSPORT ....Road.....

YIELD/RATE OF FLOW .....

QUALITY - Chemical .....

Bactereological .....

PROTECTION ...None.....

REMARKS ..Local S.W.L. 24".....

.....

.....

.....

DRY SEASON From ..... to .....

TYPE .....As above.....

DISTANCE FROM VILLAGE .....

TRANSPORT .....

YIELD/RATE OF FLOW .....

QUALITY .....Chemical .....

Bactereological .....

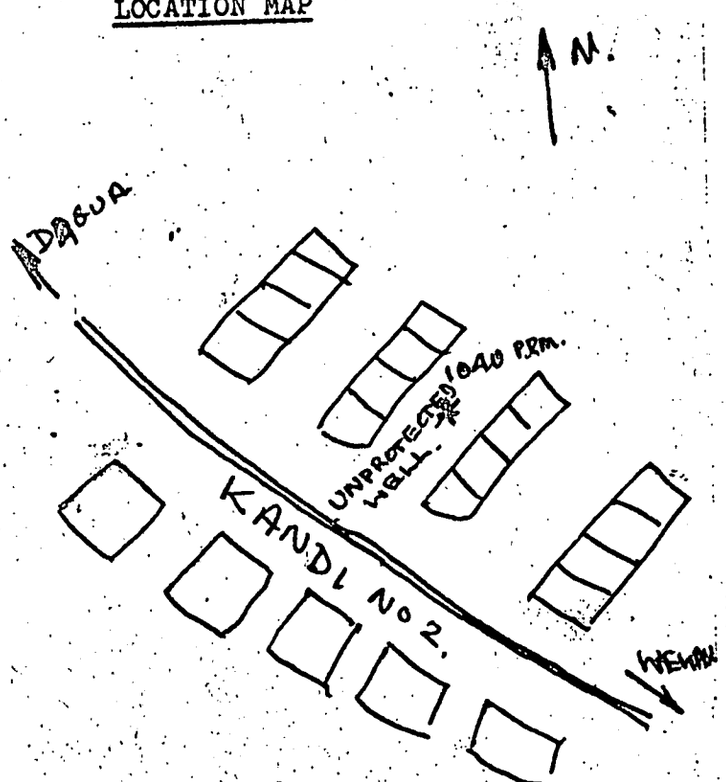
PROTECTION .....

REMARKS .....

.....

.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ....EAST SEPIK.....DISTRICT

VILLAGE ..KANDI NO. 2..... RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ..Village central.....

.....

DISTANCE FROM VILLAGE ...Central.....

ACCESS .....Road.....

SITE KNOWN TO..Kumasi, Hutchison (A/D.O.).....

TYPE OF AQUIFER ...Sand.....

DETAILS OF SCHEME ..Develop existing soak into sanitary well.....

.....

.....

.....

MATERIALS REQUIRED ..As per standard drawing.....

.....

LABOUR REQUIRED ..As per standard drawing.....

SUPERVISION ....Local.....

ESTIMATED COST ($) ....100.....

ALTERNATIVE SCHEME .....

.....

PRIORITY ..Second..... Signed ...J.B.L. Read... Date ..2/10/66

LOCATION MAP

Film 1, photos 6 & 7.

KANDI No.2.

Develop existing hole.

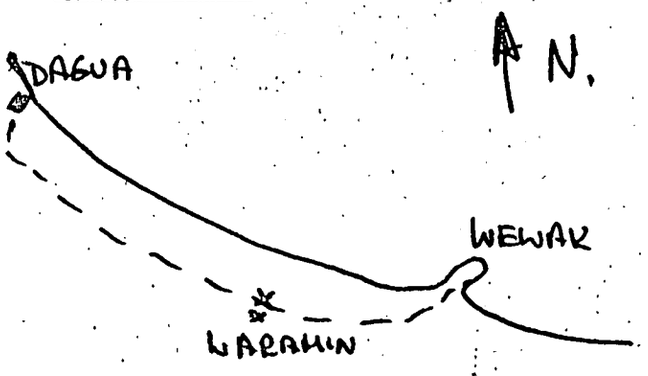
G.S.Form 7

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ....EAST SEPIK.....DISTRICT

VILLAGE ...WARAMIN.....
COUNCIL ..Wewak But.....
CENSUS DIVISION ..Wewak Butt.....
SUB-DISTRICT ..Wewak.....
POPULATION ....200.....
ACCESS . Road. 2 miles from Wewak.
.....
~~XXXXXX~~COUNCILLOR ..KUMASI.....
.....
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

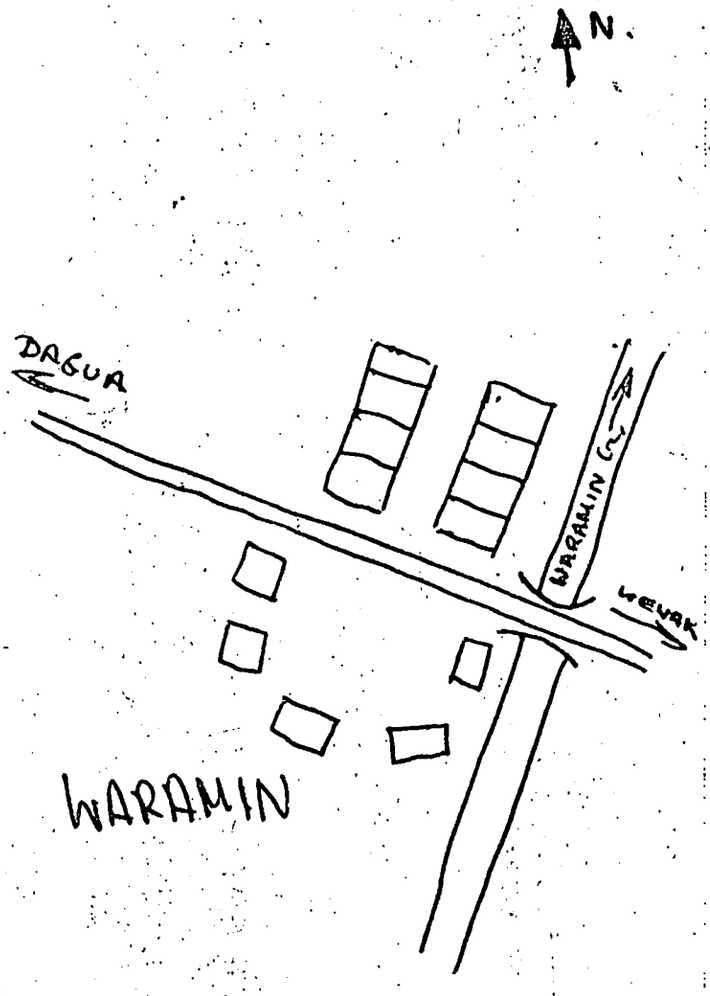
LOCATION MAP



PRESENT SUPPLY

RAINFALL ..88.....
WET SEASON From..... to .....
TYPE ...Creek.....
DISTANCE FROM VILLAGE .Central.....
TRANSPORT ..Road.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .Polluted
PROTECTION ....None.....
REMARKS .....
.....
.....
.....
DRY SEASON From ..... to .....
TYPE ...As above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES .....EAST SEPIK.....DISTRICT

VILLAGE ...WARAMIN..... RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ...Village central, 50 feet south of main road.

.....

DISTANCE FROM VILLAGE ....Central.....

ACCESS .....Road.....

SITE KNOWN TO....KUMASI, Hutchison (A/D.O.).....

TYPE OF AQUIFER .....Medium - fine grained sand.....

DETAILS OF SCHEME ..Sanitary well.....

.....

.....

.....

MATERIALS REQUIRED ...As per standard drawing. Top pipe to stand 3 feet above ~~surface~~ ground level to avoid contamination during local flooding.

LABOUR REQUIRED .....As per standard drawing.....

SUPERVISION .....Local.....

ESTIMATED COST ($) ....100.....

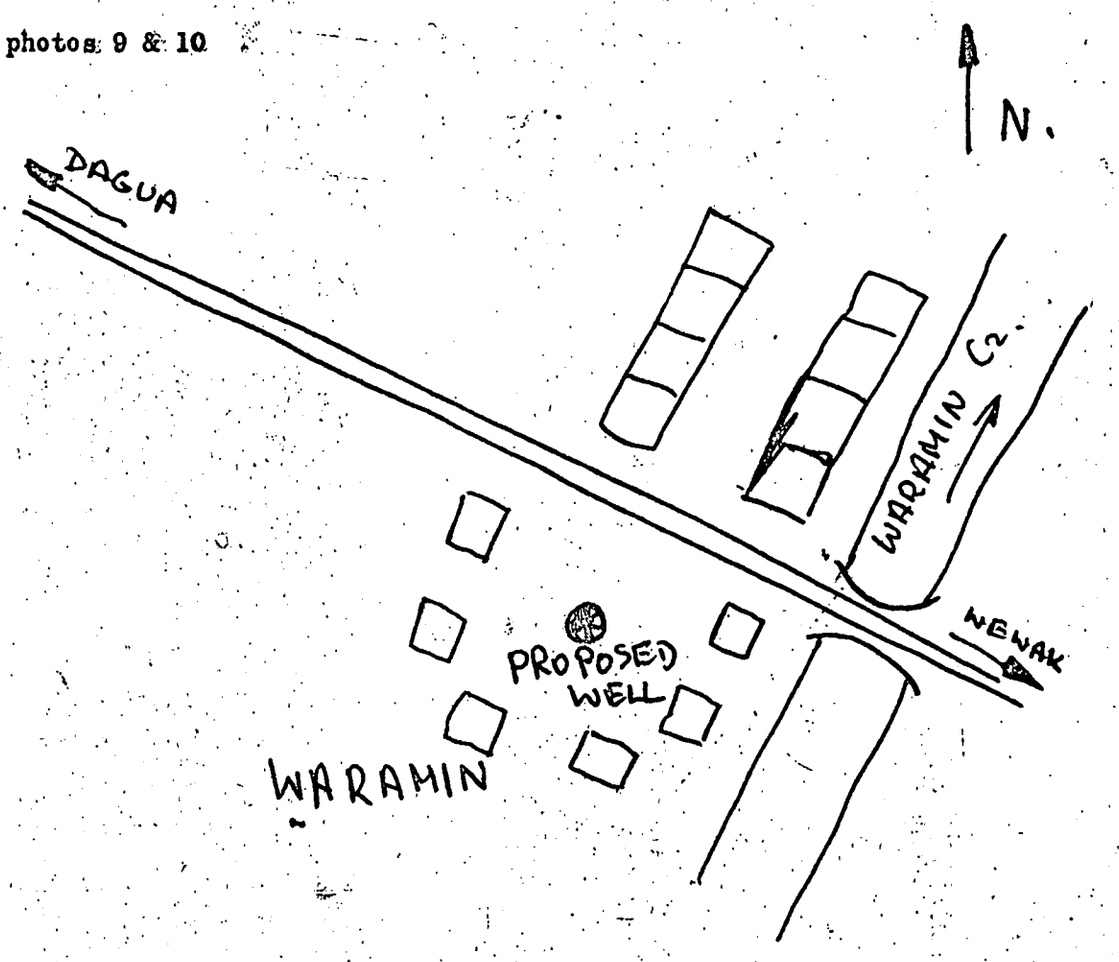
ALTERNATIVE SCHEME .....

.....

PRIORITY ...Second..... Signed ...J.R.L. Read... Date .2/10/68

LOCATION MAP

Film 1, photos 9 & 10



G.S.Form 7

TERRITORY OF PAPUA & NEW GUINEA

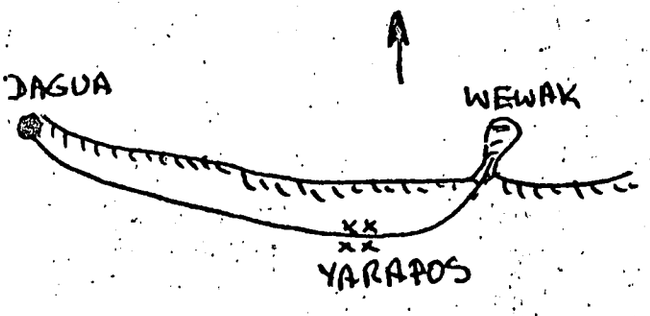
SURVEY OF VILLAGE WATER SUPPLIES ...EAST SEPIK.....DISTRICT

VILLAGE ..YARAPOS.....
COUNCIL ..Wewak But.....
CENSUS DIVISION ..Wewak But.....
SUB-DISTRICT ..Wewak.....
POPULATION ..40 + squatters.....
ACCESS .Road. 5 miles from Wewak.
.....
~~HEADMAN~~/COUNCILLOR ..YAKE.....
.....

WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation

PROJECTED DEVELOPMENT ..5% p/annum
Including squatters.....
ESTIMATED DEMAND .....

LOCATION MAP

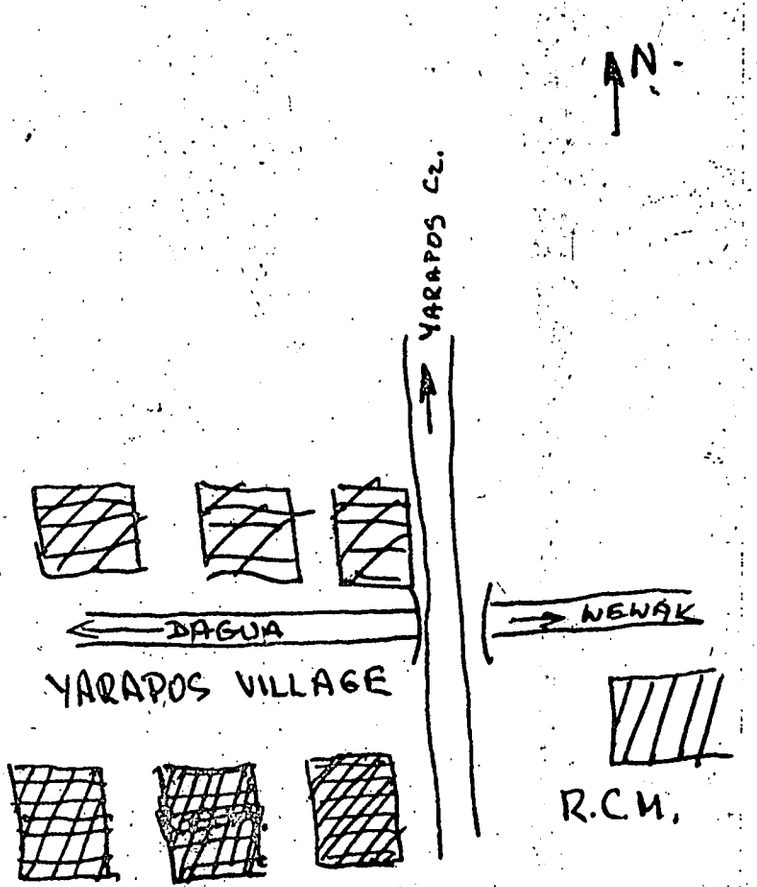


PRESENT SUPPLY

RAINFALL ...80.....
WET SEASON From ..... to .....
TYPE ....Creek.....
DISTANCE FROM VILLAGE ..½ mile.....
TRANSPORT ...Road.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .Polluted
PROTECTION ...None.....
REMARKS .....
.....
.....
.....

DRY SEASON From ..... to .....
TYPE ....As above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ...EAST SEPIK.....DISTRICT

VILLAGE ...YARAPOS.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ...East end of village, 50 feet to south of ....main road.....

DISTANCE FROM VILLAGE ....Central.....

ACCESS .....Road.....

SITE KNOWN TO..Yake, Hutchison (A/DO).....

TYPE OF AQUIFER ..Medium - fine grained sand.....

DETAILS OF SCHEME ...Sanitry well.....

.....

.....

.....

MATERIALS REQUIRED ...As per standard drawing. Top pipe to stand 3 feet ..above ground level to avoid contamination during local flooding....

LABOUR REQUIRED ...As per standard drawing.....

SUPERVISION .....Local.....

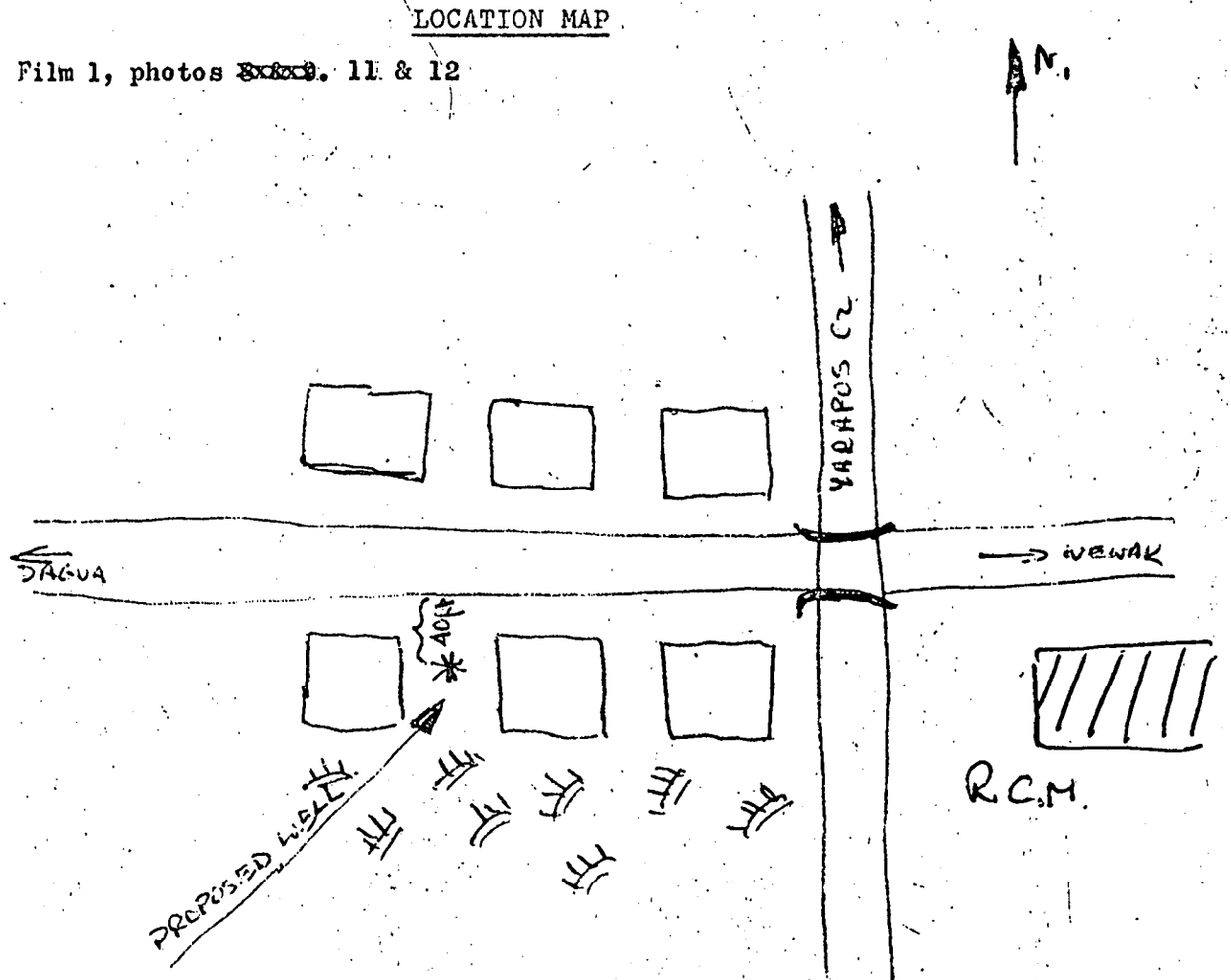
ESTIMATED COST ($) ..100.....

ALTERNATIVE SCHEME ...Rainwater from Catholic Mission located by ....road ½ mile toward Wewak.....

PRIORITY ..~~Now~~ Second..... Signed ..J.R.L. Read... Date .2/10/66

LOCATION MAP

Film 1, photos ~~8~~ 11 & 12



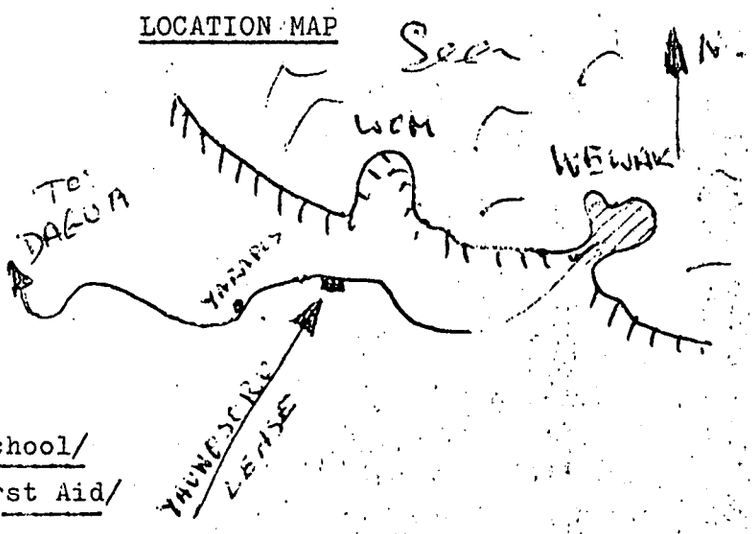
G.S.Form 7

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES .....[illegible].....DISTRICT

VILLAGE .....[illegible].....
COUNCIL .....Yeiwak Rut.....
CENSUS DIVISION ...Yeiwak Rut.....
SUB-DISTRICT ....Yeiwak.....
POPULATION .....
ACCESS .....
.....
HEADMAN/COUNCILLOR .....
.....

LOCATION MAP



WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation
PROJECTED DEVELOPMENT .Proposed....
.re-settlement scheme, ultimately 1500 people
ESTIMATED DEMAND .....

PRESENT SUPPLY

RAINFALL .....80.....
WET SEASON From .Nov.... to ..April
TYPE .....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....
.....
DRY SEASON From ..Nov.... to ..Oct.
TYPE .....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP

See Sub-division plan.

G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ..[illegible].....DISTRICT

VILLAGE ....[illegible]..([illegible])..

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ...As directed by P.H.D.....

.....

DISTANCE FROM VILLAGE ....Central.....

ACCESS .....Road.....

SITE KNOWN TO.....Richardson. (D.D.A.), Smith (P.H.D.).....

TYPE OF AQUIFER ...Silty. sand.....

DETAILS OF SCHEME In 2 stages. (i). Initially .2 standard sanitary. wells ..as directed by P.H.D. & as. re-settlement progresses (ii), at least. 3 .bores. connected to a gravity. feed. tank & associated reticulated..... .water. supply. Reticulated system. to be designed by P.H.D.....

MATERIALS REQUIRED .....

.....

LABOUR REQUIRED .....

SUPERVISION .....

ESTIMATED COST ($) .....

ALTERNATIVE SCHEME .....

.....

PRIORITY ..... Signed J.R.L. Read..... Date 17/10/66

LOCATION MAP

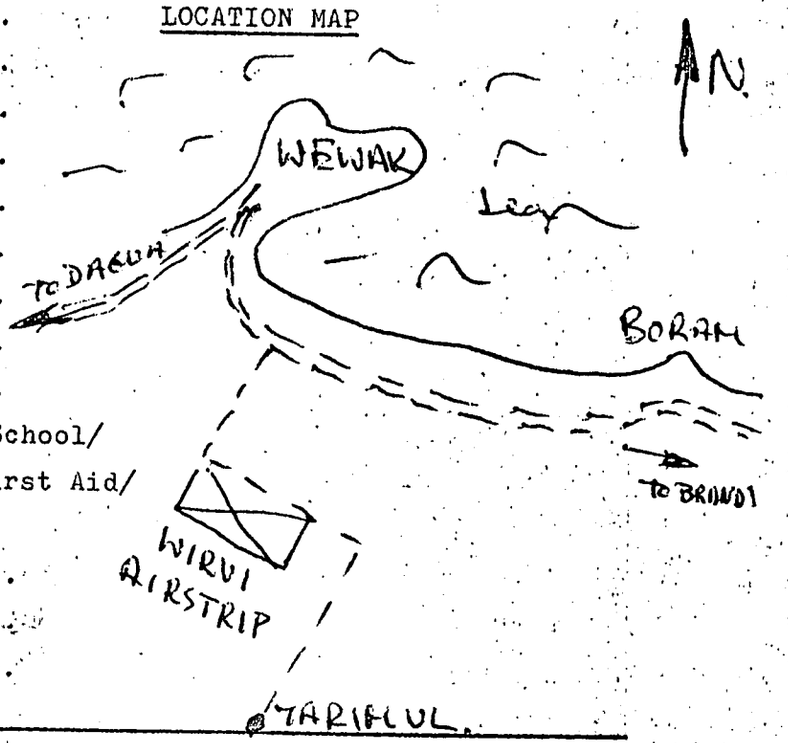
G.S.Form 7

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES .....Y..RIL.....DISTRICT

VILLAGE ...YARIWL.....
COUNCIL ..Dewak Int.....
CENSUS DIVISION ..Wewak Int.....
SUB-DISTRICT .....Wewak.....
POPULATION .....
LOCATION ....oad.....
.....
VILLAGE HEADMAN/COUNCILLOR Nerigu.....
.....
PRESENT USE - Domestic/Government School/
Administration/Mission School/Hospital/First Aid/
Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

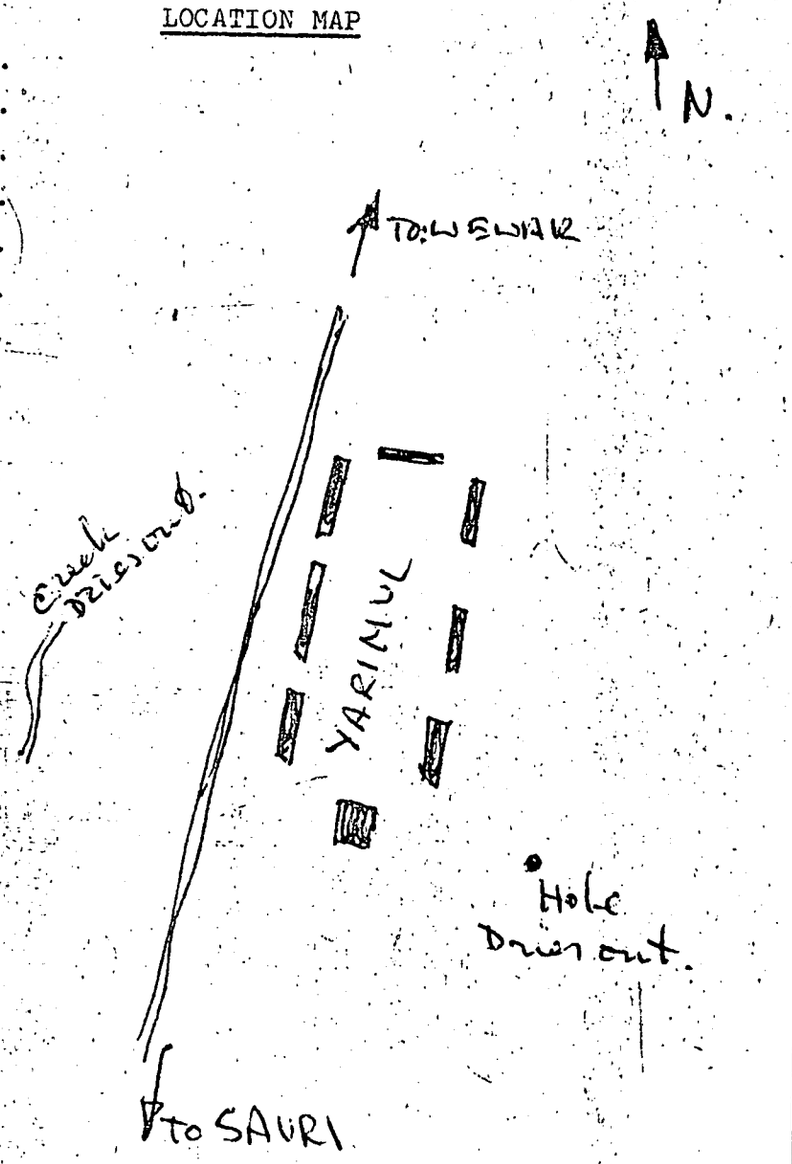
LOCATION MAP



PRESENT SUPPLY

RAINFALL .....80.....
DRY SEASON From ..Nov... to .April.
USE ..Rainwater & soak.....
DISTANCE FROM VILLAGE ...2-3 mins..
TRANSPORT ...Track.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
INFECTION .....Nil.....
REMARKS .....
.....
.....
.....
WET SEASON From .May..... to .Oct..
USE ....As above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
INFECTION .....
REMARKS ...Soak dry in dry season.
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ....EAST SEPIK.....DISTRICT

VILLAGE .....YARIMUL.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ...50 east of central village margin.....

.....

DISTANCE FROM VILLAGE .....50 feet.....

ACCESS .....Track.....

WATER KNOWN TO...Serigu, Richardson (D.D.A.), Smith (D.H.D.).....

TYPE OF AQUIFER ....Sand.....

DETAILS OF SCHEME ....Standard sanitary well.....

.....

.....

.....

MATERIALS REQUIRED ....As per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) .....100.....

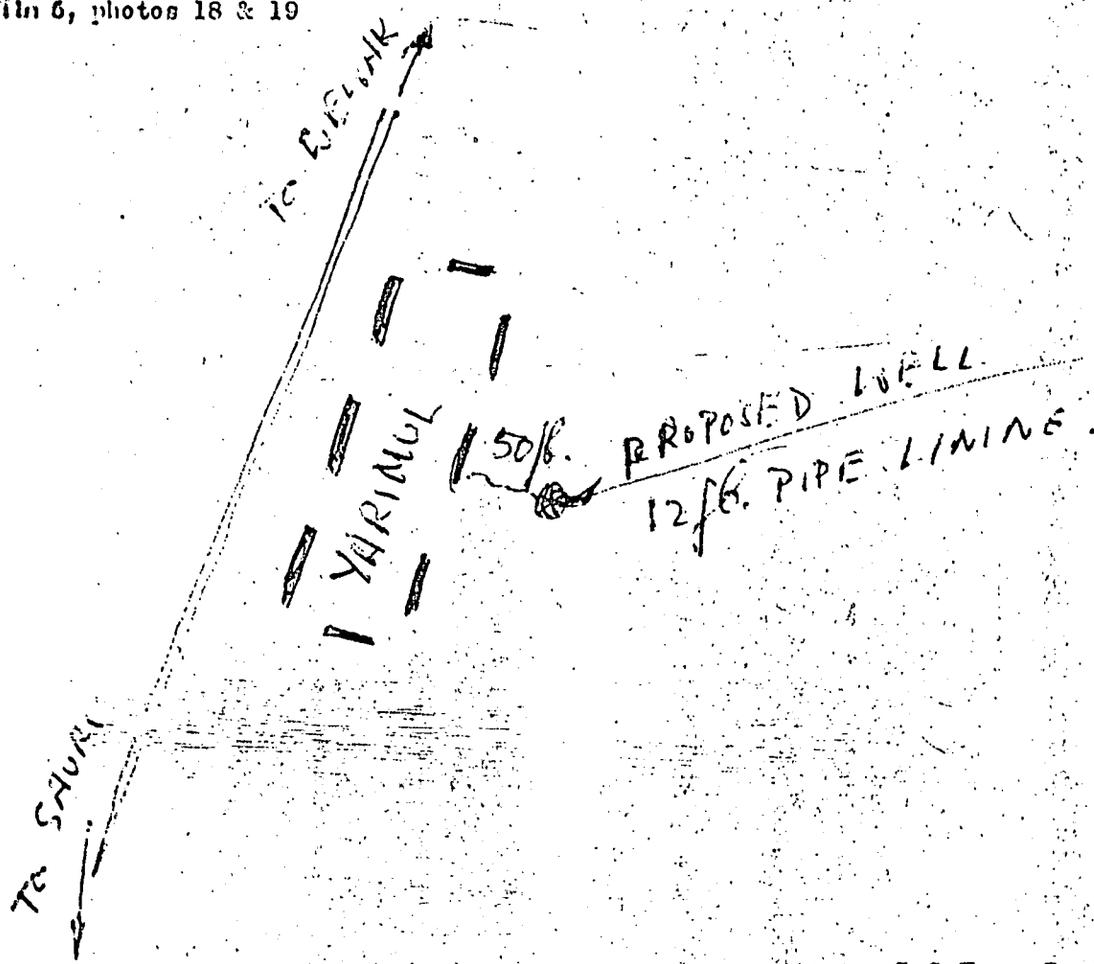
ALTERNATIVE SCHEME .....

.....

PRIORITY ..Second..... Signed ..J.R.L..Read.... Date 17/10/66

LOCATION MAP

Film 6, photos 18 & 19



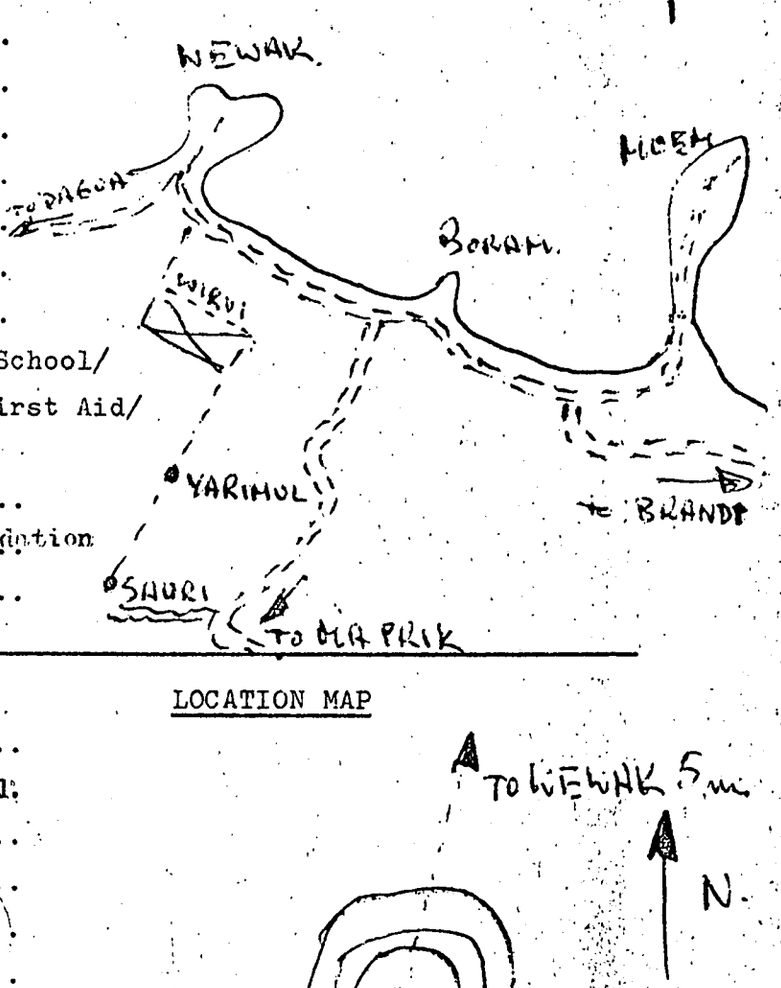
G.S.Form 7

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES .....T..RIK.....DISTRICT

...AGE .....
...SH .....
...S DIVISION .....
...DISTRICT .....
...LATION .....
...S .....
.....
...AN/COUNCILLOR .....
.....
...USE - Domestic/Government School/
.../Mission School/Hospital/First Aid/
.../Irrigation
...TED DEVELOPMENT Population...
... from village - no recommendation
...MATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

...FALL ...30.....
... SEASON From Nov.... to .April
...E ...Rivulet.Creek.....
...TANCE FROM VILLAGE ..10 mins....
...SPORT ...Track.....
...LD/RATE OF FLOW .....
...ITY - Chemical .....
Bactereological .....
...UCTION ....Nil.....
...MARKS .....
.....
.....
.....
... SEASON From May..... to ..Oct.
...E ...As above.....
...TANCE FROM VILLAGE .....
...SPORT .....
...LD/RATE OF FLOW .....
...ITY .....Chemical .....
Bactereological .....
...UCTION .....
...MARKS ...Creek dry in dry season..
.....
.....
...5, photo 17

LOCATION MAP

G.S. Form 6
(Rev. 22/8/66)

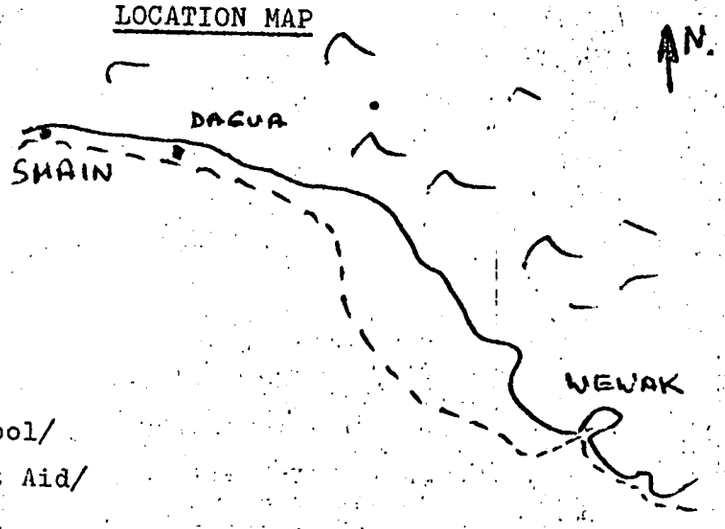
TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ..EAST.SEPIK.....DISTRICT

VILLAGE ...SAIN.....
COUNCIL ...Vevak.But.....
LOCAL GOVT DIVISION ...Vevak.But.....
SUB-DISTRICT .....Vevak.....
POPULATION .....104.....
ACCESS ...Road.&.track.....
.....
NAME OF HEADMAN/COUNCILLOR .Phillip.....
.....

WATER USE - Domestic/Government School/
Native/Mission School/Hospital/First Aid/
Stock/Irrigation
PROPOSED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

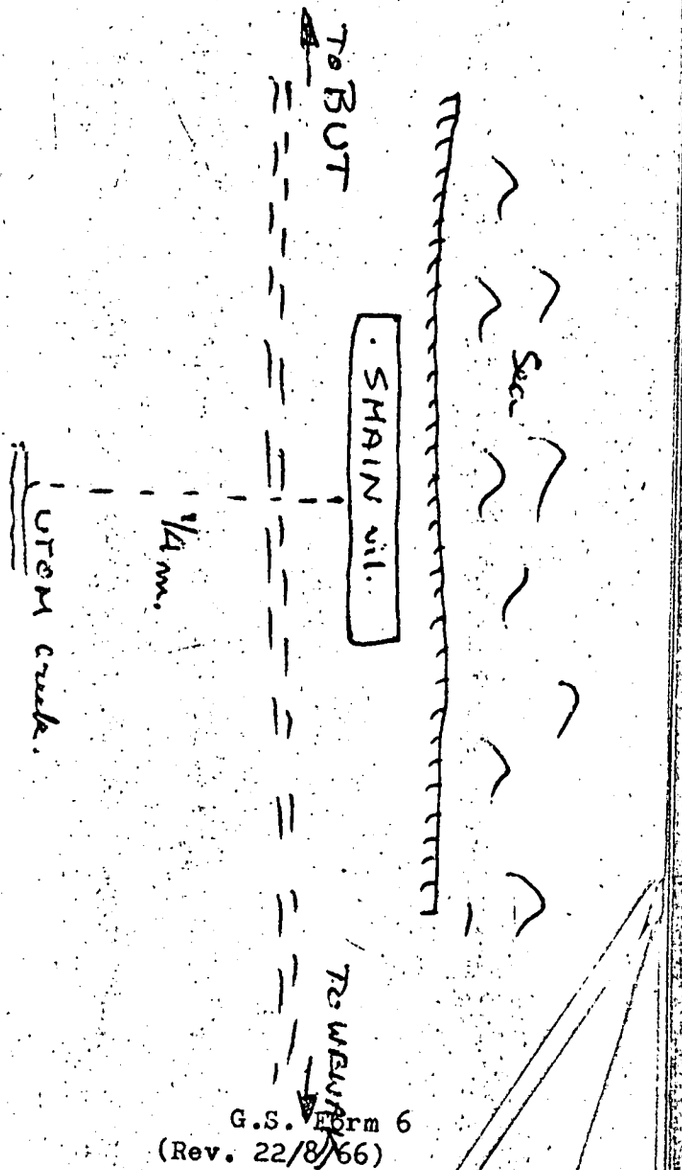
LOCATION MAP



PRESENT SUPPLY

WELL .....80.....
SPRING From ..Nov... to ..April
..Rainwater & small creek.....
DISTANCE FROM VILLAGE ..¼ mile.(Ck.)
ACCESS ...Track.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION ...Nil.....
REMARKS ...Water flow in creek.....
..2 gal/min on day inspected.....
.....
.....
DRY SEASON From .May..... to .Oct..
AS ABOVE .....As.above.....
DISTANCE FROM VILLAGE .....
ACCESS/TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ....EAST SEPIK.....DISTRICT

VILLAGE ....SIAIN.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY Sanitary well - central inland margin of village, Small dam ½ mile from village at waterfall in Utom creek.....

DISTANCE FROM VILLAGE .Well - central, Dam - ½ mile.....

ACCESS ....Road & track.....

SITE KNOWN TO..Phillip, Richardson (D.D.A.).....

TYPE OF AQUIFER ..Beach sand.....

DETAILS OF SCHEME .Standard sanitary well.....

.....

.....

.....

MATERIALS REQUIRED .....As per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

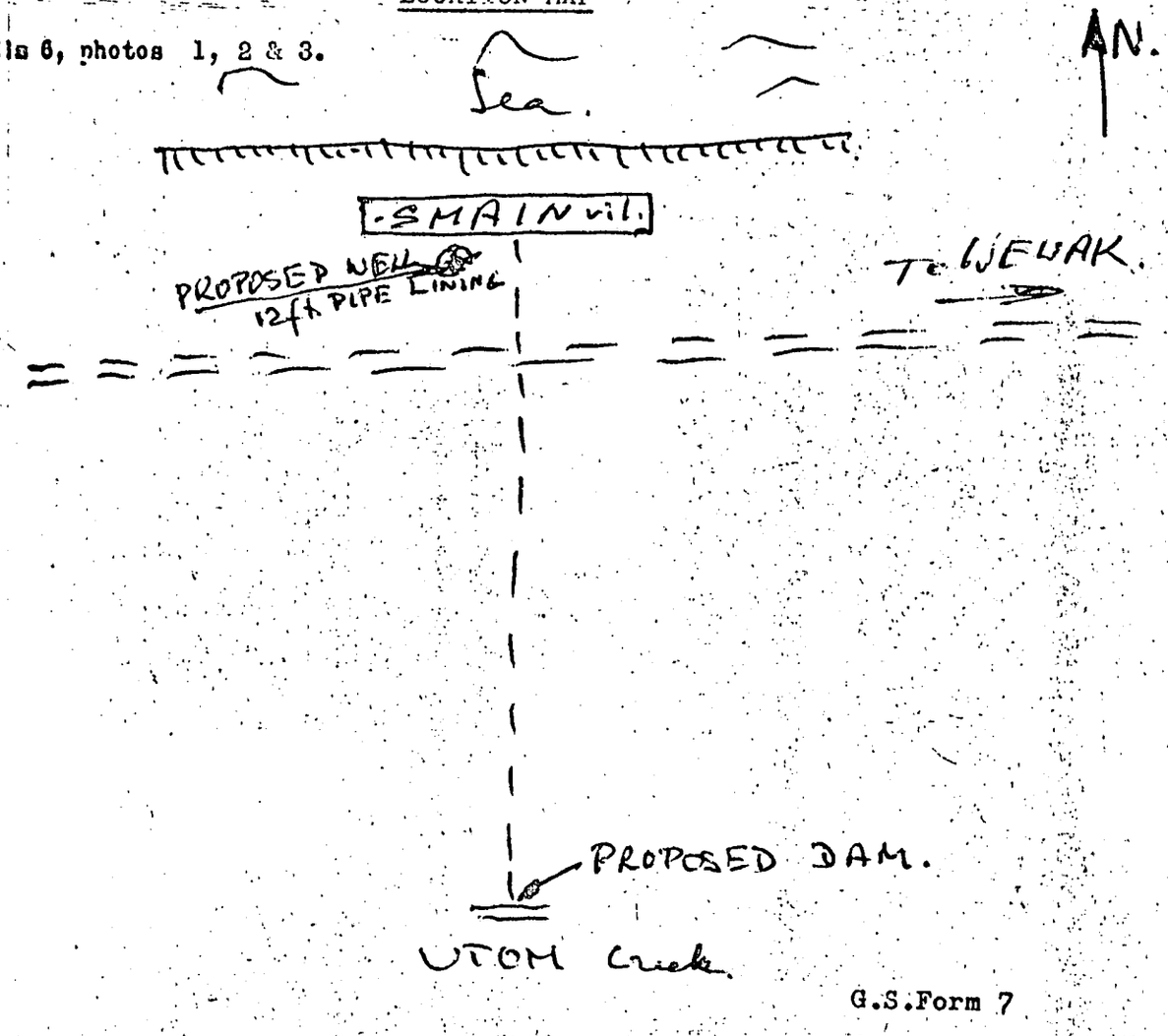
ESTIMATED COST ($) ....100.....

ALTERNATIVE SCHEME Reticulated supply from small dam in Utom creek. - for details see attached drawing.....

PRIORITY ..Second..... Signed .J.R.L. Read..... Date .18/10/66

LOCATION MAP

File 6, photos 1, 2 & 3.



G.S.Form 7

SMAIN VILLAGE

UTOM CREEK WATER SCHEME

TOTAL FT.	SECTION FT.	% GRADIENT	SECTION HEIGHT FT.	TOTAL HEIGHT FT.	REMARKS
-	-	-	-	-	Dam site
90	90	- 9½	- 8.5	- 8.5	
158	68	-11½	- 7.5	-16.0	
244	86	- 9	- 7.7	-23.7	
334	90	- 5½	- 5.0	-28.7	
409	75	-17	-12.7	-41.4	
509	100	- 6.5	- 6.5	-47.9	
609	100	- 9.5	- 9.5	-57.4	
709	100	- 8.5	- 8.5	-65.9	
809	100	- 3.5	- 3.5	-69.4	
909	100	- 4.5	- 4.5	-73.9	
1009	100	- 4.5	- 4.5	-78.4	
1109	100	- 4	- 4	-82.4	
1209	100	+ 2	+ 2	-80.4	Village outlet

Flow 2 G.P.M.

Storage in village essential.

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ...EAST SEPIK.....DISTRICT

VILLAGE ..MAGOFEN.....

LOCALITY ..Yenuk But.....

ADMINISTRATIVE DIVISION ..Yenuk But.....

ELECTORATE ..Yenuk.....

POPULATION ...ADB.....

LANGUAGE ..Ward.....

.....

LOCAL GOVT. COUNCILLOR .Lanagia.....

.....

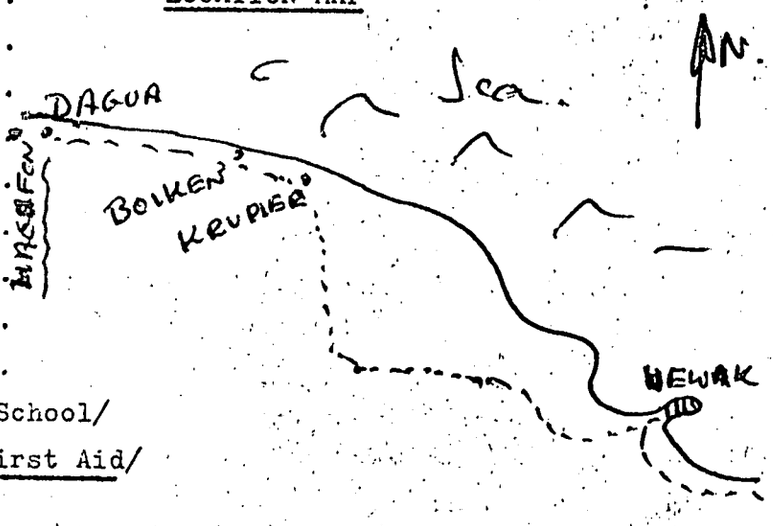
SERVICES - Domestic/Government School/
Mission School/Hospital/First Aid/
Irrigation

PROPOSED DEVELOPMENT .....

.....

ESTIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

TYPE(S) .....BD.....

SEASONAL From .Nov.... to April.

SOURCE .Rainwater & small creek.....

DISTANCE FROM VILLAGE .½ mile (Clk.).

ACCESS ....Track.....

RATE OF FLOW .....

QUALITY - Chemical .....

Bacteroological .....

CONDITION ..Nil.....

.....

.....

.....

.....

SEASON From ..May.... to ..Oct.

.....As above.....

DISTANCE FROM VILLAGE .....

ACCESS .....

RATE OF FLOW .....

QUALITY .....Chemical .....

Bacteroological .....

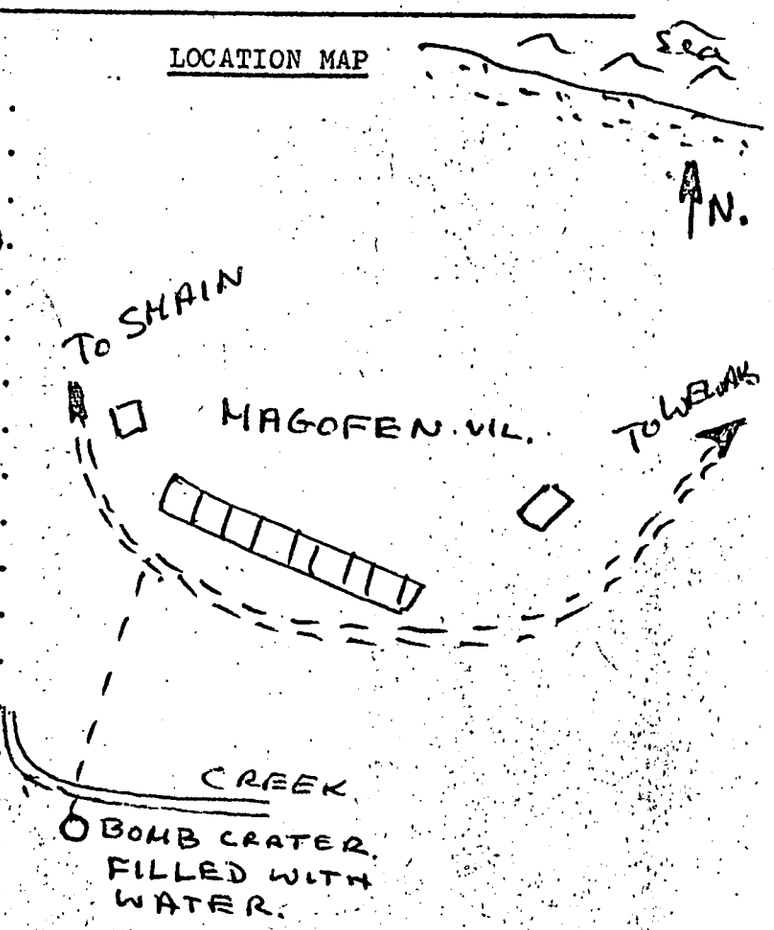
CONDITION .....

.....

.....

.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

REPORT OF VILLAGE WATER SUPPLIES .... EAST SEPIK ..... DISTRICT

VILLAGE .... MAGOFEN .....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ...Eastern end of village beside House Clinic...
Alternate Eastern end of village beside house belonging to Kilarwi .....

DISTANCE FROM VILLAGE ..East & west central.....

ACCESS ...Track.....

SITE KNOWN TO..Richardson (D.D.A.)...Joseph & James (L.G.C. well sinkers)

TYPE OF AQUIFER ...Alluvium.....

DETAILS OF SCHEME ...2 standard sanitary wells. Well sites to be.....
covered and water sampled & tested before wells are constructed...
.....
.....

MATERIALS REQUIRED ..As per standard drawing.....
.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

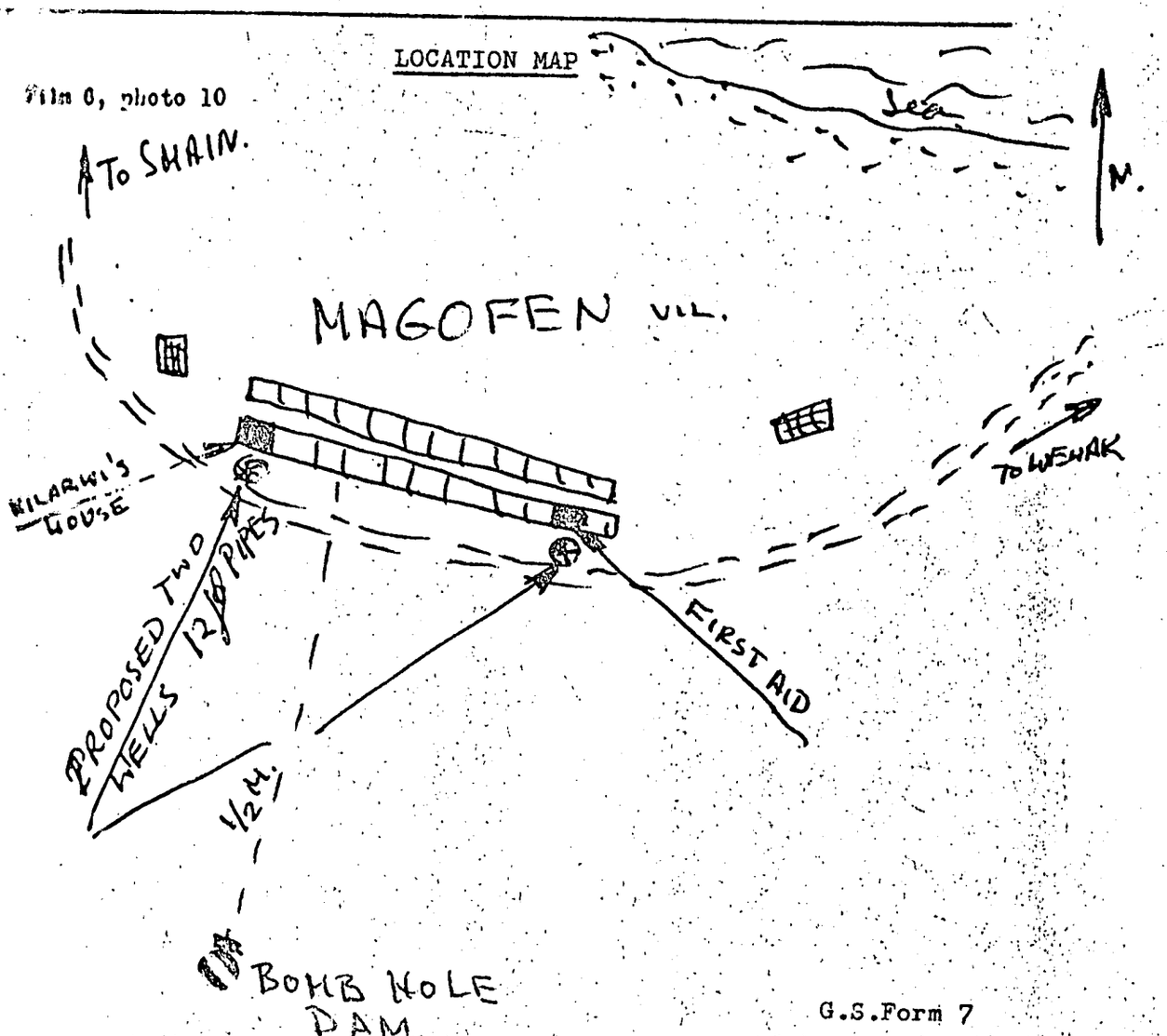
ESTIMATED COST ($) .....200.....

ALTERNATIVE SCHEME Reticulated supply from small dam in creek ½ mile S. of village - for details see attached drawing.....

PRIORITY ....Second..... Signed .J.R.L.Read..... Date .18/10/66

LOCATION MAP

Film 6, photo 10



G.S.Form 7

MAGAFON

CONSTRUCTION NOTES

Excavate bomb hole rim down to bedrock. Clean bottom and cast the dam as shown on the drg. The length of the dam should be about 10 ft. Cover the concrete dam with the excavate so that the wall beds well into the sides of the bomb hole. Fence off the bomb hole site to prevent pollution by people and pigs.

Outlet

Provide a concrete slab 4 in. thick. Cast the support into the slab. Provide a bush materials wall.

Tap.

Cast a concrete rock stand one foot high. Remember that the tap must be unobstructed at the bottom so that a bucket can be filled without using pipe extension. These are no good, as children stand on them and not only break the pipe, but also the tap fitting.

Total materials cost $650.

MAGAFON

WATER SCHEME

TOTAL DIST. FT.	SECTION FT.	% GRADE	SECTION HEIGHT FT.	TOTAL ELEV-ATION	REMARKS
20	20	-10	- 2	- 2	Dam at the Bomb Hole
120	100	+ 5	+ 5	+ 3	
177	57	+ 3	+ 1.7	+ 4.7	
277	100	- 3	- 3 5	+ 1.2	
377	100	- 4.5	- 4.5	- 3.3	
477	100	- 6.5	- 6.5	- 9.6	
577	100	- 9.5	- 9.5	-19.3	
677	100	- 6	- 6.0	-25.3	
777	100	- 5.5	- 5.5	-30.8	
877	100	- 5.5	- 5.5	-36.3	
977	100	-11.0	-11.0	- 47.3	
1077	100	-10.5	-10.5	-57.8	
1177	100	- 2	- 2.0	-59.8	
1276	99	- 1	- 1.0	-60.8	
1376	100	+ 0.5	+ 0.5	-60.3	
1476	100	0	0	-60.3	
1576	100	+ 1.5	+ 1.5	-58.8	
1676	100	+ 1.5	+ 1.5	-57.3	
1776	100	- 4.5	- 4.5	-61.8	
1876	100	+ 2	+ 2.0	-59.8	
1976	100	- 1	- 1.0	-60.8	
2076	100	- 0.75	- 0.75	-61.5	
2176	100	- 0.5	- 0.5	-62.0	
2276	100	0	0	-62.0	
2341	65	0	0	-62.0	
2441	100	0	0	-62.0	
2541	100	+ 2.5	+ 2.5	-59.5	
2548	7	-	+ 7.0	-52.5	Up the tank

Dry weather flow estimated at 2 g.p.m.

Use 1¼" Poly pipe.

Frictional losses 1.1 ft/100 ft. run at 5 g.p.m.

TOTAL say, 32 ft. head loss

Max. flow 5.5 g.p.m.

TERRITORY OF PAPUA & NEW GUINEA

...E OF VILLAGE WATER SUPPLIES .....EAST SEPIK.....DISTRICT

.....Boikin.....

.....Yapuk But.....

...DIVISION .....Wewak But.....

...DISTRICT .....Wewak.....

.....170.....

.....April.....

.....

...COUNCILLOR ..Peter Maut..

.....

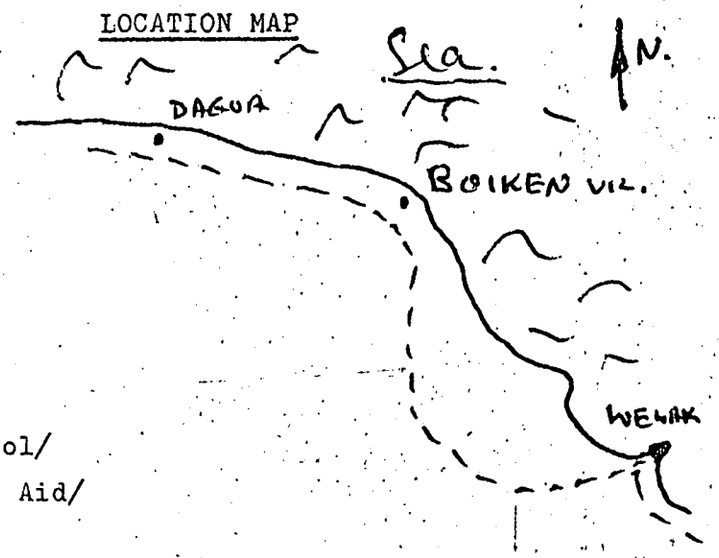
...s - Domestic/Government School/
...ission School/Hospital/First Aid/
...rigation

...D DEVELOPMENT .....

.....

...ER DEMAND .....

LOCATION MAP



PRESENT SUPPLY

...80.....

...From Nov.... to ..April

...Rainwater & shallow soak...

...S FROM VILLAGE ...2-3 mins..

...Track.....

...TE OF FLOW .....

...Chemical .....

Bactereological .....

...ION ..Nil.....

.....

.....

.....

.....

...ION From ..May.... to ..Oct..

.....As above.....

...E FROM VILLAGE .....

.....

...TS OF FLOW .....

.....Chemical .....

Bactereological .....

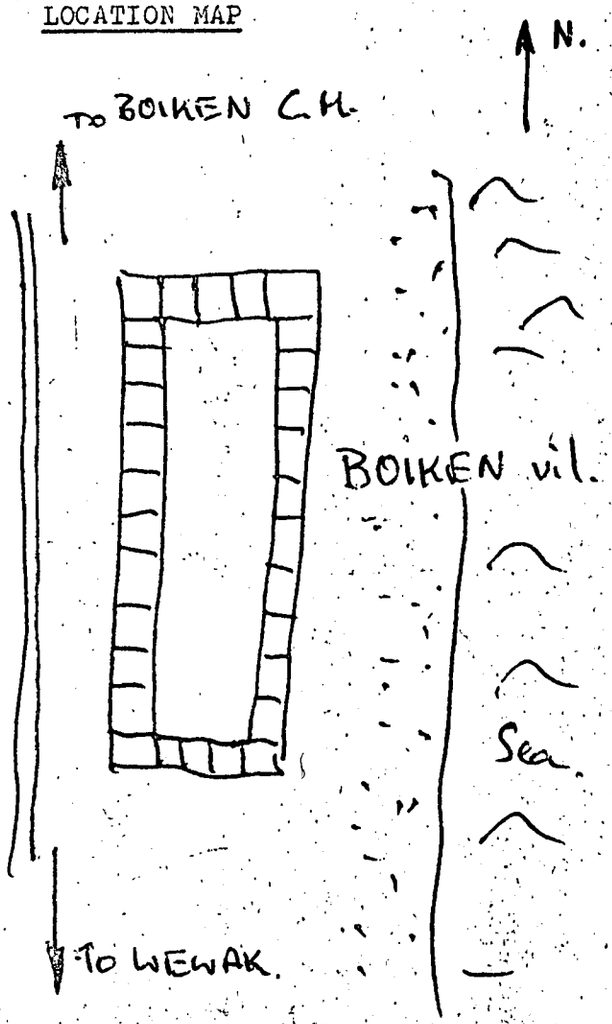
...ION .....

.....

.....

.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

SURVSY OF VILLAGE WATER SUPPLIES ...EAST SEPIK.....DISTRICT

VILLAGE .....BOIKEN.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ...~~SOUTH~~...Southeast corner of village.....

.....

DISTANCE FROM VILLAGE .....Sotheast central.....

ACCESS .....Track.....

SITE KNOWN TO...P. Maut, R. Richardson. (D.D.A.).....

TYPE OF AQUIFER ...Coarse sand.....

DETAILS OF SCHEME ...Standard sanitary well...S.W.L. 6 ft. in. auger .....hole at well site.....

.....

.....

MATERIALS REQUIRED ...As per standard draving.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) .....100.....

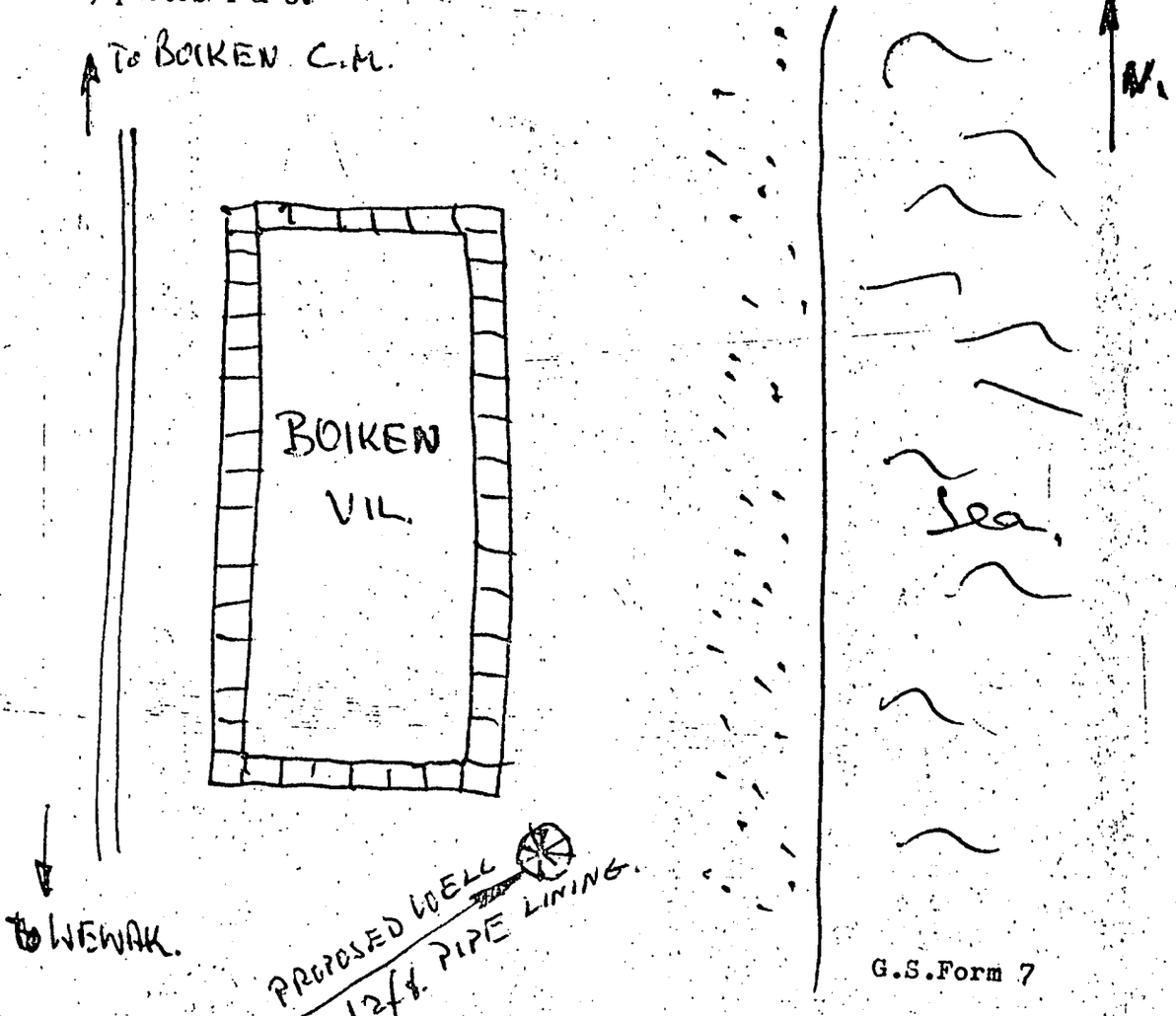
ALTERNATIVE SCHEME .....

.....

PRIORITY ...Second..... Signed ..J.R.L. Read.... Date 18/10/66

LOCATION MAP

Film 6, photos 4 & 5.



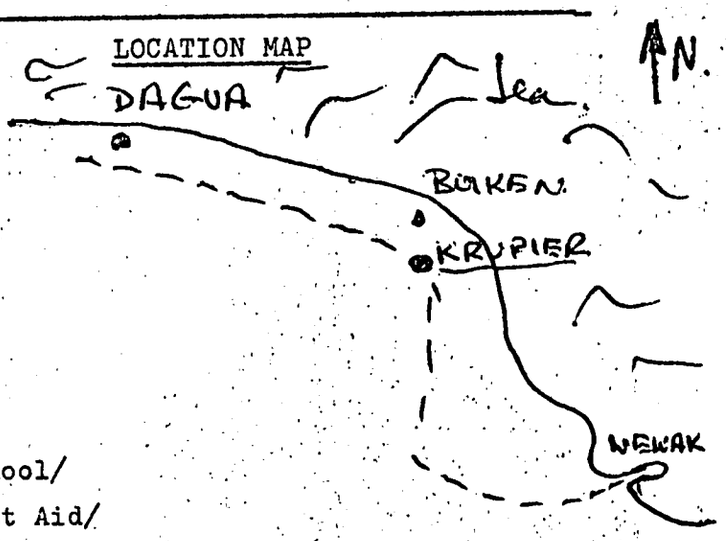
G.S.Form 7

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ... EAST SEPIK .....DISTRICT

VILLAGE ..KRUPIER.....
COUNCIL ...Wewak Dut.....
CENSUS DIVISION ..Wewak Dut.....
SUB-DISTRICT ....Wewak.....
POPULATION .....
ACCESS .Road.....
.....
HEADMAN/COUNCILLOR .Peter Maut...
.....
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

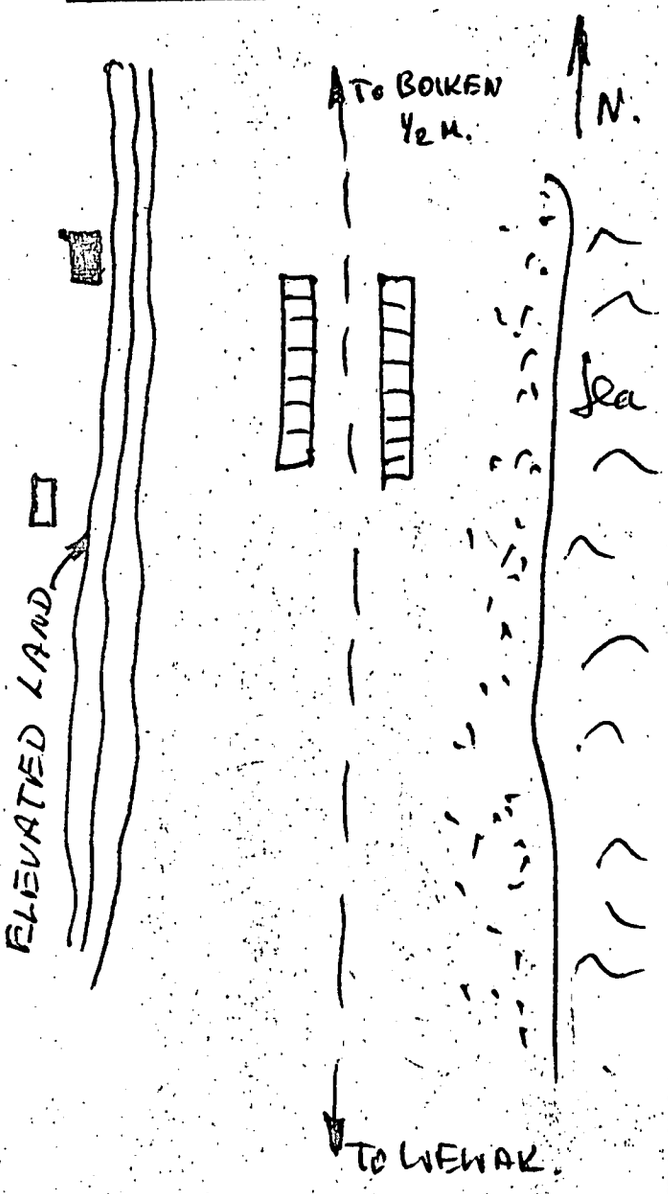
LOCATION MAP



PRESENT SUPPLY

RAINFALL .....80.....
WET SEASON From .Nov.... to .April.
TYPE ...Rainwater catchment.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....Track.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION ...Nil.....
REMARKS .....
.....
.....
.....
DRY SEASON From .May.... to .Oct..
TYPE ....As above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ...EAST SEPIK.....DISTRICT

VILLAGE .....KRUPIER.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY .Northwest.corner.of.village.belo.house.....belonging.to.Yende.Bukai,.....

DISTANCE FROM VILLAGE ....Northwest.central.....

ACCESS .....Track.....

SITE KNOWN TO..P..Haut,.Richardson.(D.D.A.)..

TYPE OF AQUIFER ...Alluvium.....

DETAILS OF SCHEME ....Standard.sanitary.well.....

.....

.....

.....

MATERIALS REQUIRED ....As.per.standard.drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) .....100.....

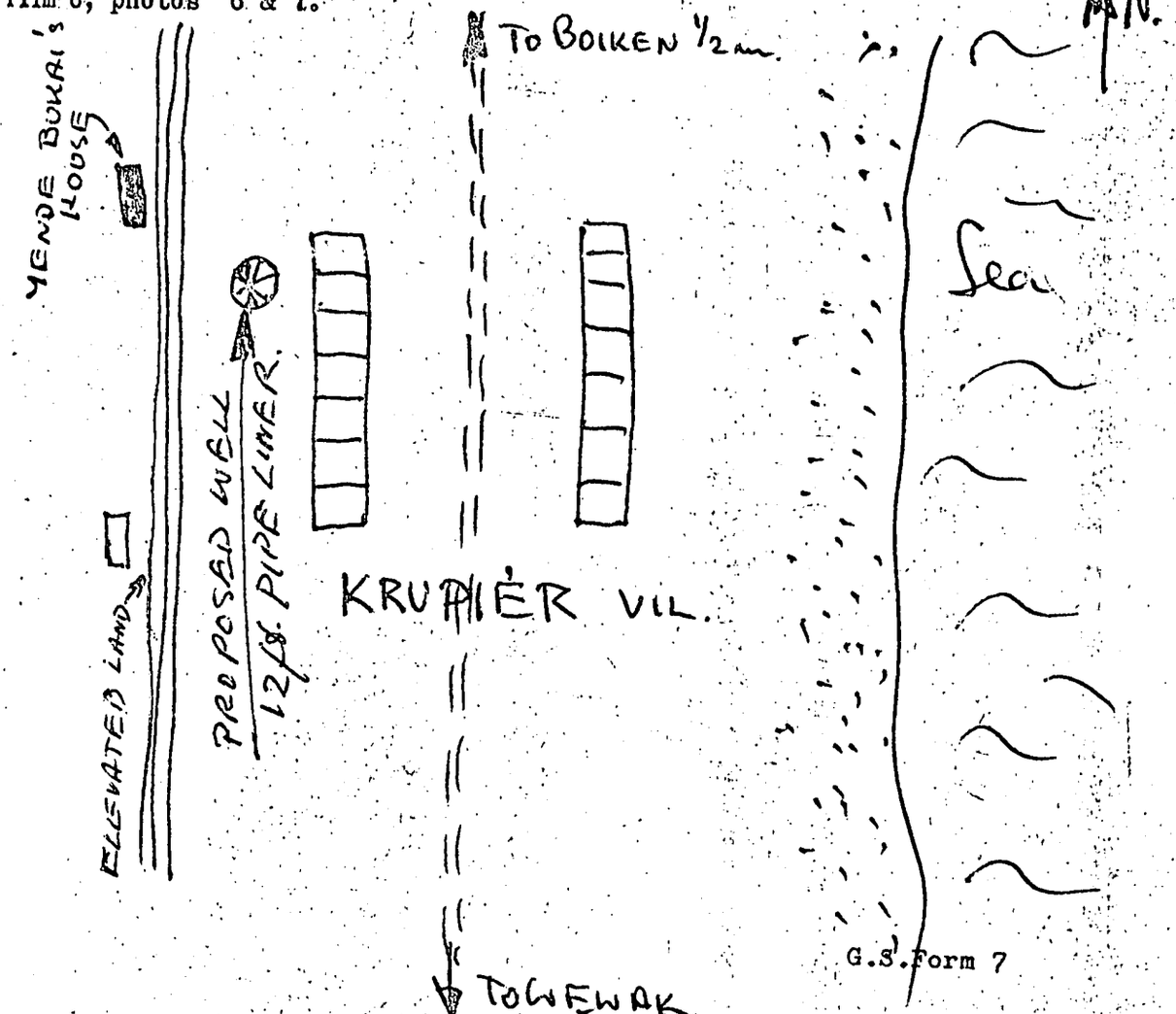
ALTERNATIVE SCHEME .....

.....

PRIORITY ..Second..... Signed ..J.R.L..Read.... Date ..18/10/66

LOCATION MAP

Film 6, photos 6 & 7.



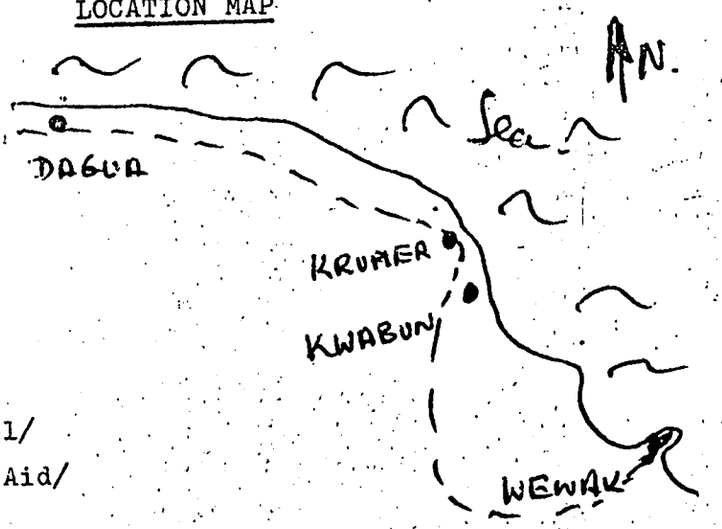
G.S. Form 7

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ... EAST SEPIK .....DISTRICT

VILLAGE ... KWABUN.....
COUNCIL .... Wewak But.....
CENSUS DIVISION .. Wewak But.....
SUB-DISTRICT ..... Wewak.....
POPULATION .... 112.....
ACCESS .... Road & track.....
.....
CHAIRMAN/COUNCILLOR .P. Maut.....
.....
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

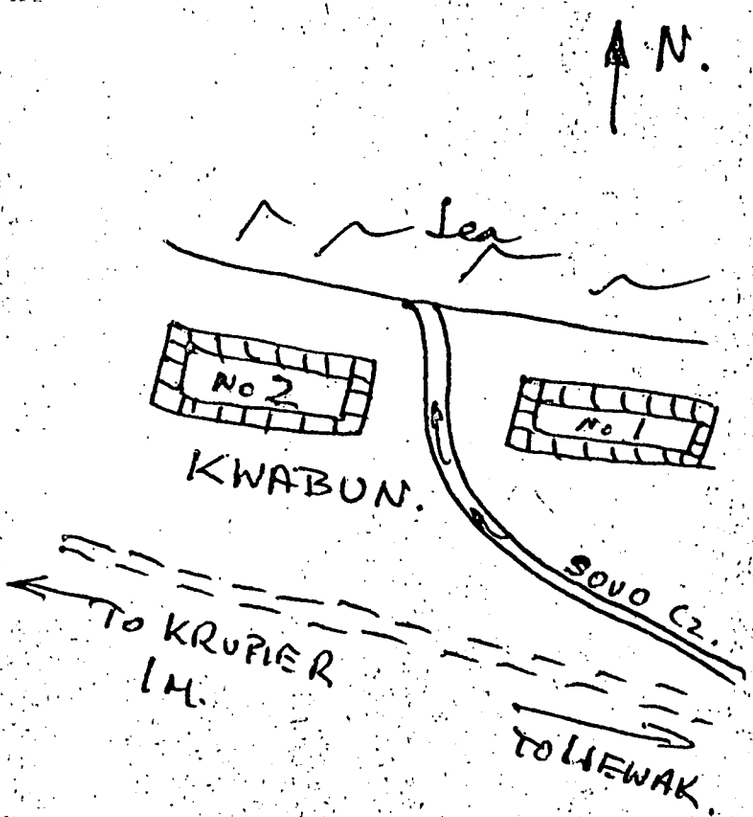
LOCATION MAP



PRESENT SUPPLY

RAINFALL .....80.....
WET SEASON From ..Nov... to .April.
TYPE ..Rainwater & shallow soak.....
DISTANCE FROM VILLAGE ...5 mis.....
TRANSPORT ...Track.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION ....Nil.....
REMARKS .....
.....
.....
.....
DRY SEASON From ..May.... to .Oct...
TYPE ....As above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ...WEST SEPIK.....DISTRICT

VILLAGE .....KWABUN.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ..Centrally in east & west sections of village

.....

DISTANCE FROM VILLAGE .....Central.....

ACCESS .....Track.....

SITE KNOWN TO..P. Maut, Richardson (D.D.A.).....

TYPE OF AQUIFER ...Beach & Dune sand.....

DETAILS OF SCHEME ...2 standard sanitary wells. Chemical quality of water ...200 ppm in auger hole drilled in eastern section of village.....

.....

.....

MATERIALS REQUIRED ....As per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) .....200.....

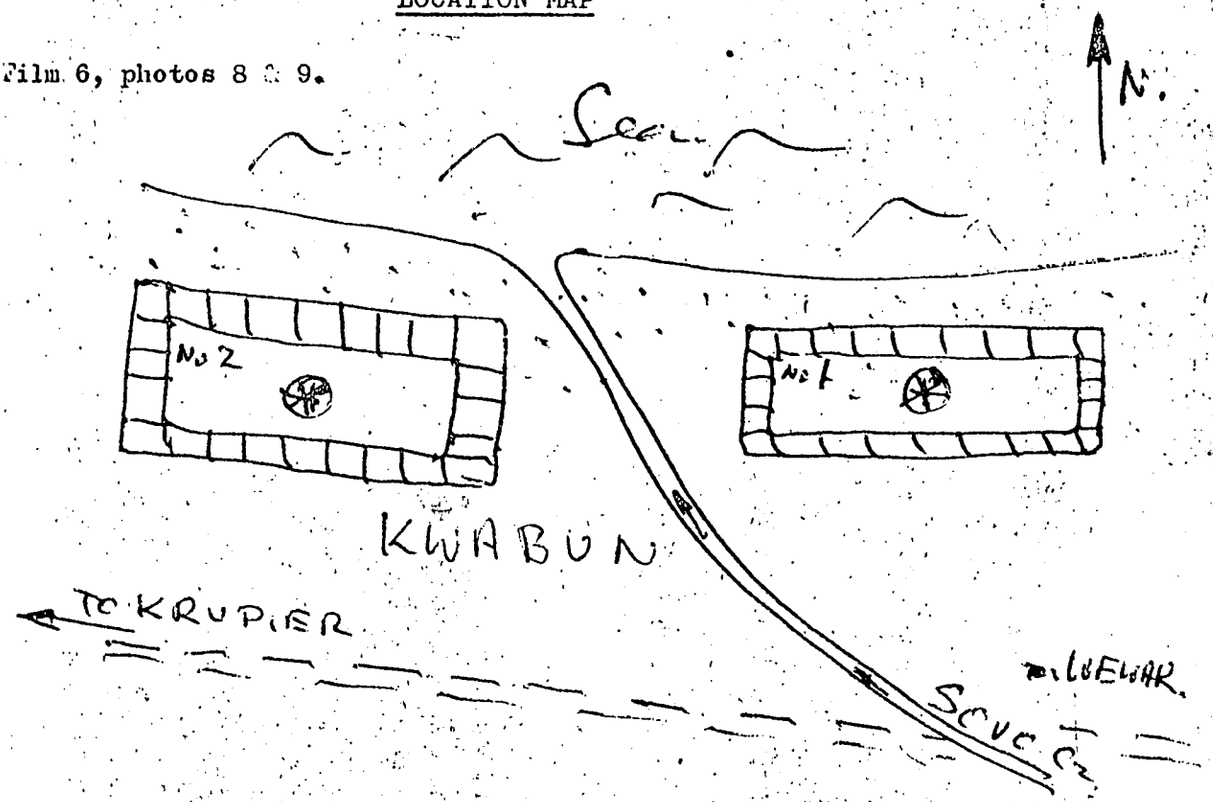
ALTERNATIVE SCHEME .....

.....

PRIORITY ..Second..... Signed ..J.H.L. Read.... Date 18/10/66

LOCATION MAP

Film 6, photos 8 & 9.



* - Denotes proposed 2 wells 12/6 lining

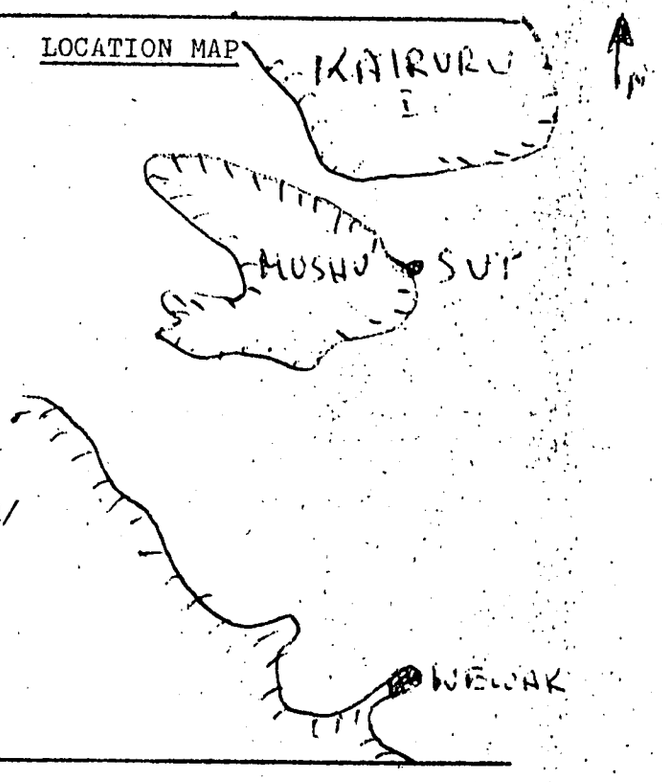
G.S.Form 7

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES .....D.....DISTRICT

VILLAGE .....
COUNCIL .....
CENSUS DIVISION .....
SUB-DISTRICT .....
POPULATION .....
ACCESS .....
.....
HEADMAN/COUNCILLOR .....
.....
WATER USE - Domestic/Government School/ Mission/Mission School/Hospital/First Aid/ Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

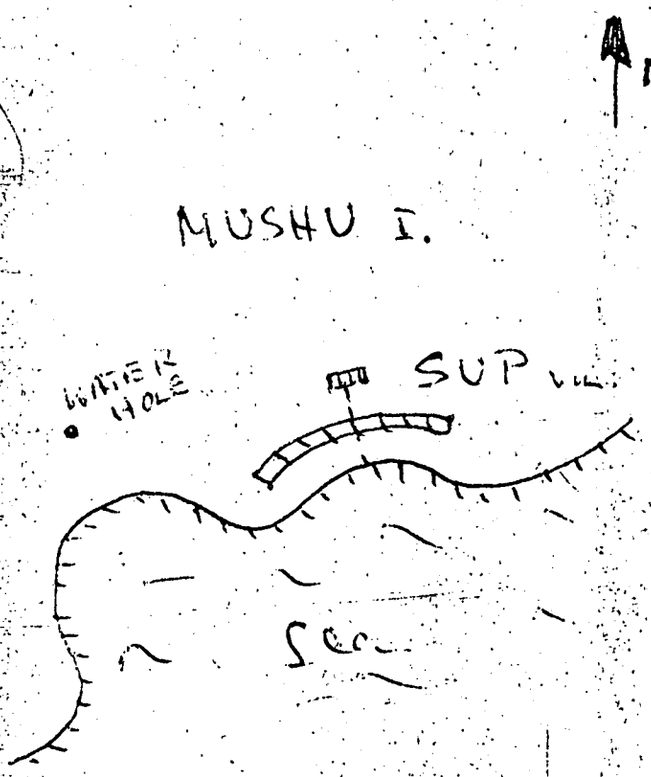
LOCATION MAP



PRESENT SUPPLY

RAINFALL ....80.....
WET SEASON From ...ov.... to ...ril
TYPE .....
DISTANCE FROM VILLAGE ..a.....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....
.....
DRY SEASON From ...a.... to ...t..
TYPE .....above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ....[illegible].....DISTRICT

VILLAGE ....[illegible]..... RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ...Central inland margin of village.....

.....

DISTANCE FROM VILLAGE ....Central.....

ACCESS .....Track.....

SITE KNOWN TO.....Leibe, Richardson (D.D.A.).....

TYPE OF AQUIFER ....Coral.....

DETAILS OF SCHEME ...Standard sanitary well using fibreglass pipes..

.....

.....

.....

MATERIALS REQUIRED ...As per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) .....100.....

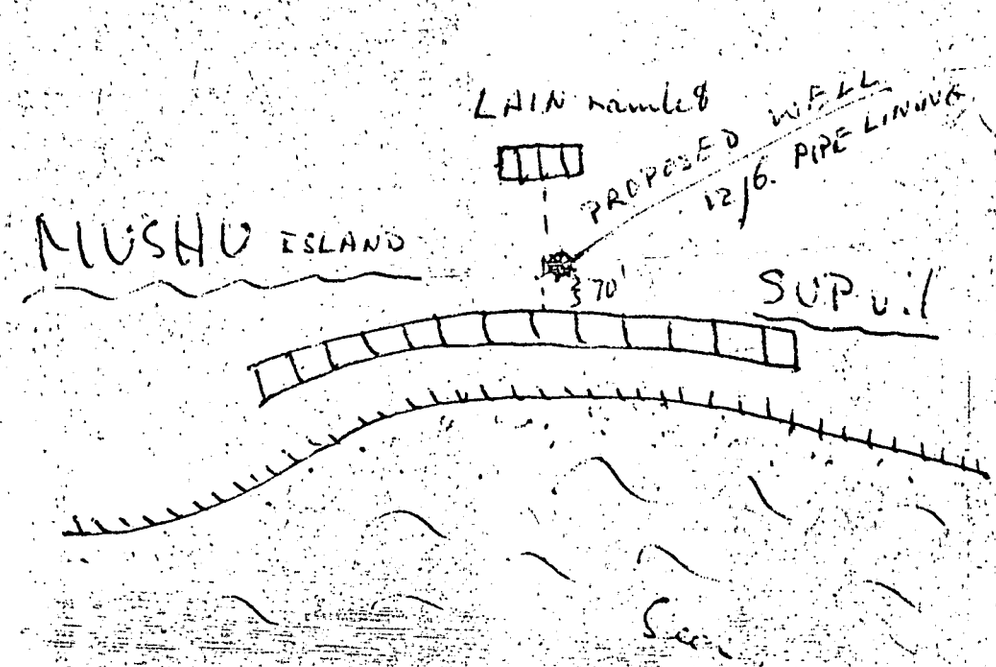
ALTERNATIVE SCHEME .....

.....

PRIORITY ...Second..... Signed ...J.L.L. Read... Date 20/10/66

LOCATION MAP

Film 6, photos 11& 12.



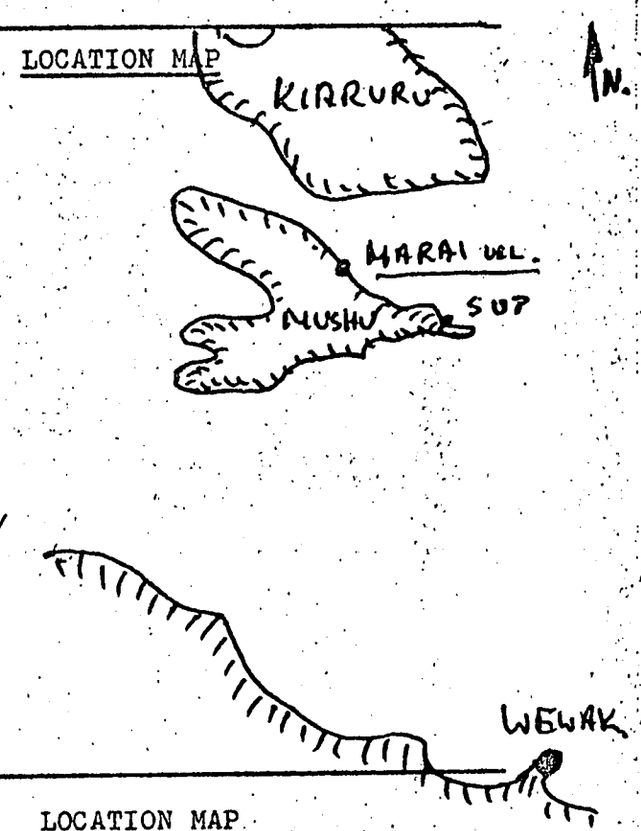
G.S.Form 7

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES .....EAST SEPIK.....DISTRICT

VILLAGE .....MARAI.....
COUNCIL .....Wewak But.....
CENSUS DIVISION ..Wewak But.....
SUB-DISTRICT ....Wewak.....
POPULATION ...25.....
ACCESS ....Trawler.....
.....
~~Chairman~~/COUNCILLOR ...Bagat.....
.....
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

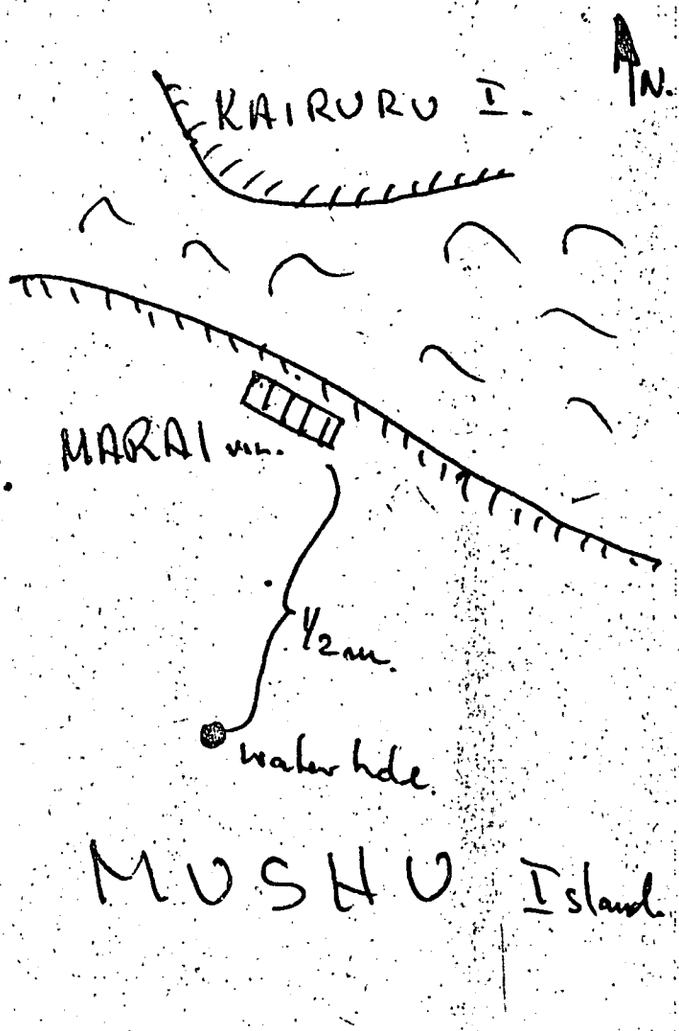
LOCATION MAP



PRESENT SUPPLY

RAINFALL .....80.....
WET SEASON From .Nov.... to .April.
TYPE Rainwater & shallow soak.....
DISTANCE FROM VILLAGE ...½ mile....
TRANSPORT ...Track.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION ...Nil.....
REMARKS .....
.....
.....
.....
DRY SEASON From .May..... to ..Oct.
TYPE .....As above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ....EAST SEPIK.....DISTRICT

VILLAGE .....MARAI.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY .....Village central.....

.....

DISTANCE FROM VILLAGE .....Central.....

ACCESS .....Track.....

SITE KNOWN TO.....

TYPE OF AQUIFER ..[redacted].....

DETAILS OF SCHEME ..Rainwater catchment.....

.....

.....

.....

MATERIALS REQUIRED ..1 Nylex catchment & 1, 1000 gal. storage tank...

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) .....200.....

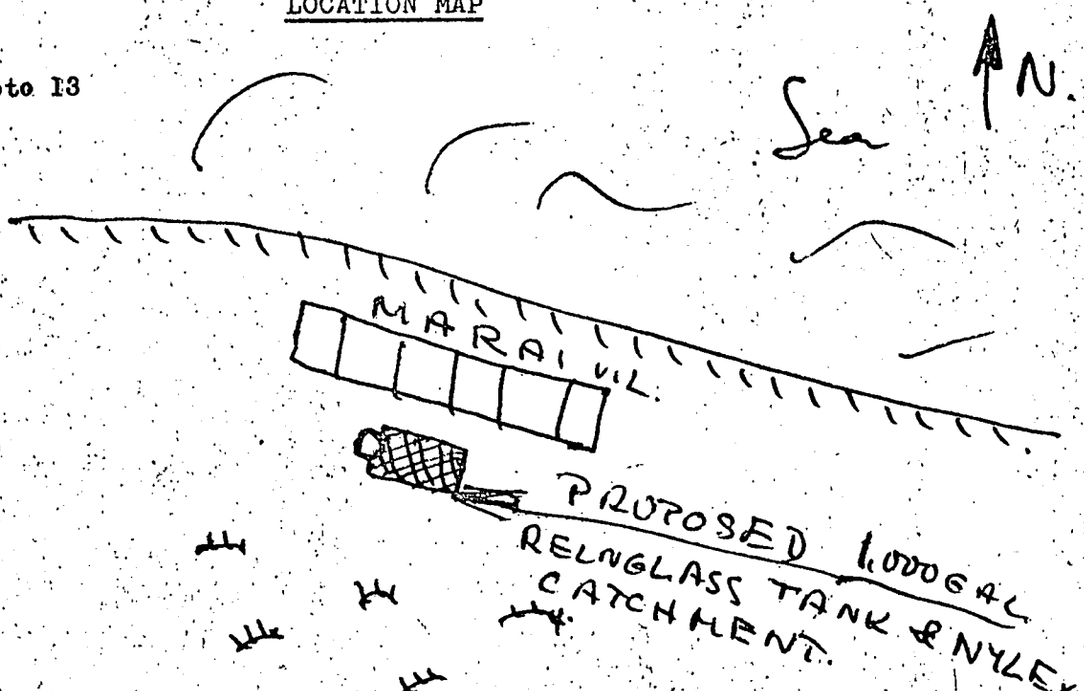
ALTERNATIVE SCHEME .....

.....

PRIORITY ..~~Second~~..... Signed .J.R.L. Read.... Date .20/10/66

LOCATION MAP

Film 6, photo 13



MUSHU I.

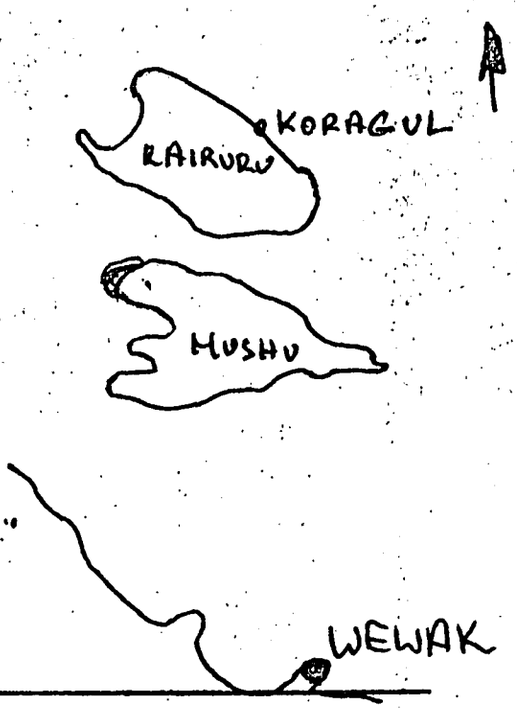
G.S.Form 7

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ..EAST SEPIK.....DISTRICT

VILLAGE ..KORAGUL.....
COUNCIL ..Wewak But.....
CENSUS DIVISION ..Wewak But.....
SUB-DISTRICT .....Wewak.....
POPULATION ...371.....
ACCESS ...Trawler.....
.....
HEADMAN/COUNCILLOR ..Urim.....
.....
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

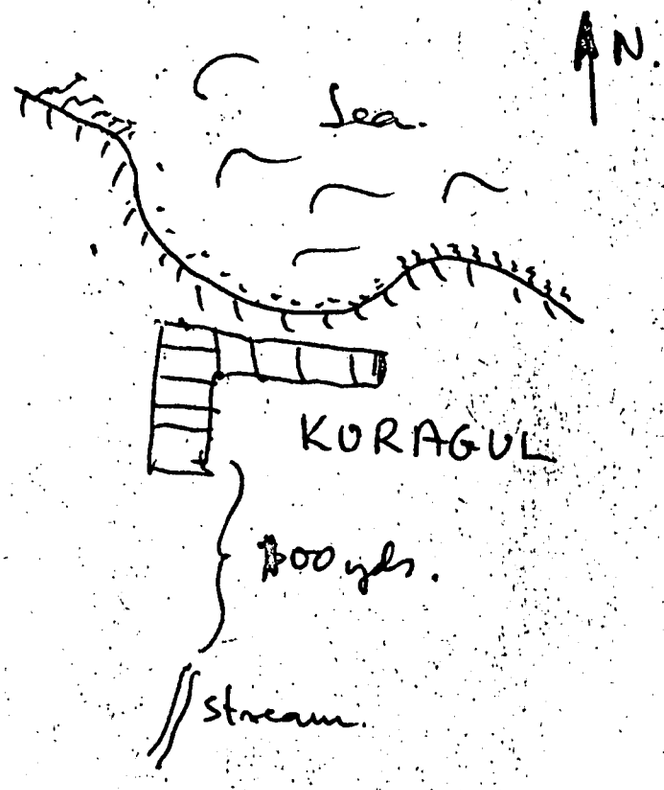
LOCATION MAP



PRESENT SUPPLY

RAINFALL .....80.?.....
WET SEASON From .Nov.... to ..April
TYPE .Mountain stream.....
DISTANCE FROM VILLAGE ..100.feet...
TRANSPORT ...Track.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION .....
REMARKS ..Supply adequate for .....
..village - no recommendation.....
.....
.....
DRY SEASON From .May.... to Dec...
TYPE .....As above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP



Film 6, photos 14 & 15.

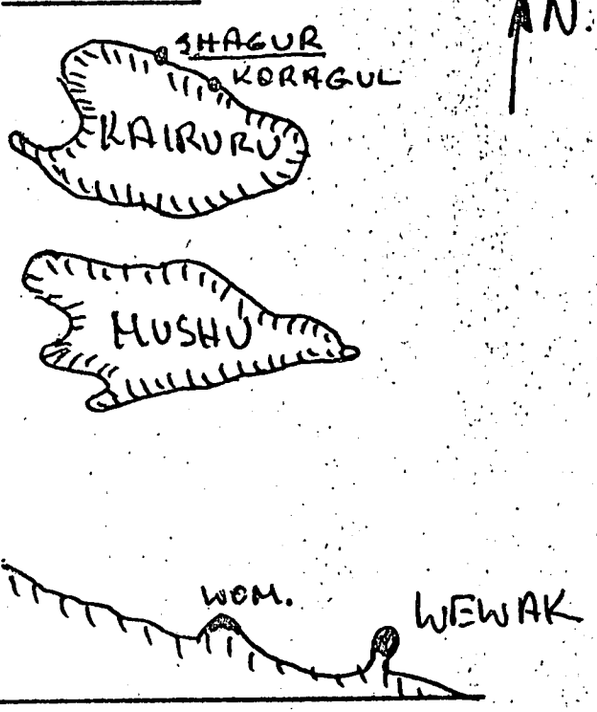
G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ...~~NORTH~~ EAST SEPIK.....DISTRICT

VILLAGE ...SHAGUR.....
COUNCIL ...Wewak But.....
CENSUS DIVISION ....Wewak But....
SUB-DISTRICT ....Wewak.....
POPULATION .....275...../....
ACCESS ...Trawler.....
.....
~~MEMBER~~/COUNCILLOR ....Salio.....
.....
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

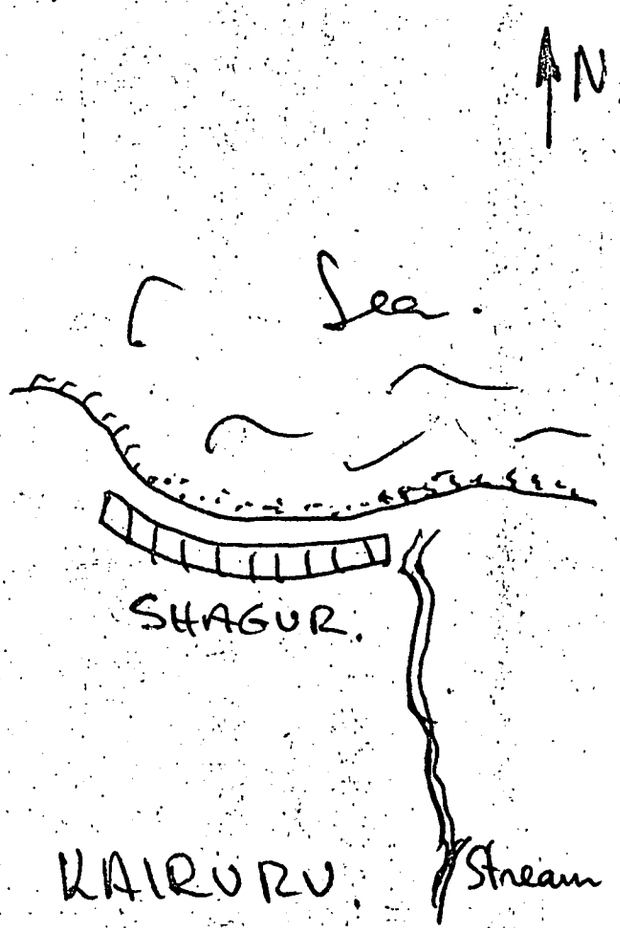
LOCATION MAP



PRESENT SUPPLY

RAINFALL .....80.?.....
WET SEASON From .Nov.... to .May...
TYPE ...Mountain stream.....
DISTANCE FROM VILLAGE ..300 feet...
TRANSPORT ...Track.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION .....
REMARKS ..Supply adequate for.....
..village - no recommendation.....
.....
.....
DRY SEASON From ...May... to .Oct..
TYPE ...As above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP



Film 6, photos 16 & 17

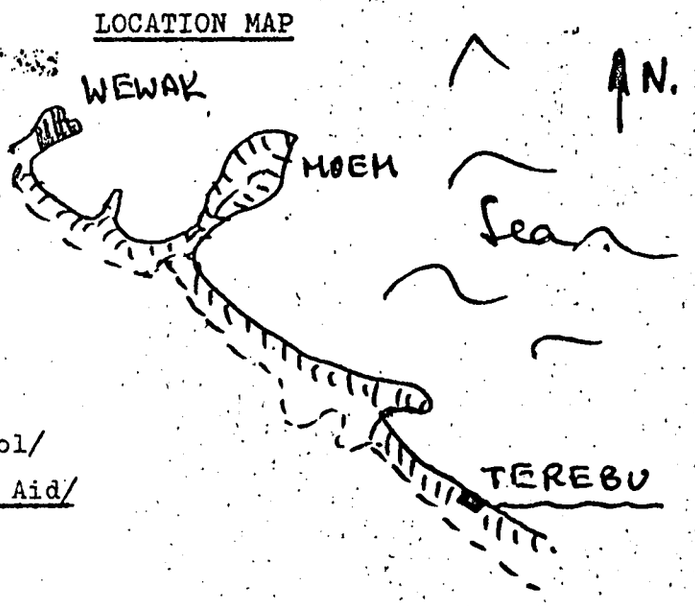
G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ... EAST SEPIK .....DISTRICT

VILLAGE ... TEREBU .....
COUNCIL ... Wewak But .....
CENSUS DIVISION ... Wewak But ....
SUB-DISTRICT ... Wewak .....
POPULATION ... 83 .....
ACCESS .. Road .....
.....
~~TRADITIONAL~~/COUNCILLOR .... Porom .....
.....
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

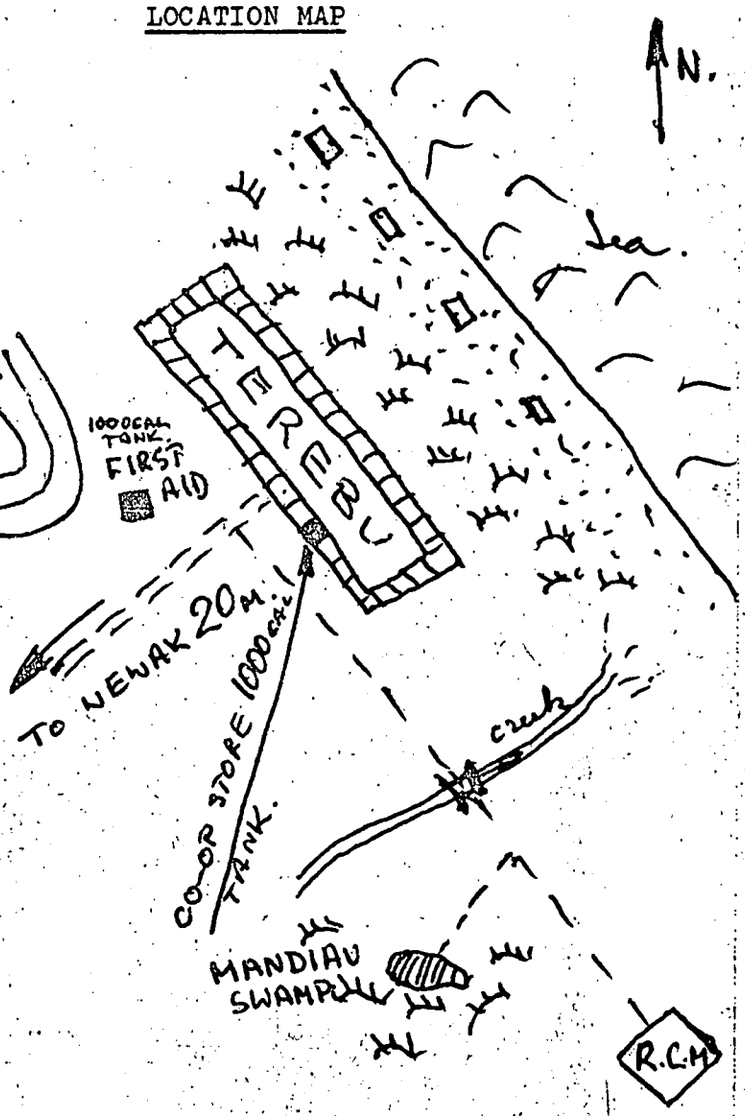
LOCATION MAP



PRESENT SUPPLY

RAINFALL .....80.....
WET SEASON From ..Nov... to .April
TYPE Rainwater & shallow soak .....
DISTANCE FROM VILLAGE ..5 min. ....
TRANSPORT ... Track .....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION ... Nil .....
REMARKS .....
.....
.....
.....
DRY SEASON From ..May.... to .Oct..
TYPE ..... As above .....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ....EAST SEPIK.....DISTRICT

VILLAGE ....TEREBU..... RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY .Village.central.....

.....

DISTANCE FROM VILLAGE ...Central.....

ACCESS .....Track.....

SITE KNOWN TO..Poron, Richardson (D.D.A.).....

TYPE OF AQUIFER .....

DETAILS OF SCHEME ...Rainwater.catchment. Complete.present.plans....

..to.install.1000.gal.tanks.at.aid.post & Co-op.store.....

.....

.....

MATERIALS REQUIRED ....Local.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST (£) .....

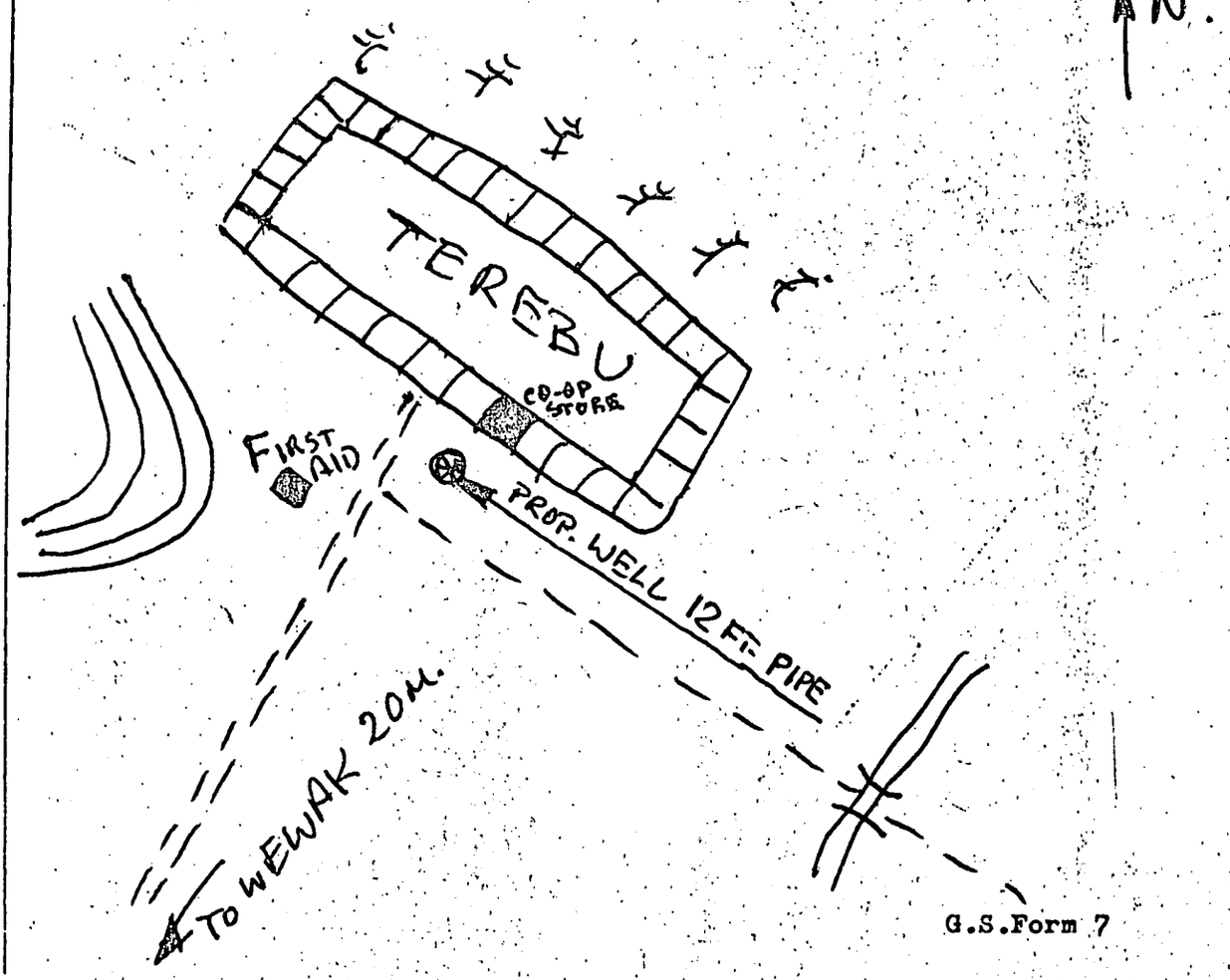
ALTERNATIVE SCHEME ..Standard.sanitary.well.20.feet.south.of.....

...Co-op.store.....

PRIORITY ..Second..... Signed ..J.R.L. Read.... Date .21/10/66

LOCATION MAP

Film 6, photos 18 & 19, Film 7, photo 1.

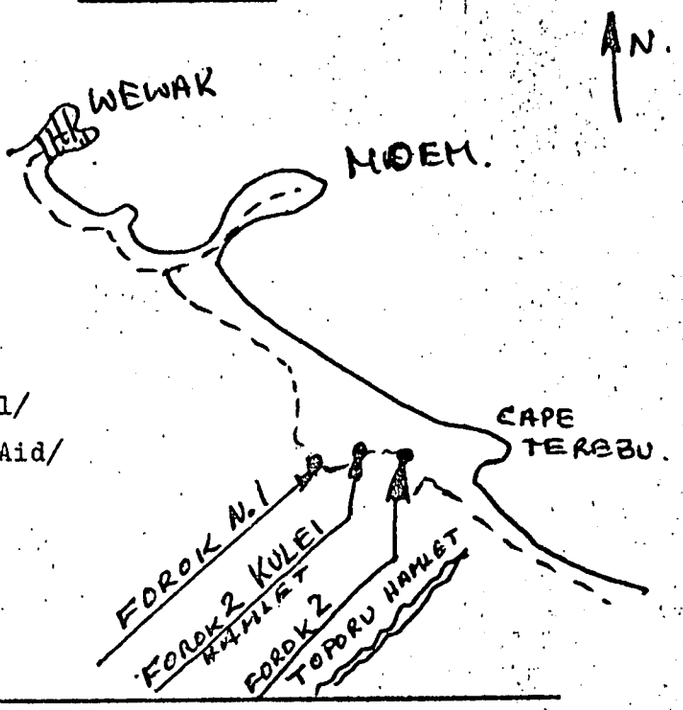


G.S.Form 7

SURVEY OF VILLAGE WATER SUPPLIES ... EAST SEPIK ..... DISTRICT

VILLAGE TOPORU HAMLET .. (FOROK NO. 2)
COUNCIL .. Wewak But .....
CENSUS DIVISION ... Wewak But .....
SUB-DISTRICT ... Wewak .....
POPULATION . 113. (Forok No 2) .....
ACCESS ... Road .....
.....
MEMBER/COUNCILLOR .. Maimba .....
.....
WATER USE - Domestic/Government School/
Station/Mission School/Hospital/First Aid/
Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

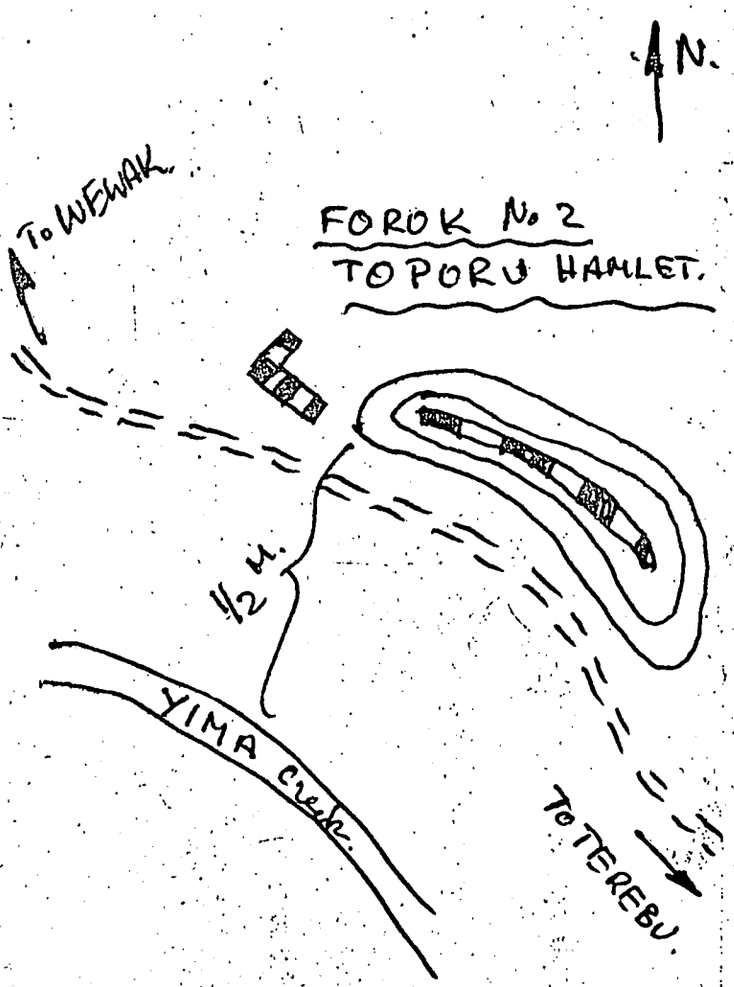
LOCATION MAP



PRESENT SUPPLY

RAINFALL ..... 80 .....
WET SEASON From .. Nov ... to April .
TYPE Rainwater & shallow soak .....
DISTANCE FROM VILLAGE .. 10-15 mins .
TRANSPORT ... Track .....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION .... Nil .....
REMARKS .....
.....
.....
.....
DRY SEASON From . May ..... to . Oct ..
TYPE .. As above .....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ...EAST SEPIK.....DISTRICT

VILLAGE ...~~TOPORU~~ (FOROK NO.2) RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ...Village..central.....

.....

DISTANCE FROM VILLAGE .....Central.....

ACCESS .....Track.....

SITE KNOWN TO...Maimbe,..Richardson.(D.D.A.).....

TYPE OF AQUIFER .....

DETAILS OF SCHEME ..Rainwater.catchment.....

.....

.....

.....

MATERIALS REQUIRED ....1.Nylex.catchment & 1,.1000.gal.storage.tank.

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) ....250.....

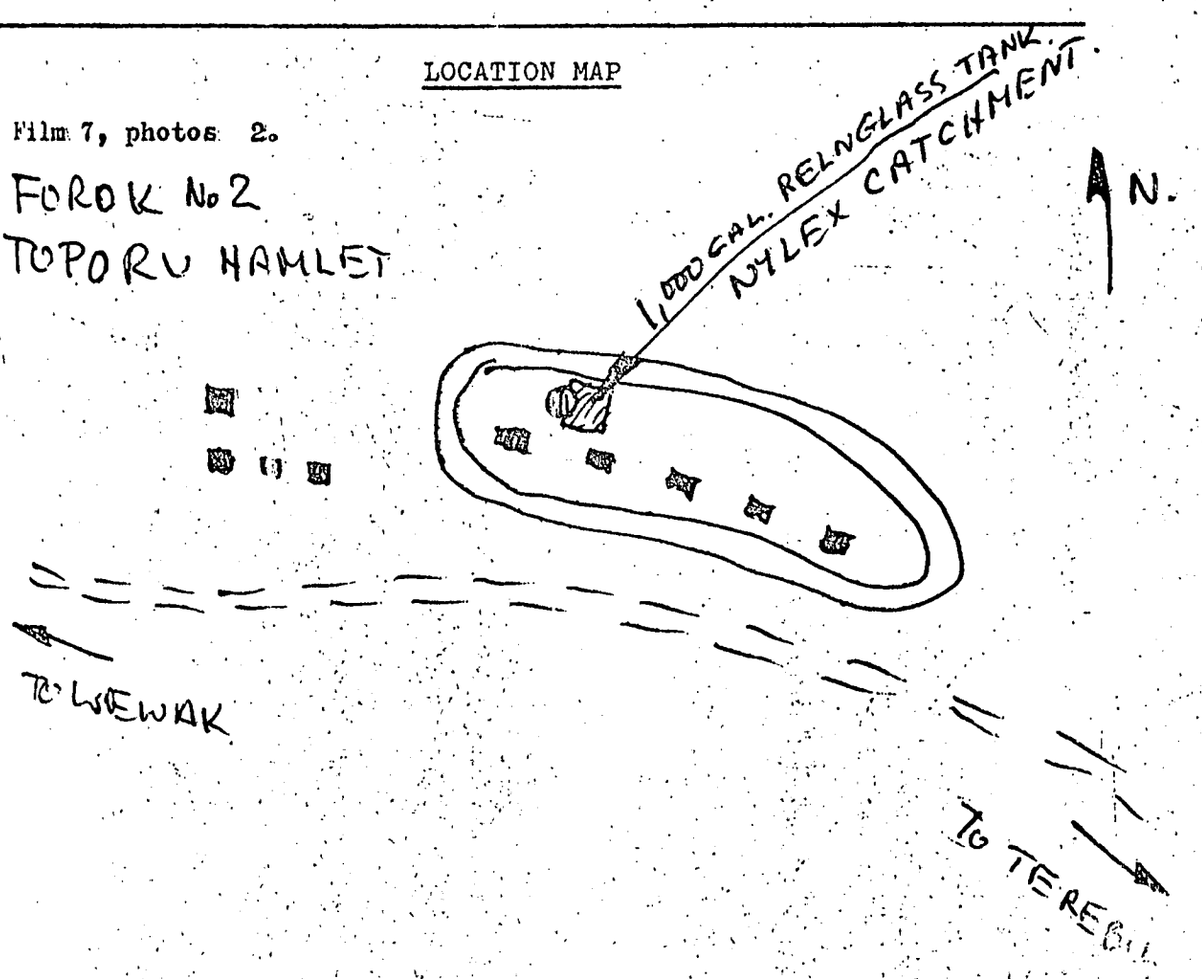
ALTERNATIVE SCHEME .....

.....

PRIORITY ..Second..... Signed ..J.R.L. Read... Date .21/10/66

LOCATION MAP

Film 7, photos 2.

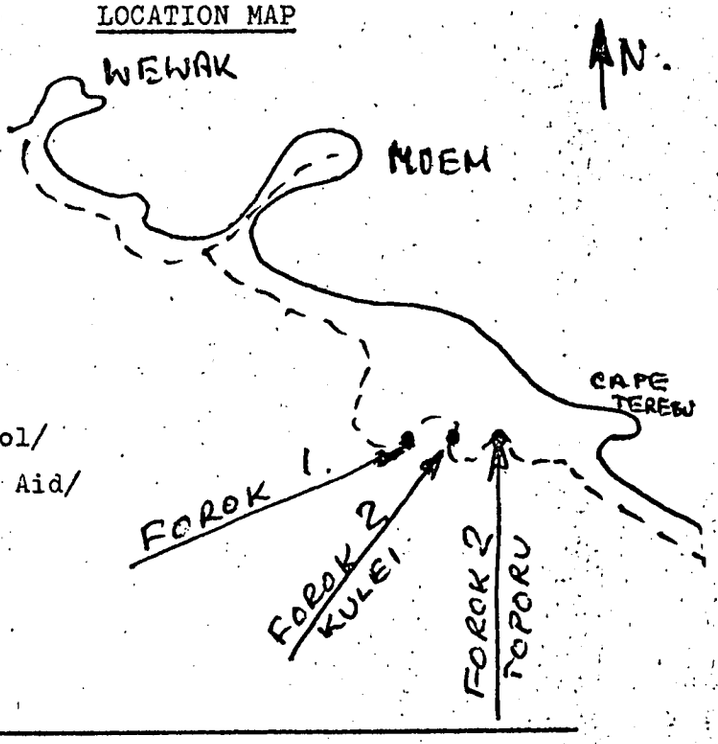


TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ....EAST SEPIK.....DISTRICT

VILLAGE ..KULEI HAMLET..(FOROK NO. 2).
COUNCIL ...Wewak Rut.....
CENSUS DIVISION ...Wewak Rut.....
SUB-DISTRICT ...Wewak.....
POPULATION ..113.(Forok No 2).....
ACCESS ....Road.....
.....
MISSION/COUNCILLOR Maimbe.....
.....
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

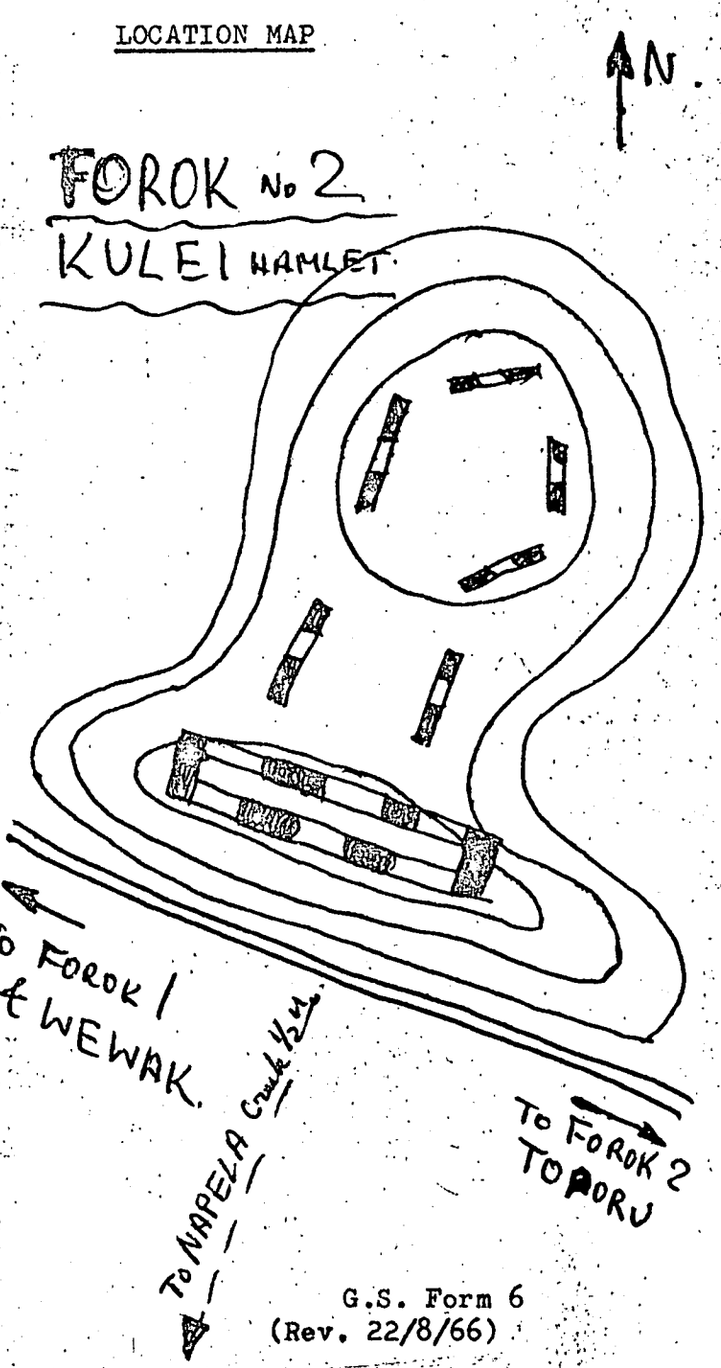
LOCATION MAP



PRESENT SUPPLY

RAINFALL .....80.....
WET SEASON From .Nov.... to .April
TYPE .Rainwater.&.Shallow.soak.....
DISTANCE FROM VILLAGE ..10-15 mins..
TRANSPORT ...Track.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION ...Nil.....
REMARKS .....
.....
.....
.....
DRY SEASON From .May..... to ..Oct.
TYPE ...As above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ....EAST SEPIK.....DISTRICT

VILLAGE ..KULEI (FOROK NO.2).. RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY .....Village central.....

.....

DISTANCE FROM VILLAGE .....Central.....

ACCESS .....Track.....

SITE KNOWN TO....Maimbe, Richardson (D.D.A.).....

TYPE OF AQUIFER .....

DETAILS OF SCHEME ...Rainwater catchment.....

.....

.....

.....

MATERIALS REQUIRED ...1 Nylex catchment & 1, 2000 gal. storage tank..

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) .....250.....

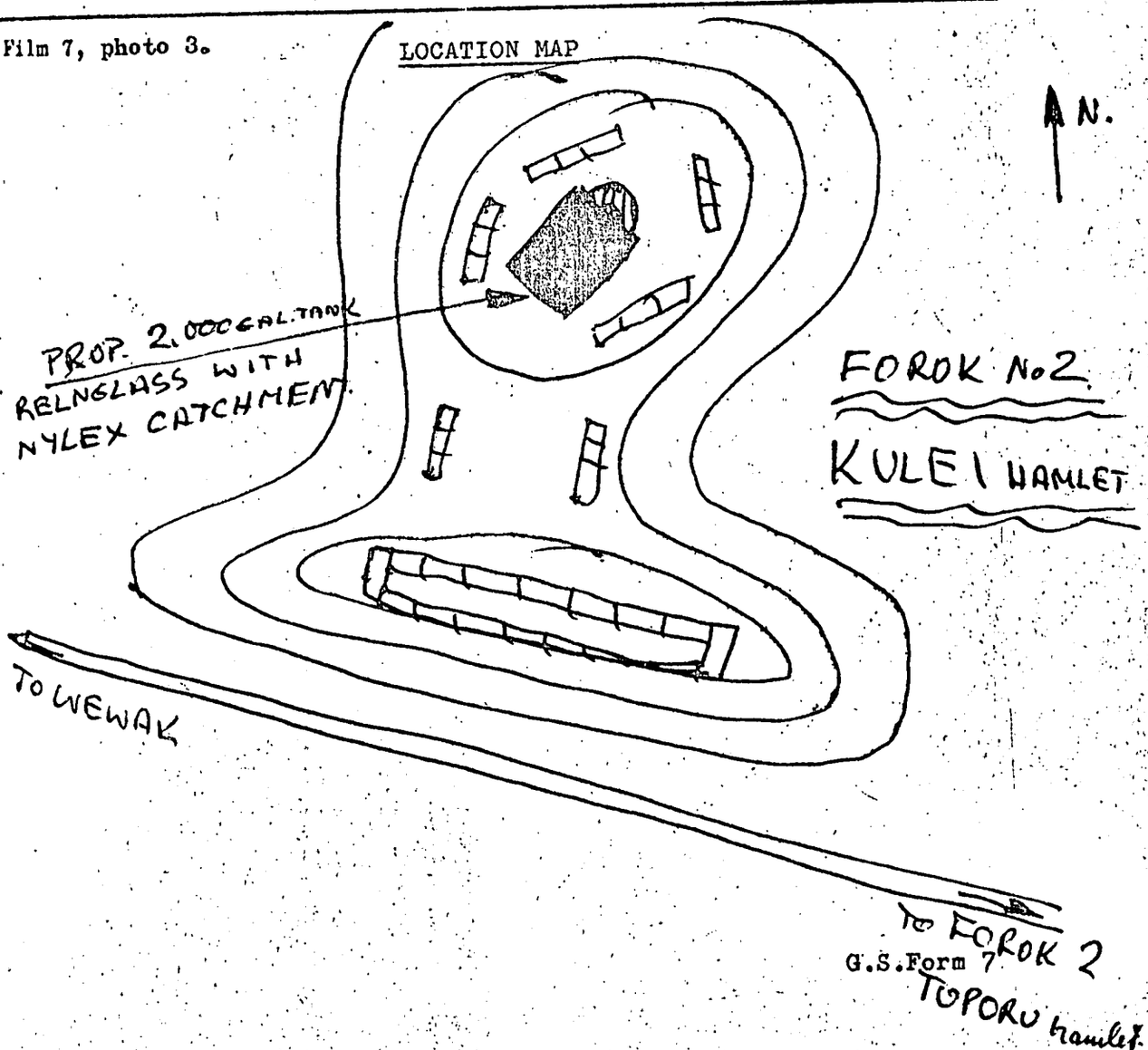
ALTERNATIVE SCHEME .....

.....

PRIORITY ...Second..... Signed J.R.L. Read..... Date .21/10/66

Film 7, photo 3.

LOCATION MAP



G.S.Form 7

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ....EAST SEPIK.....DISTRICT

VILLAGE ..... FOROK NO. 1.....

COUNCIL ...Wewak But.....

CENSUS DIVISION ...Wewak But.....

SUB-DISTRICT .....Wewak.....

POPULATION ....201.....

ACCESS ....Road.....

.....

MEMBER/COUNCILLOR ..Maimbe.....

.....

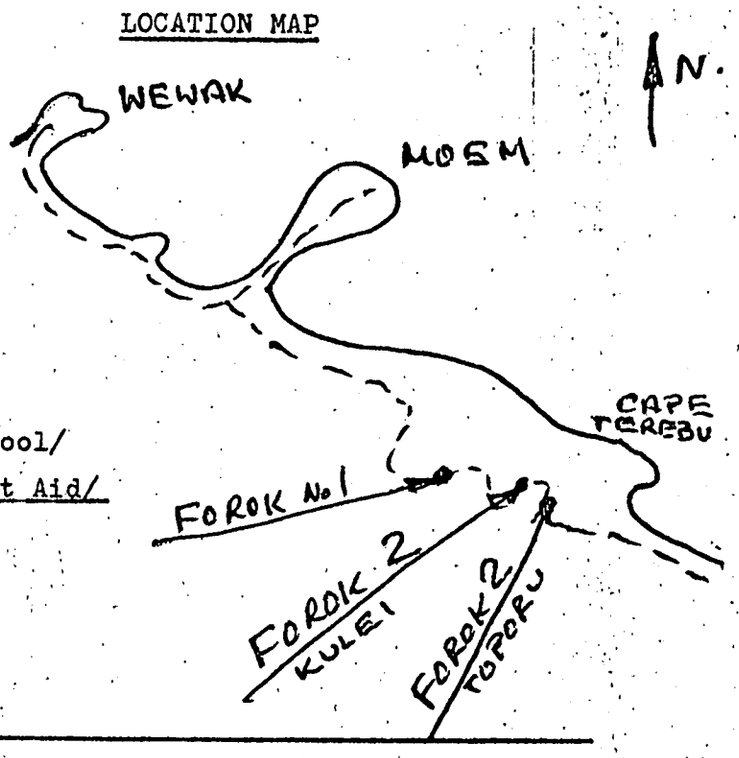
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation

PROJECTED DEVELOPMENT .....

.....

ESTIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

RAINFALL .....80.....

WET SEASON From ..Nov... to ..April

TYPE .Rainwater & shallow soak.....

DISTANCE FROM VILLAGE .5. mins.....

TRANSPORT .....Track.....

YIELD/RATE OF FLOW .....

QUALITY - Chemical .....

Bactereological .....

PROTECTION ..Nil.....

REMARKS .....

.....

.....

.....

DRY SEASON From .May.... to ..Oct.

TYPE ....As above.....

DISTANCE FROM VILLAGE .....

TRANSPORT .....

YIELD/RATE OF FLOW .....

QUALITY .....Chemical .....

Bactereological .....

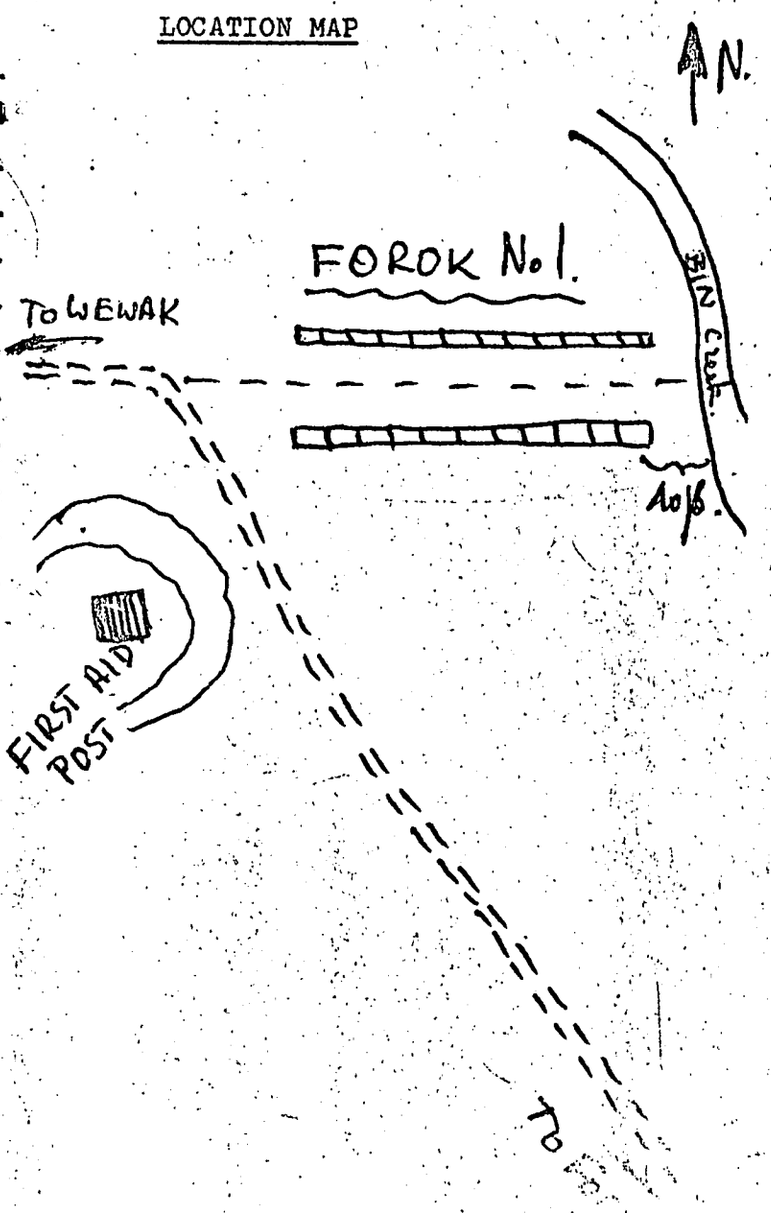
PROTECTION .....

REMARKS .....

.....

.....

LOCATION MAP



TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ....EAST SEPIK.....DISTRICT

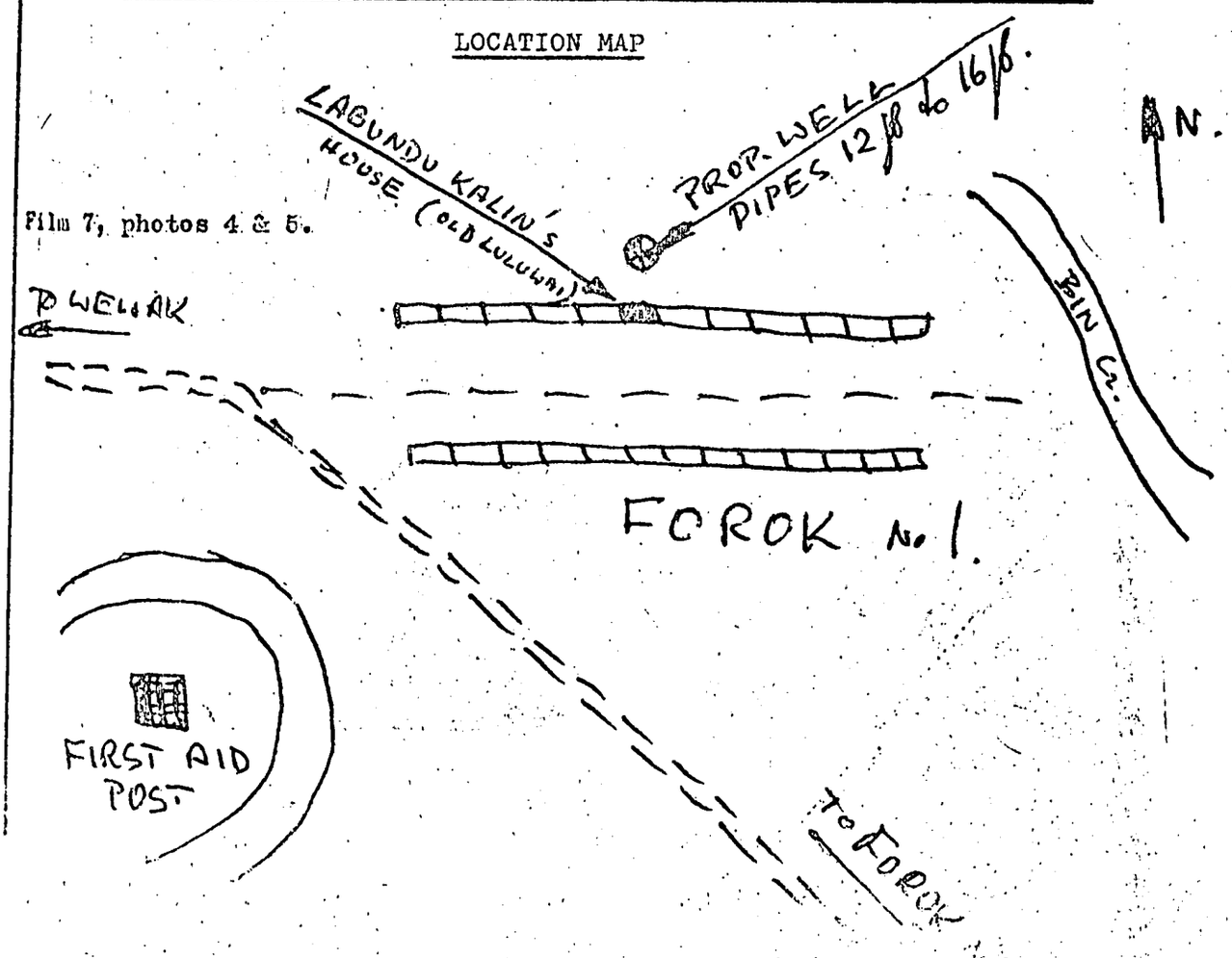
VILLAGE .....FOROK NO.1.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ..Northern margin of village 20 feet from....
...house belonging to Kalin.....
DISTANCE FROM VILLAGE ...Central north.....
ACCESS ....Track.....
SITE KNOWN TO....Woa, Richardson (D.D.A.).....
TYPE OF AQUIFER ....Sand & ~~alluvial~~ alluvium.....
DETAILS OF SCHEME ...Standard sanitary well.....
.....
.....
.....
MATERIALS REQUIRED .....As per standard drawing.....
.....
LABOUR REQUIRED .....Local.....
SUPERVISION .....Local.....
ESTIMATED COST ($) .....100.....
ALTERNATIVE SCHEME .....
.....
PRIORITY ...Second..... Signed ..J.R.L. Read.... Date ..21/10/66

LOCATION MAP



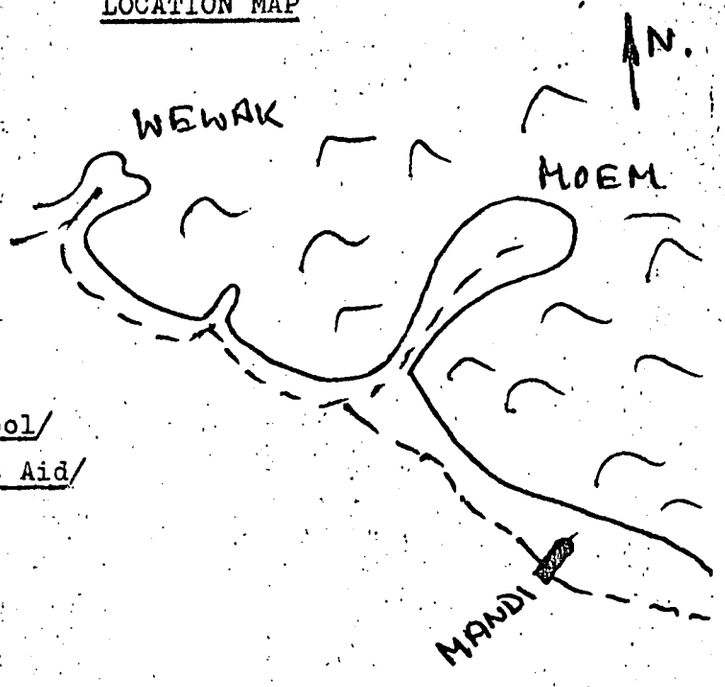
Film 7, photos 4 & 5.

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ....E.ST.SEPIK.....DISTRICT

VILLAGE ....MANDI.....
COUNCIL ....Wewak Rut.....
CENSUS DIVISION .Wewak Rut.....
SUB-DISTRICT ....Wewak.....
POPULATION .....87.....
ACCESS ....Road.....
.....
CHAIRMAN/COUNCILLOR .Mainube.....
.....
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

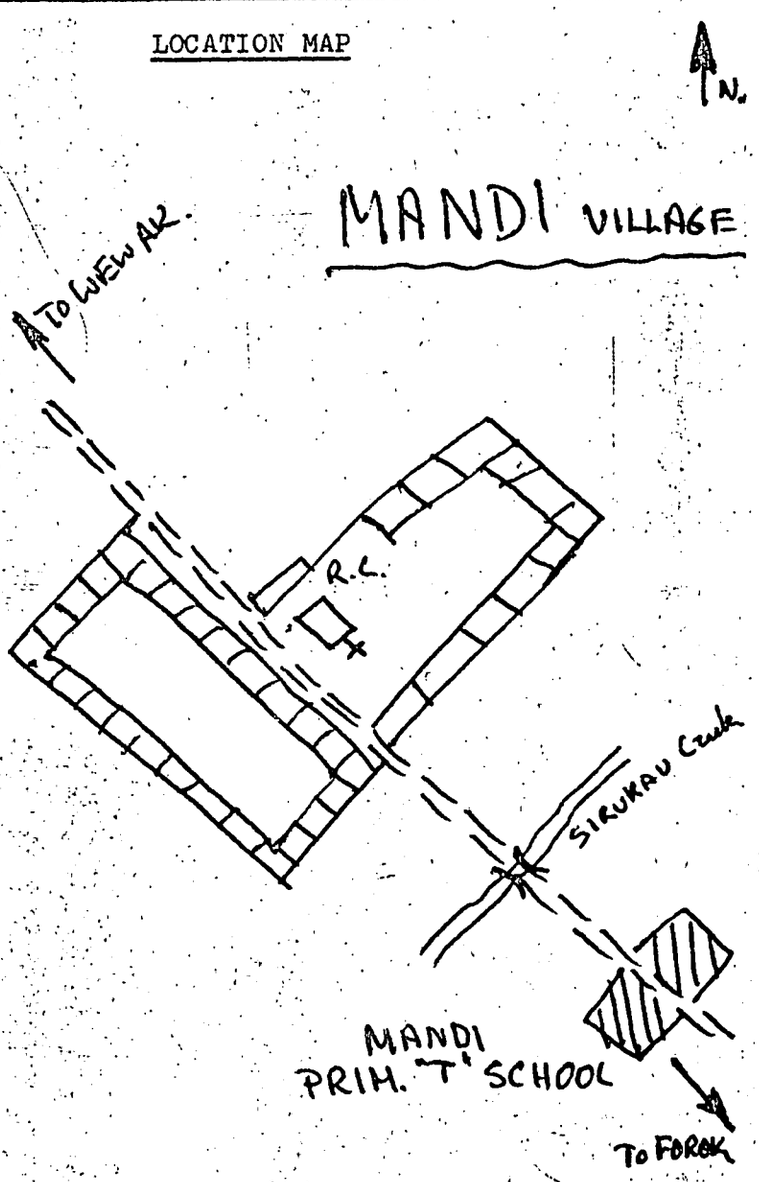
LOCATION MAP



PRESENT SUPPLY

RAINFALL .....80.....
WET SEASON From .Nov... to .April.
TYPE .Rainwater.....
DISTANCE FROM VILLAGE .....
TRANSPORT Track.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION ....Nil.....
REMARKS .....
.....
.....
.....
DRY SEASON From ..May.... to ..Oct..
TYPE .Rainwater & Sirikau creek....
DISTANCE FROM VILLAGE ..10 mins....
TRANSPORT ..Track.....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION ....Nil.....
REMARKS .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ....EAST SEPIK.....DISTRICT

VILLAGE ....MANDI.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ...50 feet north of main road & 50 east of ..... Roman Catholic Church .....

DISTANCE FROM VILLAGE ....Central .....

ACCESS .....Track.....

SITE KNOWN TO.....Maimbe, Richardson (D.D.A.).....

TYPE OF AQUIFER ...Sand & alluvium .....

DETAILS OF SCHEME ...Standard sanitary well.....

.....

.....

.....

MATERIALS REQUIRED .....As per standard ~~xx~~ drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) .....100.....

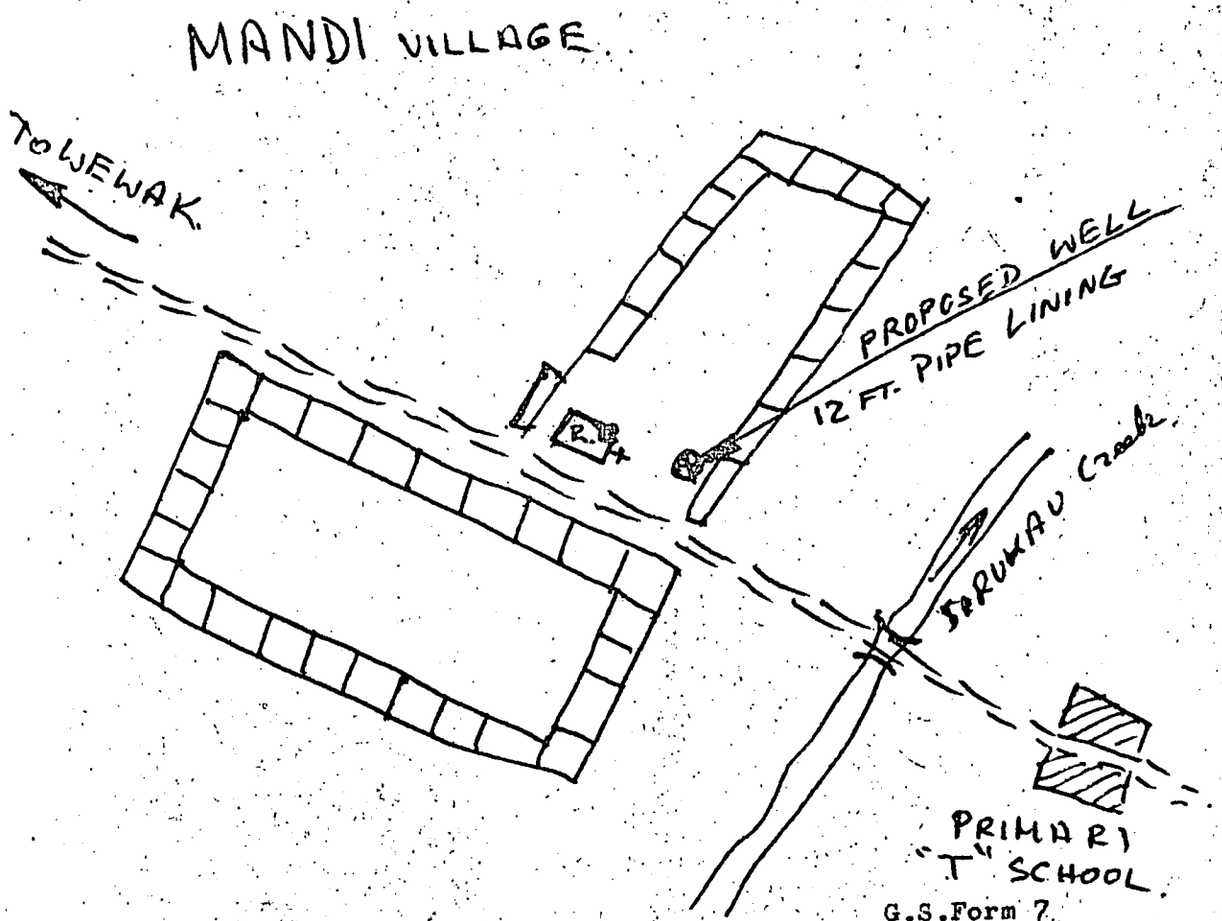
ALTERNATIVE SCHEME .....

.....

PRIORITY .~~Second~~..... Signed ..J.R.L. Read... Date ..21/10/66

LOCATION MAP

Film 7, photos 6 & 7.



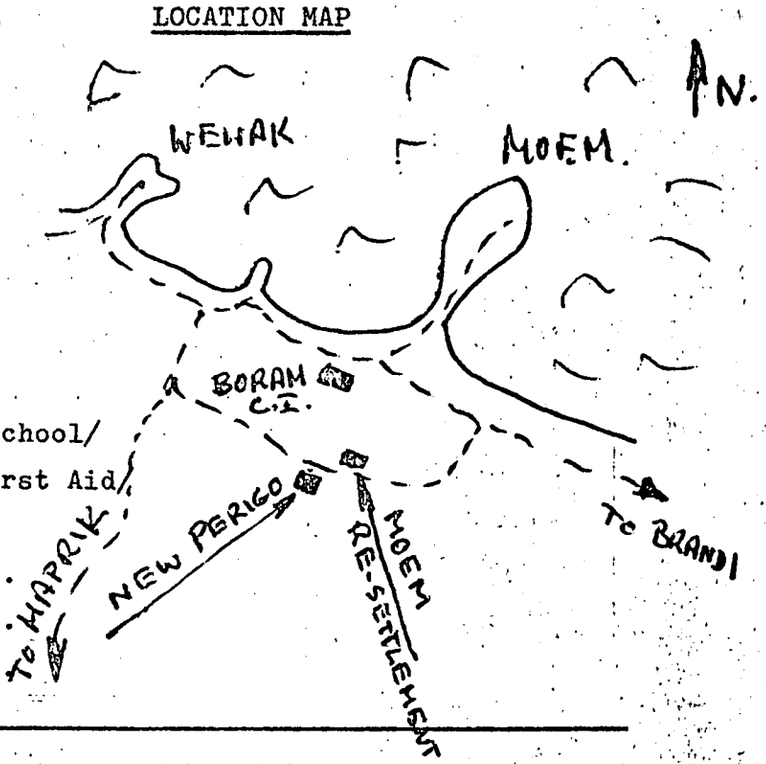
G.S.Form 7.

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES .....EAST SEPIK.....DISTRICT

VILLAGE ... NEW MOEM.....
COUNCIL ..Wewak Dut.....
WORKS DIVISION ..Wewak Dut.....
SUB-DISTRICT ..Wewak.....
POPULATION ...63.....
ACCESS ...Road.....
.....
MEMBER/COUNCILLOR Kypinjaba.....
.....
PRESENT USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Post/Irrigation
PLANNED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

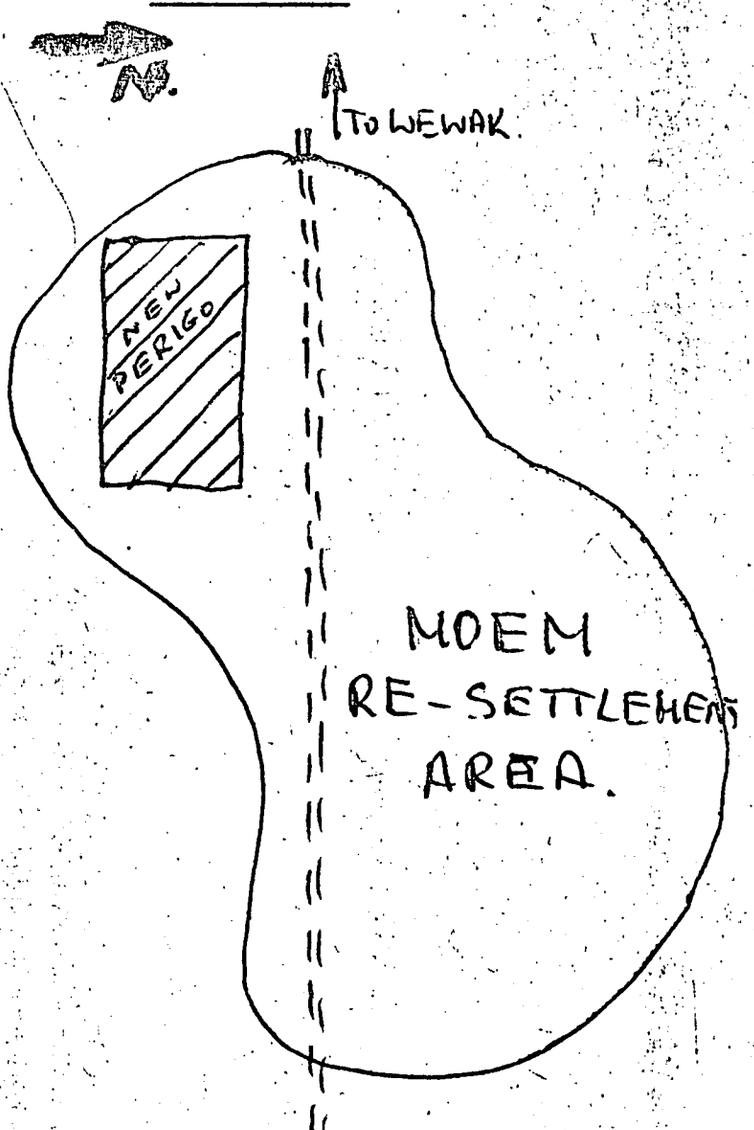
LOCATION MAP



PRESENT SUPPLY

RAINFALL .....80.....
DRY SEASON From ..Nov... to .April.
TYPE .....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .Village re-settled from ...
site of proposed Boram airstrip.....
.....
.....
WET SEASON From ..May.... to .Oct..
TYPE .....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

...IST OF VILLAGE WATER SUPPLIES ....EAST SEPIK.....DISTRICT

...AGE ...NEW NOEM.....

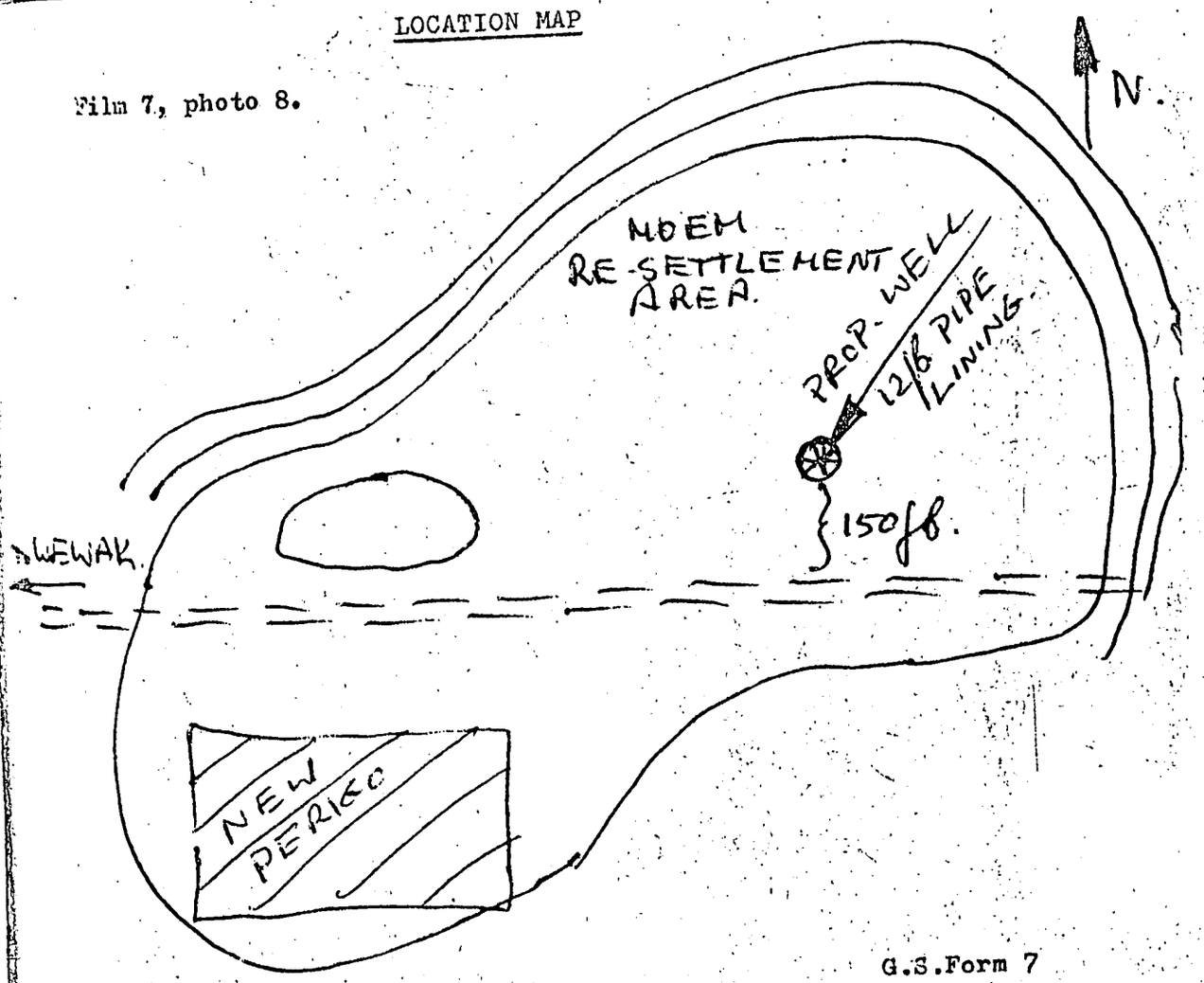
RECOMMENDATIONS

...E OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

...ATION OF NEW SUPPLY ...Village central, 150 feet north .....
...of main road .....
...NCE FROM VILLAGE ..Central .....
...S .....Track .....
...FROM TO...Kwainjaba, Richardson (D.D.A.) .....
...OF AQUIFER ..Sand & alluvium .....
...LS OF SCHEME ..Standard sanitary well .....
.....
.....
.....
...ERIALS REQUIRED ...As per standard draving .....
.....
...OUR REQUIRED .....Local .....
...ERVISION .....Local .....
...IMATED COST (£) ....100 .....
...RNATIVE SCHEME .....
.....
...ORITY ..Second..... Signed .J.R.L. Read.... Date .21/10/66

LOCATION MAP

Film 7, photo 8.



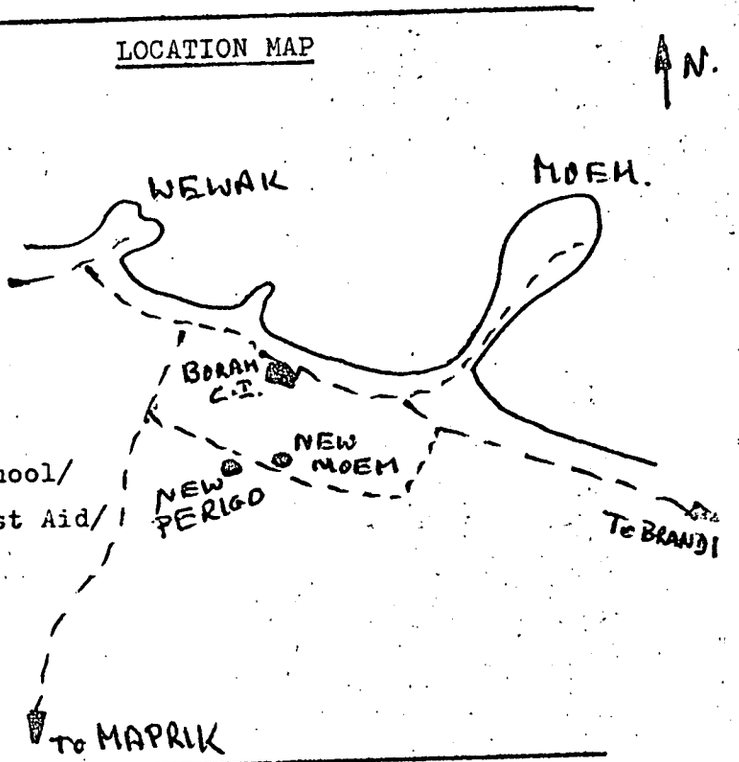
G.S.Form 7

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ..MAST. SEPIK.....DISTRICT

VILLAGE ...NEW PERIGO.....
COUNCIL ...Wewak.But.....
CENSUS DIVISION ..Wewak.But.....
SUB-DISTRICT ....Wewak.....
POPULATION .....
ACCESS .....Road.....
.....
HEADMAN/COUNCILLOR .....
.....
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

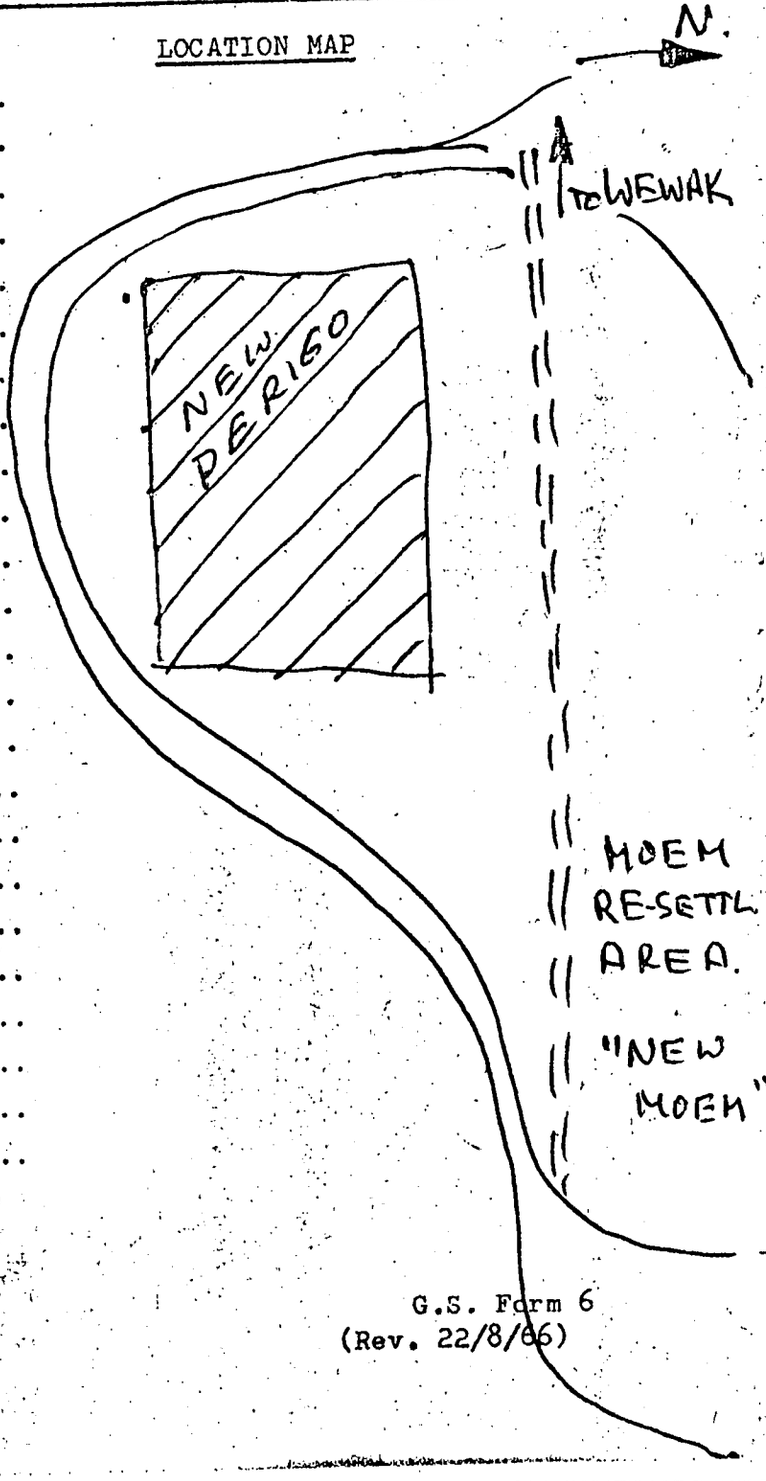
LOCATION MAP



PRESENT SUPPLY

RAINFALL .....80.....
WET SEASON From ..Nov.. to .April.
TYPE .....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION .....
REMARKS ..Village re-settled from
..site of proposed Boram airstrip...
.....
.....
DRY SEASON From ..May.... to ..Oct..
TYPE .....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ...EAST SEPIK.....DISTRICT

VILLAGE ...NEW ~~KKXEH~~..PERIGO... RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ....Village central, ~~200 feet away~~.....

.....

DISTANCE FROM VILLAGE ....Central.....

ACCESS .....Track.....

SITE KNOWN TO...Richardson.(D.D.A.).....

TYPE OF AQUIFER ...Sand.&.alluvium.....

DETAILS OF SCHEME ...Standard.sanitary.well.....

.....

.....

.....

MATERIALS REQUIRED ....As.per.standard.drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

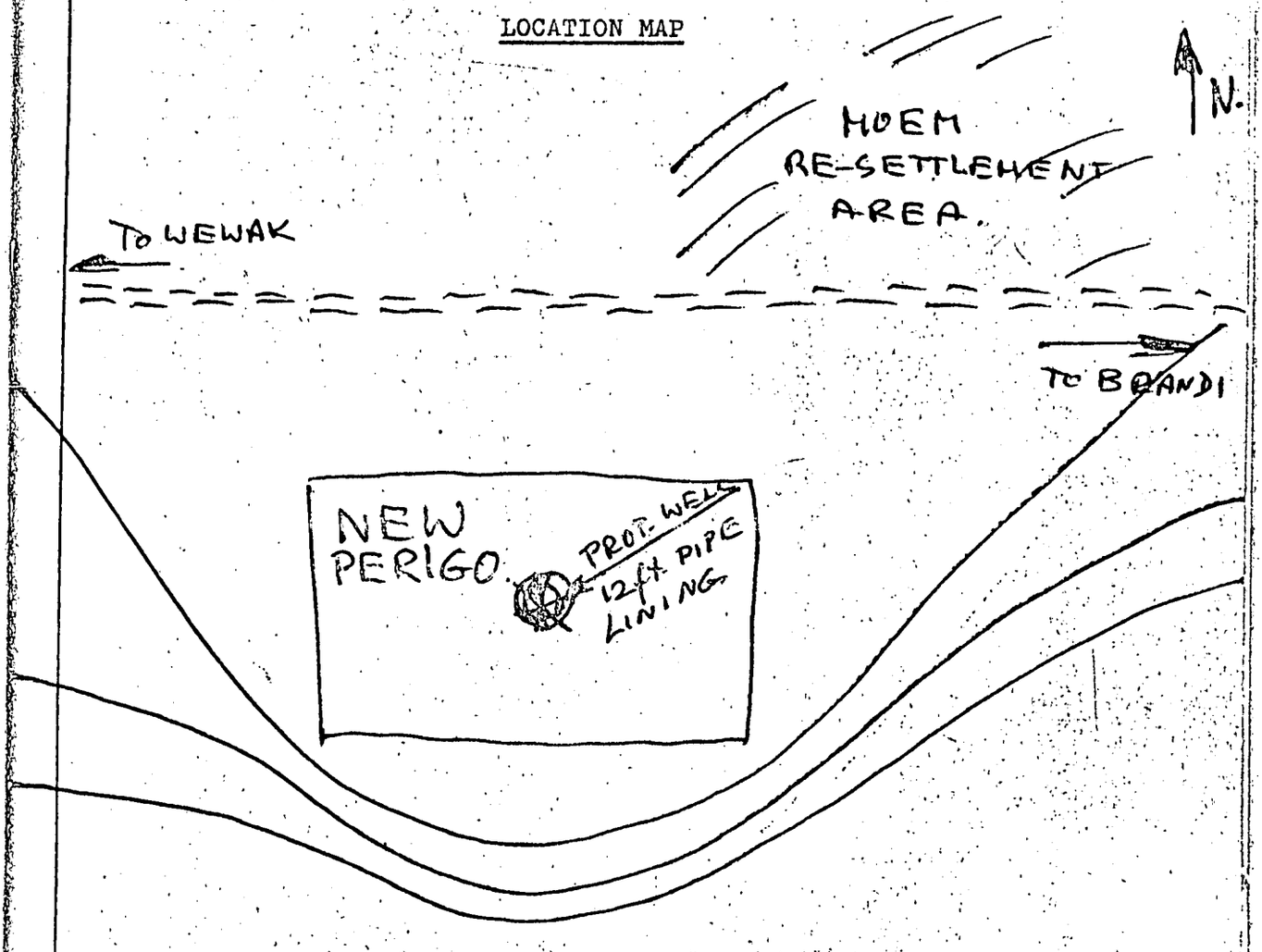
ESTIMATED COST ($) .....100.....

ALTERNATIVE SCHEME .....

.....

PRIORITY ..Second..... Signed .J.R.L. Read..... Date .21/10/66

LOCATION MAP



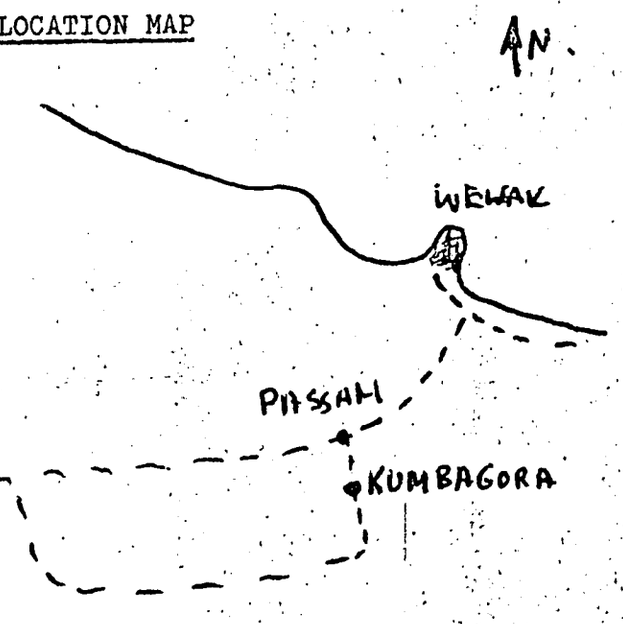
G.S.Form 7

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ...MT. HAGEN.....DISTRICT

VILLAGE ..KUMBAGORA.....
COUNCIL ..Jevak But.....
CENSUS DIVISION ....Jevak But....
SUB-DISTRICT ....Jevak.....
POPULATION ...183.....
ACCESS ..Road...18.miles.from.....
...Jevak.....
MEMBER/COUNCILLOR .Kundimeri....
.....
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

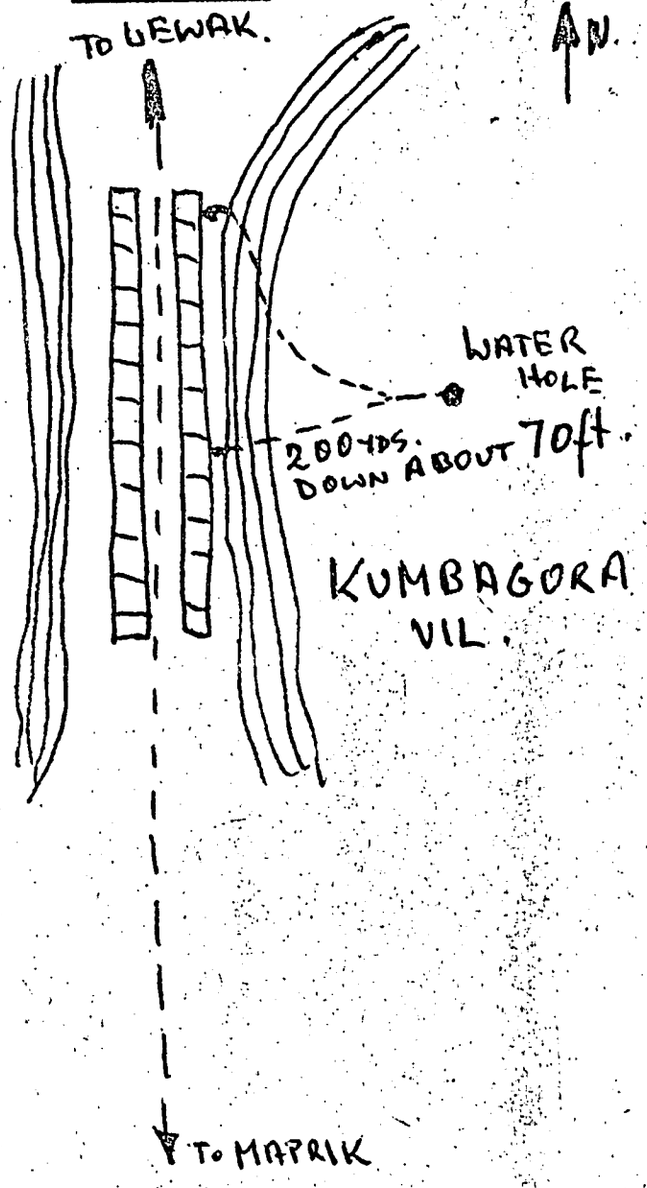
LOCATION MAP



PRESENT SUPPLY

RAINFALL ....80.....
DRY SEASON From .Oct.... to .May...
TYPE ..Shallow soak.....
DISTANCE FROM VILLAGE .2-3.mins....
TRANSPORT ...Track.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION ...Nil.....
REMARKS .....
.....
.....
.....
WET SEASON From .June.... to ..Sept
TYPE ....As above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ...EAST SEPIK.....DISTRICT

VILLAGE ..KUMBAGORA.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ...At existing water supply.....

.....

DISTANCE FROM VILLAGE .....2-3 mins.....

ACCESS .....Track.....

SOURCE KNOWN TO....kundimeri.....

TYPE OF AQUIFER ...Silty alluvium.....

DETAILS OF SCHEME ...Develop existing shallow soak into a.....

.....standard sanitaryx well. Two pipes only will be required....

.....

.....

MATERIALS REQUIRED ...As pe standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) .....100.....

ALTERNATIVE SCHEME ..Nylex catchments & 2, 2000 gal storage tanks,...

...cost $1000.....

PRIORITY ..Second..... Signed ..J.B.L..Read.... Date 8/11/66.

LOCATION MAP

Film 8, photo 7.

Develop existing water hole into sanitary water well installation.

KUMBAGORA vil.

G.S.Form 7

SAUSSIA COUNCIL - WEWAK SUB DISTRICT

YANGORU COUNCIL - MAPRIK SUB DISTRICT

SUMMARY OF SURVEY OF VILLAGE WATER SUPPLIES - SAUSSIA COUNCIL AND YANGORU COUNCIL

VILLAGE	POPULATION	TYPE OF SCHEME	NO. OF PIPES	ESTIMATED COST $	PRIORITY	REMARKS
URIMO D.A.S.F.(76)	32				First	Planned development of reticulated supply
Nagun Mission (77)	242	Catchment				Catchment from Station buildings
Rabiawa (78)	181	Well	2	100	Second	Silty alluvium 200 yards from village
Rabundogum (79)	276	Well	3	100	Second	Silty clay and gravel 200 yards from village
Bararat (80)	182	Well	3	100	Second	Silty clay and gravel 200 yards from village
Maperinga (81)	115	Well	2	100	Second	Natural spring 500 yards from village.
Kubalia Base Camp (82)	136	Well	4	100	Second	Sand and gravel. Additional catchment
Toananbu (83)	426	Catchment		1500	Second	Nylex catchment and concrete tank
Munji (84)	374	Stream		100	Second	Provision of protection and pumps only
Wamoin (85)	235	Catchment		1000	Second	Nylex catchment and fibreglass pumps
Kininyan (86)	137	Catchment		500	Second	Nylex catchment and fibreglass tanks
Kwagwi (87)	300					No Recommendation
Kwagri (88)	280					No Recommendation
Pachan (89)	164	Catchment		600	Second	Nylex catchment and fibreglass tanks
Sausenduan (90)	131	Well	4	100	Second	Silty clay & gravel In Village

SUMMARY OF SURVEY OF VILLAGE WATER SUPPLIES - SAUSSIA COUNCIL AND YANGOKU COUNCIL

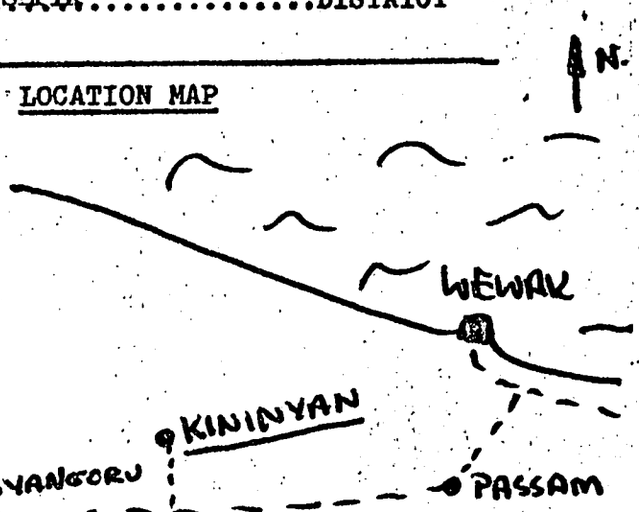
VILLAGE	POPULATION	TYPE OF SCHEME	NO. OF PIPES	ESTIMATED COST $	PRIORITY	SUMMARY
Bukinara (91)	120	Catchment		500	Second	Nylex catchment and fibreglass tank
Kaboibus 1&2 (92)	480	Catchment		2000	Second	Nylex catchment and fibreglass and concrete tanks

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ...EAST SEPIK.....DISTRICT

VILLAGE ...KININYAN.....
COUNCIL ...Sausia.....
CENSUS DIVISION ...Sausia.....
SUB-DISTRICT ...Wewak.....
POPULATION ...137.....
ACCESS ..Road..61 miles from Wewak
.....
HEADMAN/COUNCILLOR .Waliongra....
.....
WATER USE - Domestic/Government School/Administration/Mission School/Hospital/First Aid/Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

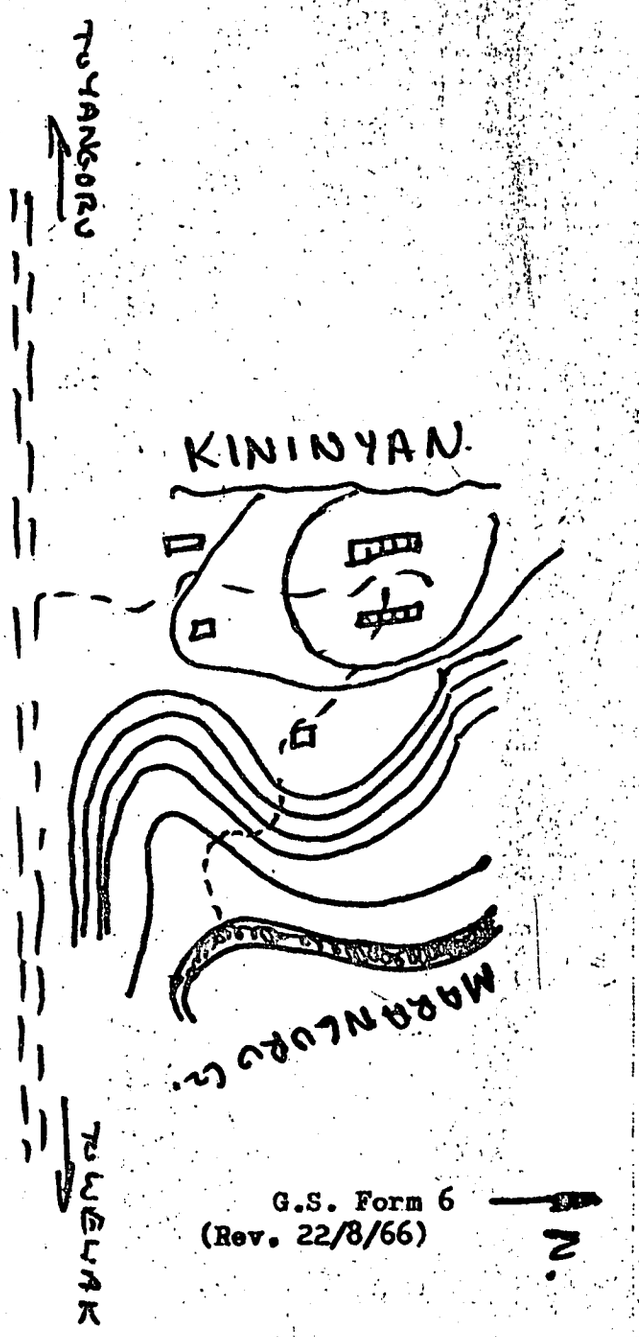
LOCATION MAP



PRESENT SUPPLY

RAINFALL .....80.....
DRY SEASON From ..Oct... to .May...
TYPE ...Stream.....
DISTANCE FROM VILLAGE .Considerable
TRANSPORT ....Track.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION .....Nil.....
REMARKS ..Village on high ridge....
.....
.....
.....
WET SEASON From ..June... to .Sept.
TYPE ...As above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & N...

SURVEY OF VILLAGE WATER SUPPLIES ...WEST SEPIK.....DISTRICT

VILLAGE ....KININYAN.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ...Village central.....

.....

DISTANCE FROM VILLAGE .....Central.....

ACCESS .....Track.....

SITE KNOWN TO...Waliongra.....

TYPE OF AQUIFER .....

DETAILS OF SCHEME ...Nylex catchment & 1,, 2000. gal. storage tank.....

.....

.....

.....

MATERIALS REQUIRED ....As per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

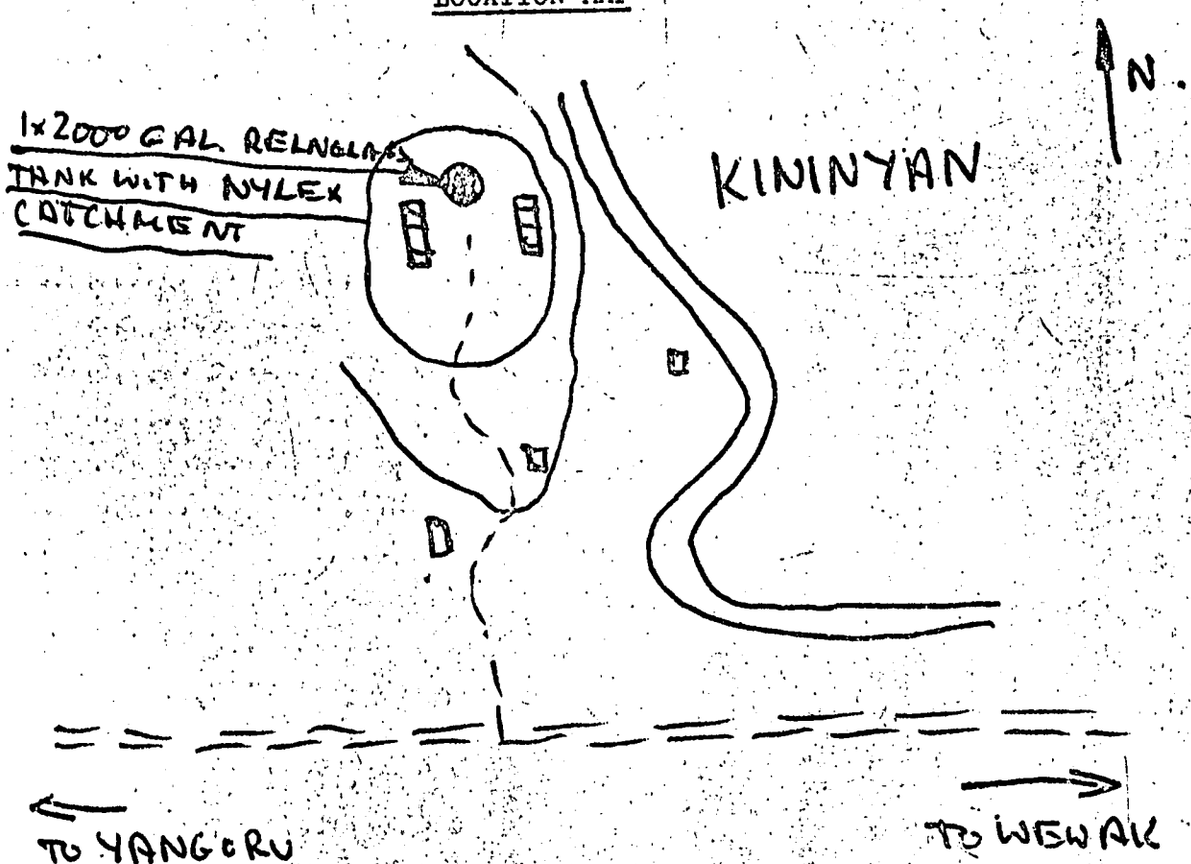
ESTIMATED COST ($) ....500.....

ALTERNATIVE SCHEME .....

.....

PRIORITY ..Second..... Signed .J.R.L. Read.... Date .10/11/66

LOCATION MAP



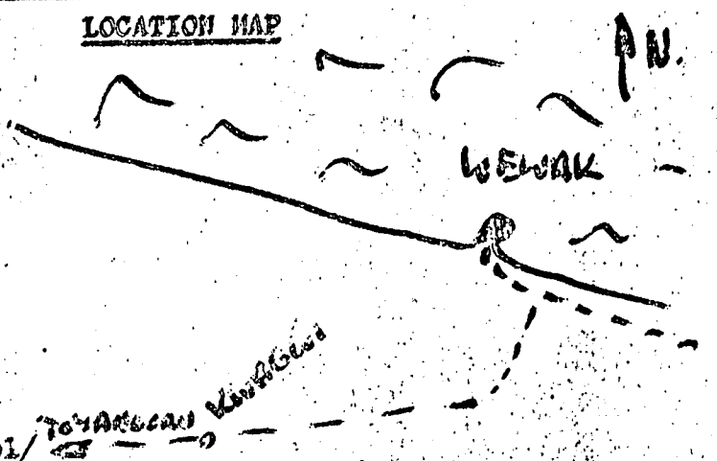
G.S.Form 7

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES .....A.S...4.11.....DISTRICT

VILLAGE ...KWAGWI.....
COUNCIL ..Yonggom.....
CENSUS DIVISION ...Yonggom.....
SUB-DISTRICT ....Kiunga.....
POPULATION .....200.....
HOUSES .....Nil.....
.....
HEADMAN/COUNCILLOR .Kwaguwia...
.....
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Bank/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

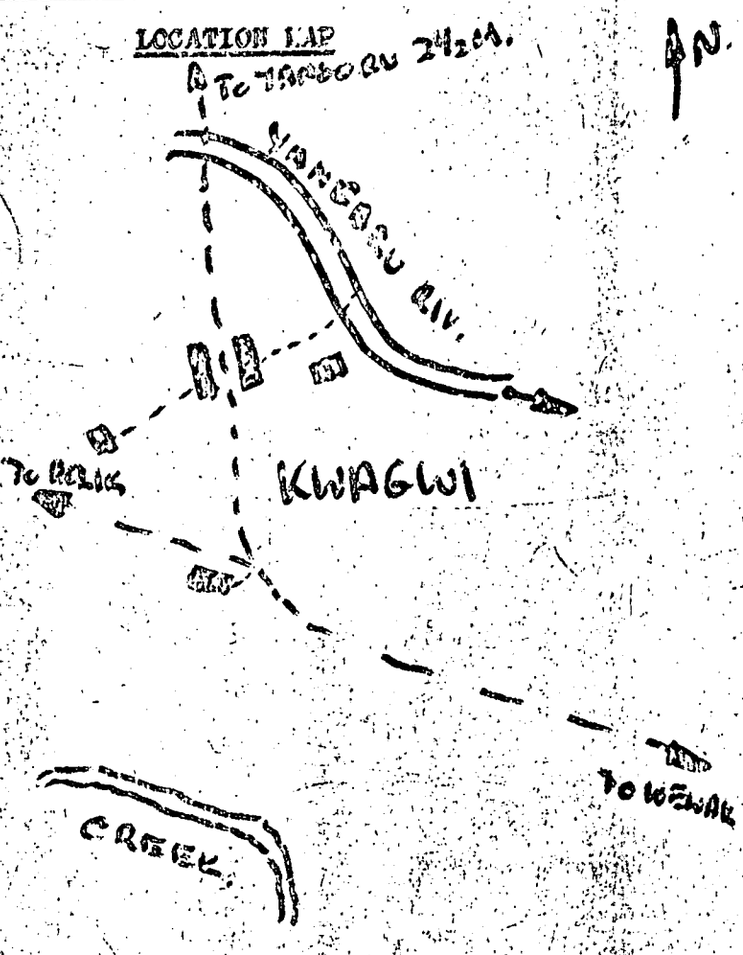
LOCATION MAP



PRESENT SUPPLY

RAINFALL .....60.....
WET SEASON From ..Nov... to ..April..
SOURCE .....Yonggom River.....
DISTANCE FROM VILLAGE .Alongside....
TRANSPORT ...Truck.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bacteriological .....
CONDITION .....
REMARKS .....
.....
.....
.....
DRY SEASON From ..May.... to ..Oct..
SOURCE ...As above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bacteriological .....
CONDITION .....
REMARKS Village is spread out alongside
river. River last flooding. Fre
pollution. Water supply considered
adequate. No recommendations.

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

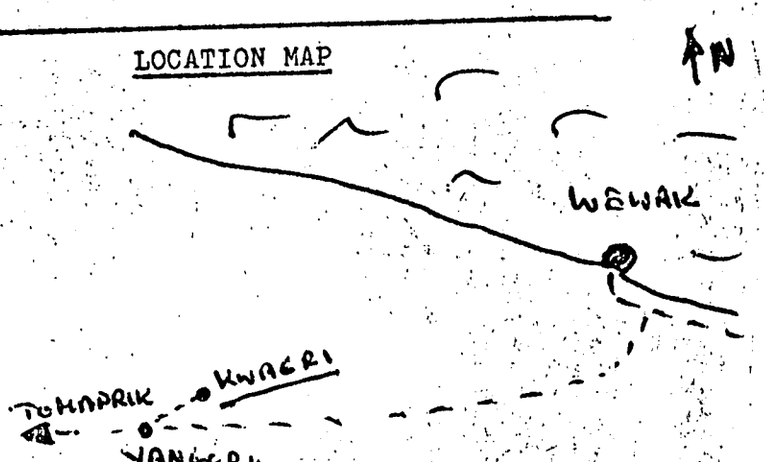
TERRITORY OF PAPUA & NEW GUINEA

...N OF VILLAGE WATER SUPPLIES .....DISTRICT

...B .....
...Yangoru.....
...DIVISION ..Maragam.....
...DISTRICT ..Maprik.....
...ATION .....280.....
...E .....
.....
...R/COUNCILLOR .....
.....

...SE - Domestic/Government School/
.../Mission School/Hospital/First Aid/
.../Irrigation
...TED DEVELOPMENT .....
.....
...TED DEMAND .....

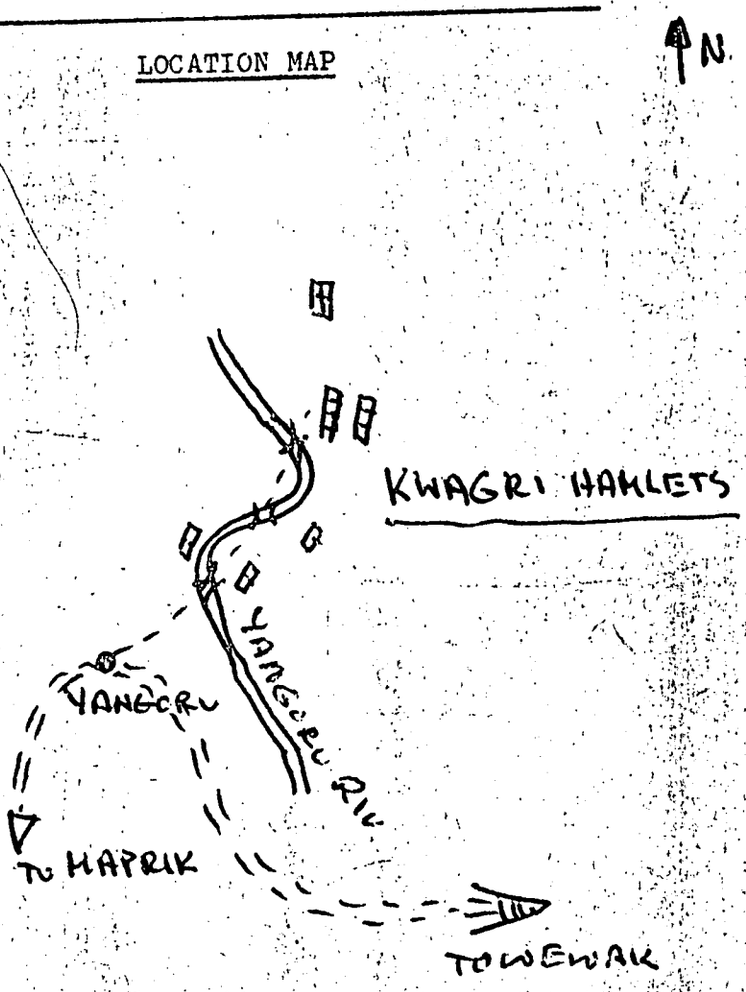
LOCATION MAP



PRESENT SUPPLY

...PPLY .....66.....
...SON From .Nov... to .April.
...Yangoru River.....
...CE FROM VILLAGE .Alongside...
...ORT ...Track.....
.../RATE OF FLOW .....
...TY - Chemical .....
Bactereological .....
...TION .....
...S .....
.....
.....
.....
...SON From ...AX.... to .Oct..
...do.above.....
...CE FROM VILLAGE .....
...ORT .....
.../RATE OF FLOW .....
...TY .....Chemical .....
Bactereological .....
...TION .....
...S ..Village is spread out alongside
...River. River fast flowing & free
...olution. Water supply considered
...nto. No recommendations.

LOCATION MAP



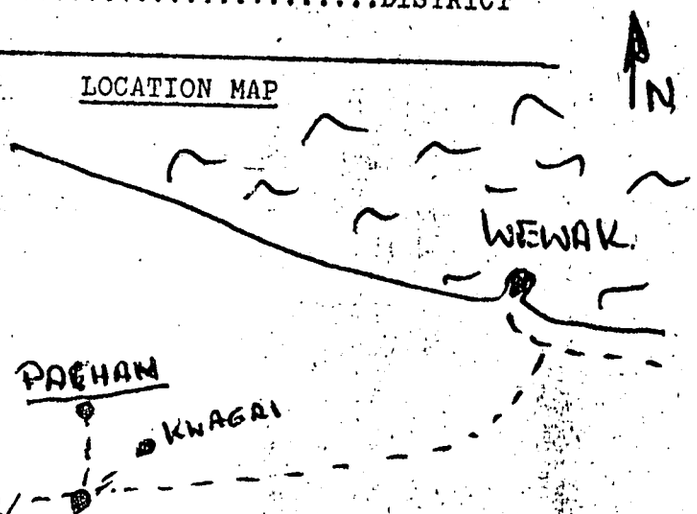
G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ....EAST.SEPIK.....DISTRICT

VILLAGE .....PACHAN.....
COUNCIL .....Yangoru.....
CENSUS DIVISION ....Yangoru.....
SUB-DISTRICT .....Maprik.....
POPULATION ....164.....
ACCESS .....Road.....
.....
MEMBER/COUNCILLOR ...Peni.....
.....
WATER USE - Domestic/Government School/Mission/Mission School/Hospital/First Aid/Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

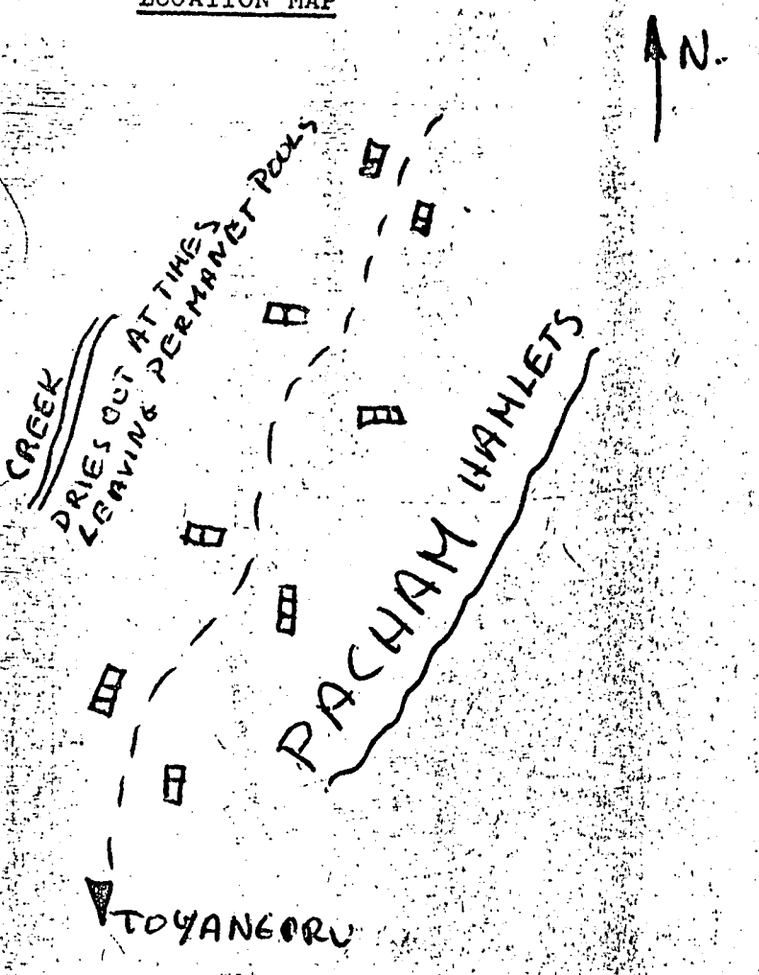
LOCATION MAP



PRESENT SUPPLY

RAINFALL .....60.....
DRY SEASON From ..Nov... to .April.
TYPE ...Stream.....
DISTANCE FROM VILLAGE ..½ mile.....
TRANSPORT ..Track.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION ...Nil.....
REMARKS .Village along ridge.....
.....
.....
.....
WET SEASON From ...May... to ...Oct
TYPE ....As above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ...EAST...SEPIK.....DISTRICT

VILLAGE ...PACHAN.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY .One.catchment.at.each.on.of.the.village.....

.....

DISTANCE FROM VILLAGE .....

ACCESS .....Track.....

SITE KNOWN TO...Bailey.(D.D.A.).....

TYPE OF AQUIFER .....

DETAILS OF SCHEME ..2 ~~4x1000~~ .Nylex.catchments.& 2,.1000.gal.....

.....storage tanks.....

.....

.....

MATERIALS REQUIRED ...As.per.standerd.drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) .....600.....

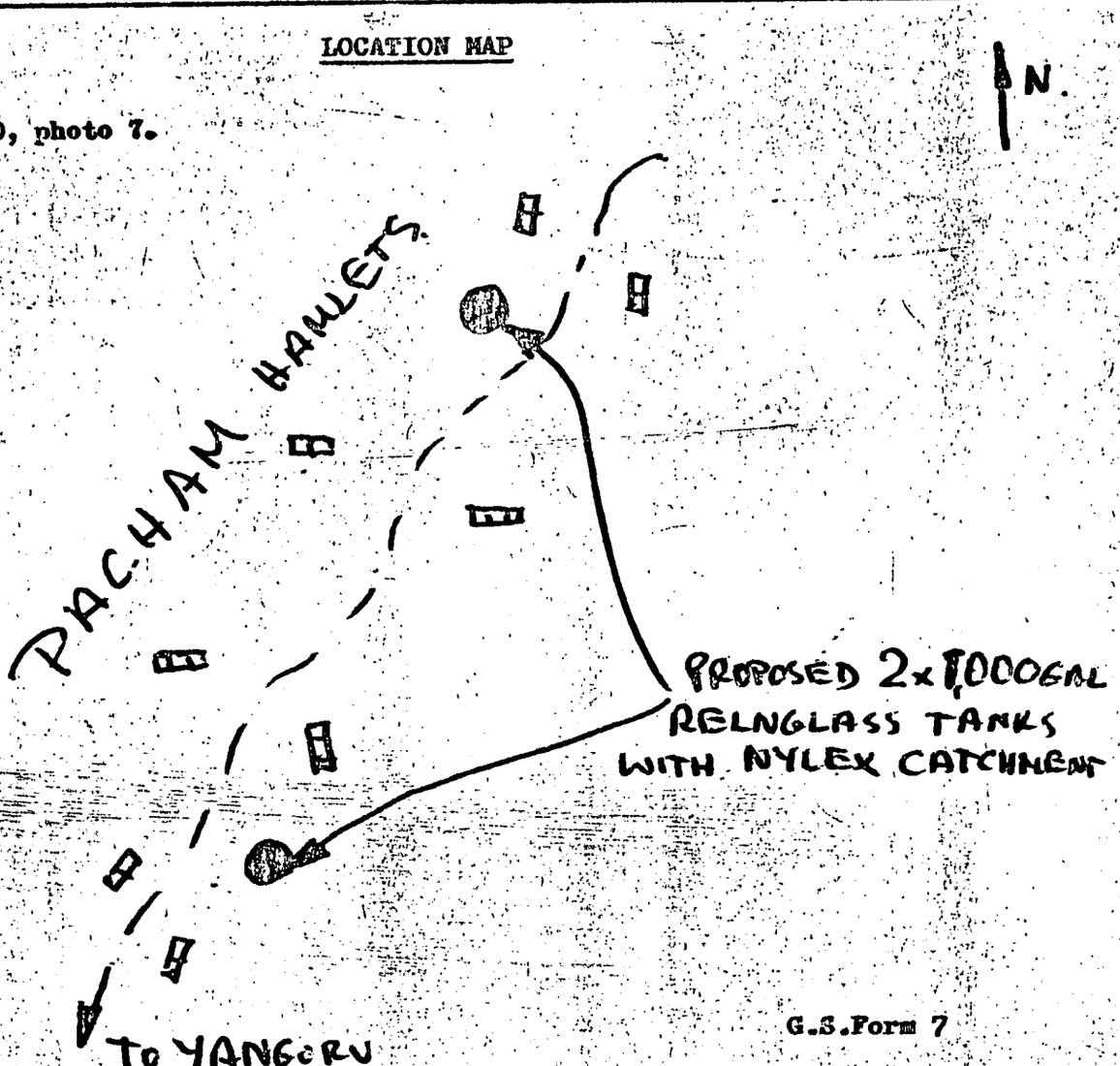
ALTERNATIVE SCHEME .....

.....

PRIORITY .....Second..... Signed .J.B.L..Read..... Date .10/11/66

LOCATION MAP

Film 9, photo 7.



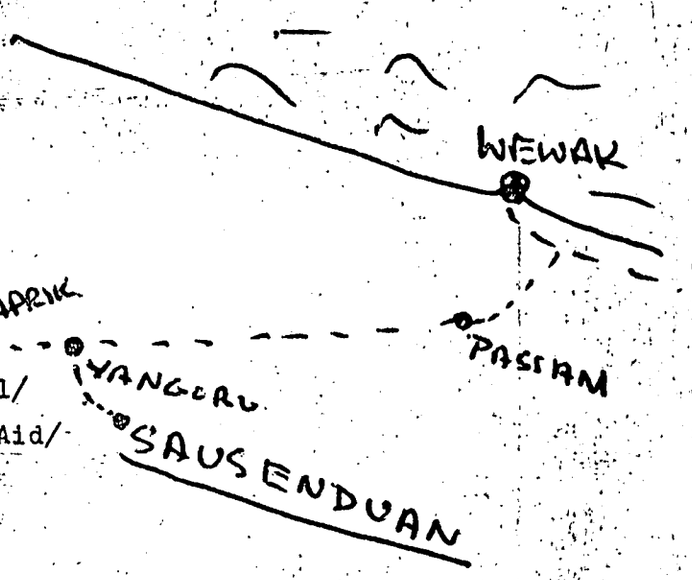
G.S.Form 7

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ....EAST SEPIK.....DISTRICT

VILLAGE ..SAUSENDUAN.....
COUNCIL ...Yangoru.....
CENSUS DIVISION ....Yangoru.....
SUB-DISTRICT ...Kaprik.....
POPULATION ..131.....
ACCESS ...Road.....
.....
HEADMAN/COUNCILLOR .....
.....
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

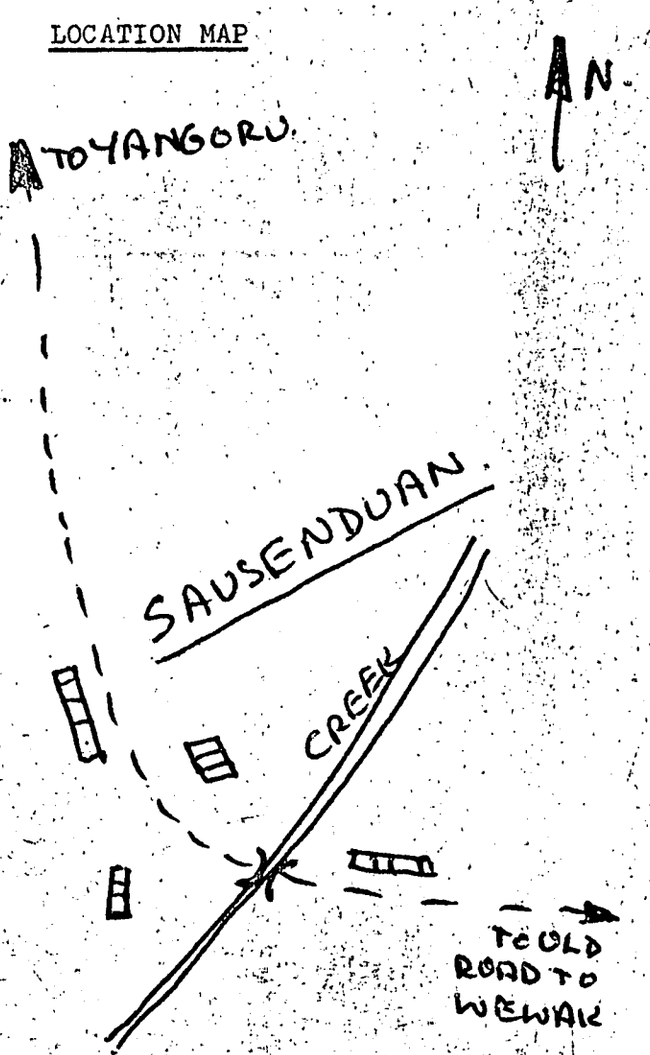
LOCATION MAP



PRESENT SUPPLY

RAINFALL .....60.....
DRY SEASON From .Nov.... to .April.
TYPE ...Small stream.....
DISTANCE FROM VILLAGE .Central.....
TRANSPORT ...Track.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION ....Nil.....
REMARKS .....
.....
.....
.....
WET SEASON From ..May.... to .Oct.
TYPE .....As. above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ....EAST SEPIK.....DISTRICT

VILLAGE ...SAUSENDUAN.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ..30. feet. east. of. bridge .over creek which.... .....runs. through. the. centre. of. the. village.....

DISTANCE FROM VILLAGE ..Central.....

ACCESS .....Track.....

SITE KNOWN TO... Bailey. (D.D.A.).....

TYPE OF AQUIFER ...Silty clay. & gravel.....

DETAILS OF SCHEME ..Standard. sanitary. well. 4 pipes.....

.....

.....

.....

MATERIALS REQUIRED ....As per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) .....100.....

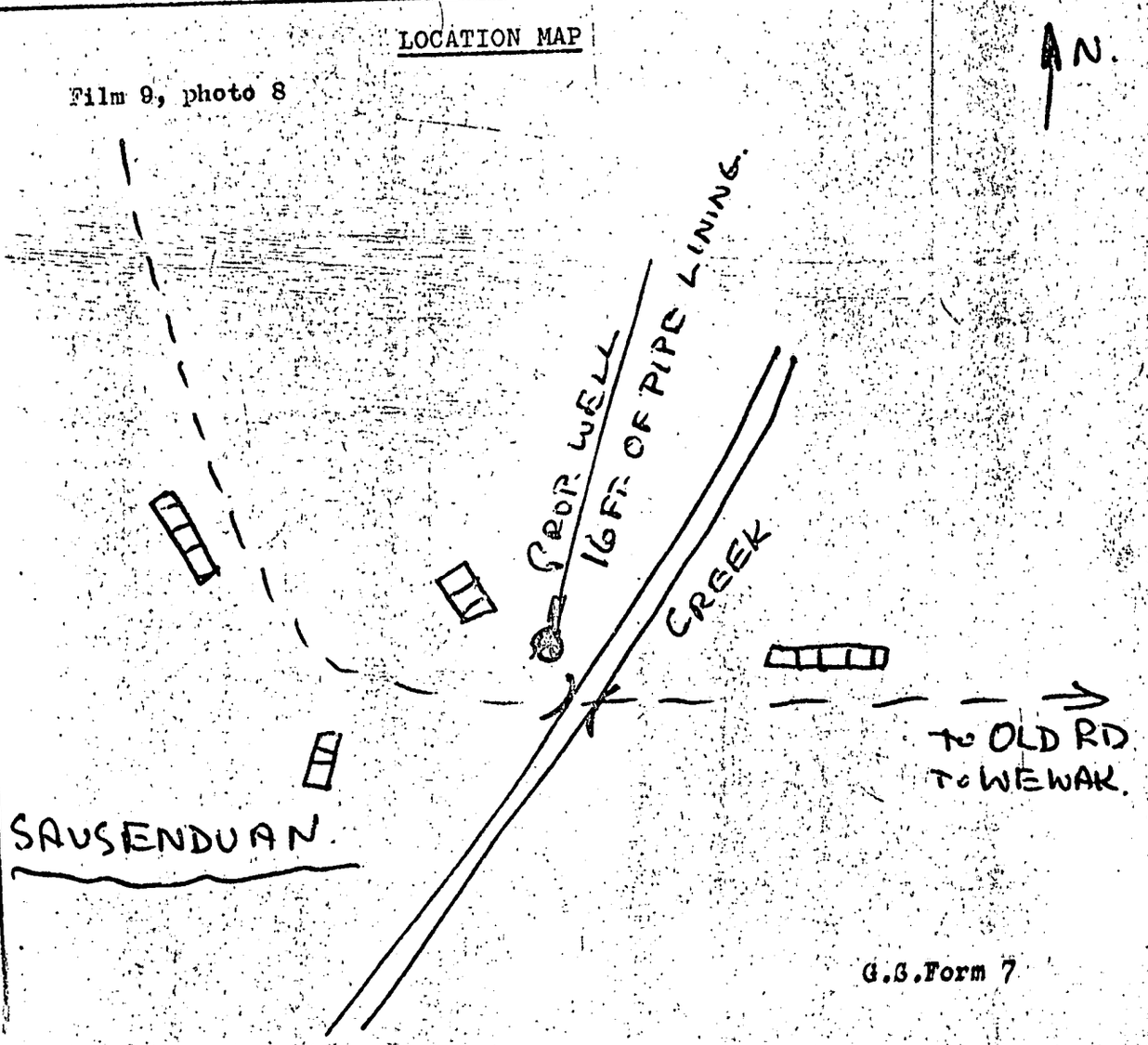
ALTERNATIVE SCHEME .....

.....

PRIORITY ...Second..... Signed ...J.H.L. Read... Date .10/11/66

LOCATION MAP

Film 9, photo 8



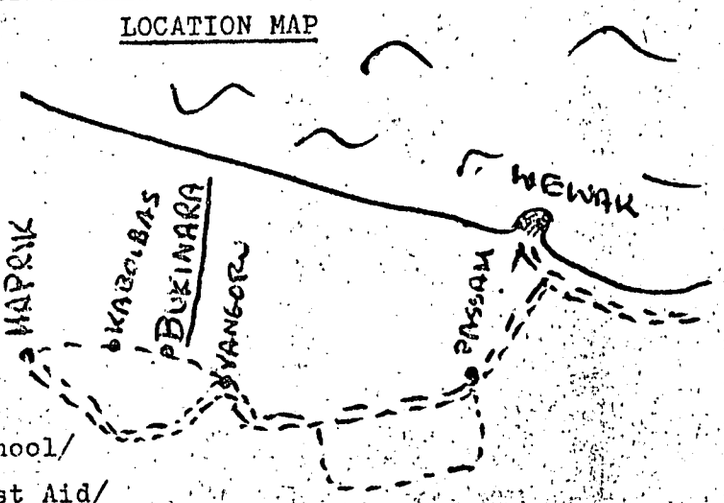
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TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES .....AST. SEPIK.....DISTRICT

VILLAGE ..BUKINARA.....
COUNCIL ...Yangoru.....
CENSUS DIVISION ..Yangoru.....
SUB-DISTRICT ....Maprik.....
POPULATION ...120.....
ACCESS ..Road.....
.....
HEADMAN/COUNCILLOR .....
.....
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

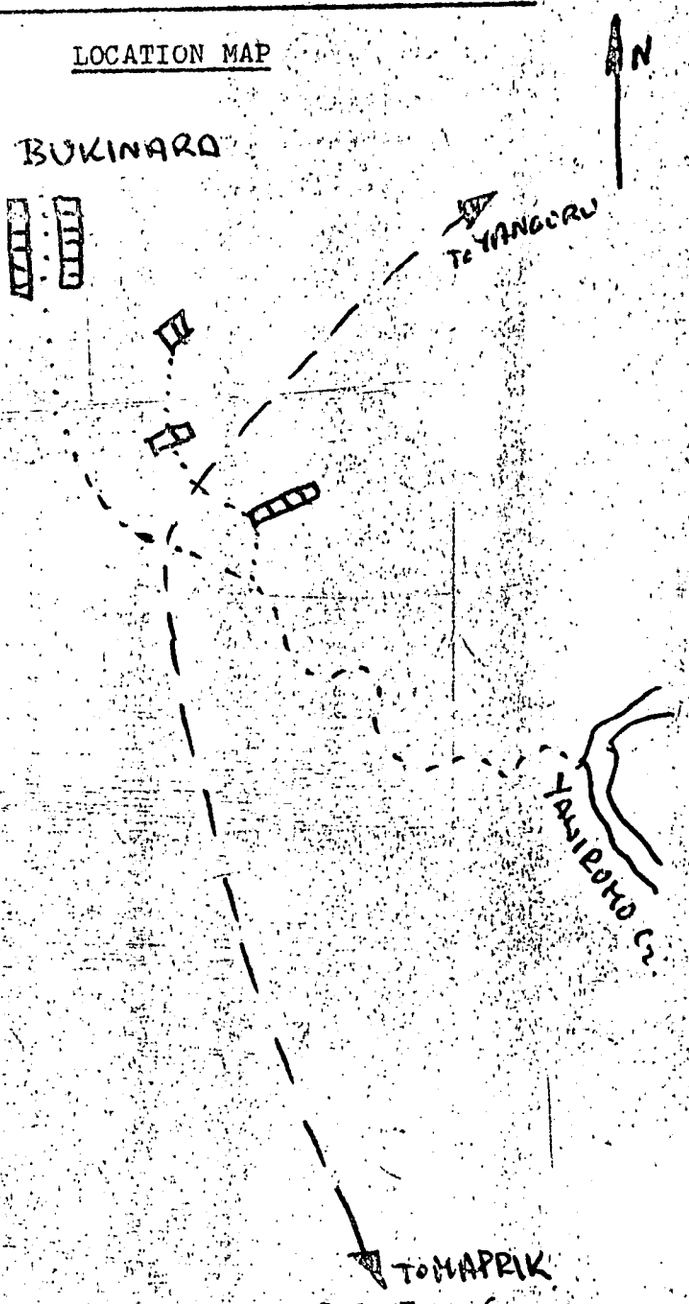
LOCATION MAP



PRESENT SUPPLY

RAINFALL .....60.....
WET SEASON From ..Nov.... to ..April
TYPE ...Small stream.....
DISTANCE FROM VILLAGE ..½ mile.....
TRANSPORT ...Track.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION .....Nil.....
REMARKS ..Village on high ridge-top.
.....
.....
.....
DRY SEASON From ..May.... to ...Oct
TYPE .....As above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ....EAST SEPIK.....DISTRICT

VILLAGE ....BUKINARA..... RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ....Village central.....

.....

DISTANCE FROM VILLAGE .....Central.....

ACCESS .....Track.....

SITE KNOWN TO....Bailey..(D.D.A.).....

TYPE OF AQUIFER .....

DETAILS OF SCHEME ....Nylex catchment & 1, 2000 gal. storage tank..

.....

.....

.....

MATERIALS REQUIRED ....As per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

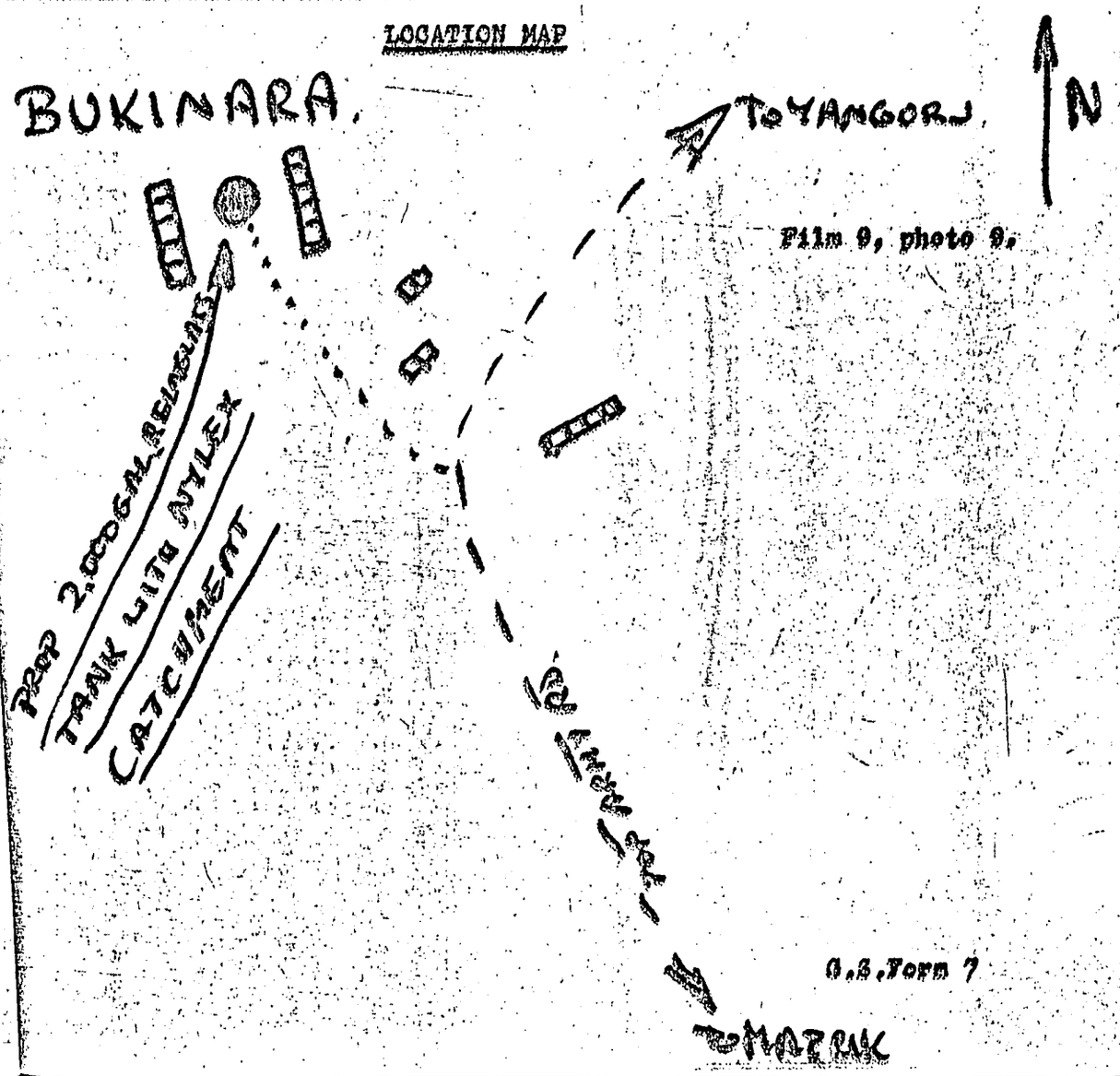
ESTIMATED COST ($) .....500.....

ALTERNATIVE SCHEME .....

.....

PRIORITY ....Second..... Signed ..J.R.L. Read.... Date ..11/11/66

LOCATION MAP



G.S. Form 7

TERRITORY OF PAPUA & NEW GUINEA

ENTRY OF VILLAGE WATER SUPPLIES ... EAST SEPIK .....DISTRICT

VILLAGE ... KABOIBUS Nos. 1 & 2 ...

COUNCIL .... Yangoru .....

CENSUS DIVISION ... Yangoru .....

SUB-DISTRICT ..... Maprik .....

POPULATION ... 430 .....

ACCESS .... Road .....

.....

CHAIRMAN/COUNCILLOR .....

.....

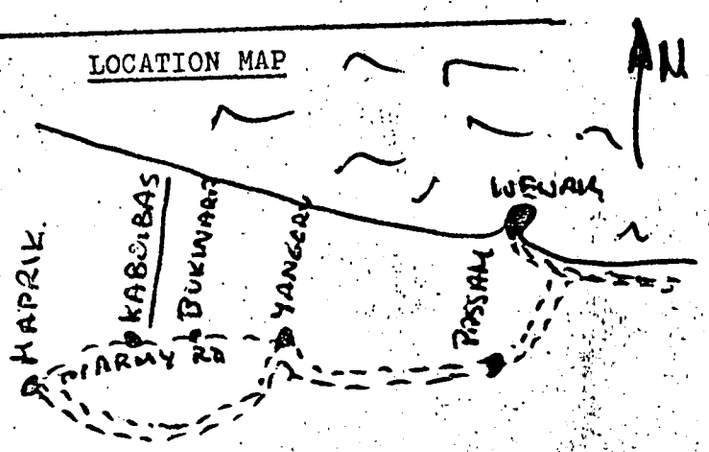
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation

PROJECTED DEVELOPMENT .....

.....

ESTIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

RAINFALL .....60.....

DRY SEASON From .Nov.... to .April.

TYPE .....Small stream.....

DISTANCE FROM VILLAGE ... ½ mile....

TRANSPORT .....Truck.....

YIELD/RATE OF FLOW .....

QUALITY - Chemical .....

Bactereological .....

PROTECTION ...Nil.....

REMARKS .Village on very.....

.....high ridge-top.....

.....

.....

WET SEASON From ..May.... to ..Oct..

TYPE .....As above.....

DISTANCE FROM VILLAGE .....

TRANSPORT .....

YIELD/RATE OF FLOW .....

QUALITY .....Chemical .....

Bactereological .....

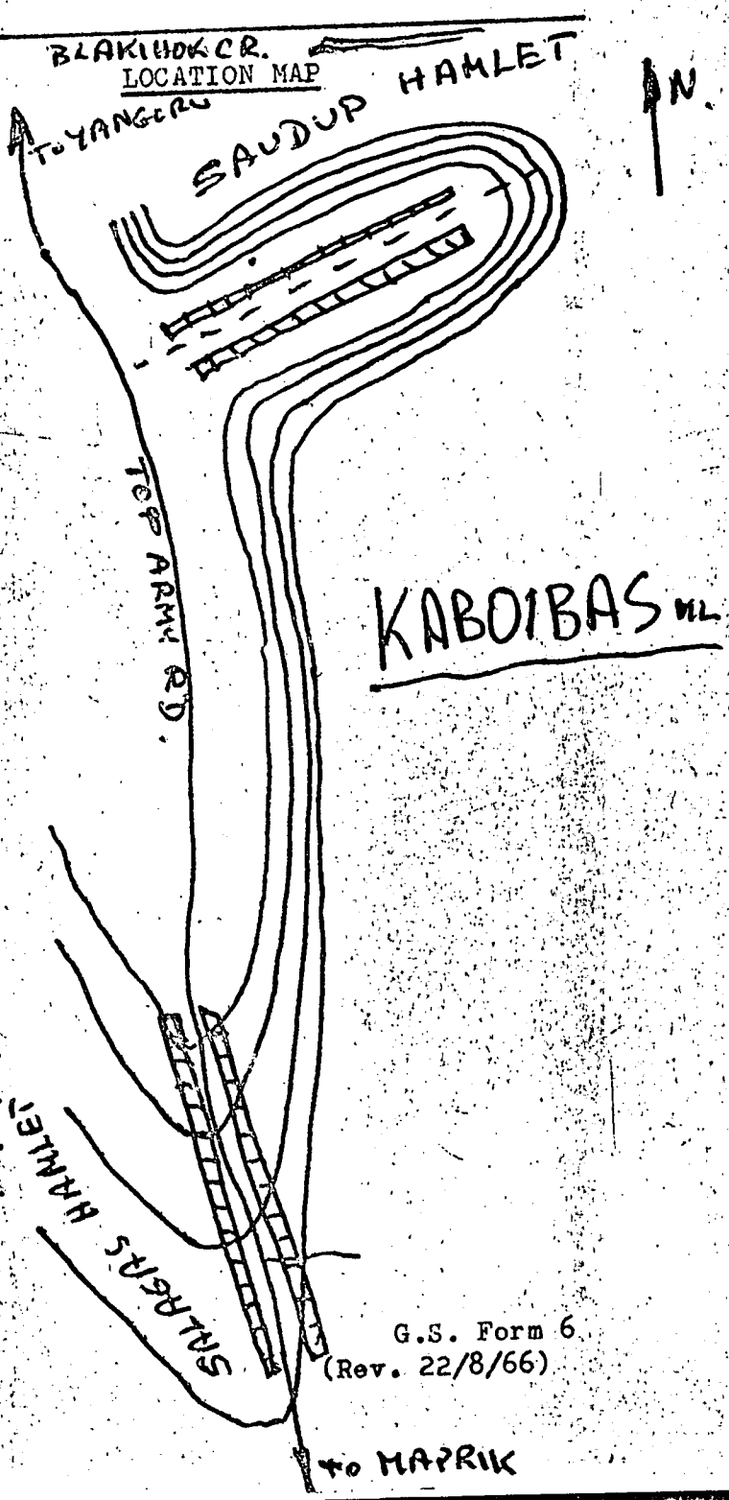
PROTECTION .....

REMARKS .....

.....

.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES .....EAST SEPIK.....DISTRICT

VILLAGE ...KABOIBUS Nos. 1 & 2. RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ...Centre of Kaboibus No. 1 (Saudup) and ..... Centre of Kaboibus No. 2. (Salagas).....

DISTANCE FROM VILLAGE .....Central.....

ACCESS .....Track.....

KNOWN TO.....Bailey (D.D.A.).....

TYPE OF AQUIFER .....

DETAILS OF SCHEME ..Nylex catchment & 1, 40,000 gal. storage tank (concrete), at Saudup and Nylex catchment & 1, 2000 gal. storage tank at Salagas.

.....

.....

MATERIALS REQUIRED ...As per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....To be provided by Public Works.....

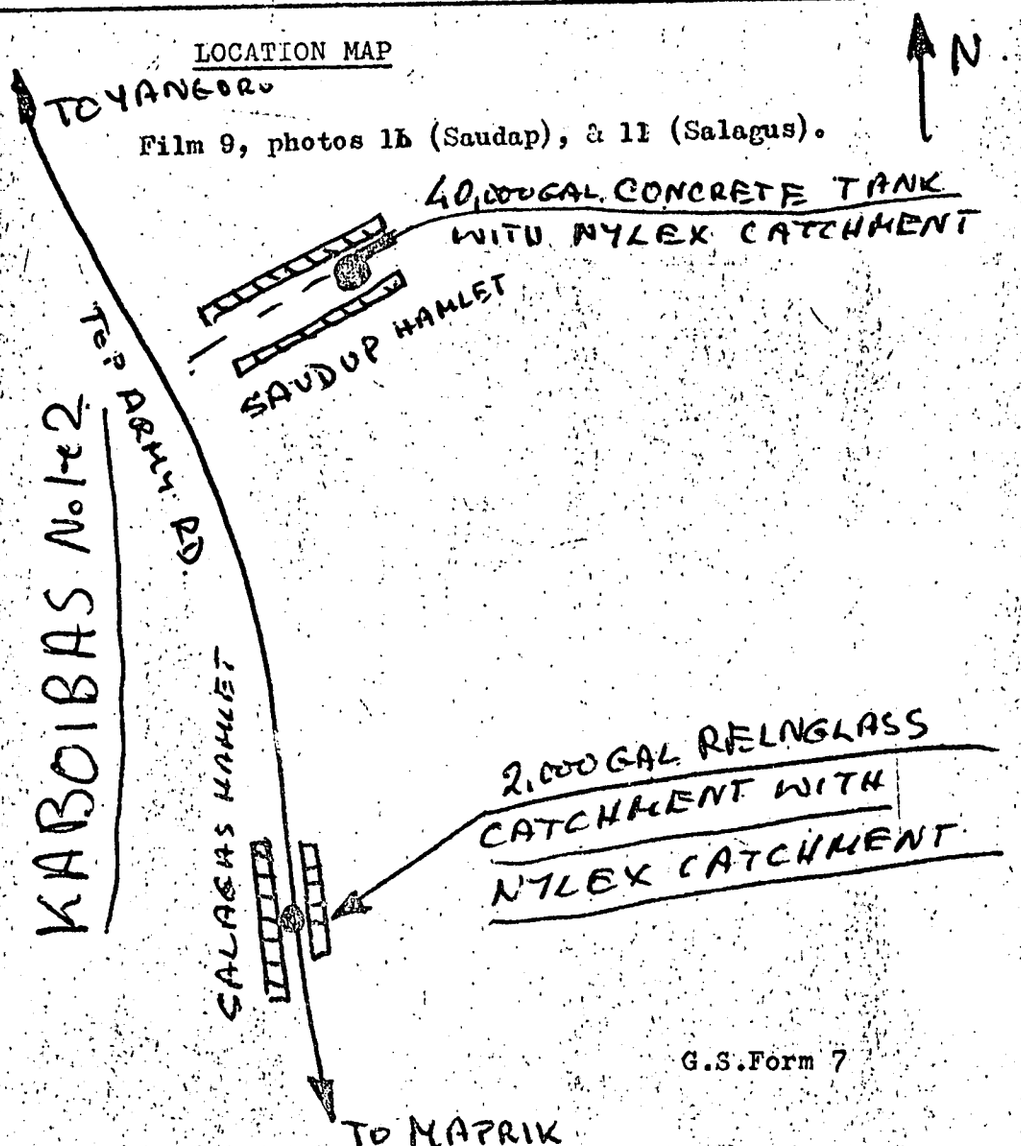
ESTIMATED COST ($) .....2000.....

ALTERNATIVE SCHEME .....

.....

PRIORITY ....Second..... Signed ..J.R.L. Read.... Date 11/11/66

LOCATION MAP



G.S.Form 7

DREIKIKIR COUNCIL)
)
) MAPRIK SUB DISTRICT
)
)
GREATER MAPRIK COUNCIL)

SUMMARY OF SURVEY OF VILLAGE WATER SUPPLIES - DREIKIKIR COUNCIL AND GREATER MAPRIK COUNCIL

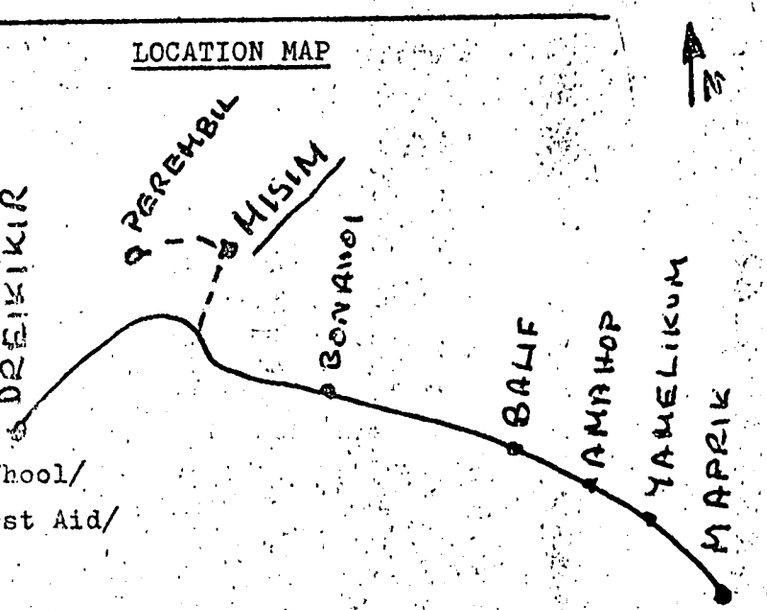
VILLAGE	POPULATION	TYPE OF SCHEME	NO. OF PIPES	ESTIMATED COST $	PRIORITY	REMARKS
Misim (97)	221	Catchment		1000	Second	Nylex catchment and fibreglass tanks.
Perembil (98)	340	Catchment		1000	Second	" " " "
Duman (99)	233	Catchment		1000	Second	" " " "
Yamelikum (93)	139	Well	Nil	50	Second	Improve existing well.
Amahop (94)	208	Catchment		1300	Second	Nylex catchment and concrete tank.
Balif (95)	333	Catchment		1500	Second	" " " "
Bonahoi (96)	201	Catchment		1000	Second	Nylex catchment and fibreglass tanks
Waigakum No. 2 (100)	250	Well	Nil	Nil	Second	Improve existing well.
Gweligum No. 1 (101)	265	Well	2	100	Second	Silty alluvium and sandstone 300 yards from village.
Hagvalif (102)	266	Catchment		1000	Second	Nylex catchment and fibreglass tanks.
Aperinga (103)	230	Well	2	100	Second	Silty gravel. Up to $\frac{1}{4}$ mile from village.
Bainyik D.A.S.F. (104)	140	Catchment	2	100	Second	Utilise existing buildings for catchment

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ..EAST.SEPIK.....DISTRICT

VILLAGE ...MISIM.....
COUNCIL ...Dreikikir.....
CENSUS DIVISION ..Vrat.....
SUB-DISTRICT ..Maprik.....
POPULATION ...221.....
ACCESS .Road.(dry.weather).....
.....
CHAIRMAN/COUNCILLOR .Bwat.....
.....
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

RAINFALL .....& 70.....
WET SEASON From .Nov.... to .May...
TYPE .Shallow soak.....
DISTANCE FROM VILLAGE Up.to.½.mile.
TRANSPORT ..Road & track.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION ....Nil.....
REMARKS ..Village on high mountain..
..ridge.....
.....
.....
DRY SEASON From .June.... to .Oct..
TYPE ...As.above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP

G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES .....EAST SEPIK.....DISTRICT

VILLAGE ...MISIM.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ..One catchment each at Misim No. 1 & Misim No. 2.

DISTANCE FROM VILLAGE ...Central.....

ACCESS ....Road & track.....

SITE KNOWN TO..Bwat.....

TYPE OF AQUIFER .....

DETAILS OF SCHEME ..Nylex catchments & 2, 2000 gal. storage tanks.....

MATERIALS REQUIRED ...As per standard drawing.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

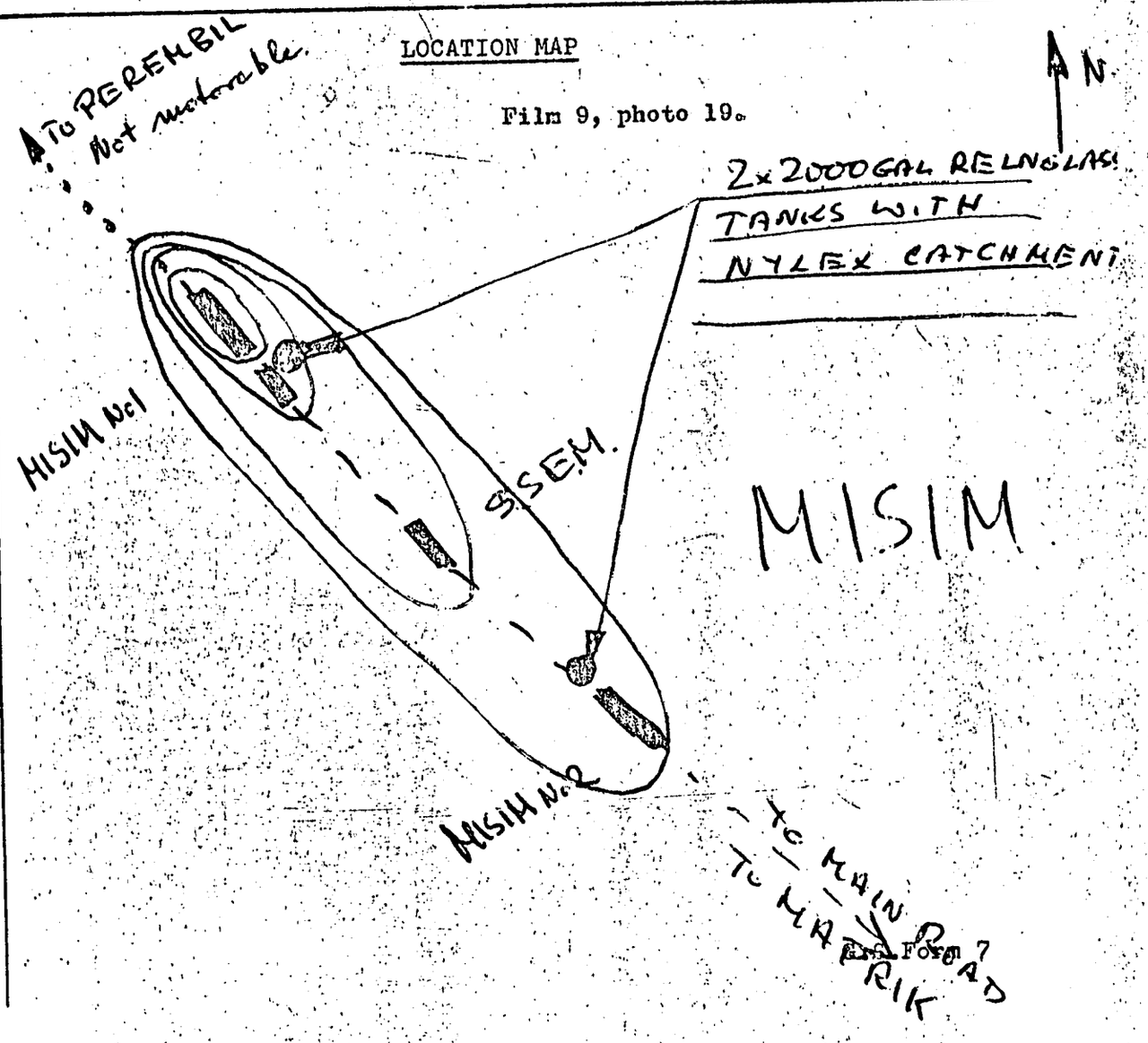
ESTIMATED COST ($) .....1000.....

ALTERNATIVE SCHEME .....

PRIORITY ..Second..... Signed J.R.L. Read..... Date 13/11/66

LOCATION MAP

Film 9, photo 19.



TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ....WEST SEPIK.....DISTRICT

VILLAGE ...PEREMBIL.....

COUNCIL .Dreikikir.....

CENSUS DIVISION .Vrat.....

SUB-DISTRICT ...Maprik.....

POPULATION .....340.....

ACCESS ..Track.....

.....

HEADMAN/COUNCILLOR ..Miti Auwei..

.....

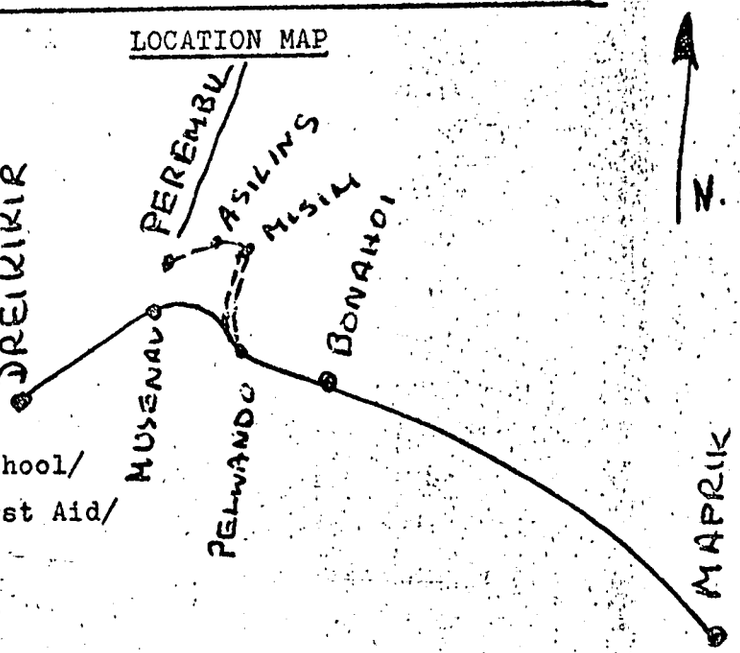
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation

PROJECTED DEVELOPMENT .....

.....

ESTIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

RAINFALL ....70.....

WET SEASON From .Nov.... to .May...

TYPE .Shallow soaks.....

DISTANCE FROM VILLAGE .Up to ½ mile

TRANSPORT .Track.....

YIELD/RATE OF FLOW .....

QUALITY - Chemical .....

Bactereological .....

PROTECTION ....Nil.....

REMARKS ...Village on high mountain
....ridge.....

.....

.....

DRY SEASON From ..June... to ..Oct.

TYPE .....as above.....

DISTANCE FROM VILLAGE .....

TRANSPORT .....

YIELD/RATE OF FLOW .....

QUALITY .....Chemical .....

Bactereological .....

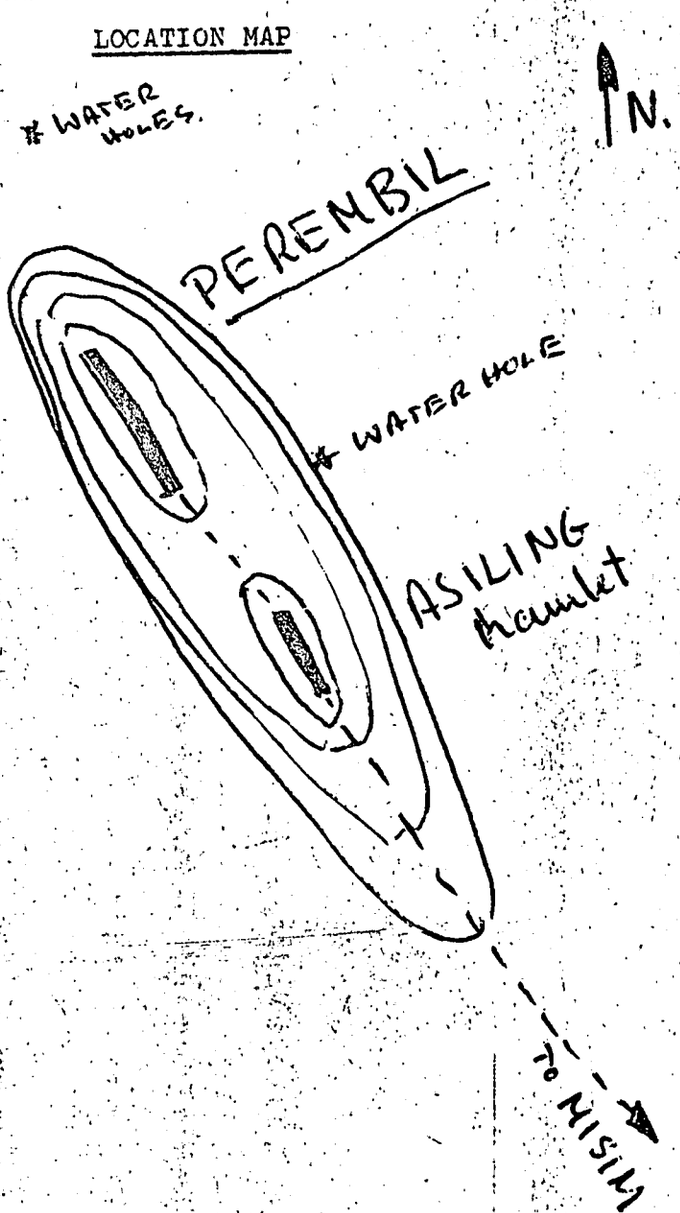
PROTECTION .....

REMARKS .....

.....

.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ....EAST SEPIK.....DISTRICT

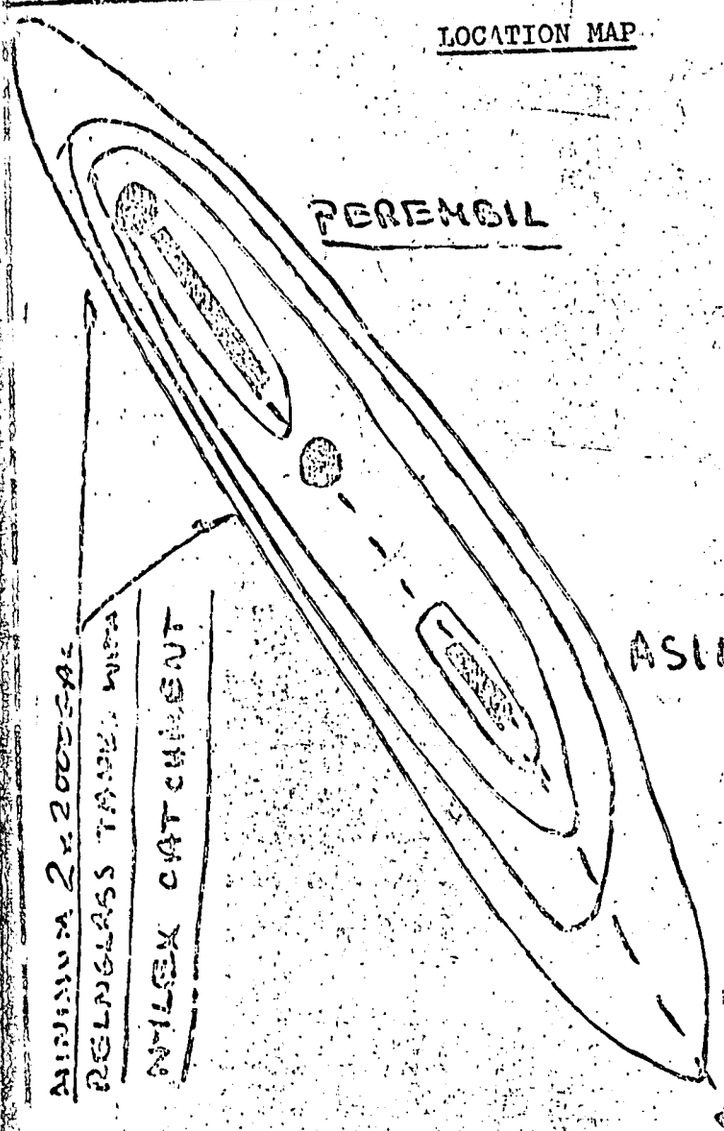
VILLAGE ..PEREMBIL.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ...One catchment each at Perembil village....
.....and Asiling hamlet.....
DISTANCE FROM VILLAGE .....Central.....
ACCESS .....Track.....
SITE KNOWN TO...Kiki Auvei.....
TYPE OF AQUIFER .....
DETAILS OF SCHEME ....Mk.Nylex catchments & 2,. 2000. gal. storage tanks.
.....located..as.above.....
.....
.....
MATERIALS REQUIRED ....As.per.standard drawing.....
.....
LABOUR REQUIRED .....Local.....
SUPERVISION .....Local.....
ESTIMATED COST ($) .....1000.....
ALTERNATIVE SCHEME ...One.extra.catchment & 2000. gal. storage.tank....
.....at Perembil village.if.funds.available. = cost.$500.....
PRIORITY ..Second..... Signed ..L.R.L. Read..... Date ..13/11/66

LOCATION MAP



G.S.Form 7

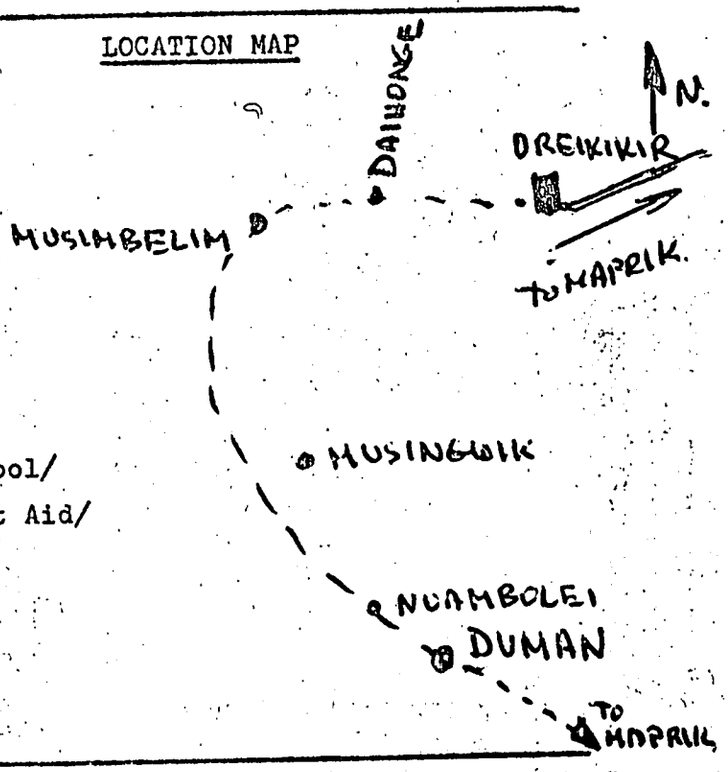
to MISIM

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ....EAST SEPIK.....DISTRICT

VILLAGE ..DUMAN.....
COUNCIL ...Dreikikir.....
CENSUS DIVISION ...Vrat.....
SUB-DISTRICT ..Maprik.....
POPULATION ..233.....
ACCESS ..Road.....
.....
MEMBER/COUNCILLOR .Kitihi.....
.....
WATER USE - Domestic/Government School/
Aid Post/Mission School/Hospital/First Aid/
Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

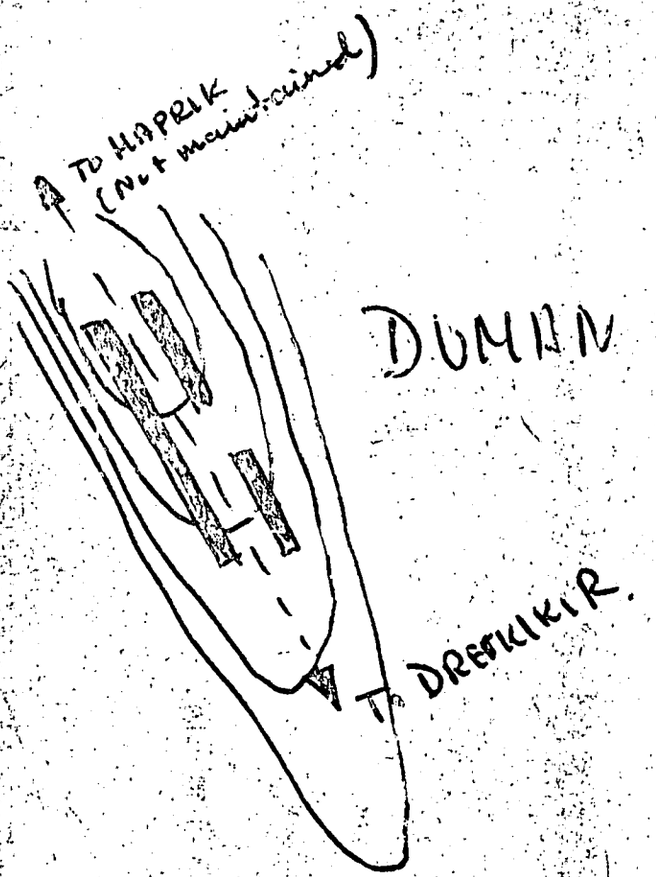
LOCATION MAP



PRESENT SUPPLY

RAINFALL .....70.....
DRY SEASON From ..Nov.... to ...May..
TYPE ..Shallow soaks.....
DISTANCE FROM VILLAGE ..300 yds....
TRANSPORT ....Track.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION .....Nil.....
REMARKS ...Village along high ridge.
.....
.....
.....
WET SEASON From ..June... to ..Oct.
TYPE .....As above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ....EAST SEPIK.....DISTRICT

VILLAGE .....DUMAN.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ....Village Central.....

.....

DISTANCE FROM VILLAGE ....Central.....

ACCESS .....Road & track.....

SITE KNOWN TO....Kitihi.....

TYPE OF AQUIFER .....

DETAILS OF SCHEME .Nylex catchments & 2, 2000 gal storage tanks....

.....

.....

.....

MATERIALS REQUIRED ...As per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) .....1000.....

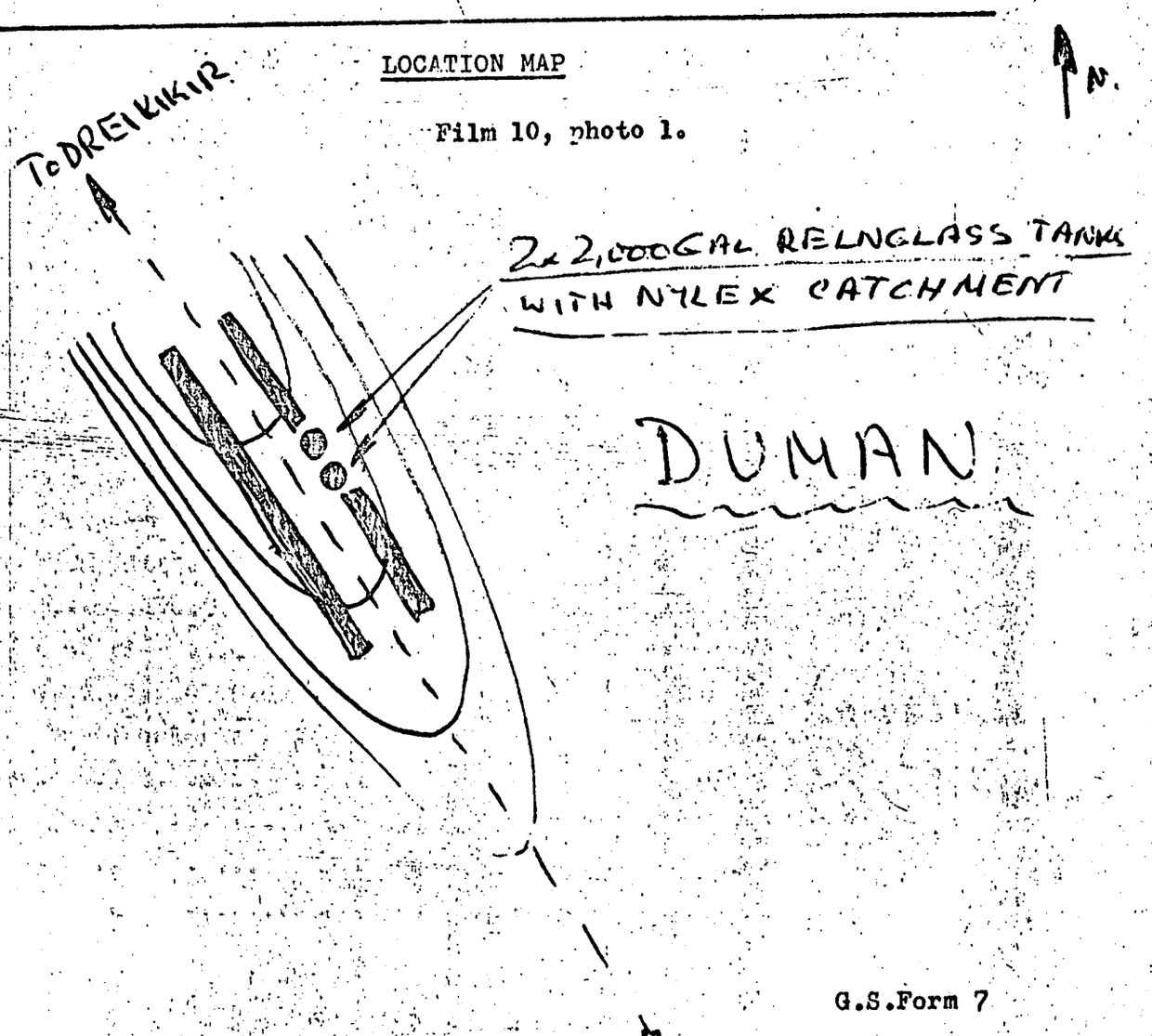
ALTERNATIVE SCHEME .....

.....

PRIORITY ..Second..... Signed ..J.R.L. Read.... Date .13/11/86

LOCATION MAP

Film 10, photo 1.



G.S.Form 7

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ...EAST SEPIK.....DISTRICT

VILLAGE ...YAMELIKUM.....

COUNCIL ..Greater Maprik.....

CENSUS DIVISION Lamblep.....

SUB-DISTRICT .Maprik.....

POPULATION ...139.....

ACCESS ..Road. 6 miles. from Maprik

.....

CHAIRMAN/COUNCILLOR Kolken-Boumbe.

.....

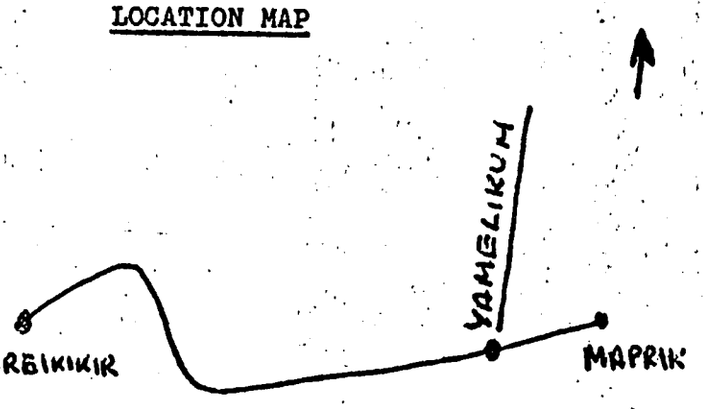
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation

SELECTED DEVELOPMENT .....

.....

ESTIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

RAINFALL ...62.....

DRY SEASON From ..Oct... to March..

1. Shallow holes & stream .....

DISTANCE FROM VILLAGE 200 yds. - ½ mile.

TRANSPORT .Road & track.....

YIELD/RATE OF FLOW .....

QUALITY - Chemical .....

Bactereological .....

PROTECTION ....Nil.....

REMARKS .....

.....

.....

.....

WET SEASON From .April... to Sept.

1. ....As above.....

DISTANCE FROM VILLAGE .....

TRANSPORT .....

YIELD/RATE OF FLOW .....

QUALITY .....Chemical .....

Bactereological .....

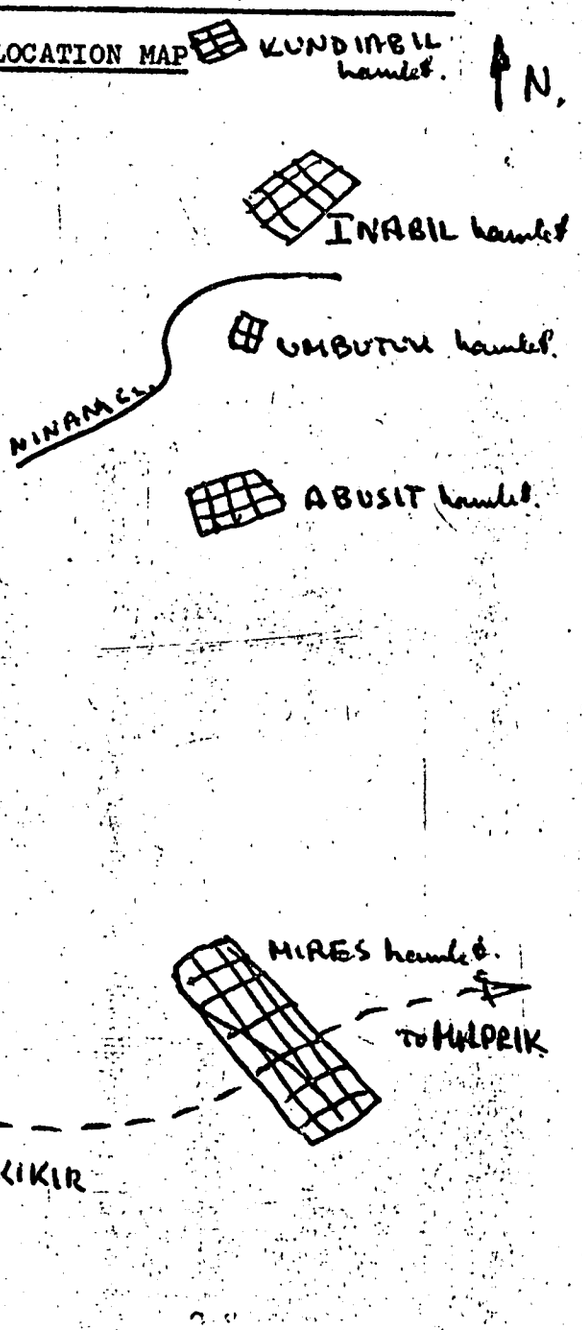
PROTECTION .....

REMARKS .....

.....

.....

LOCATION MAP



TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ....A.W.H.....DISTRICT

VILLAGE ....YAMELIKUM.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ..Existing well at Bapmundi creek.....

.....

DISTANCE FROM VILLAGE ..200 yds.....

ACCESS ....Track.....

SITE KNOWN TO...Kalkon-Baumba.....

TYPE OF AQUIFER ..Silty alluvium & gravel.....

DETAILS OF SCHEME ..Complete existing well...bring to standard sanitary well requirements.....

.....

.....

MATERIALS REQUIRED ..Well top (concrete), pump & concrete apron.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST (*) ....50.....

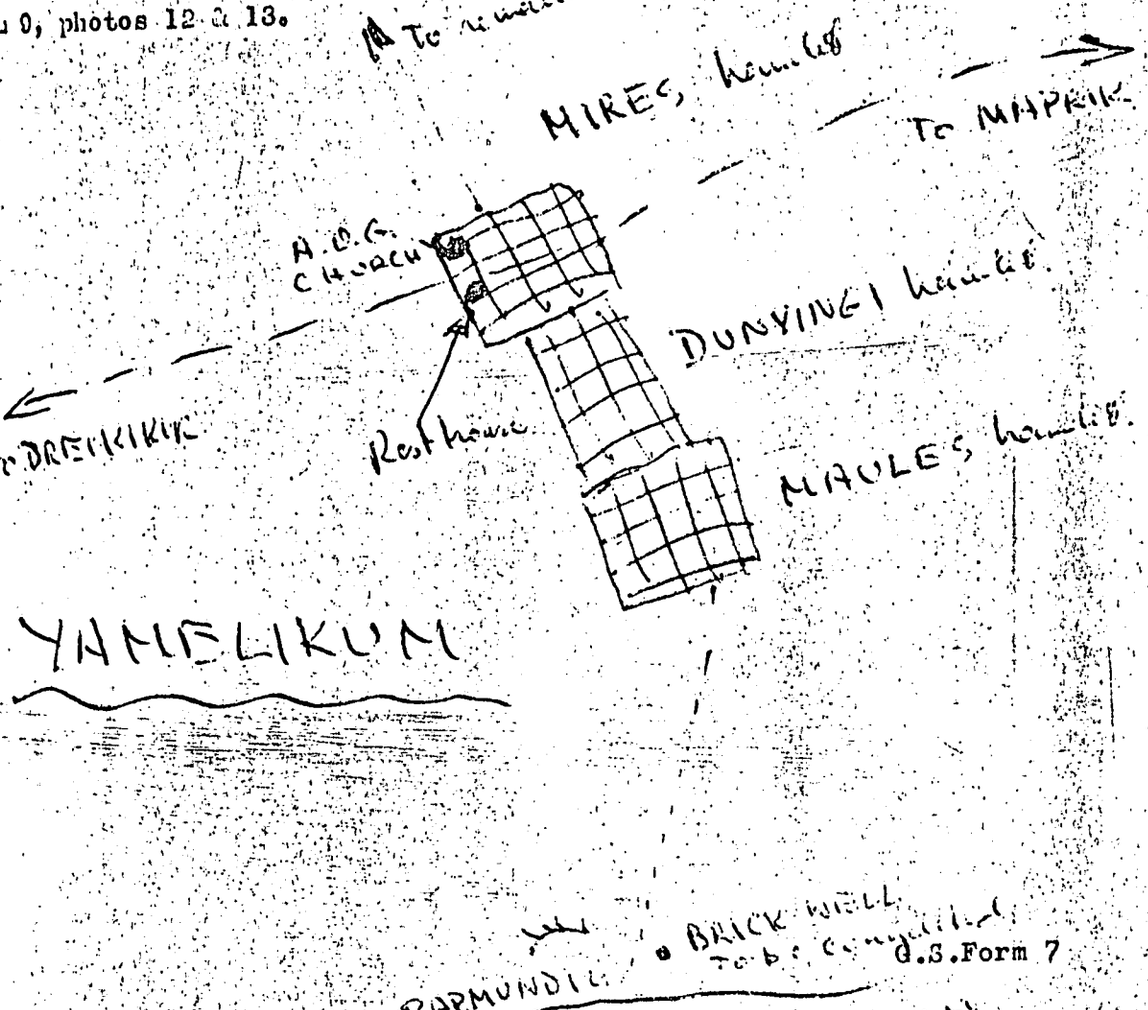
ALTERNATIVE SCHEME ..Rainwater catchment.....

.....

PRIORITY ..Second..... Signed ...J.R.L. ...ood... Date .13/11/66

LOCATION MAP

Plan 0, photos 12 & 13.



D.S.Form 7

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES .....EAST SEPIK.....DISTRICT

VILLAGE .....AMAHOP.....

SUBCOIL .....Greater Maprik.....

CENSUS DIVISION ..Pumbito/Kuhiang.

SUB-DISTRICT ...Maprik.....

POPULATION ...208.....

ACCESS ..Road, 8 miles from Maprik

.....

MEMBER/COUNCILLOR ...Linbange...

.....

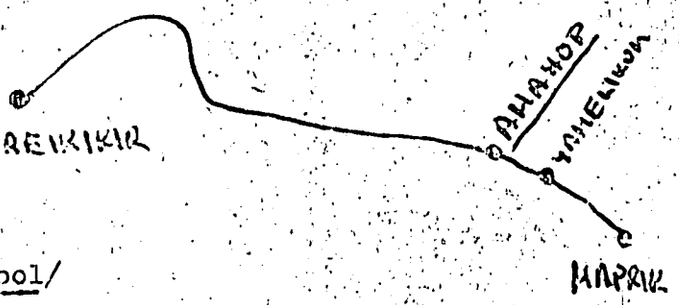
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation

PROJECTED DEVELOPMENT .....

.....

ESTIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

RAINFALL ....62.....

DRY SEASON From ..Oct... to ..March

TYPE ..2 shallow wells.....

DISTANCE FROM VILLAGE ....½ mile.

TRANSPORT ....Track.....

YIELD/RATE OF FLOW .....

QUALITY - Chemical .....

Bactereological .....

PROTECTION ....Nil.....

REMARKS ..Village on low ridge.....

.....

.....

.....

WET SEASON From ..April.. to ..Sept

TYPE .....As above.....

DISTANCE FROM VILLAGE .....

TRANSPORT .....

YIELD/RATE OF FLOW .....

QUALITY .....Chemical .....

Bactereological .....

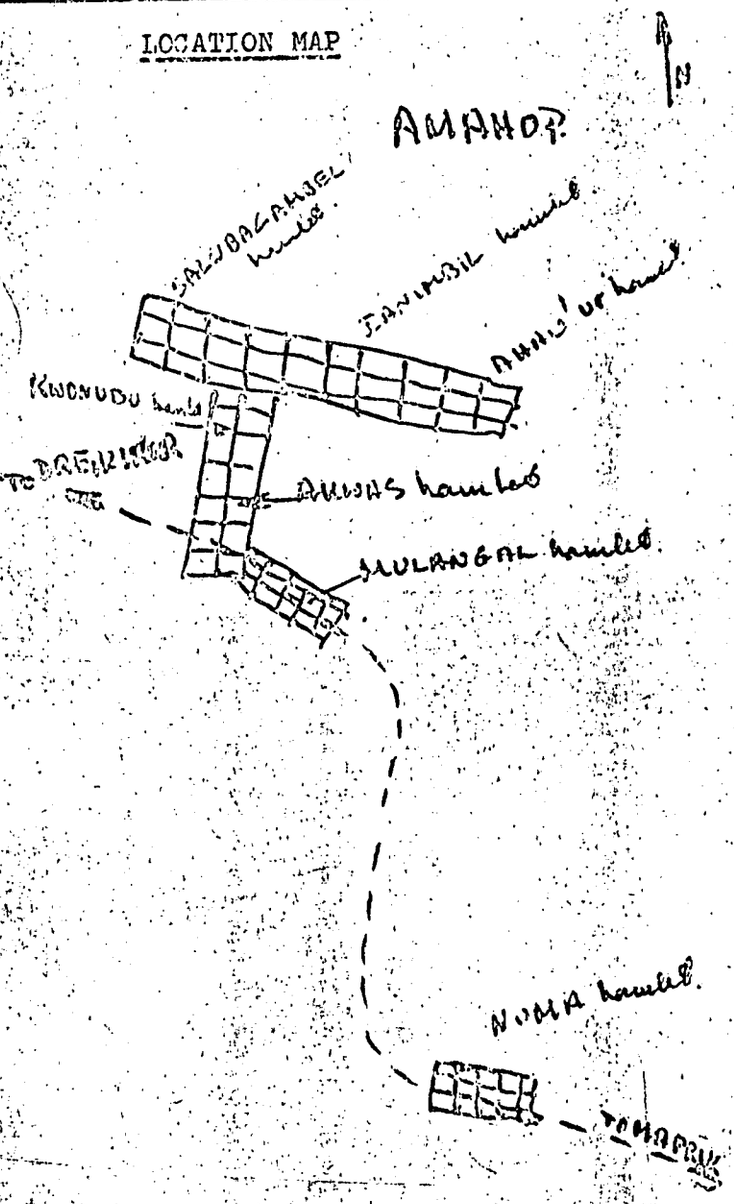
PROTECTION .....

REMARKS .....

.....

.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ....EAST SEPIK.....DISTRICT

VILLAGE ....AMAHOP.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ...Village central.....

.....

DISTANCE FROM VILLAGE ....Central.....

ACCESS .....Track.....

SITE KNOWN TO..Kinhange.....

TYPE OF AQUIFER .....

DETAILS OF SCHEME ..Nylex catchment & 1.30,000 gal. storage tank. (Concrete).

.....

.....

.....

MATERIALS REQUIRED ....As per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Provided by Public Works.....

ESTIMATED COST ($) .....1300.....

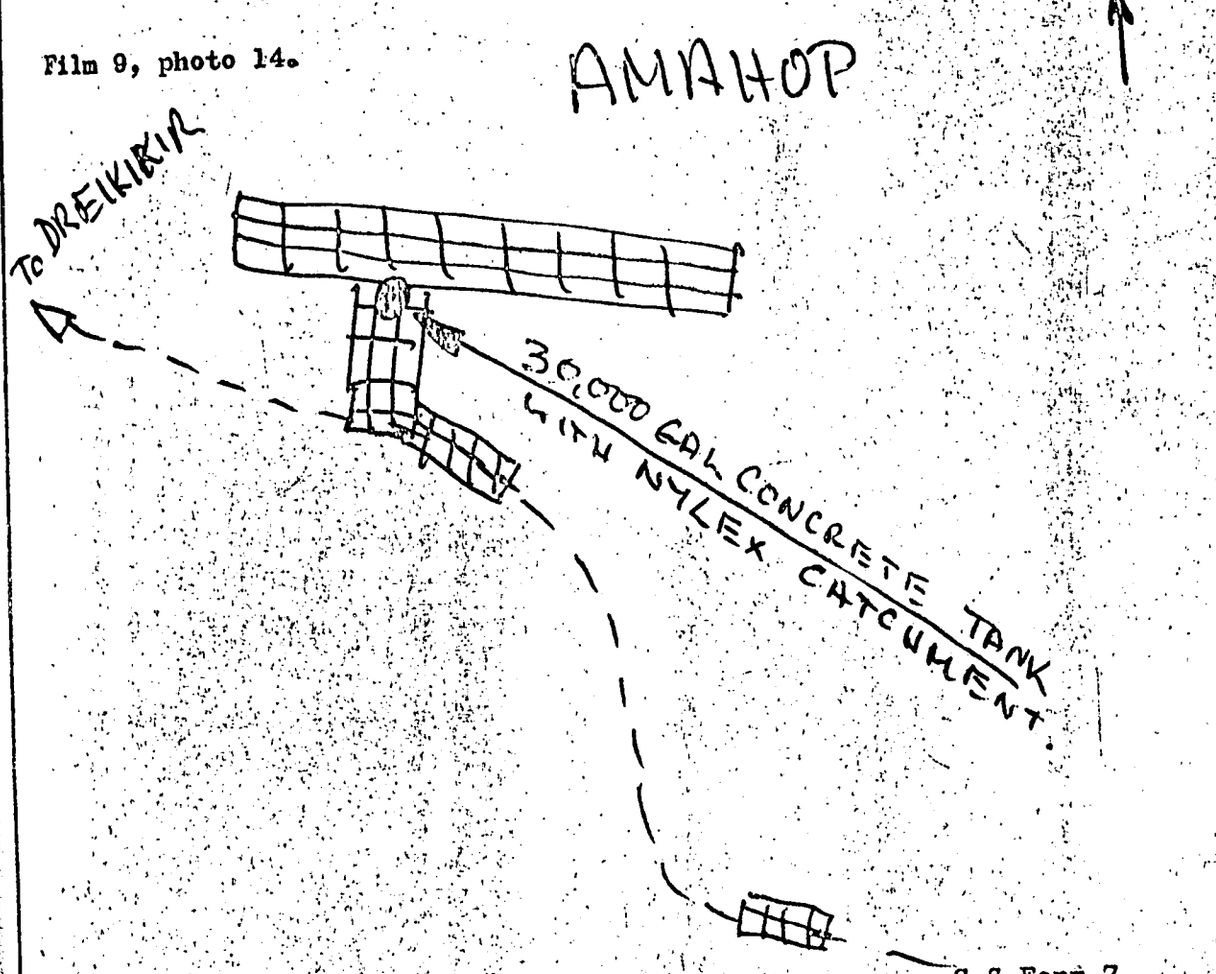
ALTERNATIVE SCHEME Nylex catchment & 2, 2000 gal storage tanks r....

.....cost $1000.....

PRIORITY ..Second..... Signed ...J.R.L. Read... Date ..13/11/66

LOCATION MAP

Film 9, photo 14.



G.S. Form 7

TERRITORY OF PAPUA & NEW GUINEA

...TY OF VILLAGE WATER SUPPLIES ...~~XXXXX~~..EAST SEPIK.....DISTRICT

...AGE ....BALIF.....

...NCIL ...Greater Maprik.....

...TS DIVISION . Bumbita/Muhiang.

...DISTRICT .. Maprik.....

...ULATION ...333.....

...SS .Road. 15 miles from Maprik

.....

...~~XXXX~~/COUNCILLOR . Salaman.....

.....

...ER USE - Domestic/Government School/

...ion/Mission School/Hospital/First Aid/

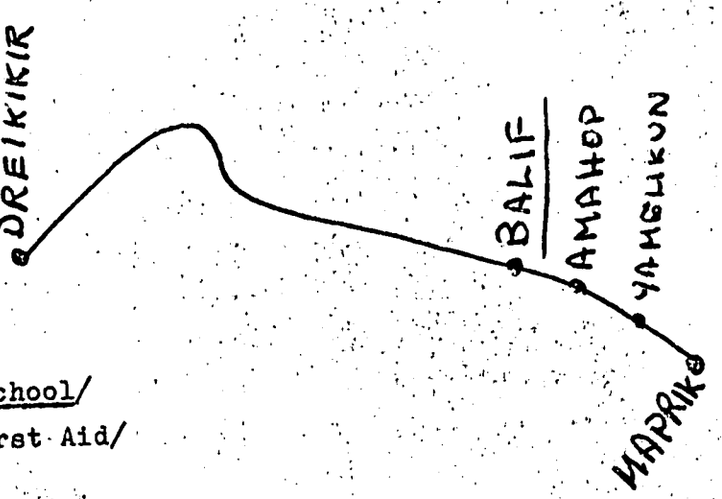
...k/Irrigation

...ECTED DEVELOPMENT .....

.....

...MATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

...FALL ....62.....

...SEASON From .Oct... to .March.

...S ..Waterholes.....

...TANCE FROM VILLAGE 200 yds. - ½ mi

...SPORT ...Track.....

...LD/RATE OF FLOW .....

...LITY - Chemical .....

Bactereological .....

...TECTION ...Nil.....

...ARKS ..Village along ridge.....

.....

.....

.....

...Y SEASON From .April... to .Sept.

...S ..As above.....

...TANCE FROM VILLAGE .....

...NSPORT .....

...LD/RATE OF FLOW .....

...LITY .....Chemical .....

Bactereological .....

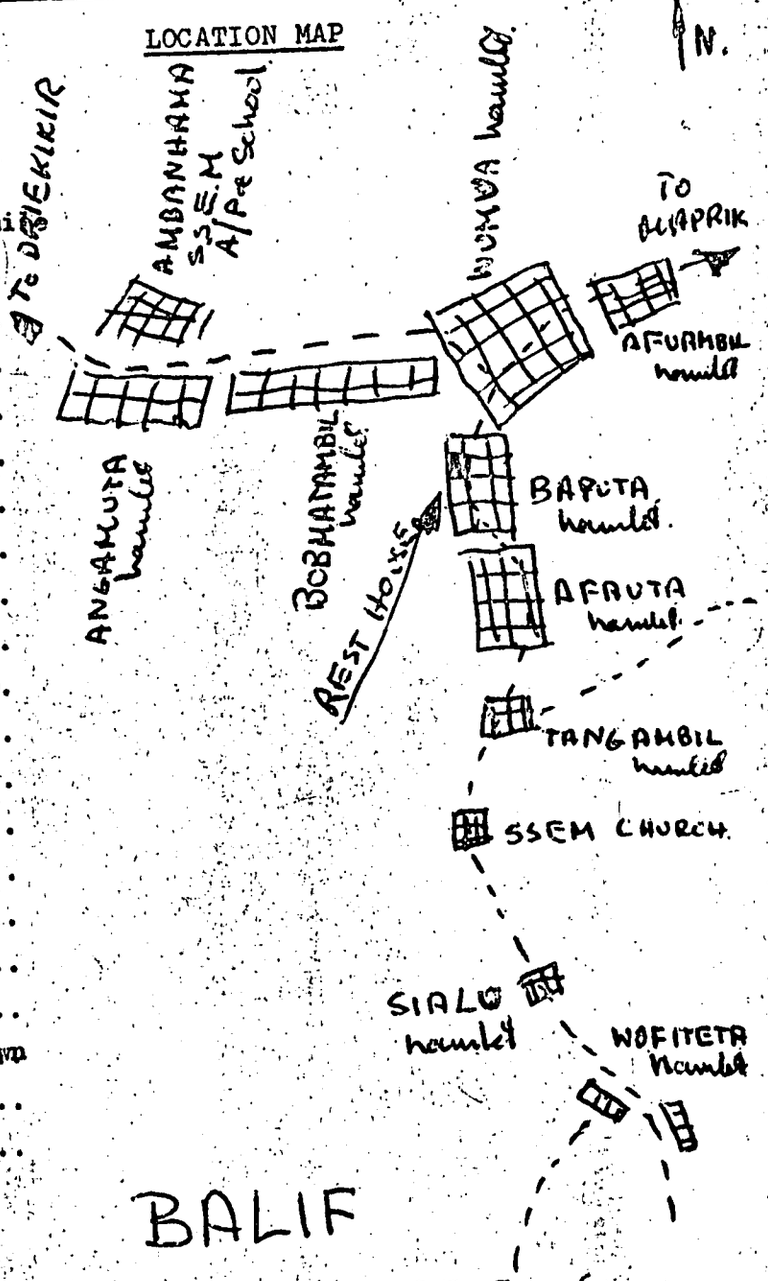
...TECTION .....

...ARKS .All holes except that known

as Abeninge dry in dry season.....

.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

...TY OF VILLAGE WATER SUPPLIES ..EAST SEPIK.....DISTRICT

...LAGE .....BALIF..... RECOMMENDATIONS

...E OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

...ATION OF NEW SUPPLY ..Village central, beside House Kiap.....

.....

...TANCE FROM VILLAGE ...Central.....

...ESS ....Road & track.....

...E KNOWN TO.....Salaman.....

...PE OF AQUIFER .....

...TAILS OF SCHEME ..Nylex catchment & 1, 40,000 gal storage tank (concrete)

.....

.....

.....

...TERIALS REQUIRED ...As per standard drawing.....

.....

...BOUR REQUIRED .....Local.....

...PERVISION .....Provided by Public Works.....

...TIMATED COST ($) ....~~15,000~~ 1500.....

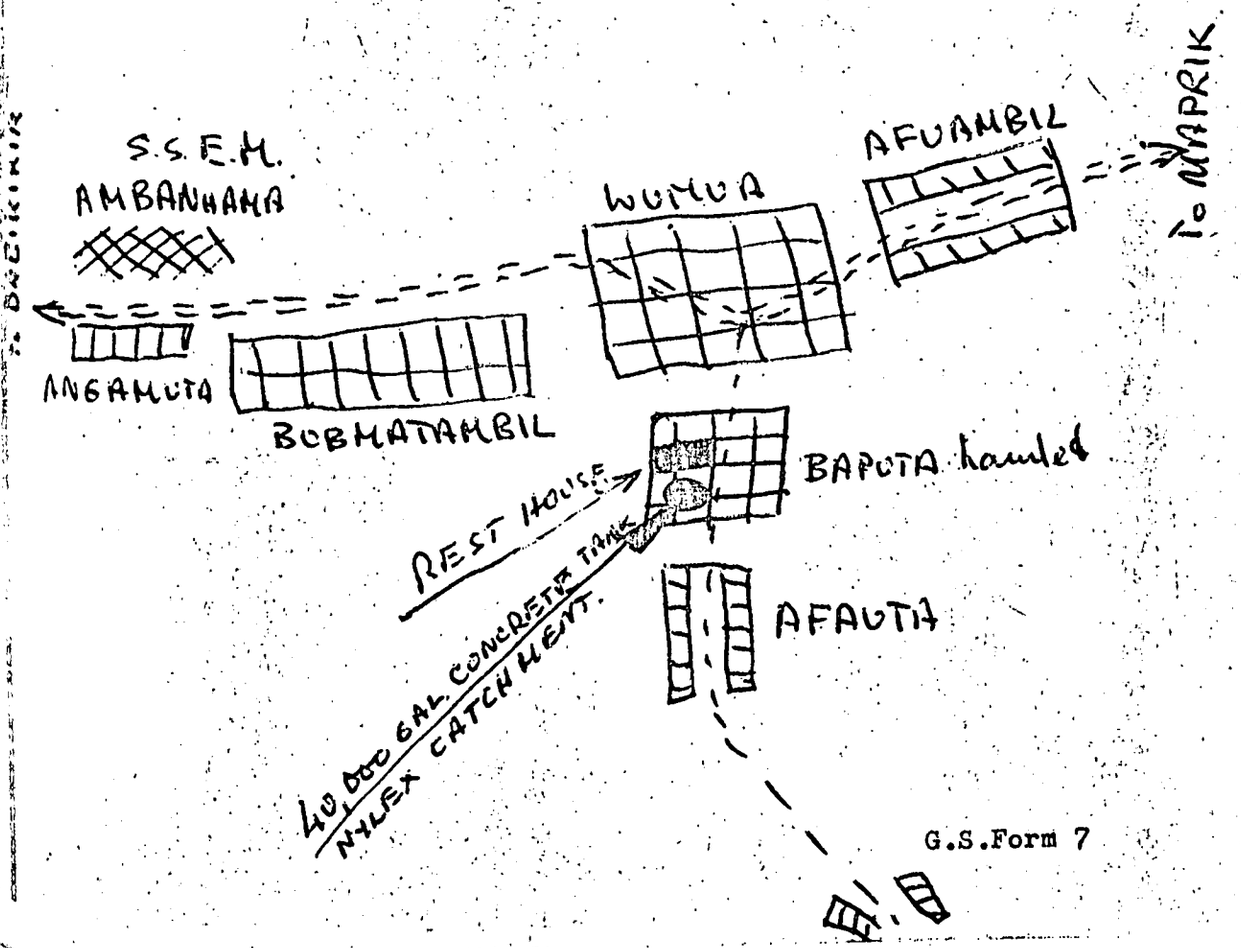
...TERNATIVE SCHEME .....

.....

...IORITY ..Second..... Signed ..J.R.L. Read..... Date .13/11/66

LOCATION MAP

Film 9, photo 15 & 16. BALIF



G.S.Form 7

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ..... EAST SEPIK .....DISTRICT

VILLAGE .....BONAHOI.....

COUNCIL .Greater Maprik.....

CENSUS DIVISION .Bumbita/Muhiang.

SUB-DISTRICT ...Maprik.....

POPULATION ..208.....

ACCESS .Road..20 miles from Maprik

.....

LUKAUN/COUNCILLOR Yaharen-Kwowien

.....

WATER USE - Domestic/Government School/

Aid Post/Mission School/Hospital/First Aid/

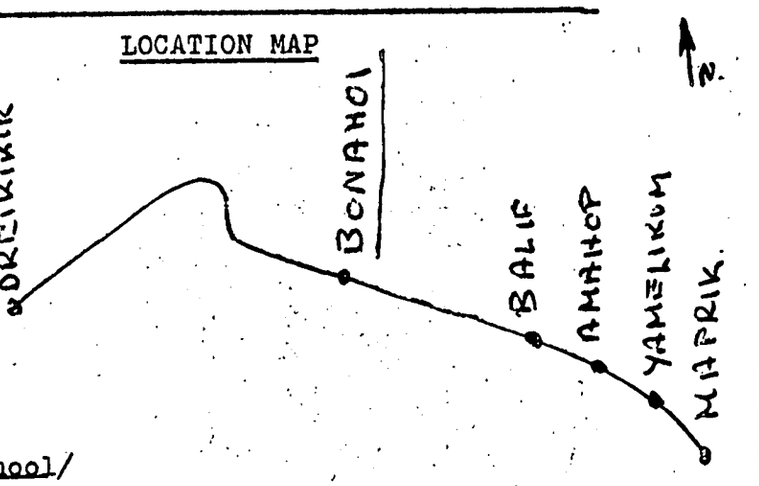
Stock/Irrigation

PROJECTED DEVELOPMENT .....

.....

ESTIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

RAINFALL ...62.....

DRY SEASON From .Oct.... to .March.

TYPE .Water Holes.....

DISTANCE FROM VILLAGE Up.to.1.mile.

TRANSPORT .Track.....

YIELD/RATE OF FLOW .....

QUALITY - Chemical .....

Bactereological .....

PROTECTION ...Nil.....

REMARKS ...Village..along.ridge....

.....

.....

.....

WET SEASON From .April.... to ..Sept.

TYPE ....As above.....

DISTANCE FROM VILLAGE .....

TRANSPORT .....

YIELD/RATE OF FLOW .....

QUALITY .....Chemical .....

Bactereological .....

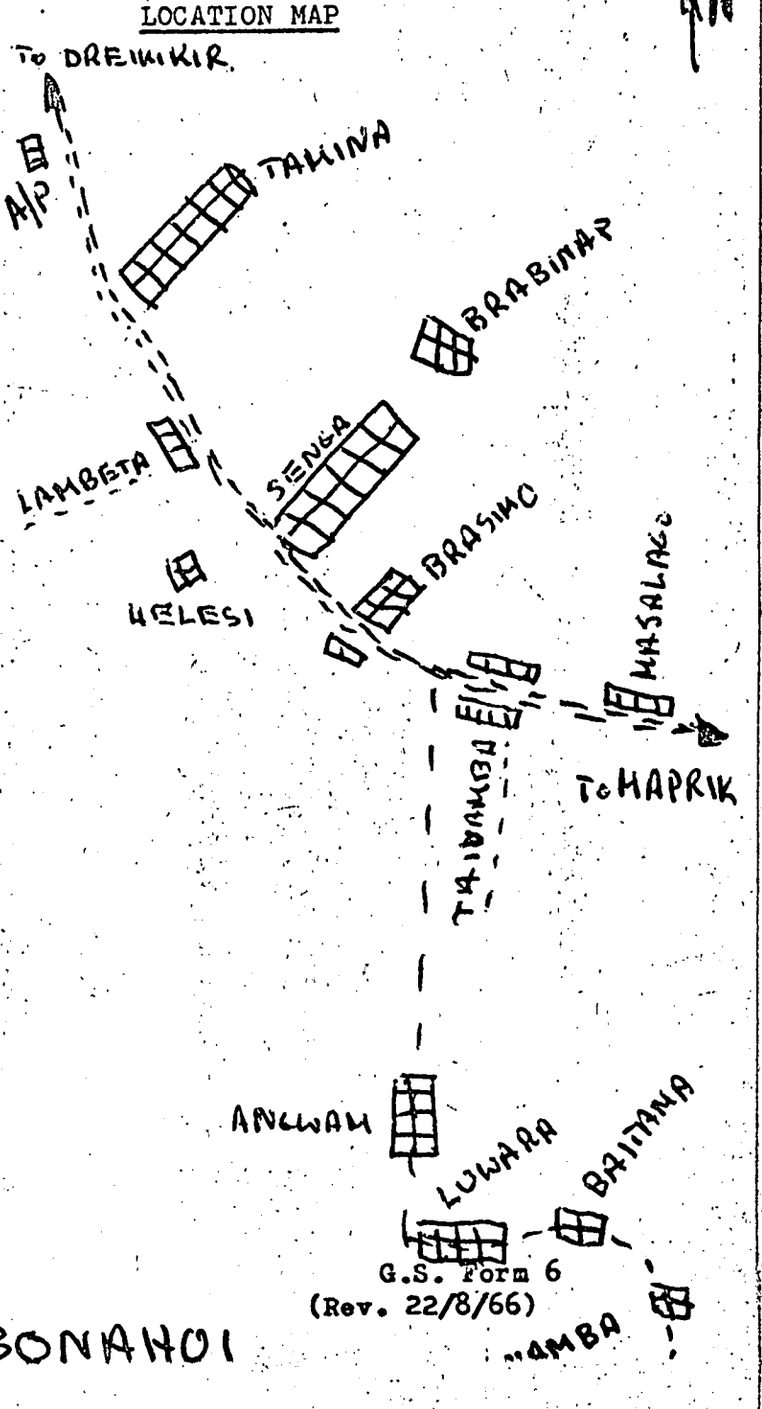
PROTECTION .....

REMARKS .....

.....

.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

BONAHOI

TERRITORY OF PAPUA & NEW GUINEA

...Y OF VILLAGE WATER SUPPLIES ...EAST SEPIK.....DISTRICT

...AGE ...BONAHOI.....

RECOMMENDATIONS

...E OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

...ATION OF NEW SUPPLY ..One catchment each at Tainamba hamlet and Lambeta hamlet.....

...TANCE FROM VILLAGE ..Central.....

...SS ..Road & track.....

...E KNOWN TO..Maharen-Kwowien.....

...E OF AQUIFER .....

...TAILS OF SCHEME ..Nylex catchment & 2, 2000 gal. storage tanks, one at each of two hamlets as above.....

.....

.....

...TERIALS REQUIRED .....As per standard drawing.....

.....

...OUR REQUIRED .....Local.....

...PERVISION .....Local.....

...IMATED COST ($) .....1000.....

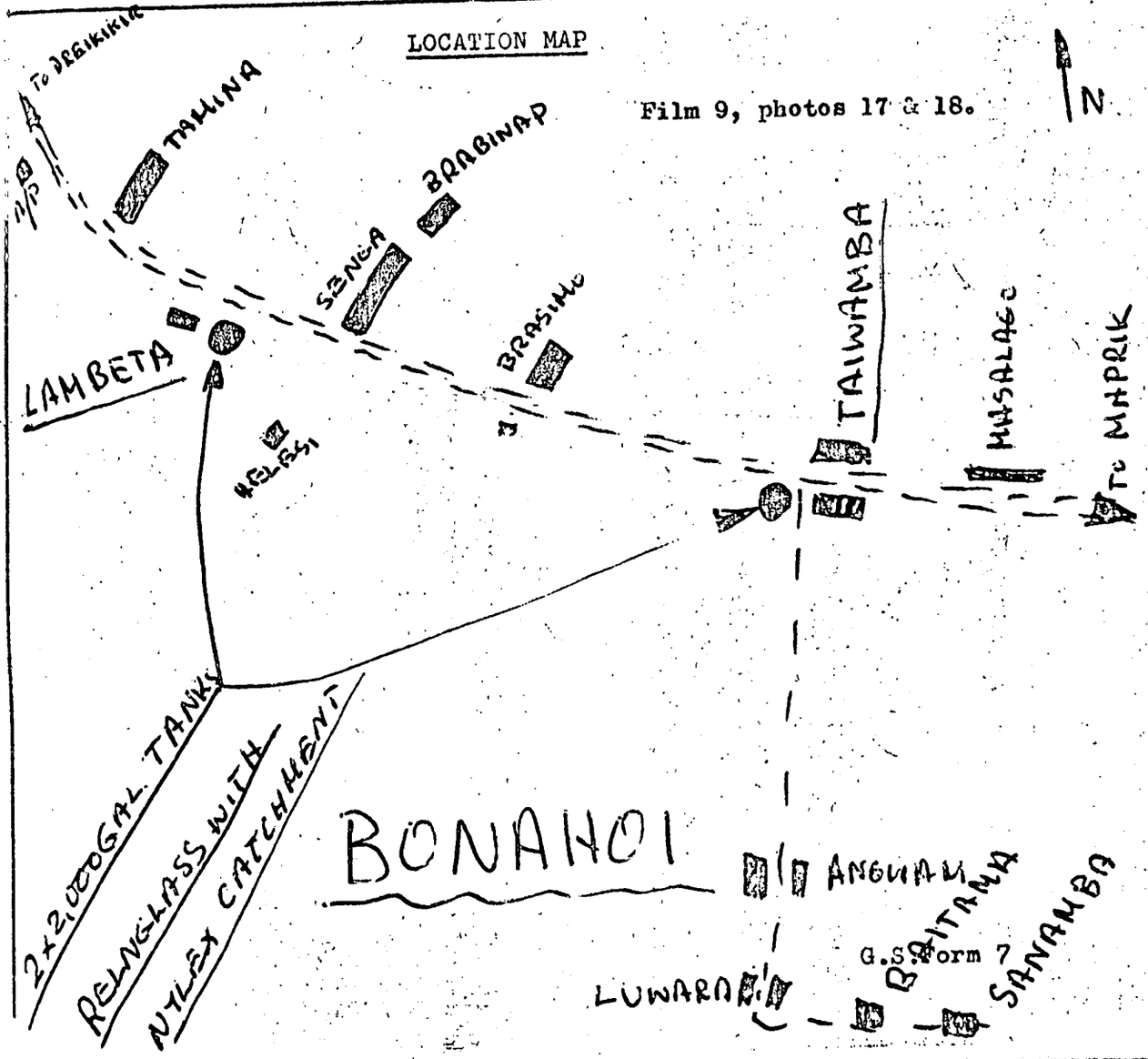
...TERNATIVE SCHEME .....

.....

...IORITY ..Second..... Signed ..J.R.L. Read... Date ...13/11/66

LOCATION MAP

Film 9, photos 17 & 18.



G.S. Form 7

TERRITORY OF PAPUA & NEW GUINEA

OF VILLAGE WATER SUPPLIES ...ST. NAPRIK.....DISTRICT

...WAIGAGUM No. 2.....

...Greater Maprik.....

DIVISION ..Tamaui.....

...STRICT ...Maprik.....

...ATION ...250.....

...S ..Wood. 8 miles from Maprik.

.....

...COUNCILLOR .Gilandu.....

.....

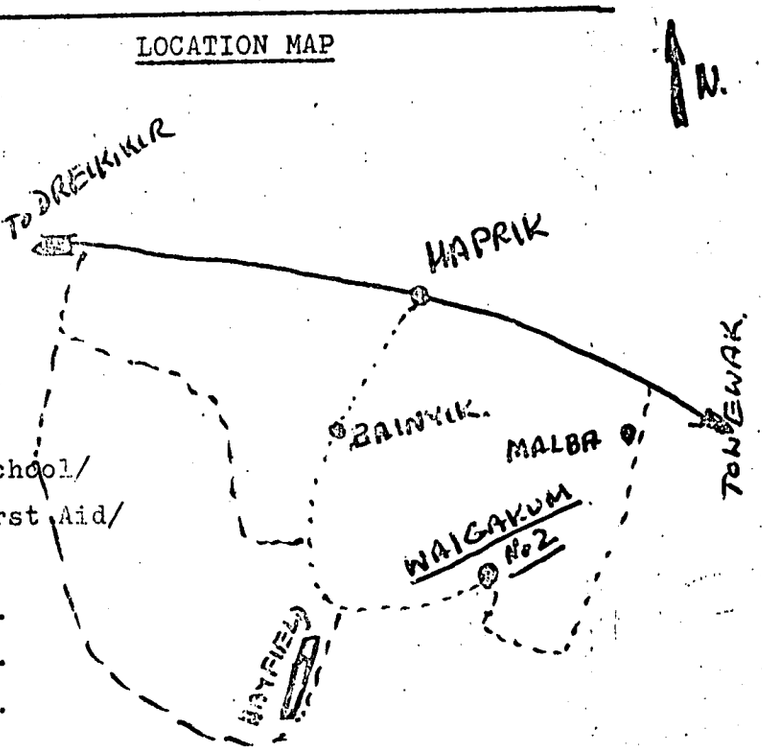
...USE - Domestic/Government School/
.../Mission School/Hospital/First Aid/
.../Irrigation

...GESTED DEVELOPMENT .....

.....

...ATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

...FALL .....62.....

...SEASON From ..Oct... to .March.

...E ...Brick.lined.well.....

...STANCE FROM VILLAGE .Up.to.½.mile.

...NSPORT ...Road.&.track.....

...LD/RATE OF FLOW .....

...LITY - Chemical .....

Bactereological .....

...TECTION ....Sanitary.....

...ARKS .....

.....

.....

.....

...SEASON From ..April.. to .Sept.

...E ....As.above.....

...STANCE FROM VILLAGE .....

...NSPORT .....

...LD/RATE OF FLOW .....

...LITY .....Chemical .....

Bactereological .....

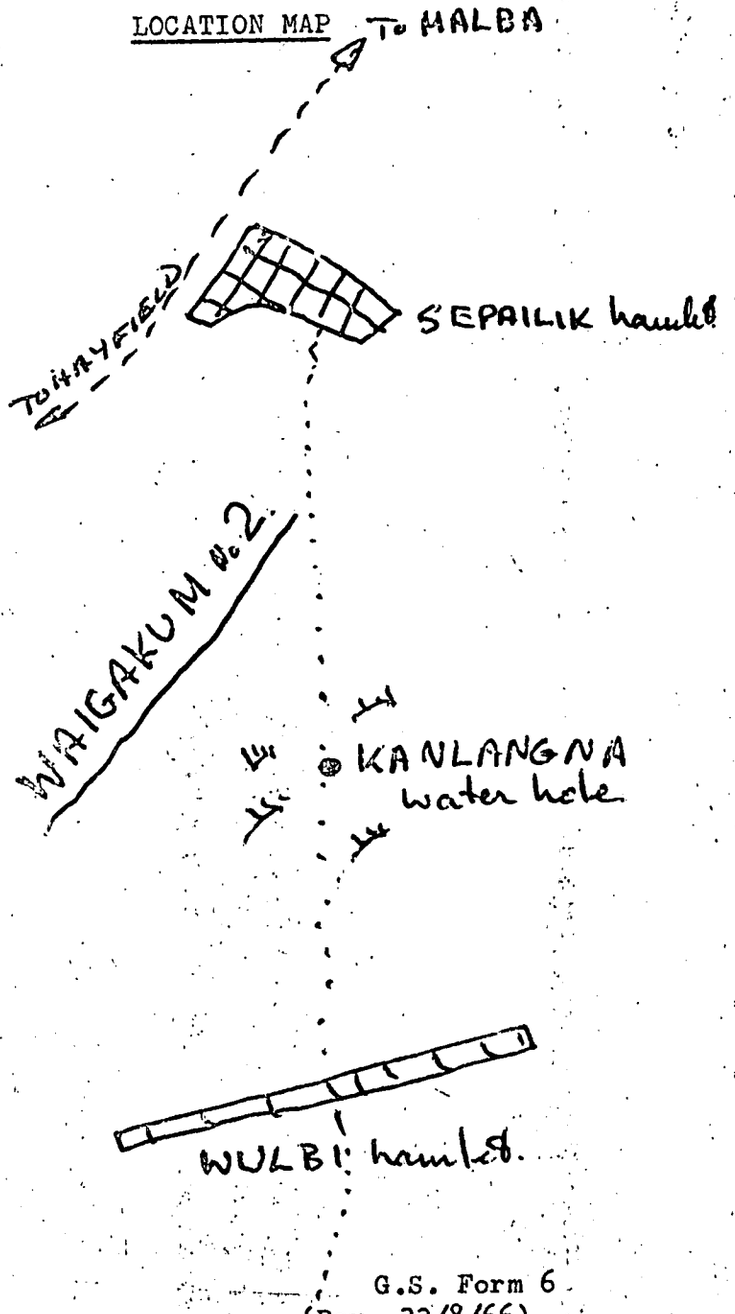
...TECTION .....

...ARKS .....

.....

.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

● CONCRETE LINED WELL

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ...EAST SEPIK.....DISTRICT

VILLAGE ...WAIGAKUM No. 2..... RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ....Existing well.....

.....

DISTANCE FROM VILLAGE ....Up to ½ mile.....

ACCESS .....Road & track.....

SITE KNOWN TO....Gilindu.....

TYPE OF AQUIFER ....Silty alluvium & gravel.....

DETAILS OF SCHEME ....Bring existing well to acceptable standard...

.....as below.....

.....

.....

MATERIALS REQUIRED .....Nil.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) .....Nil.....

ALTERNATIVE SCHEME .....

.....

PRIORITY ..Second..... Signed ...J.R.L. Read... Date ..14/11/66

LOCATION MAP

Film 16, photo 2.

WAIGAKUM No 2.

Bring existing concrete well to a acceptable standard.

1. Lower pump stand by 18 inches
2. Turn pump outlet in such a way as to allow brackets to stand on concrete and to do pumping by ONE person. Presently TWO people required to pump water.
3. Pipe connecting well with pump to be re-located underground.

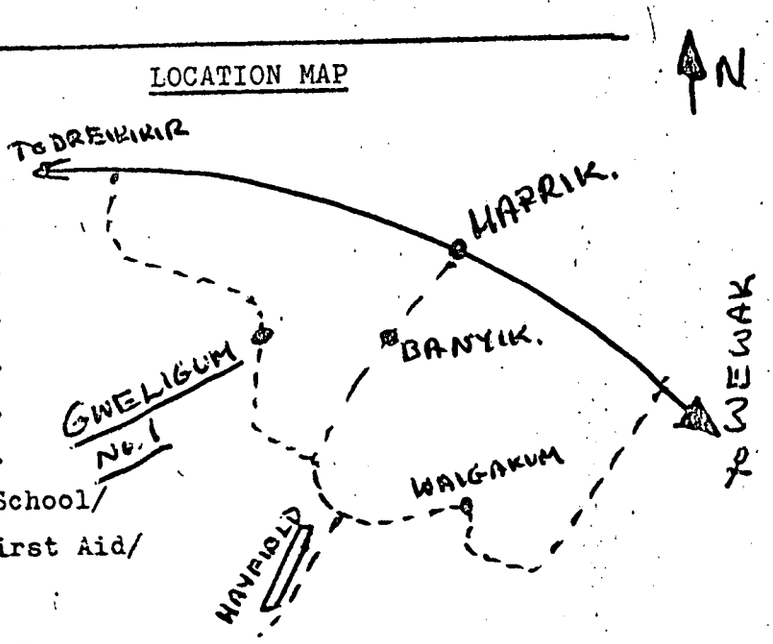
G.S.Form 7

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ... ~~XXXXXXXXXXXXXXXX~~ SEPIK DISTRICT

VILLAGE ..GWELIGUM No1.....
COUNCIL ..Greater Maprik.....
CENSUS DIVISION ..Yore.....
SUB-DISTRICT ....Maprik.....
POPULATION .....265.....
ACCESS .Road..9.miles.from Maprik
.....
NAME OF CHAIRMAN/COUNCILLOR .Bira-Konabi..
.....
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

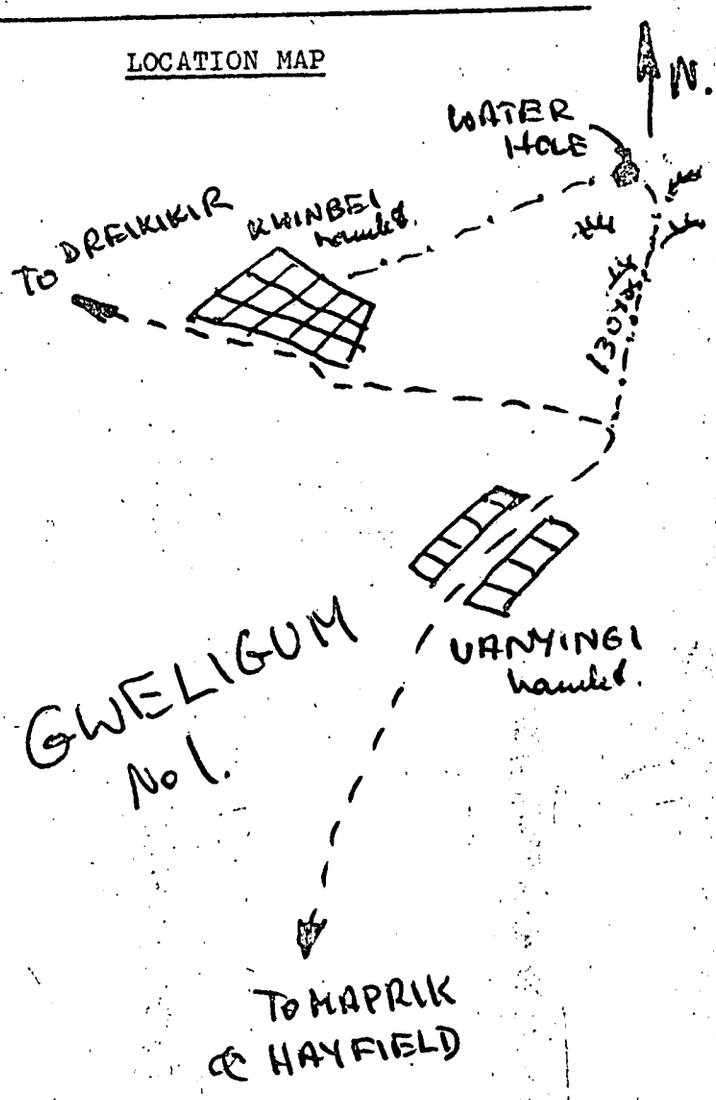
LOCATION MAP



PRESENT SUPPLY

RAINFALL .....62.....
WET SEASON From ..Oct... to .March.
TYPE ..Shallow hole.....
DISTANCE FROM VILLAGE ..250 yds....
TRANSPORT ....Track.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION ....Nil.....
REMARKS .....
.....
.....
.....
DRY SEASON From ..April.. to ..Sept
TYPE .... As. above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ..EAST SEPIK.....DISTRICT

VILLAGE ....GWELIGUM No. 1.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ....Existing water hole.....

.....

DISTANCE FROM VILLAGE ....300 yds.....

ACCESS .....Track.....

SITE KNOWN TO....Bira-Konabi.....

TYPE OF AQUIFER ..Silty alluvium & sandstone.....

DETAILS OF SCHEME ..Develop existing water hole into standard sanitary .....well - 2 pipes.....

.....

.....

MATERIALS REQUIRED ...As per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST (£) .....100.....

ALTERNATIVE SCHEME .....

.....

PRIORITY ...Second..... Signed ...J.R.L. Read... Date ..14/11/66

LOCATION MAP

Film 10, photos 3 & 4.

GWELIGUM No 1

Develop existing Water Hole into a sanitary water well 8/B pipe lining.

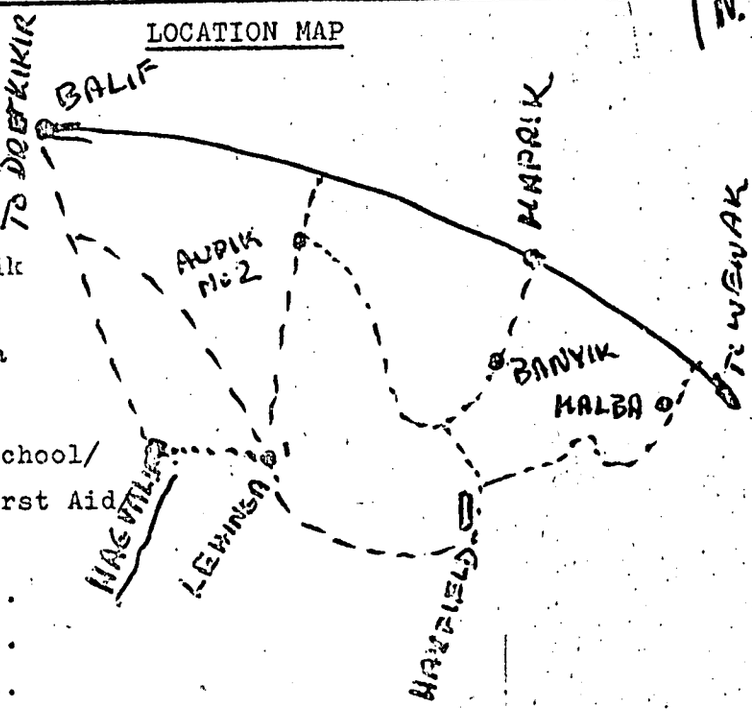
G.S.Form 7

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ..... DISTRICT

VILLAGE ...HAGVALIF.....
COUNCIL ....Greater Maprik.....
CENSUS DIVISION .Dumbita/Kubiang.
SUB-DISTRICT ..Maprik.....
POPULATION ..266.....
ACCESS ..Road..15 miles from Maprik
.....
Chairman/COUNCILLOR Bala'Apan/Siama
.....
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid
Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

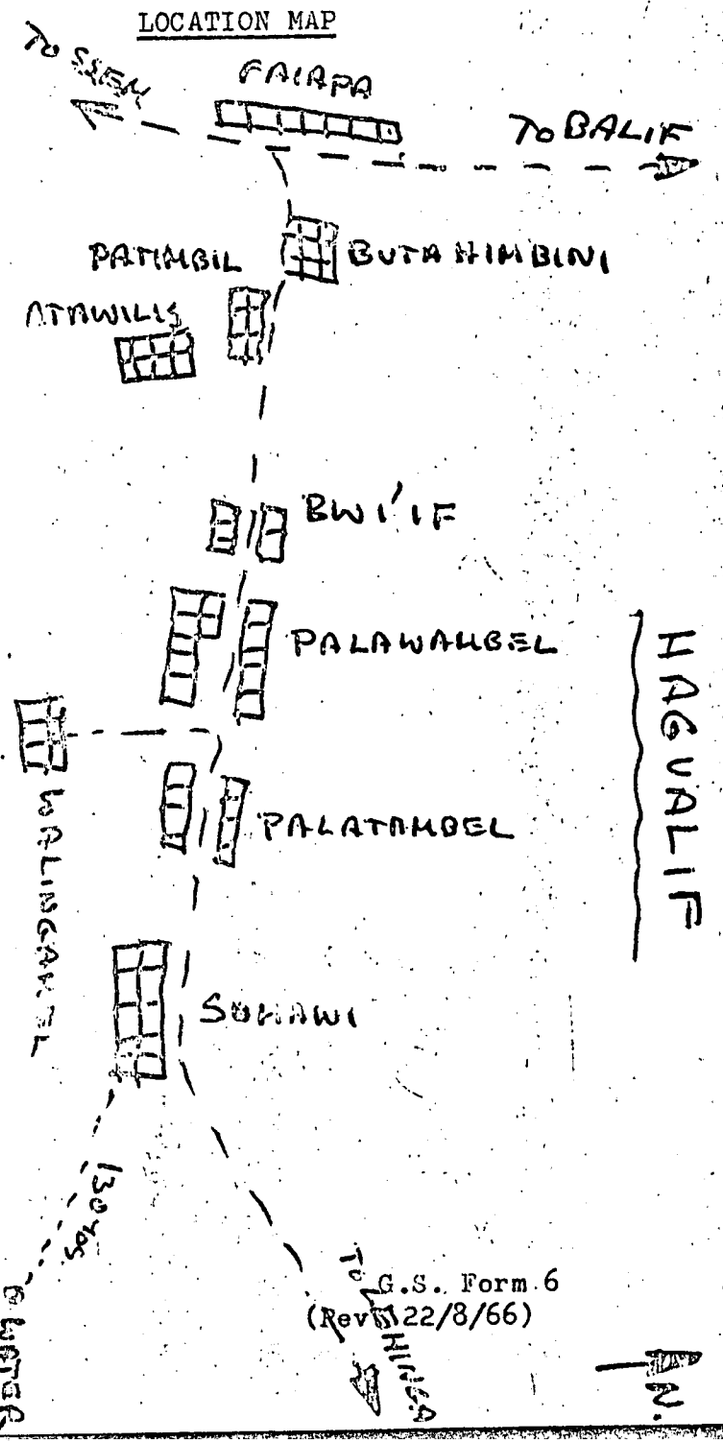
LOCATION MAP



PRESENT SUPPLY

RAINFALL .....62.....
DRY SEASON From .Oct.... to .March
TYPE .....Shallow.hole.....
DISTANCE FROM VILLAGE Up.to.½.mile..
TRANSPORT ...Track.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION .....Nil.....
REMARKS ...Village.along.ridge.....
.....
.....
.....
WET SEASON From ...April. to .Sept.
TYPE ....As above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ..[illegible].....DISTRICT

VILLAGE .....BAGVALIF.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY .....Village central.....

.....

DISTANCE FROM VILLAGE .....Central.....

ACCESS .....Track.....

WATER KNOWN TO.....Bala'aman/Siama.....

TYPE OF AQUIFER .....

DETAILS OF SCHEME ..Nylex catchments & 2.. 2000 gal storage tanks....

.....

.....

.....

MATERIALS REQUIRED .....As per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) .....1000.....

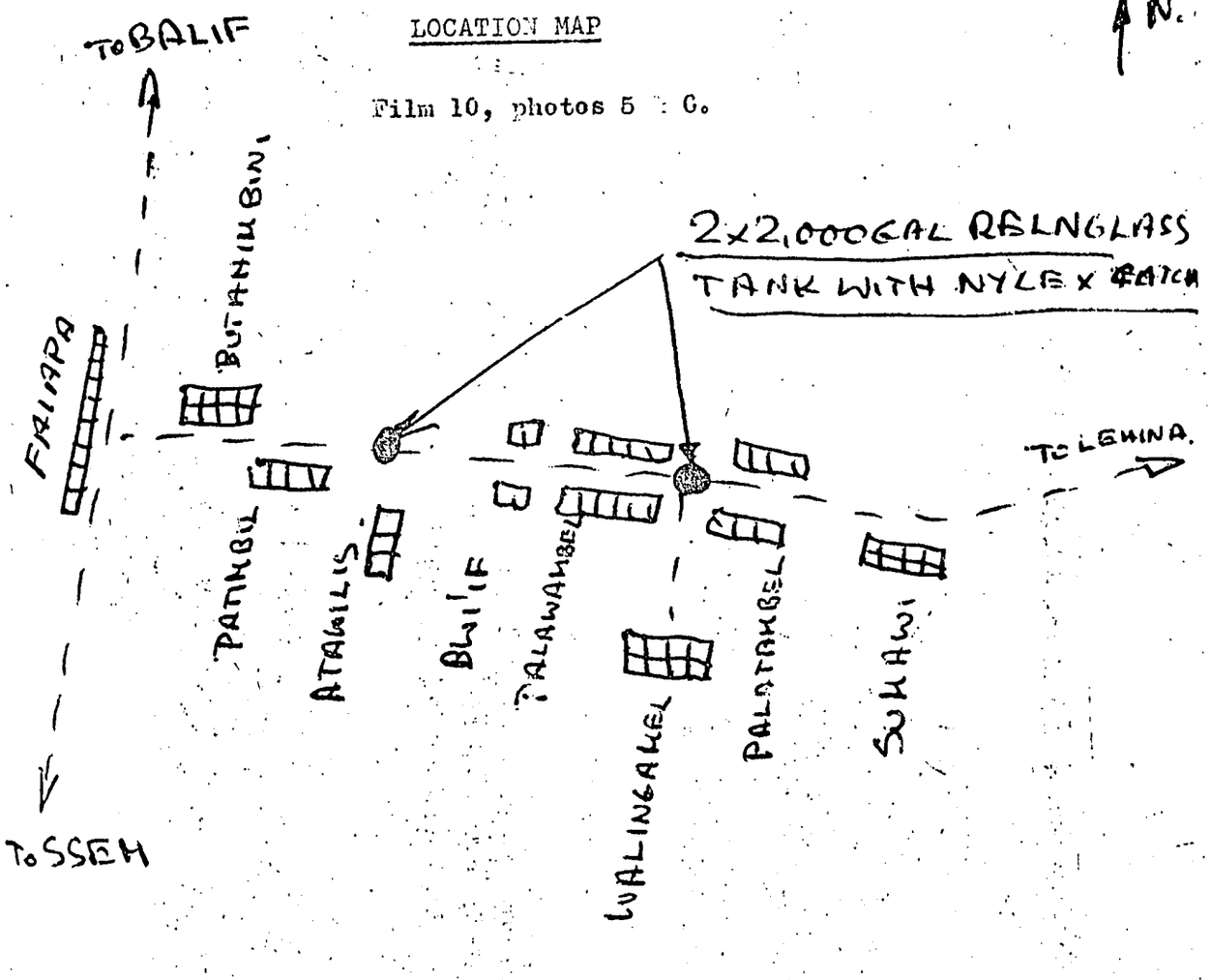
ALTERNATIVE SCHEME .....

.....

PRIORITY ....Second..... Signed ..J.R.L. Read.... Date ...14/11/66

LOCATION MAP

Film 10, photos 5 : 6.

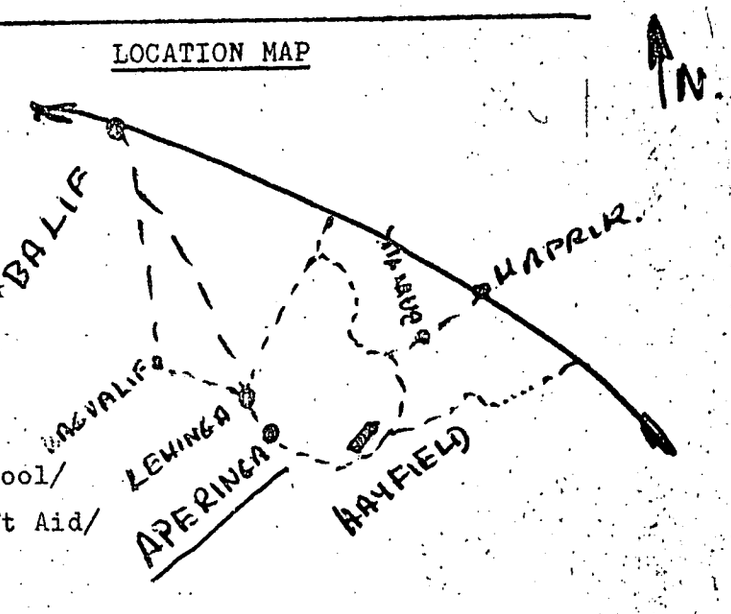


G.S.Form 7

...NT OF VILLAGE WATER SUPPLIES ....EAST SEPIK.....DISTRICT

...E: ..APERINGA.....
...IL ....Greater Angrik.....
...TS DIVISION .Yora.....
...DISTRICT ..Angrik.....
...ATION ....800.....
... ...Road..18 miles from Angrik
.....
...M/COUNCILLOR Mungatonga/...
...mit.man.....
...E USE - Domestic/Government School/
...n/Mission School/Hospital/First Aid/
.../Irrigation
...NNED DEVELOPMENT .....
/.....
...PED DEMAND .....

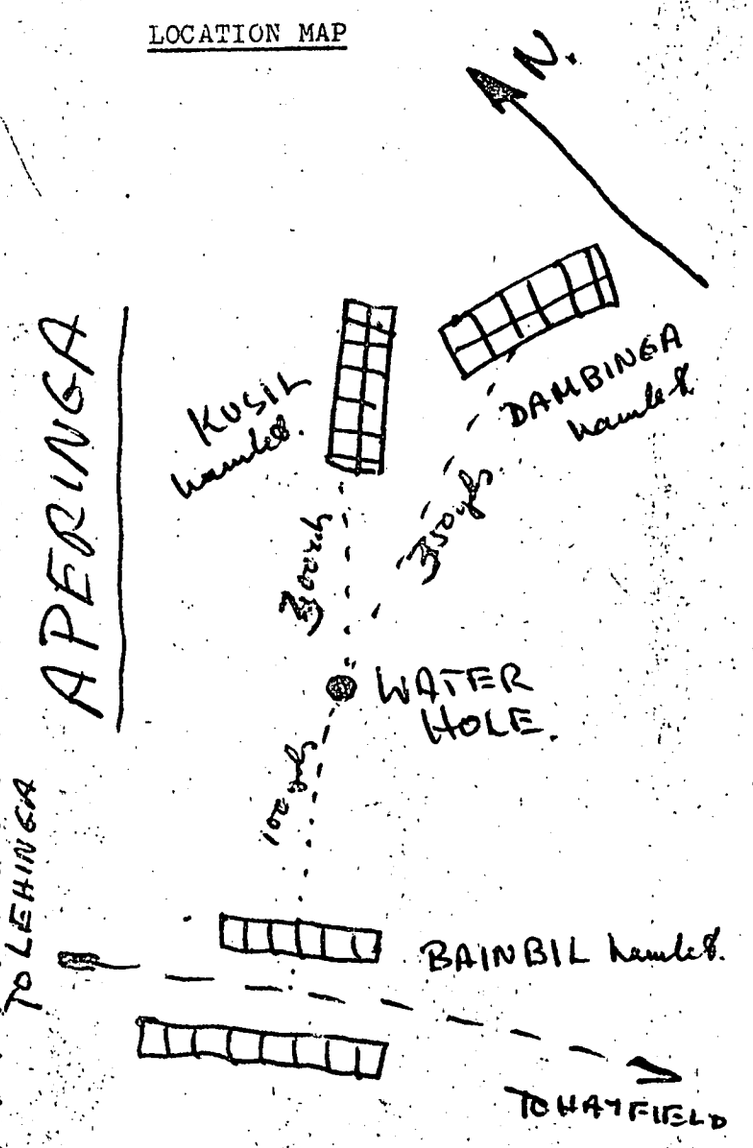
LOCATION MAP



PRESENT SUPPLY

...ALL ....G2.....
...EASON From ..Oct... to ..March.
...Shallow water hole.....
...NCE FROM VILLAGE Up to ½ mile.
...ORT ....Track.....
.../RATE OF FLOW .....
...TY - Chemical .....
Bactereological .....
...CTION ....Nil.....
...KS .....
.....
.....
.....
...EASON From ..April.. to .Sept.
...Ns.above.....
...NCE FROM VILLAGE .....
...ORT .....
.../RATE OF FLOW .....
...TY.....Chemical .....
Bactereological .....
...CTION .....
...KS .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ....WAITAKIK.....DISTRICT

VILLAGE ..APERINGA.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY .....Existing water hole.....

.....

DISTANCE FROM VILLAGE ...Up to ½ mile.....

ACCESS ....Track.....

WELL KNOWN TO...Mangatongu/Kwaituman.....

TYPE OF AQUIFER ...Silty alluvium & gravel.....

DETAILS OF SCHEME ....Develop existing hole into standard sanitary.....well - 8 pipes.....

.....

.....

MATERIALS REQUIRED ....As per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) .....100.....

ALTERNATIVE SCHEME .....

.....

PRIORITY ..Second..... Signed ..J.S.L..Read.... Date ..14/11/66

LOCATION MAP

Film 10, photo 7.

APERINGA

Develop existing water hole into a Sanitary Water Well Pipe Lining 8/6.

G.S.Form 7

...EY OF VILLAGE WATER SUPPLIES ....[illegible].....DISTRICT

...LAGE [illegible]

...CIL .....

...DS DIVISION .....

...DISTRICT ..[illegible].....

...LATION .....140.....

...SS .Road - 4 miles from Laprik

.....

...MAN/COUNCILLOR .....

.....

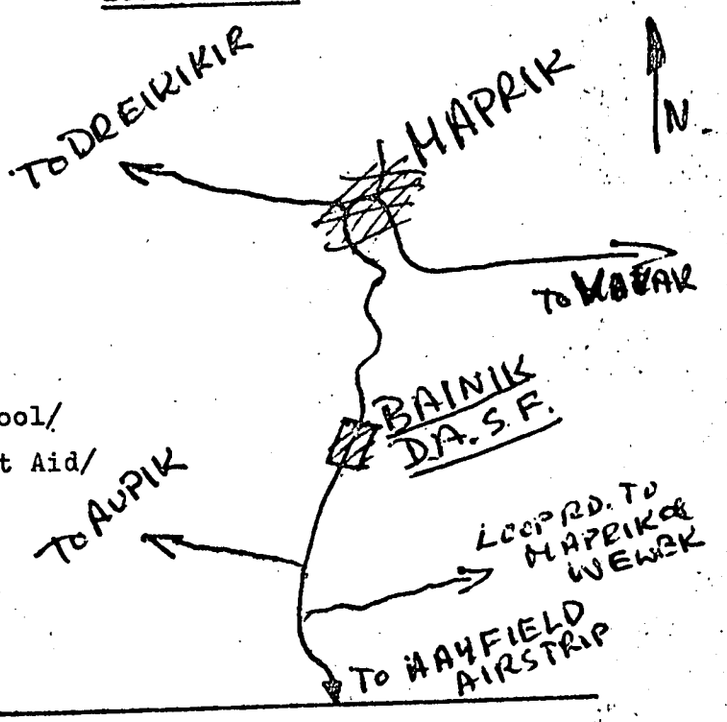
...ATER USE - Domestic/Government School/
...gion/Mission School/Hospital/First Aid/
...k/Irrigation

...NECTED DEVELOPMENT .....

.....

...TIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

...INFALL .....62.....

...T SEASON From .Oct.... to ..March

...PE ..Rainwater & Apogu River.....

...STANCE FROM VILLAGE .....

...ANSPORT ..Road & track.....

...ELD/RATE OF FLOW .....

...ALITY - Chemical .....

Bactereological .....

...OTECTION .....

...MARKS .....

.....

.....

.....

...Y SEASON From .April... to ..Sept.

...PE .....As above.....

...STANCE FROM VILLAGE .....

...ANSPORT .....

...ELD/RATE OF FLOW .....

...ALITY .....Chemical .....

Bactereological .....

...OTECTION .....

...MARKS ..Rainwater catchment insufficient

.....in dry season.....

.....

LOCATION MAP

G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ...MAPRIK.....DISTRICT

VILLAGE MAPRIK AGRIC'L STATION. RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY .....See. below.....

.....

DISTANCE FROM VILLAGE .....Central.....

ACCESS ....Road & track.....

SIZE KNOWN TO.....

TYPE OF AQUIFER .....

DETAILS OF SCHEME ..See. below.....

.....

.....

.....

MATERIALS REQUIRED ....See. below.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Agricultural Department.....

ESTIMATED COST ($) .....

ALTERNATIVE SCHEME .....

.....

PRIORITY ..Second..... Signed ..J.R.L. Read.... Date 14/11/66

LOCATION MAP

Use existing rice sheds and rice mill covering a total of 8,000 sq. ft. as rainwater catchments. Construct a concrete tank of 40,000 gal capacity. Estimated cost of the concrete tank if contracted to the Local Government Council is $2,500, including pumps and Nylex cover. This brings the total cost of installed water storage to about 6½ cents per gal..

Individual 1,000 or 2,000 gal. corrugated iron tanks with stands cost at least 10 cents per gallon and have to be renewed in the Maprik District every 6-8 years. A concrete tank will last 30-40 years or more. Consequently the capital investment is

(i) Concrete tank - 12 cents per gallon (top renewable)

(ii) Corrugated iron - 50 cents per gallon.

WOSERA COUNCIL)
)
)
SEPIK PLAINS CENSUS) MAPRIK SUB DISTRICT
)
)
DIVISION)

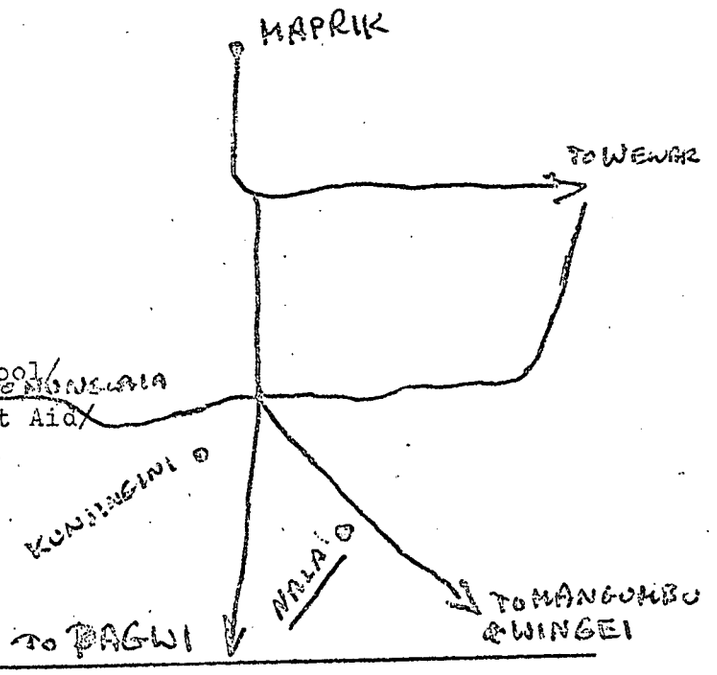
SUMMARY OF SURVEY OF VILLAGE WATER SUPPLIES - WOSERA COUNCIL AND SEPIK PLAINS CENSUS DIVISION

VILLAGE	POPULATION	TYPE OF SCHEME	NO. OF PIPES	ESTIMATED COST $	PRIORITY	REMARKS
Nala No. 1 (105)	82	Well	3	100	Second	Alluvium and gravel. 100 yards from village.
Nungwaia (106)	425	Well	3	100	Second	Silty alluvium. 300 yards from village.
Ugutagwa (107)	400	Catchment		1000	Second	Nylex catchment and fibreglass tanks
Wabindumaga (108)		Well	3	100	Second	Silty alluvium and sandstone. Up to 300 yds. from village.
Tugaikum (109)	517	Well	3	100	Second	Complete Council proposed well
Wombisa (109A)	405	Catchment		1500	Second	Nylex catchment and concrete tank
Kunjingini Mission (110)	153					No recommendation
Seregwandu 'T' School (111)	160					No Recommendation
Serengwandu (112)		Well	3	100	Second	Sandy silt. River's edge behind village.
Jama (113)	290	Well	3	100	Second	Silty alluvium and sand 300 yards from village
Burui (114)	130	Well	3	100	Second	Silty alluvium 75 yards from village.

...OF VILLAGE WATER SUPPLIES ....EAST SEPIK.....DISTRICT

...E ...NALA No. 1.....
...Wosera.....
... DIVISION ...Tamaui.....
...TRICT ...Maprik.....
...TION ...82.....
... Road. 13 miles from Maprik
.....
...COUNCILLOR .Kusila.....
....Yarmat.....
...SE - Domestic/Government School
.../Mission School/Hospital/First Aid
...rrigation
...ED DEVELOPMENT .....
.....
...ED DEMAND .....

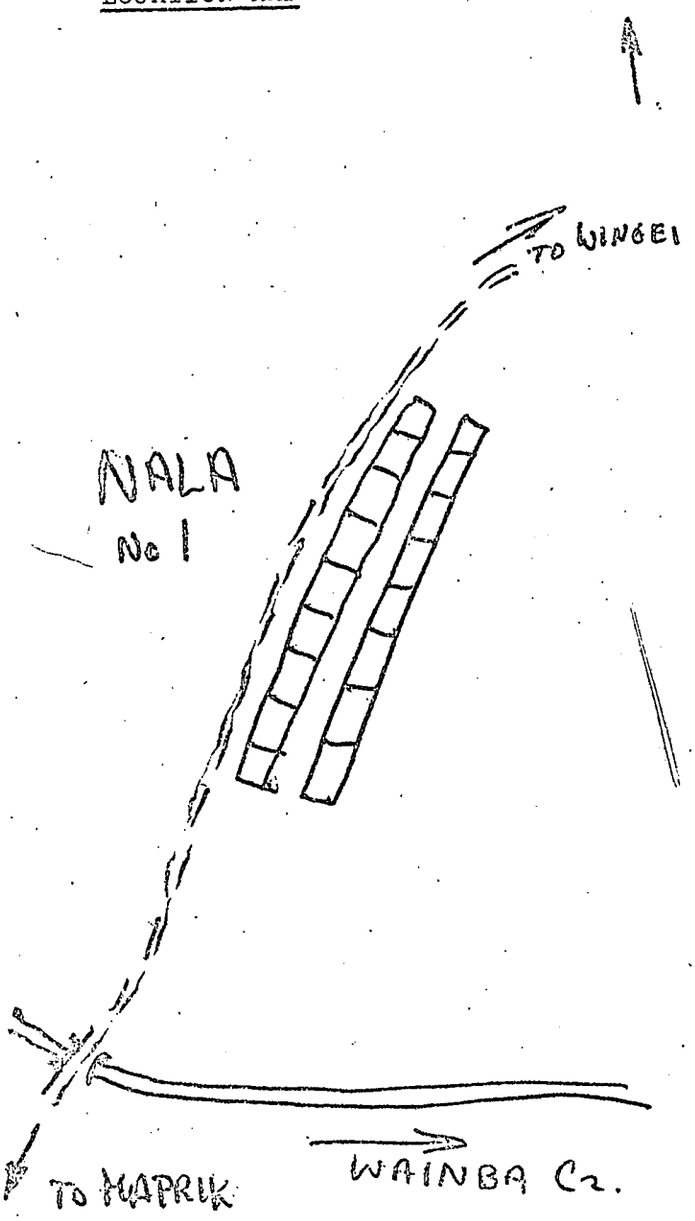
LOCATION MAP



PRESENT SUPPLY

...LL .....62.....
...SON From ..Oct... to ....March
...Small stream.....
...CE FROM VILLAGE ..100 yds....
...ORT ....Road.....
...ATE OF FLOW .....
...Y - Chemical .....
Bactereological .....
...TION ....Nil.....
...S .....
.....
.....
.....
...ASON From .April... to ...Sept.
.....As above.....
...CE FROM VILLAGE .....
...ORT .....
...RATE OF FLOW .....
...Y .....Chemical .....
Bactereological .....
...TION .....
...S .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

VEY OF VILLAGE WATER SUPPLIES .....EAST SEPIK.....DISTRICT

LAGE .....NAIA No. 1.....

RECOMMENDATIONS

E OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

ATION OF NEW SUPPLY .....Wainba creek, alongside Maprik road crossing

.....

TANCE FROM VILLAGE ....100 yds.....

ESS .....Road.....

E KNOWN TO...Kusiku - Vormat.....

E OF AQUIFER ...Silty alluvium & gravel.....

AILS OF SCHEME ...Standard sanitary well.....

.....

.....

.....

ERIALS REQUIRED .....As per standard drawing.....

.....

OUR REQUIRED .....Local.....

ERVISION .....Local.....

IMATED COST ($) .....800.....

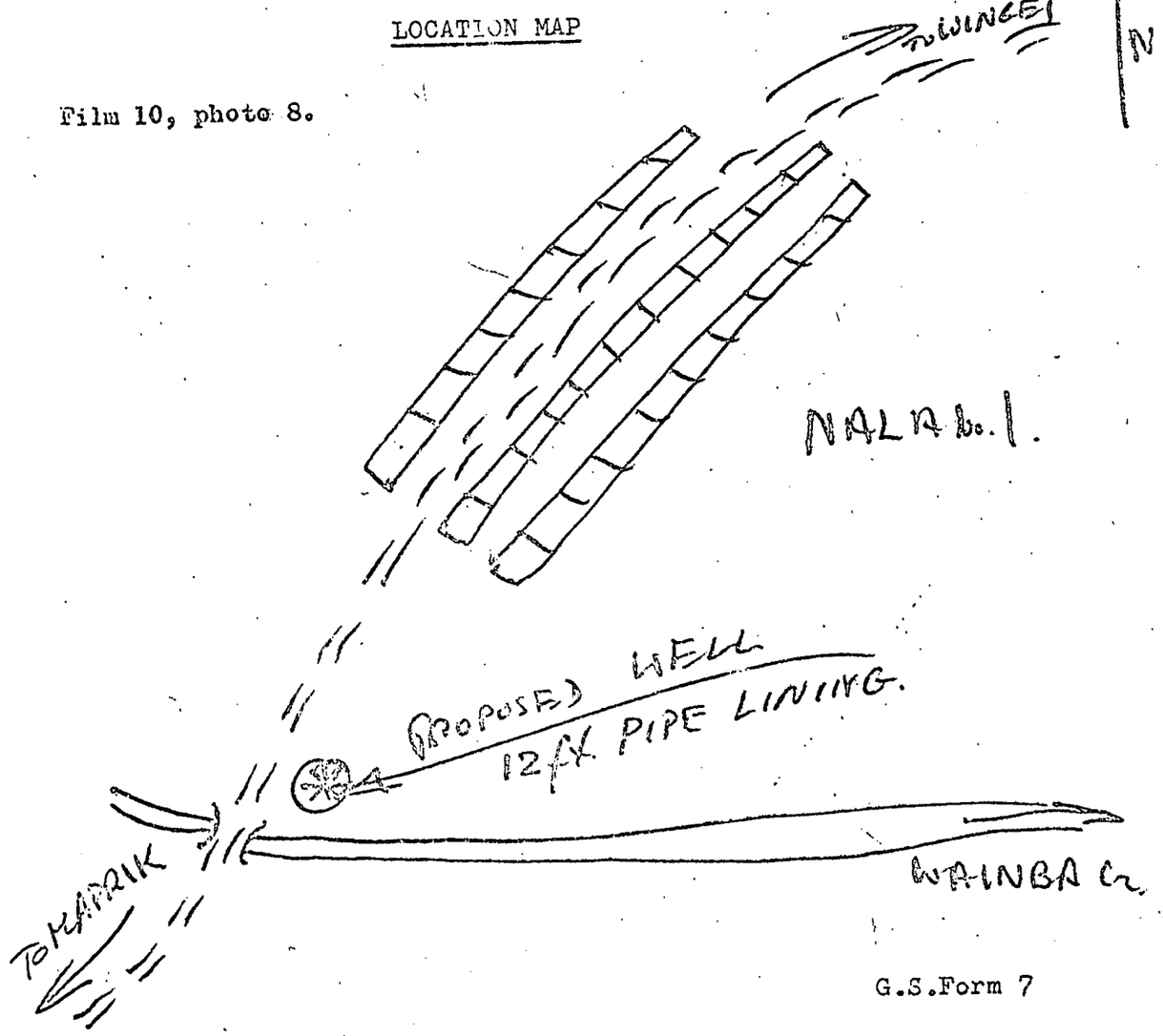
ERNATIVE SCHEME .....

.....

ORITY ..Second..... Signed .J.R.L. Read..... Date .15/11/66

LOCATION MAP

Film 10, photo 8.

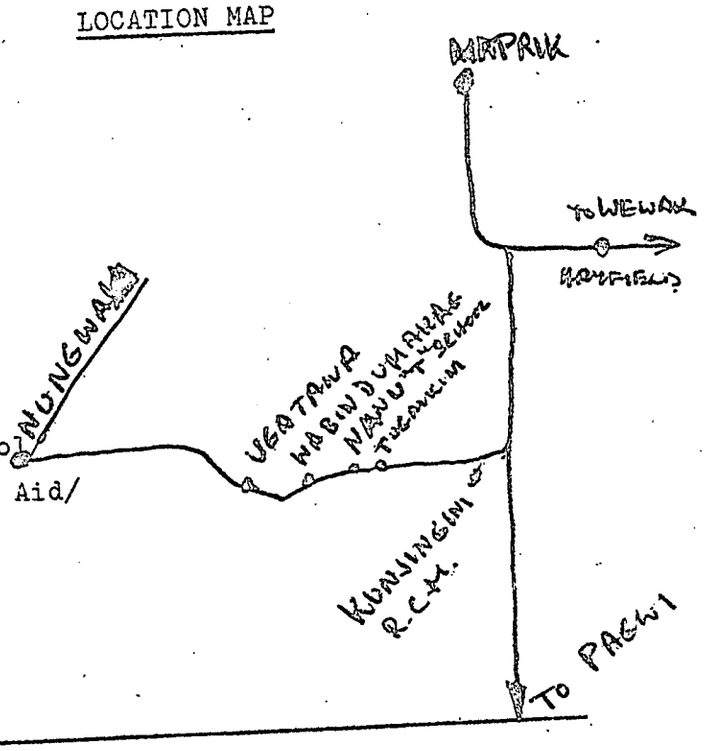


G.S.Form 7

...Y OF VILLAGE WATER SUPPLIES ... EAST SEPIK .....DISTRICT

...GE ....NUNGWAIA.....
...IL ...Wosera.....
...TS DIVISION ..South Wosera...
...DISTRICT ...Maprik.....
...LATION ....425.....
...SS ..Road & track.....
.....
...N/COUNCILLOR Jambai-Jalwe..
.....
...ER USE - Domestic/Government School
...on/Mission School/Hospital/First Aid/
.../Irrigation
...ECTED DEVELOPMENT .....
.....
...MATED DEMAND .....

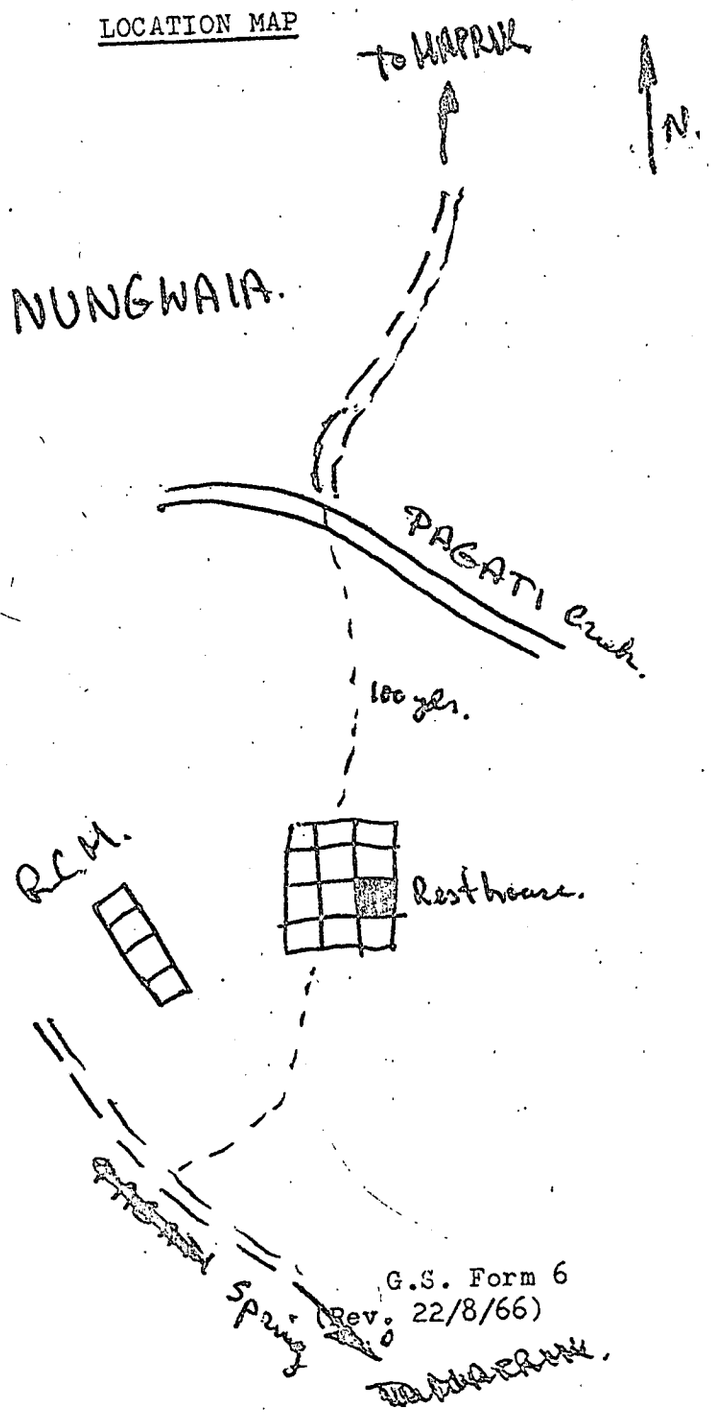
LOCATION MAP



PRESENT SUPPLY

...NFALL ....62.....
... SEASON From .Octo... to ..March
...E ....Small stream.....
...STANCE FROM VILLAGE ..2-300 yds..
...NSPORT ...Track.....
...LD/RATE OF FLOW .....
...LITY - Chemical .....
Bactereological .....
...TECTION .....Nil.....
...ARKS .....
.....
.....
.....
...H SEASON From ..April.. to .Sept.
...E ...As above.....
...STANCE FROM VILLAGE .....
...ANSPORT .....
...ELD/RATE OF FLOW .....
...LITY .....Chemical .....
Bactereological .....
...TECTION .....
...EMARKS .....
.....
.....

LOCATION MAP



SURVEY OF VILLAGE WATER SUPPLIES .....EAST SEPIK.....DISTRICT

VILLAGE ....NUNGWAIA.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ...Pagat creek, alongside Nanu road stream crossing.

DISTANCE FROM VILLAGE ...300 yds.

ACCESS .....Track.

TITLE KNOWN TO...Jamhqi-Halve.

TYPE OF AQUIFER ...Silty alluvium

DETAILS OF SCHEME ....Standard sanitary well, 3 pipes

MATERIALS REQUIRED ....As per standard drawing.

LABOUR REQUIRED .....Local

SUPERVISION .....Local

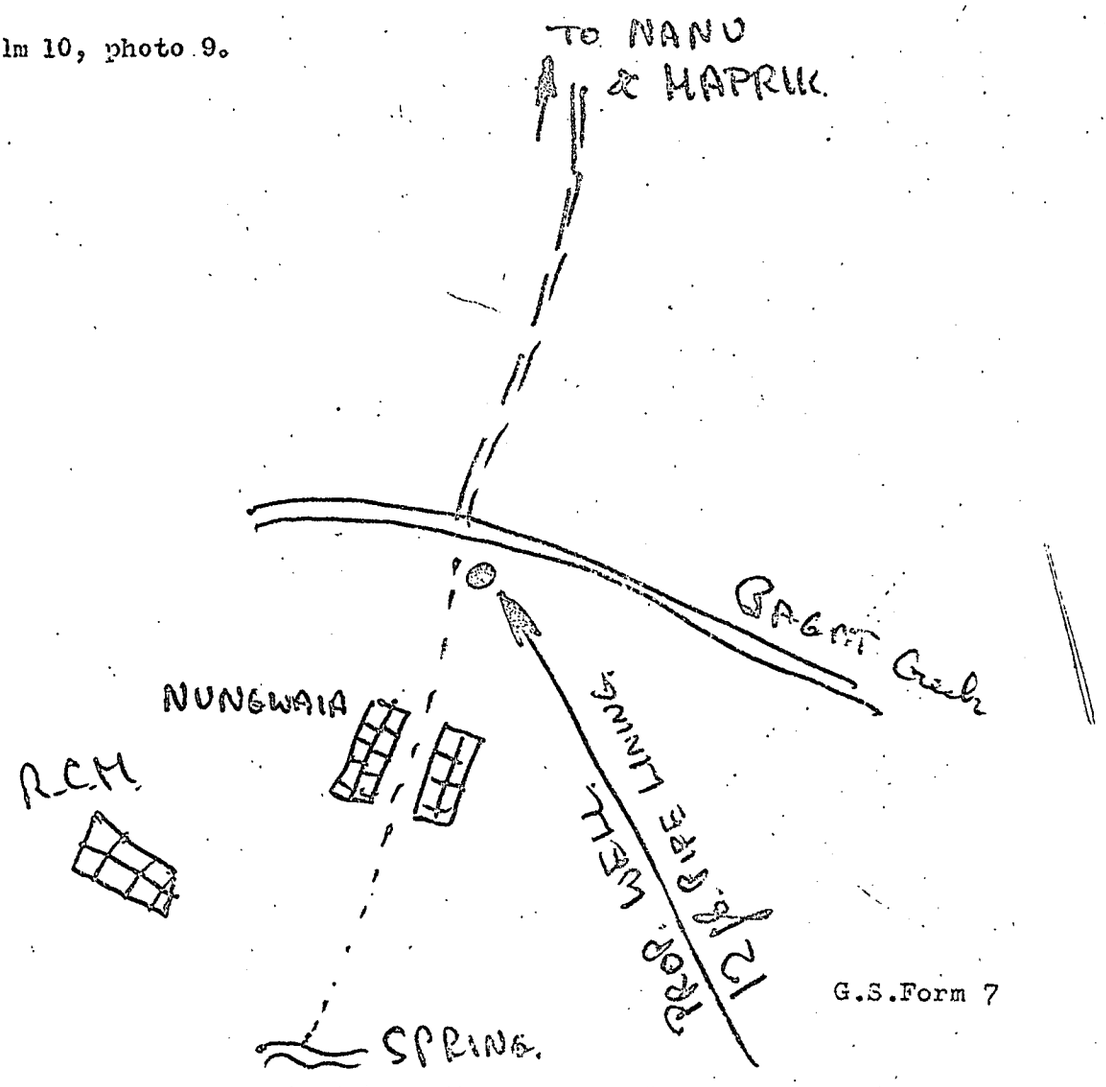
ESTIMATED COST ($) 100

ALTERNATIVE SCHEME .....

PRIORITY ..Second..... Signed ..J.R.L. Read... Date ..15/11/66

LOCATION MAP

Film 10, photo 9.



G.S.Form 7

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ....W. EAST SEPIK.....DISTRICT

VILLAGE .....UGATAGWA.....

PARISH ....Wasera.....

LOCAL GOVT DIVISION ..North Wosera...

SUB-DISTRICT .....Maprik.....

POPULATION ....400.....

ACCESS .....Road.....

.....

MEMBER/COUNCILLOR ..Uruguayia.-.

.....Naigwa.....

PRESENT USE - Domestic/Government School/

Mission School/Hospital/First Aid/

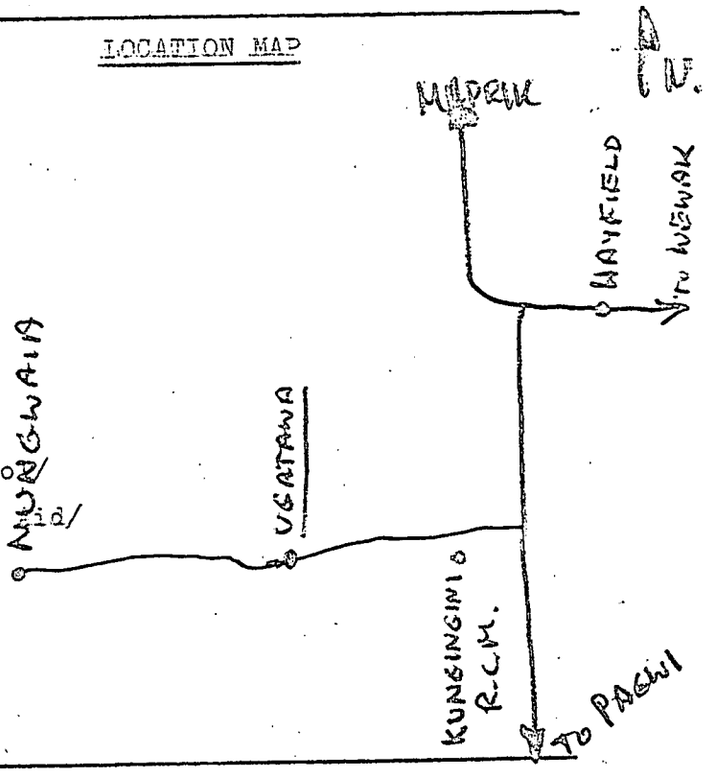
Irrigation

PLANNED DEVELOPMENT .....

.....

ESTIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

RAINFALL ....62.....

SEASON From ..Oct... to .March

.Small.streams.....

DISTANCE FROM VILLAGE ½ - ¾ mile..

TRANSPORT ....Track.....

YIELD/RATE OF FLOW .....

QUALITY - Chemical .....

Bactereological .....

INFECTION ....Nil.....

REMARKS ..Village.along.ridge.....

.....

.....

.....

SEASON From ..April.. to .Sept.

As above.& shallow.soaks.....

DISTANCE FROM VILLAGE .....

TRANSPORT .....

YIELD/RATE OF FLOW .....

QUALITY .....Chemical .....

Bactereological .....

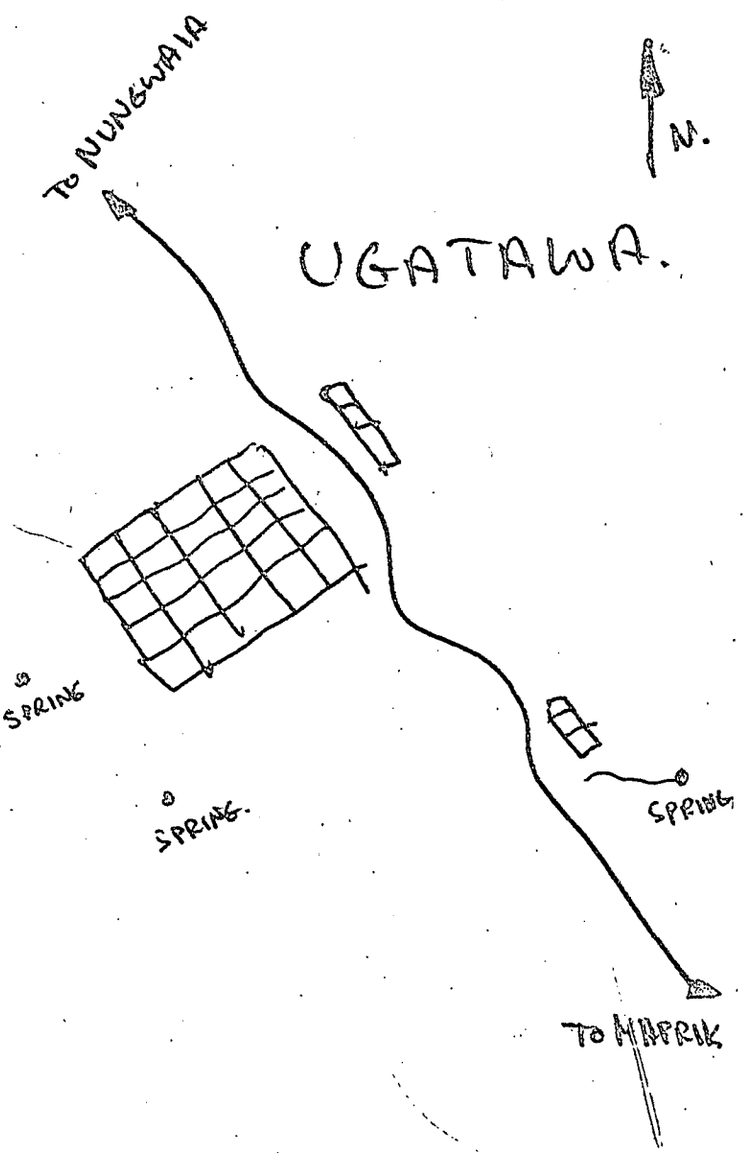
INFECTION .....Nil.....

REMARKS ..Streams run dry in dry...

....season.....

.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

SY OF VILLAGE WATER SUPPLIES ....EAST SEPIK.....DISTRICT

LAGE ....UGATAGWA.....

RECOMMENDATIONS

E OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

ATION OF NEW SUPPLY .....Village central.....

.....

TANCE FROM VILLAGE .....Central.....

SS .....

S KNOWN TO...Uruguayia - Naigwa.....

E OF AQUIFER .....

AILS OF SCHEME ..Nylex catchments & 2, 2000 gal storage tanks....

.....

.....

.....

ERIALS REQUIRED .....As per standard drawing.....

.....

UR REQUIRED .....Local.....

RVISION .....Local.....

IMATED COST ($) .....1000.....

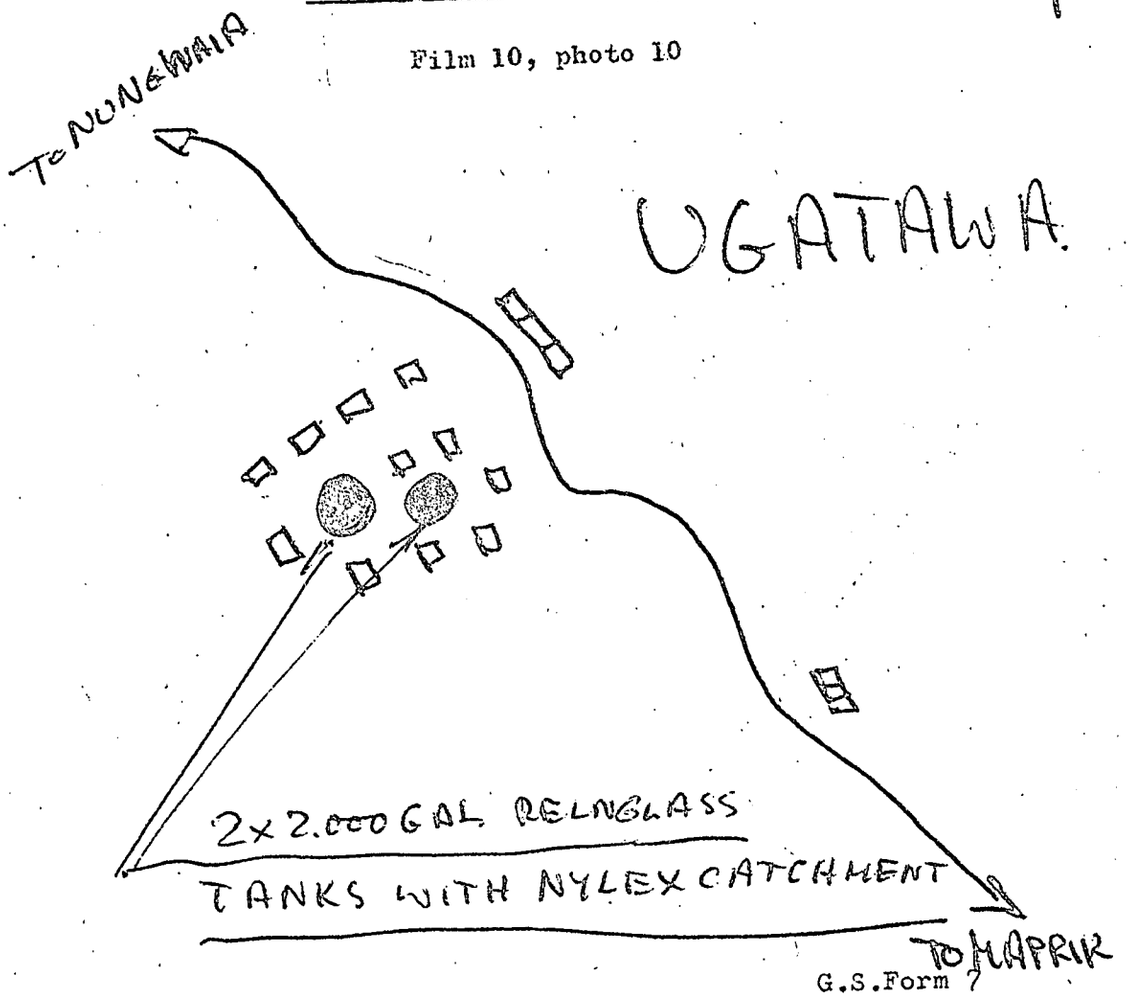
ERNATIVE SCHEME .....

.....

RITY ....Second..... Signed ...J.R.L. Read... Date ..15/11/66

LOCATION MAP

Film 10, photo 10



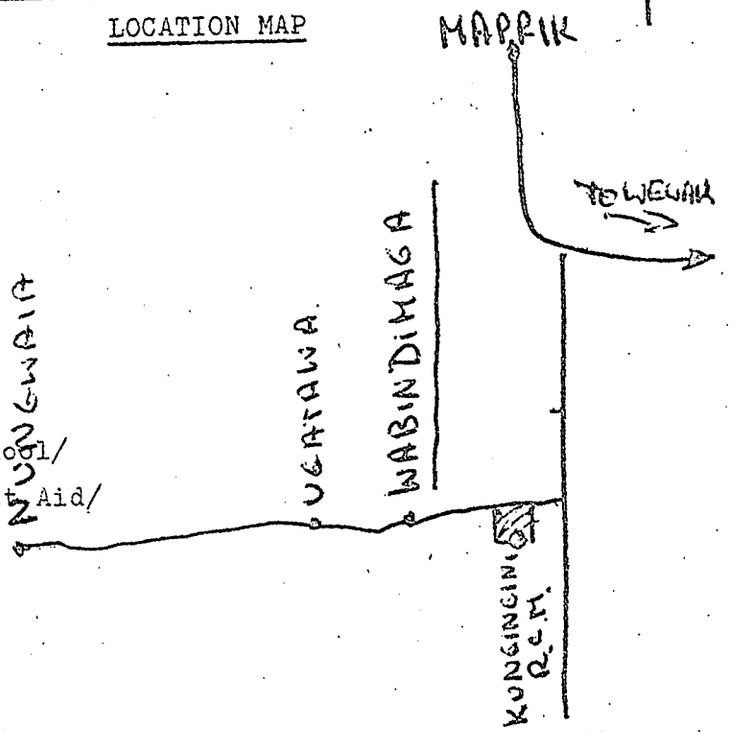
G.S.Form 7

TERRITORY OF PAPUA & NEW GUINEA

OF VILLAGE WATER SUPPLIES ...WAT.PAH.....DISTRICT

E .....WABINDIMA.....
L ....Kesera.....
DIVISION .....
STRICT ....Kapril.....
CTION .....
....Kesa.....
.....
N/COUNCILLOR .....
.....
SE - Domestic/Government School/
Mission School/Hospital/First Aid/
Irrigation
TED DEVELOPMENT .....
.....
TED DEMAND .....

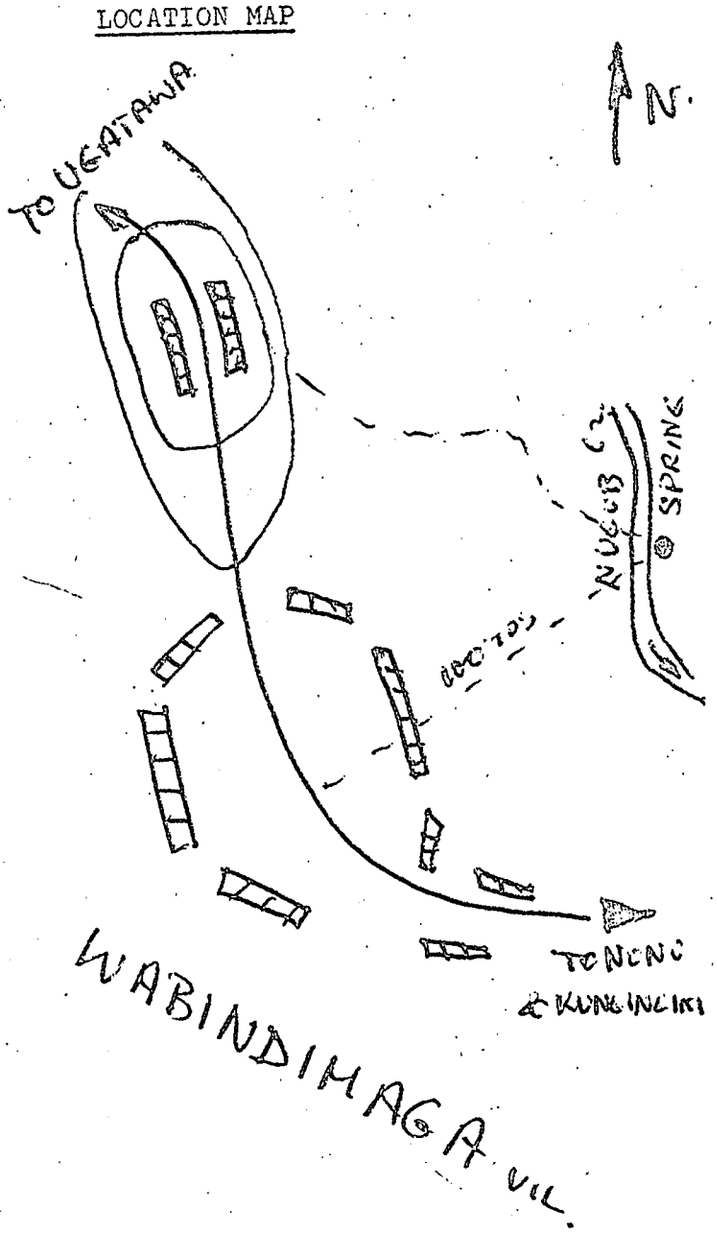
LOCATION MAP



PRESENT SUPPLY

LL .....62.....
SON From .Oct.... to .March.
...mall stream & spring.....
E FROM VILLAGE .Up. to 800.yds
RT ....Track.....
ATE OF FLOW .....
- Chemical .....
Bactereological .....
TION ....Nil.....
S .....
.....
.....
.....
SON From ..April.. to ..Sept
.....above.....
E FROM VILLAGE .....
RT .....
ATE OF FLOW .....
Y .....Chemical .....
Bactereological .....
TION .....
S .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ..EAST SEPIK.....DISTRICT

VILLAGE ...WABINDUMAGA..... RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ..At.existing.spring.beside.Nugub.stream.....

.....

DISTANCE FROM VILLAGE .....Up.to.300.yds.....

ACCESS .....Track.....

SOURCE KNOWN TO.....

TYPE OF AQUIFER .Silty.alluvium.&.sandstone.....

DETAILS OF SCHEME ...Develop.existing.spring.into.a.standard.....

.....sanitary.well,.3.pipes.....

.....

.....

MATERIALS REQUIRED .....As.per.standard.drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) .....100.....

ALTERNATIVE SCHEME .....

.....

PRIORITY ..Second..... Signed ....J.R.L.Read.. Date .15/11/66

LOCATION MAP

Film 10, photos 11, 12.

WABINDIMAGA

Develop existing NUGUB spring (across the NUGUB creek) 12 ft. PIPE LINING

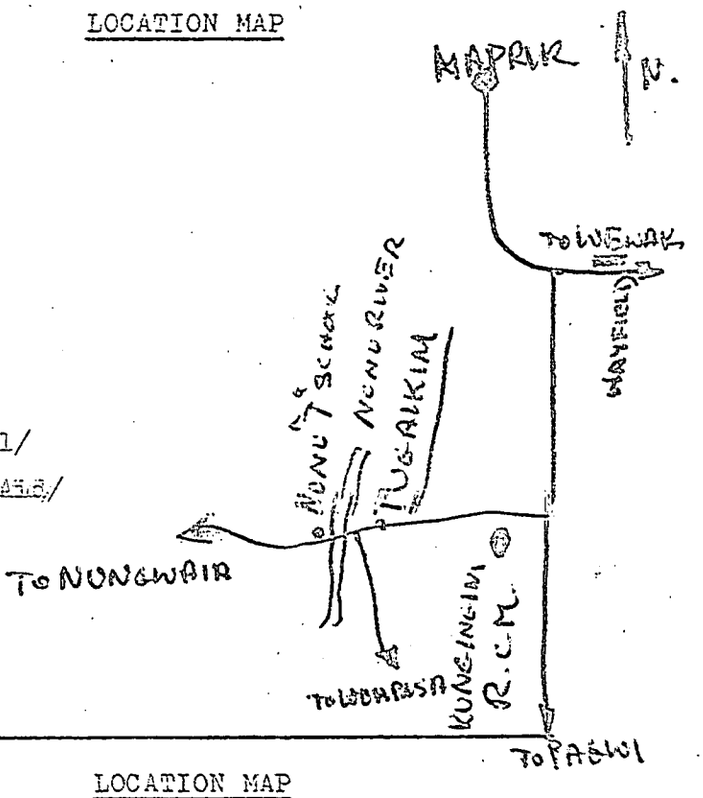
G.S.Form 7

TERRITORY OF PAPUA & NEW GUINEA

...Y OF VILLAGE WATER SUPPLIES ...[illegible]...DISTRICT

...AGE .....[illegible]
...CIL ...Masera.....
...S DIVISION ...North Wosera..
...DISTRICT ...Maprik.....
...LATION ...517.....
...ES ..Road. 28 miles from Maprik
.....
...WN/COUNCILLOR ..[illegible]
.....Kuban.....
...T USE - Domestic/Government School/
... Mission School/Hospital/First Aid/
... Irrigation
...IED DEVELOPMENT .....
.....
...IED DEMAND .....

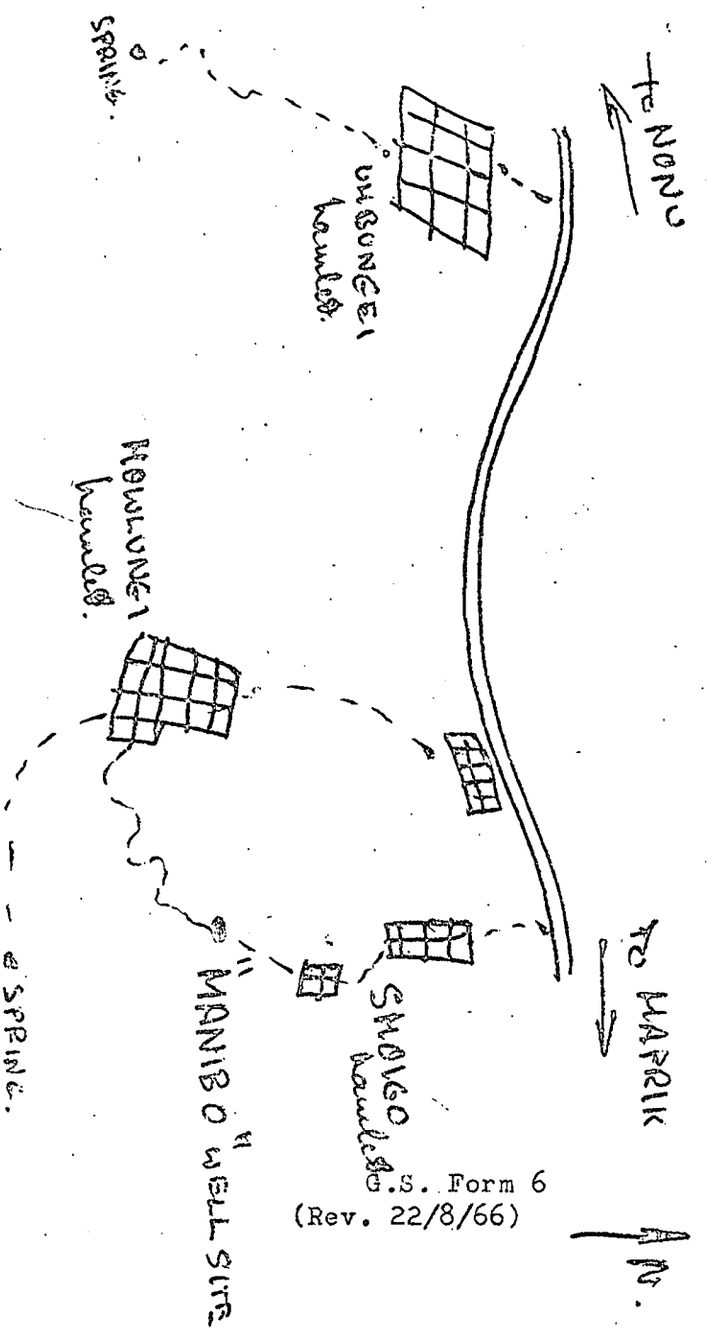
LOCATION MAP



PRESENT SUPPLY

...TALL .....62.....
...SEASON From .Oct.... to March..
... ..Spring.....
...NCE FROM VILLAGE ...300 yds..
...PORT ....Track.....
...E/RATE OF FLOW .....
...ITY - Chemical .....
Bactereological .....
...CTION ....Nil.....
...KS .....
.....
.....
.....
...SEASON From .April... to Sept..
... .As above.....
...TANCE FROM VILLAGE .....
...PORT .....
...W/RATE OF FLOW .....
...ITY .....Chemical .....
Bactereological .....
...CTION .....
...KS .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ....A.T.SEPIK.....DISTRICT

VILLAGE TUGAILUS..... RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY .....Complete proposed (Council) well.....
....at Manibo.....

DISTANCE FROM VILLAGE .Up to ½ mile.....

ACCESS .....Track.....

SITE KNOWN TO....Kawak - Kuban.....

TYPE OF AQUIFER ..Silty alluvium.....

DETAILS OF SCHEME ....Standard sanitary well. 3 pipes.....
.....
.....
.....

MATERIALS REQUIRED .....As per standard drawing.....
.....

LABOUR REQUIRED .....Local.....

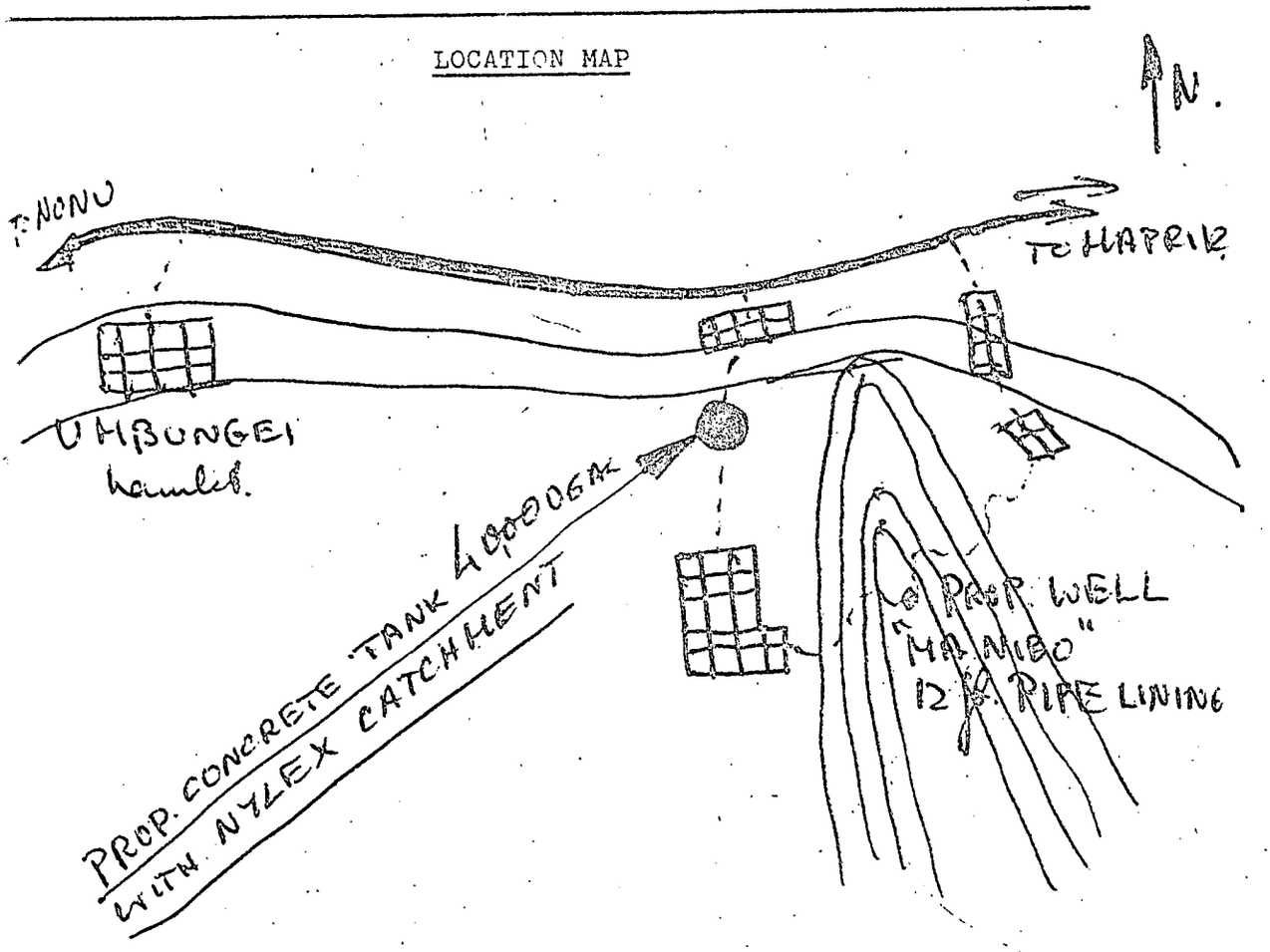
SUPERVISION .....Local.....

ESTIMATED COST ($) .....100.....

ALTERNATIVE SCHEME .A Nylex catchment & 1, 40,000 gal storage tank. (As per standard drawing) is preferred to the proposed well. Cost - $1500

PRIORITY ...Second..... Signed .J.M.L..Read..... Date .15/11/66

LOCATION MAP

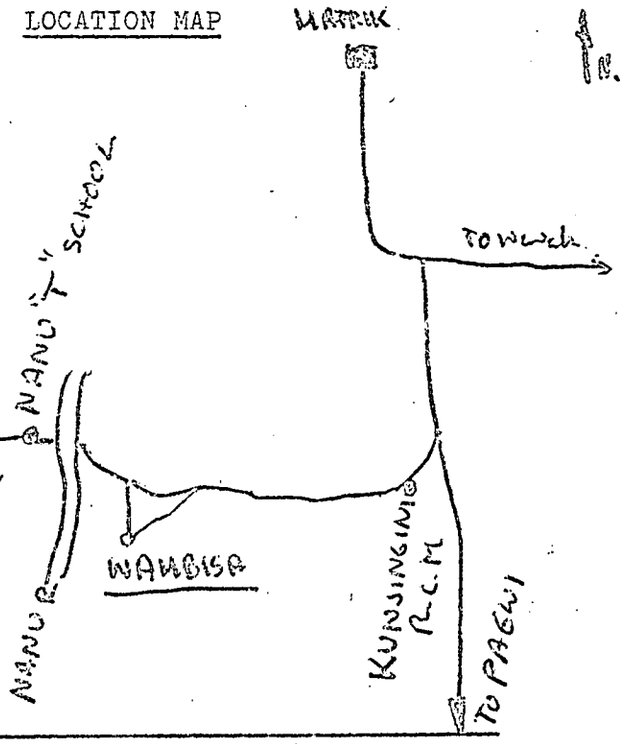


TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ...EAST SEPIK.....DISTRICT

VILLAGE ..~~KONISA~~ MORIKA.....
COUNCIL ..Mosera.....
LOCAL DIVISION .South Mosera....
SUB-DISTRICT ...Maprik.....
POPULATION ..400.....
ROADS ...Road.....
.....
HEADMAN/COUNCILLOR ..Matik.....
...Sergamba.....
PRESENT USE - Domestic/Government School/
Plantation/Mission School/Hospital/First Aid/
Stock/Irrigation
PROPOSED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

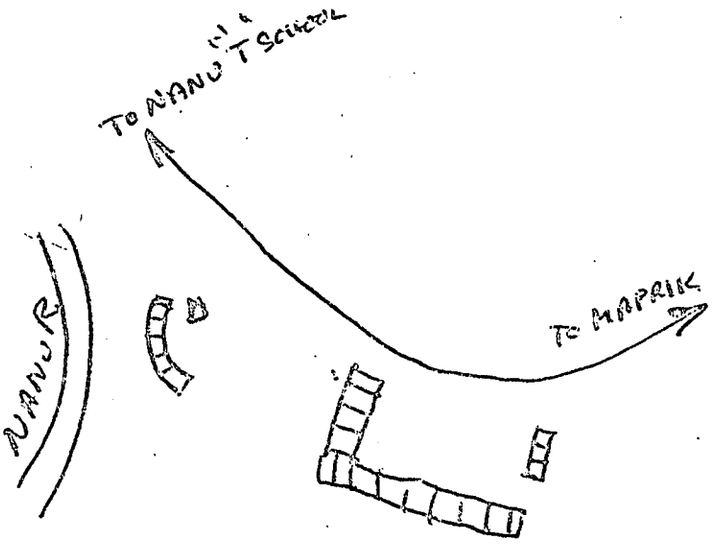
LOCATION MAP



PRESENT SUPPLY

WELL .....62.....
SEASON From .Oct.... to .March.
SOURCE .Nanu river.....
DISTANCE FROM VILLAGE .Up to ½ mile.
TRANSPORT ...Track.....
RATE/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
CONDITION ....Nil.....
REMARKS .....
.....
.....
.....
SEASON From .April... to ..Sept
....As above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
RATE/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
CONDITION .....
REMARKS .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

T E R R I T O R Y O F P A P U A & N E W G U I N E A

SURVEY OF VILLAGE WATER SUPPLIES ...[illegible].....DISTRICT

VILLAGE ...KOMBISA..... RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ...Village central.....

.....

DISTANCE FROM VILLAGE .....Central.....

ACCESS .....Track.....

LAND KNOWN TO...Matik - Sergamba.....

TYPE OF AQUIFER .....

DETAILS OF SCHEME ..Nylex catchment & 1, 40,000 gal. storage tank (concrete)

.....

.....

.....

MATERIALS REQUIRED ....As per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....~~Kennk~~ To be provided by Public Works.....

ESTIMATED COST ($) .....1500.....

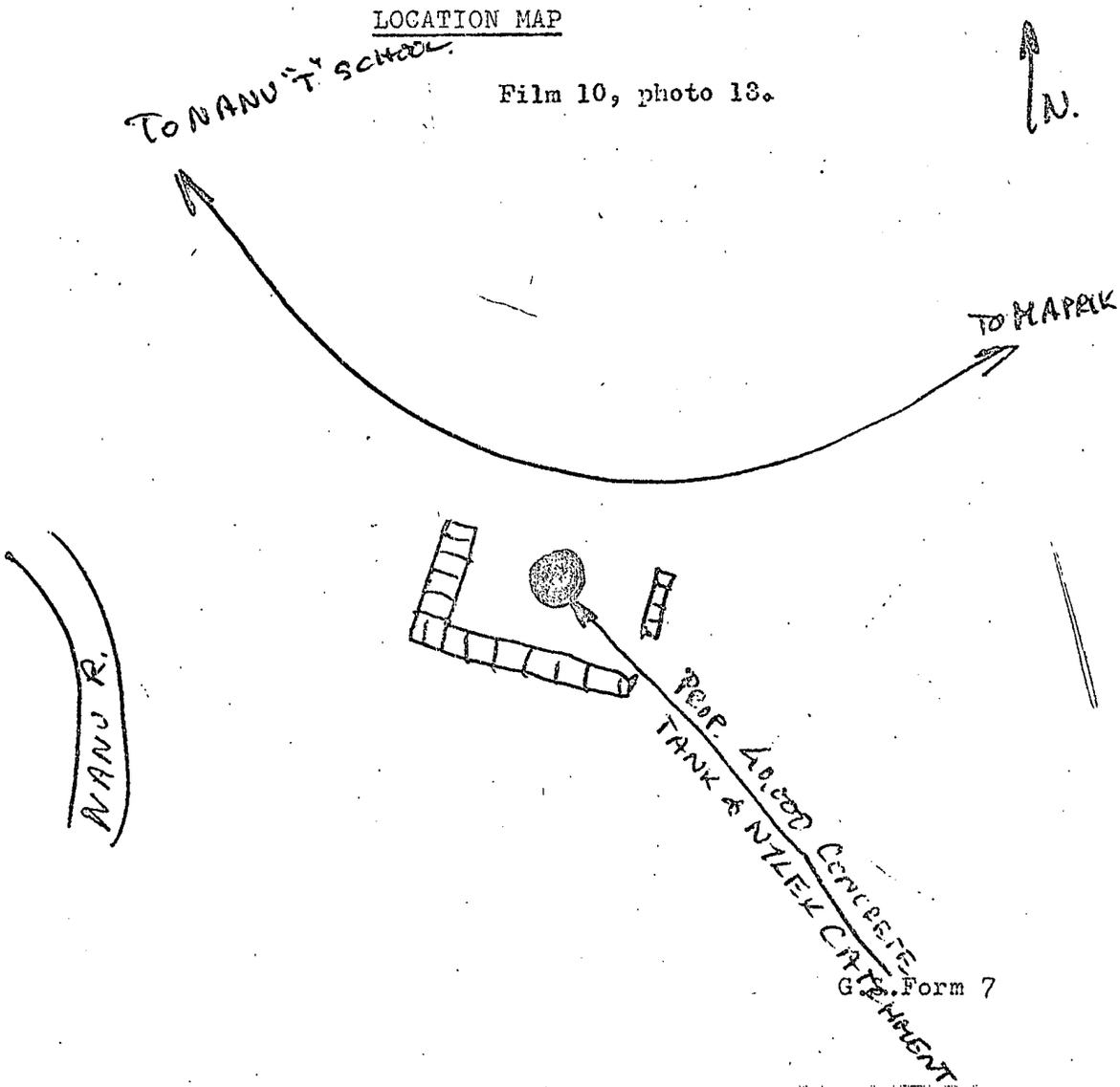
ALTERNATIVE SCHEME .....

.....

PRIORITY ..Second..... Signed ...J.R.L. Read... Date 16/11/66

LOCATION MAP

Film 10, photo 18.



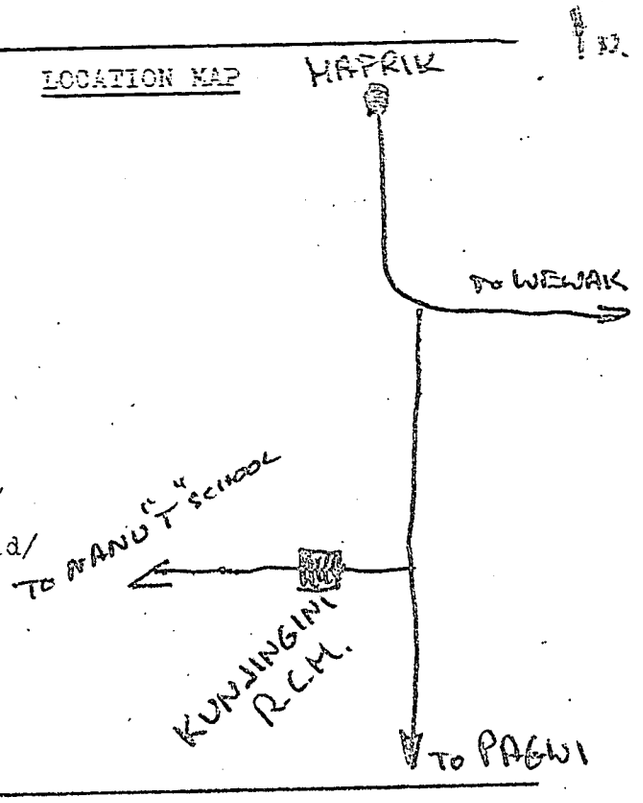
G.S. Form 7

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ..EAST SEPIK.....DISTRICT

VILLAGE KUNJINGINI R.C. MISSION.
VILL .....
LOCALITY DIVISION .North Wosera....
SUB-DISTRICT .Maprik.....
POPULATION ..153.....
ACCESS ..Road.....
.....
HEADMAN/COUNCILLOR .....
.....
WATER USE - Domestic/Government School/
Plantation/Mission School/Hospital/First Aid/
Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

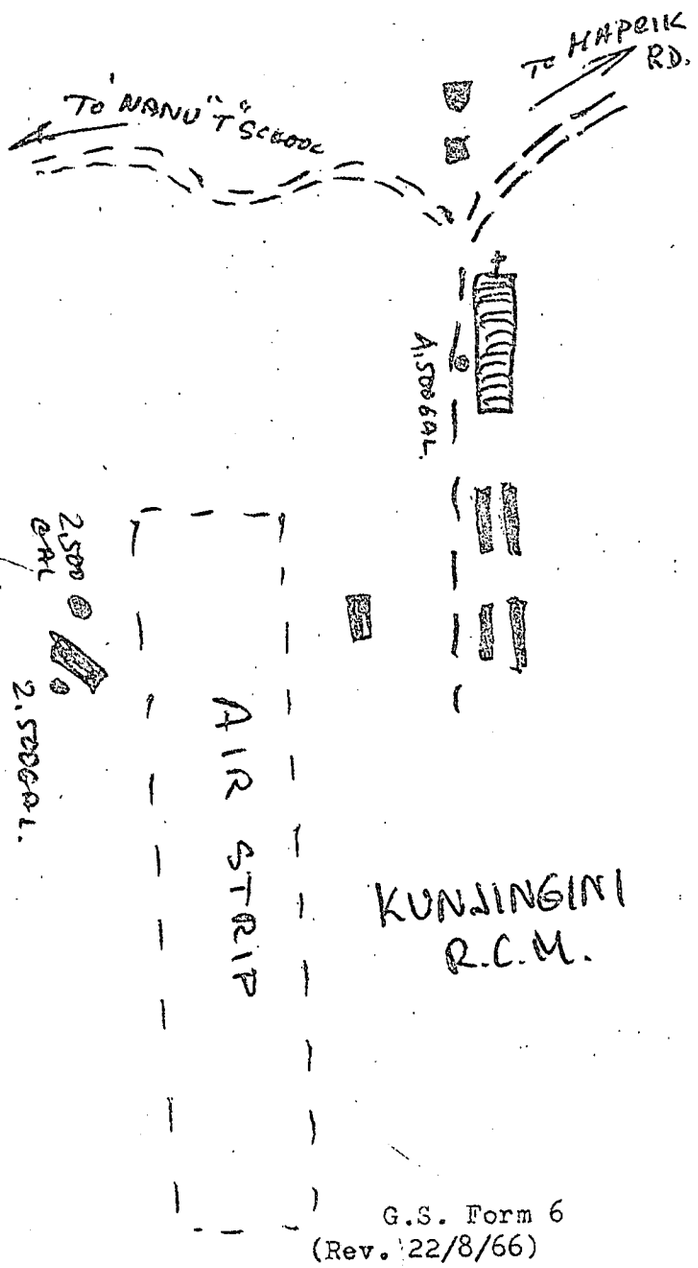
LOCATION MAP



PRESENT SUPPLY

RAINFALL .....62.....
DRY SEASON From ..Oct... to ..March..
TYPE ..Rainwater catchment.....
DISTANCE FROM VILLAGE .....
TRANSPORT .Road & track.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
DIRECTION .....
REMARKS .....
.....
.....
.....
WET SEASON From ..April.. to .Sept.
TYPE .... As above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
DIRECTION .....
REMARKS ..Water supply adequate....
Church alone can profitably.....
....feed an 80,000 gal. tank.....

LOCATION MAP



Film 10, photo 14.

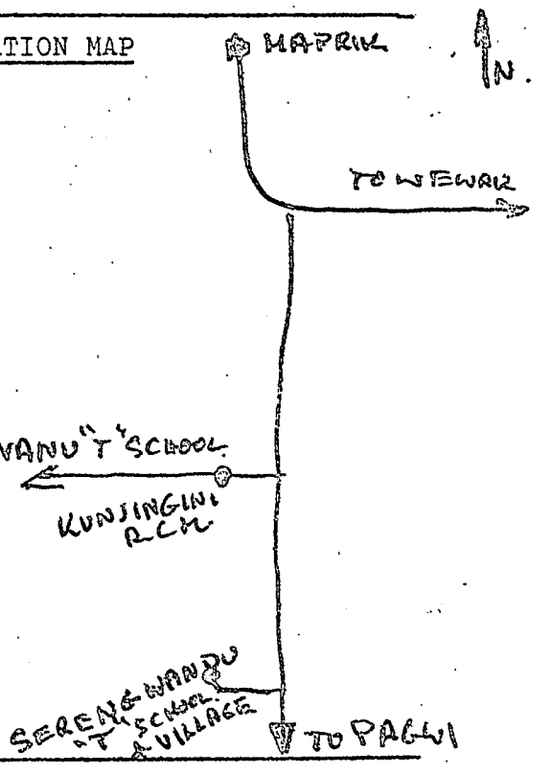
G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

...RVEY OF VILLAGE WATER SUPPLIES ...A.S.T. MAPIK.....DISTRICT

...LLAGE . SERENGWANDU 'T' SCHOOL...
...NCIL ..Nosera.....
...SUS DIVISION ..South Nosera...
...DISTRICT ...Maprik.....
...ULATION .160 pupils.....
...ESS .Road.....
.....
...DMAN/COUNCILLOR .....
.....
...TER USE - Domestic/Government School/
...sion/Mission School/Hospital/First Aid/
...k/Irrigation
...NECTED DEVELOPMENT .....
.....
...IMATED DEMAND .....

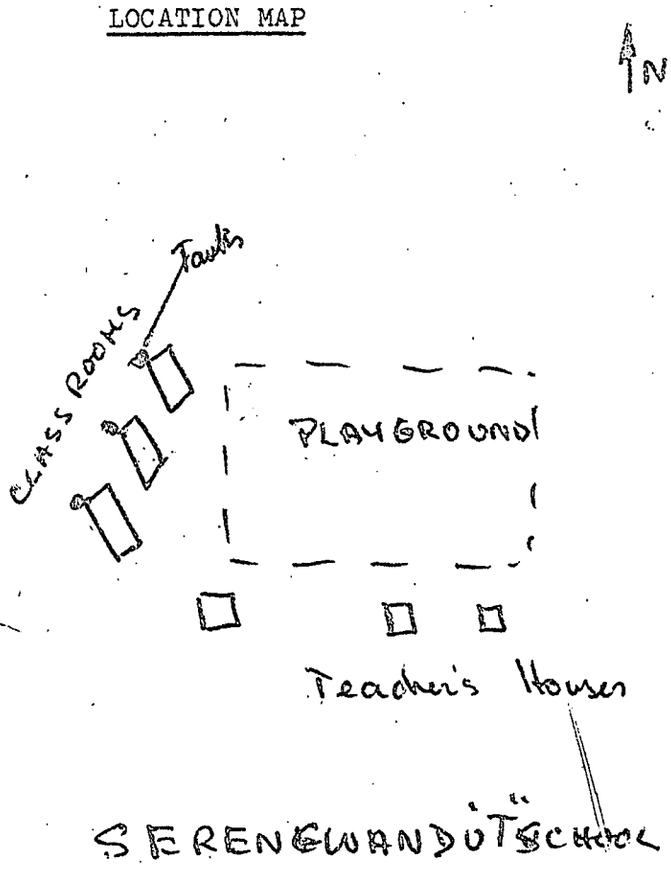
LOCATION MAP



PRESENT SUPPLY

...NFALL .....62.....
...SEASON From ..Oct.. to .March.
...E ....Rainwater catchmen t.....
...TANCE FROM VILLAGE .....
...NSPORT .....Track.....
...LD/RATE OF FLOW .....
...LITY - Chemical .....
Bactereological .....
...ECTION .....
...ARKS .....
.....
.....
.....
...SEASON From ..April.. to .Sept.
...E ....As.above.....
...TANCE FROM VILLAGE .....
...NSPORT .....
...LD/RATE OF FLOW .....
...LITY .....Chemical .....
Bactereological .....
...ECTION .....
...ARKS ..Water supply adequate....
....No recommendation.....
.....

LOCATION MAP



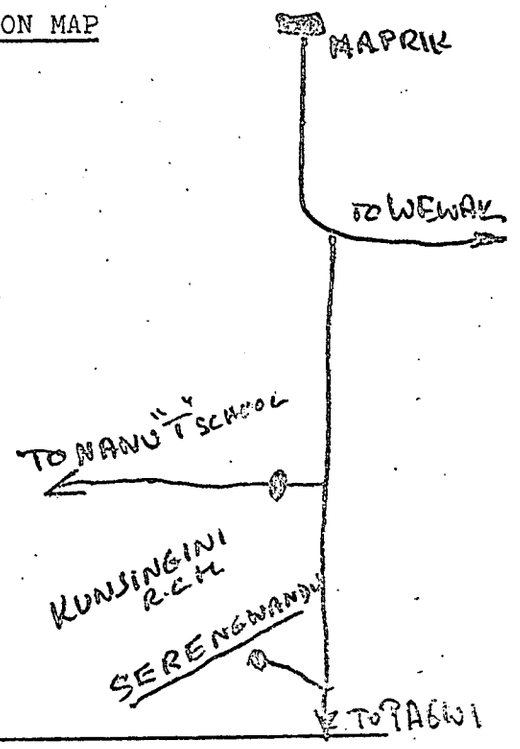
G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

...Y OF VILLAGE WATER SUPPLIES ...EAST SEPIK.....DISTRICT

...E ...SERENGWANDU.....
...L ...Wasera.....
...T DIVISION .....
...STRICT ..Maprik.....
...ATION .....
...S ..Road.....
.....
...N/COUNCILLOR .....
.....
...USE - Domestic/Government School/
...n/Mission School/Hospital/First Aid/
Irrigation
...ED DEVELOPMENT .....
.....
...TED DEMAND .....

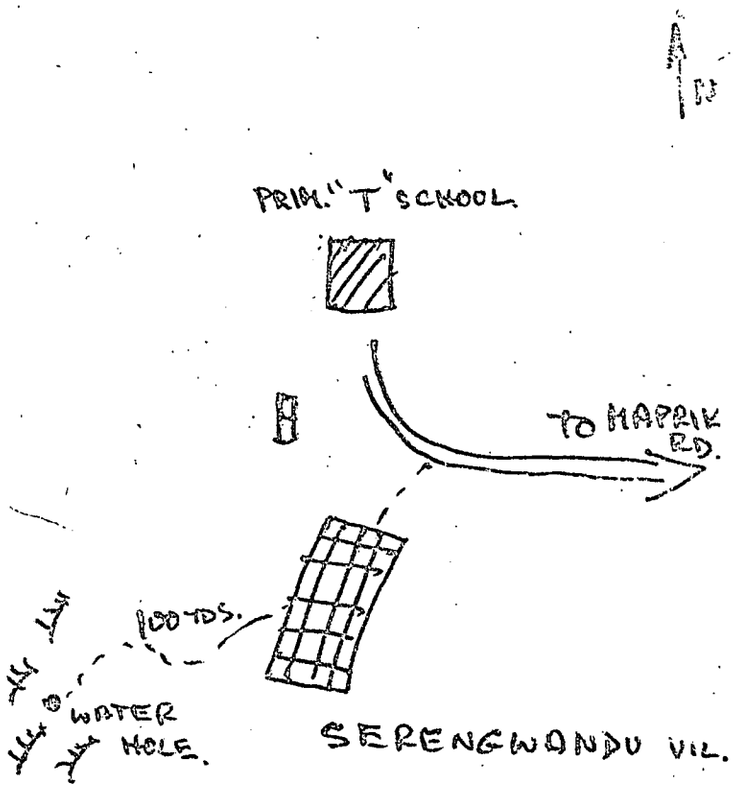
LOCATION MAP



PRESENT SUPPLY

...ALL .....62.....
...EASON From .Oct... to .March.
Shallow ~~pit~~ soak beside river.
...NCE FROM VILLAGE .....100.....
...ORT ..Track.....
...D/RATE OF FLOW .....
...ITY - Chemical .....
Bactereological .....
...ECTION .....Nil.....
...RKS .....
.....
.....
.....
...SEASON From .April.. to .Sept.
...T .....As above.....
...NCE FROM VILLAGE .....
...SPORT .....
...D/RATE OF FLOW .....
...ITY .....Chemical .....
Bactereological .....
...ECTION .....
...RKS .....
.....
.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

...OF VILLAGE WATER SUPPLIES ..EAST SEPIK.....DISTRICT

...GE ....SERENGWANDU.....

RECOMMENDATIONS

...OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

...ION OF NEW SUPPLY ..At existing soaks beside river but above top flood level.

...CE FROM VILLAGE 100

... .Track

... KNOWN TO

... OF AQUIFER ....Sandy Silt.

...LS OF SCHEME ...Standard sanitary well, 3 pipes

...RIALS REQUIRED ....As per standard drawing

...R REQUIRED .....Local

...PVISION .....Local

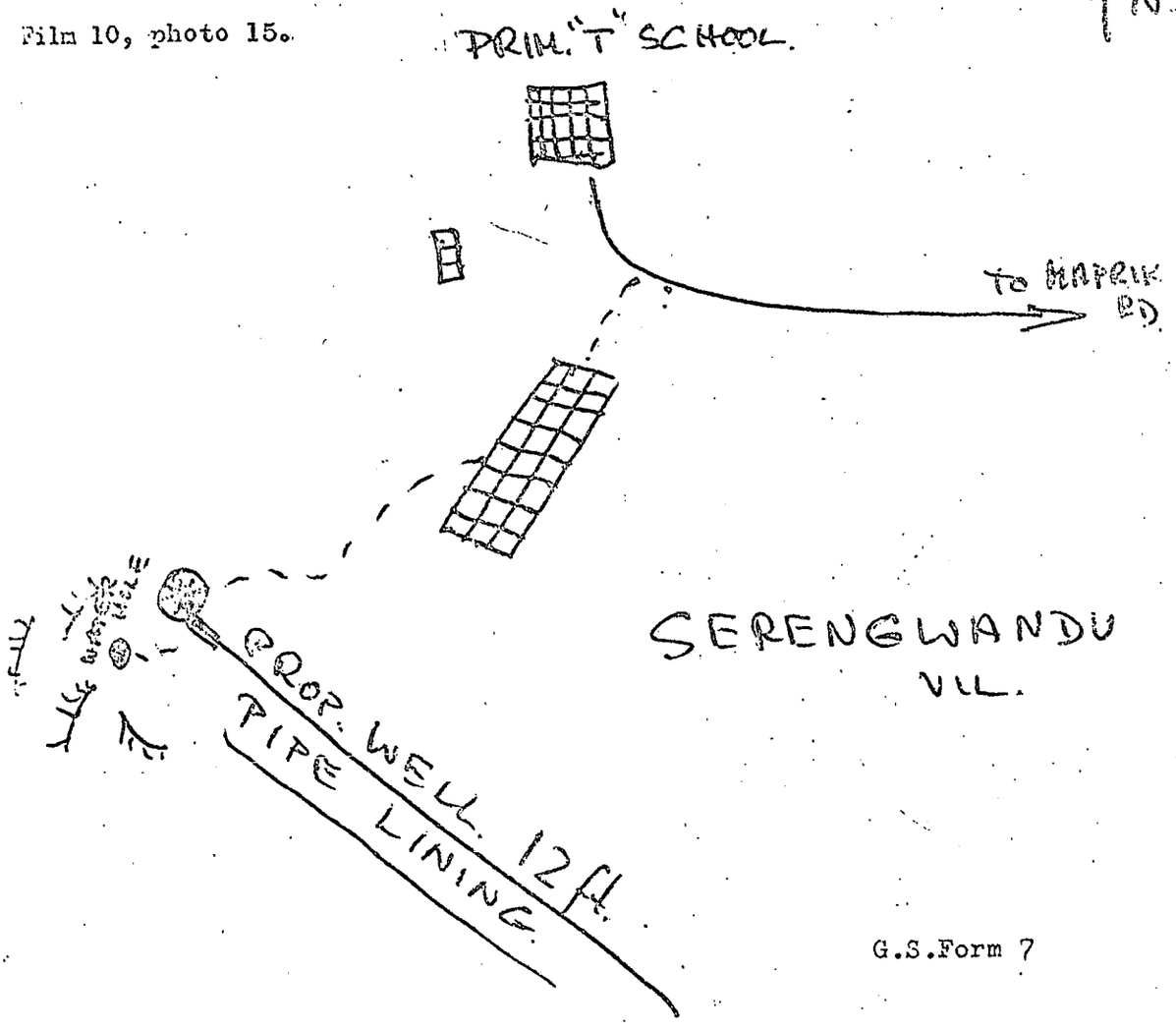
...MATED COST ($) 100

...RNATIVE SCHEME

...RITY .Second..... Signed ..J.H.L. Read.... Date ...16/11/66

LOCATION MAP

Film 10, photo 15.



G.S.Form 7

TERRITORY OF PAPUA & NEW GUINEA

...Y OF VILLAGE WATER SUPPLIES ....EAST SEPIK.....DISTRICT

N.

...E ....JAHA.....

...L ....Nil.....

... DIVISION .Sepik Plains....

...STRICT ..Maprik.....

...TION ...220.....

... .Good.....

.....

...N/~~CONSTITUENT~~ .Sambuli-Bongo.

.....

... USE - Domestic/Government School/

.../Mission School/Hospital/First Aid/

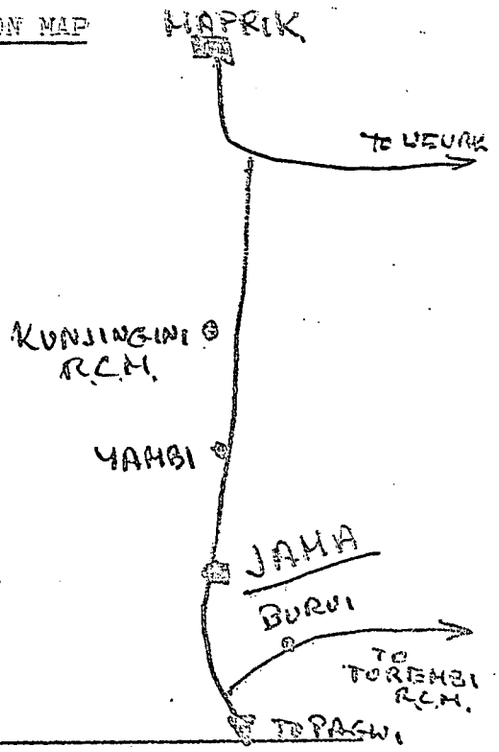
Irrigation

...ED DEVELOPMENT .....

.....

...ED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

...LL ....60.....

...SON From .Oct.... to March..

..Kwandji River.....

...E FROM VILLAGE .350 yds....

...ORT ...Track.....

.../RATE OF FLOW .....

...Y - Chemical .....

Bactereological .....

...ION ....Nil.....

...S .....

.....

.....

.....

...SON From April to Sept

As above

.....

...E FROM VILLAGE .....

...ORT .....

.../RATE OF FLOW .....

...Y .....Chemical .....

Bactereological .....

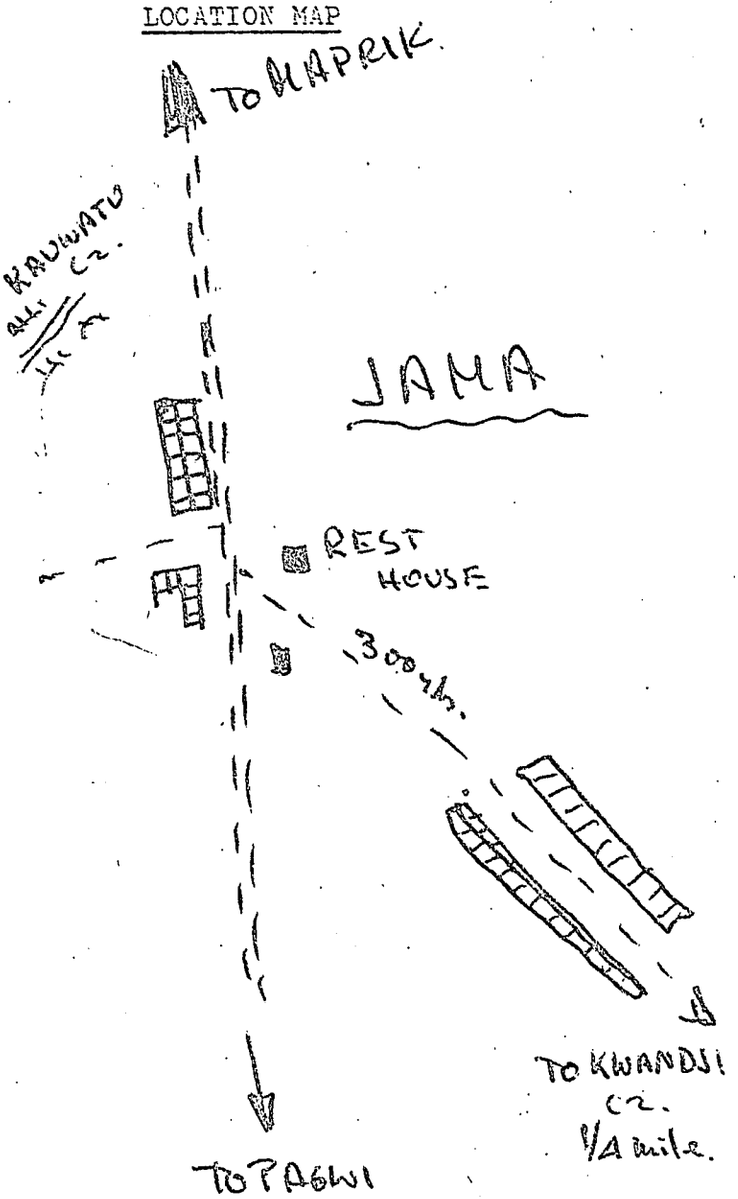
...ION .....

...S .....

.....

.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

NEW VILLAGE WATER SUPPLIES: ....EAST SEPIK.....DISTRICT

VILLAGE ....JAMA.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY . Sanitary well 100 feet along track towards village from Kwandji River.

DISTANCE FROM VILLAGE ...250 yds.

ACCESS ....Track

TITLE KNOWN TO...Kondrat.

TYPE OF AQUIFER ....Silty alluvium & sand.

DETAILS OF SCHEME ....Standard sanitary well. 3 pipes

MATERIALS REQUIRED ....As per standard drawing.

LABOUR REQUIRED .....Local

SUPERVISION .....Local

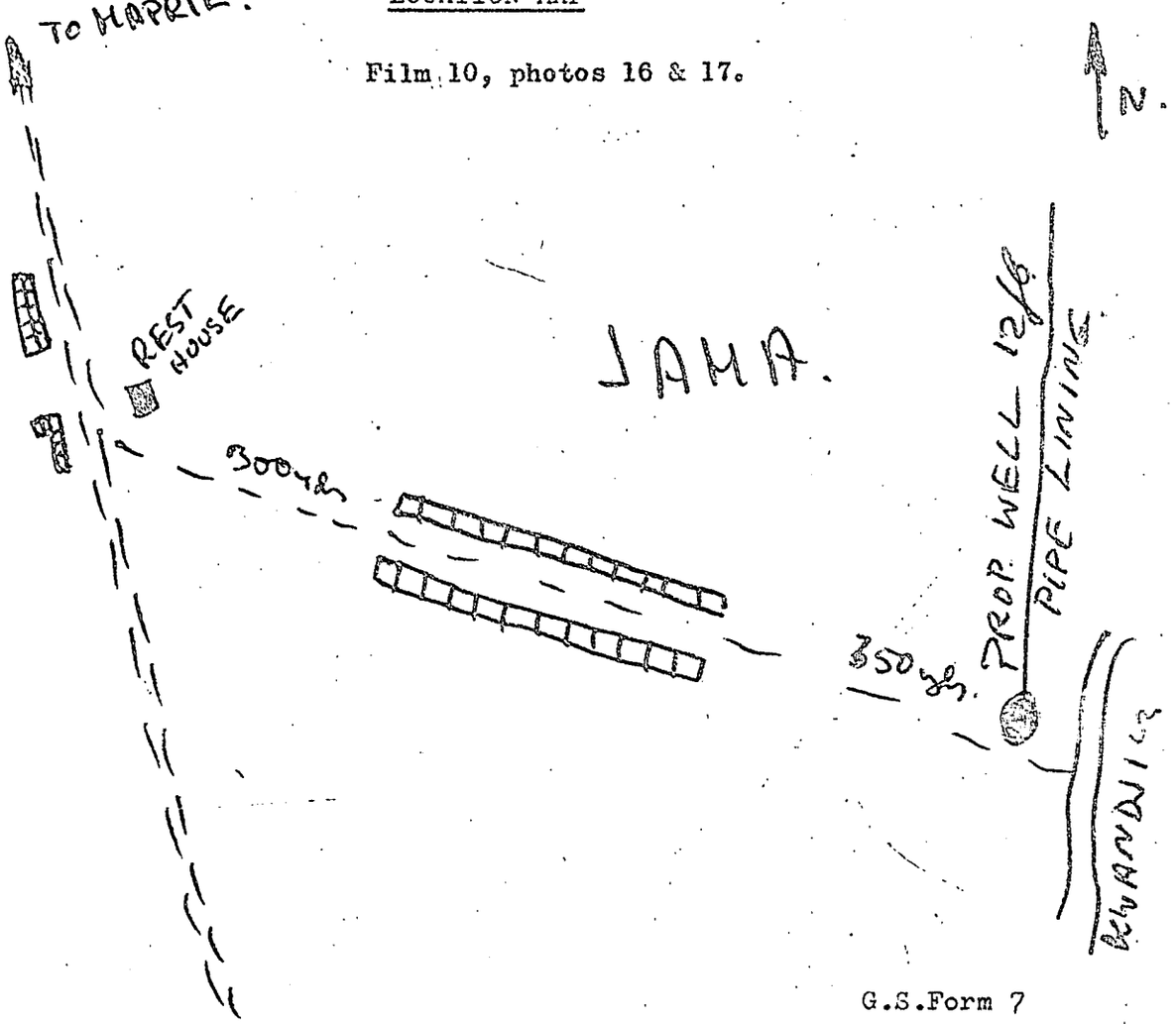
ESTIMATED COST ($) 100

ALTERNATIVE SCHEME .....

PRIORITY ..Second..... Signed .J.R.L..Read..... Date 16/11/66

LOCATION MAP

Film 10, photos 16 & 17.



G.S.Form 7

TERRITORY OF PAPUA & NEW GUINEA

...E OF VILLAGE WATER SUPPLIES ....EAST SEPIK.....DISTRICT

...E ...BURUI.....

...IL ....Nil.....

...S DIVISION ..Sepik Plains...

...ISTRICT ..Maprik.....

...ATION ..130.....

...SS ...Road.....

.....

...MAN/~~COUNCILLOR~~ .Yameri.....

.....

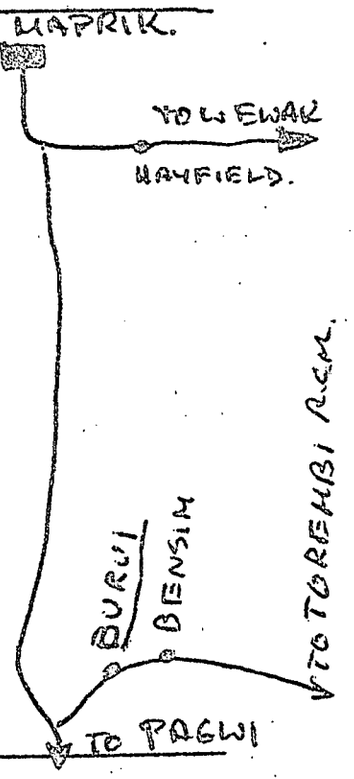
...E USE - Domestic/Government School/
...on/Mission School/Hospital/First Aid/
.../Irrigation

...TED DEVELOPMENT .....

.....

...ATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

...ALL .....60.....

...EASON From .Oct.... to .March

....Stream.....

...CE FROM VILLAGE .Up to ½ mile.

...PORT ....Track.....

.../RATE OF FLOW .....

...ITY - Chemical .....

Bactereological .....

...CTION ....Nil.....

...KS .....

.....

.....

.....

...EASON From ..April.. to ..Sept.

.....As above.....

...NCE FROM VILLAGE .....

...PORT .....

.../RATE OF FLOW .....

...ITY .....Chemical .....

Bactereological .....

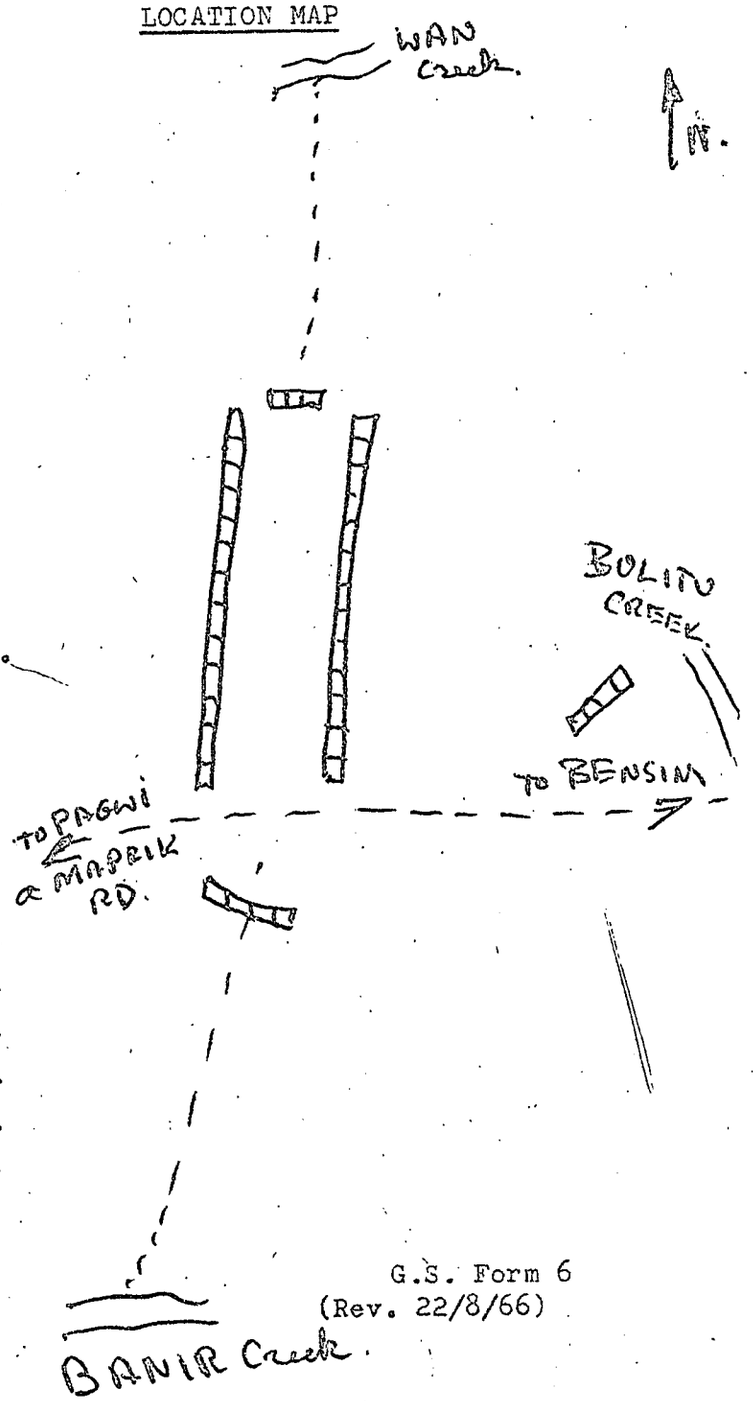
...CTION .....

...KS .....

.....

.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ...EAST SEPIK.....DISTRICT

VILLAGE ...BURUI..... RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ...Centre of small catchment 75 yds N.E. of village.

DISTANCE FROM VILLAGE ....75 yds.

ACCESS .....Track

SITE KNOWN TO....Yameri

TYPE OF AQUIFER .....Silty alluvium

DETAILS OF SCHEME .....Standard sanitary well. 3 pipes

MATERIALS REQUIRED .....As per standard drawing.

LABOUR REQUIRED .....Local

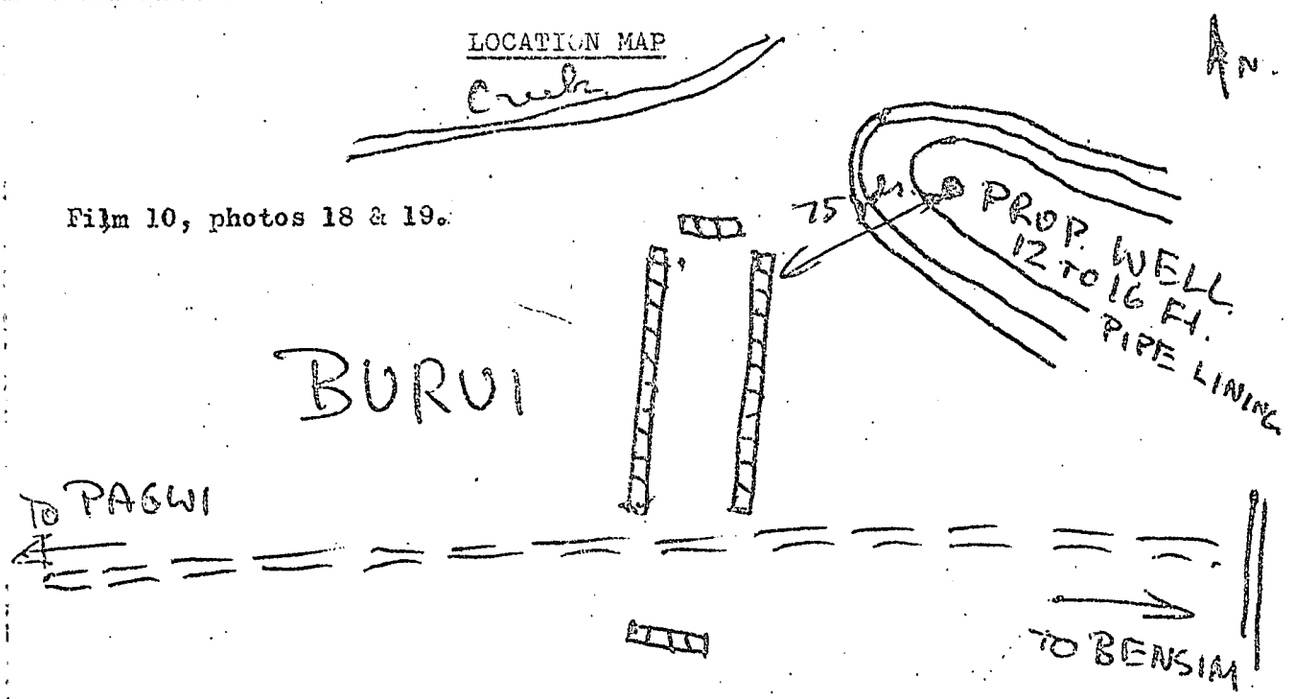
SUPERVISION .....Local

ESTIMATED COST ($) 100

ALTERNATIVE SCHEME .....

PRIORITY ...Second..... Signed .J.R.L. Read..... Date ..16/11/66

LOCATION MAP



Film 10, photos 18 & 19.

G.S.Form 7

ALANBLAK AND KARAWARI)
)
CENSUS DIVISIONS)
)
)
BIWAT COUNCIL) ANGORAM SUB DISTRICT
)
)
KERAM COUNCIL)

SUMMARY OF SURVEY OF VILLAGE WATER SUPPLIES - ALANBLAK AND KARAWARI CENSUS DIVISIONS
BIWAT COUNCIL AND KERAM COUNCIL

VILLAGE	POPULATION	TYPE OF SCHEME	NO. OF PIPES	ESTIMATED COST $	PRIORITY	REMARKS
Amboin Station (129)	250					No recommendation
Meingenda (130)	75	Well	3	120	Second	Weathered conglomerate. In Village.
Kundiman (131)	133	Well	4	140	Second	Sandy silt. In Village
Mansonai (132)	77	Well	4	140	Second	Sandy silt. In Village
Mindimbit (133)		2 Wells	8	280	Second	" " " "
Timbunke (34)		2 Wells	10	320	Second	" " " "
Tambanum (135)	940	5 Wells	20	700	Second	Sandy silt. In Village
Asangamut (136)	180	Well	4	140	Second	Sandy silt and clay. In Village
Sipisipi (137)	109	Well	4	140	Second	Sandy silt and clay. In Village
Biwat (138)	350	2 Wells	7	260	Second	Sandy silt. In Village
Moim (139)	200	2 Wells	8	280	Second	Sandy silt. In Village
Kambaramba (140)	1461					No recommendation
Wom (141)	611					No recommendation

T E R R I T O R Y O F P A P U A & N E W G U I N E A

URVEY OF VILLAGE WATER SUPPLIES ....EAST SEPIK.....DISTRICT

N.

ILLAGE . AMBOIN PATROL POST.....

OUNCIL .....

ENSUS DIVISION .....

UB-DISTRICT . Angoram.....

OPULATION .. 250.....

CCESS .. Karawari River.....

.....

EADMAN/COUNCILLOR .....

.....

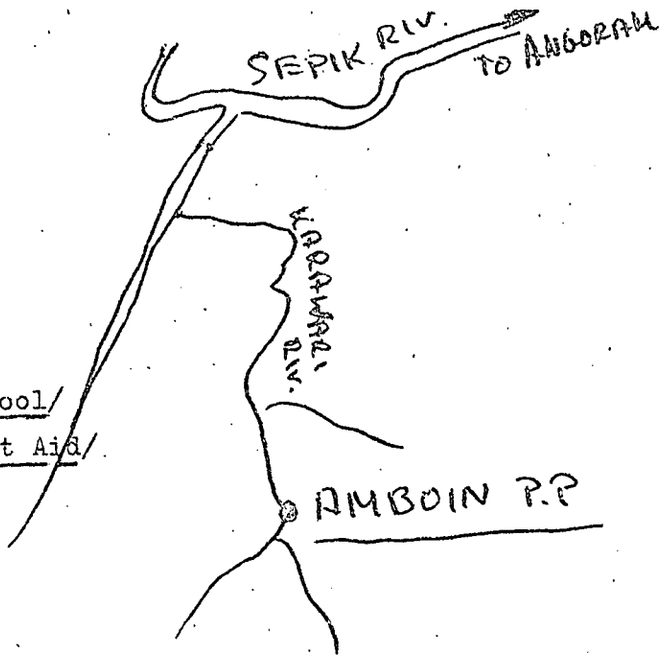
ATER USE - Domestic/Government School/
ission/Mission School/Hospital/First Aid/
tock/Irrigation

ROJECTED DEVELOPMENT .....

.....

STIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

AINFALL .....200.....

ET SEASON From ..Nov... to .April.

YPE .Rainwater Catchment.....

ISTANCE FROM VILLAGE .....

RANSPORT ..Track.....

IELD/RATE OF FLOW .....

ALITY - Chemical .....

Bactereological .....

ROTECTION .....

EMARKS .....

.....

.....

.....

ET SEASON From ..May..... to .....Oct

YPE ....As above.....

ISTANCE FROM VILLAGE .....

RANSPORT .....

IELD/RATE OF FLOW .....

ALITY .....Chemical .....

Bactereological .....

ROTECTION .....

EMARKS ..Water supply adequate.....

No Recommendation.....

.....

LOCATION MAP

Film 12, photo 16.

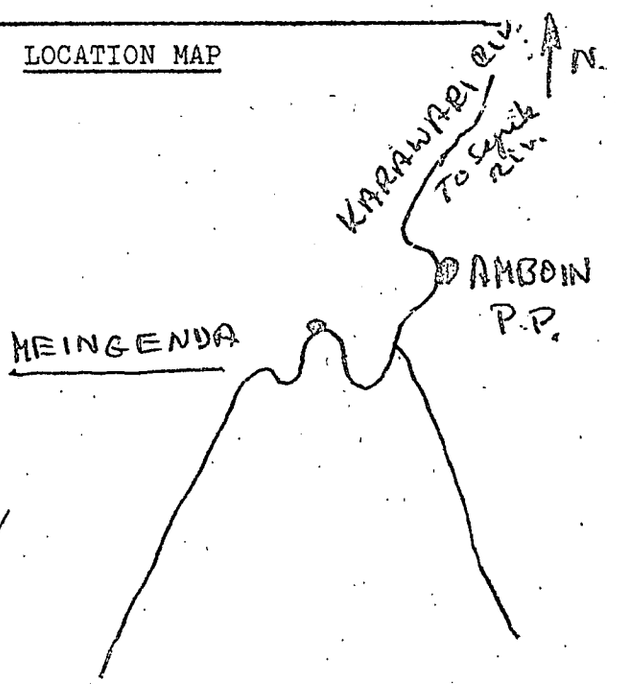
G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES .....EAST.SEPIK.....DISTRICT

VILLAGE .....MEINGENDA.....
COUNCIL .....Nil.....
CENSUS DIVISION .....Alanblak.....
SUB-DISTRICT .....Angoram.....
POPULATION .....75.....
ACCESS .....Karawari River.....
.....
HEADMAN/~~COUNCILLOR~~ .....Umbai.....
.....
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

RAINFALL .....200.....
WET SEASON From .Nov.... to ..April
TYPE ..Karavari River.....
DISTANCE FROM VILLAGE .....
TRANSPORT ...Track.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
CONNECTION ....Nil.....
REMARKS .....
.....
.....
.....
DRY SEASON From .May..... to ..Oct.
TYPE ....As.above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
CONNECTION .....
REMARKS .....
.....
.....

LOCATION MAP

G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ....EAST SEPIK.....DISTRICT

VILLAGE MEINGENDA..... RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ..Well located Between houses belonging to .... VIVEIMBA & CHINEK .....

DISTANCE FROM VILLAGE ..Central.....

ACCESS ....Track.....

SITE KNOWN TO....Umbai.....

TYPE OF AQUIFER ...Weathered conglomertee & alluvium.....

DETAILS OF SCHEME ..Standard sanitary well. 8 pipes. Fibreglass....

.....

.....

.....

MATERIALS REQUIRED ..As per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) ...140.....

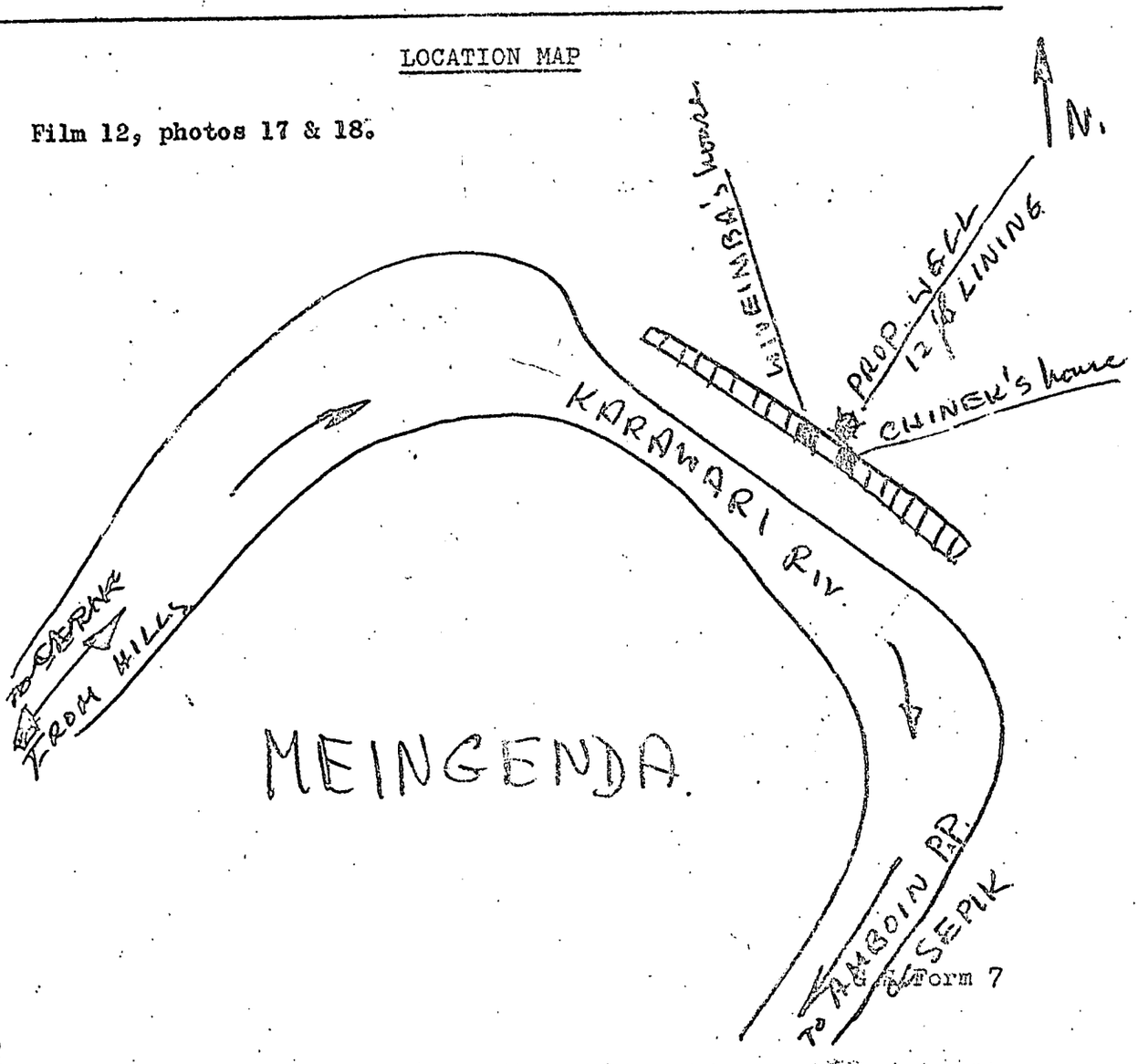
ALTERNATIVE SCHEME .....

.....

PRIORITY ..Second..... Signed ..J.R.L. Read.... Date 23/11/66

LOCATION MAP

Film 12, photos 17 & 18.

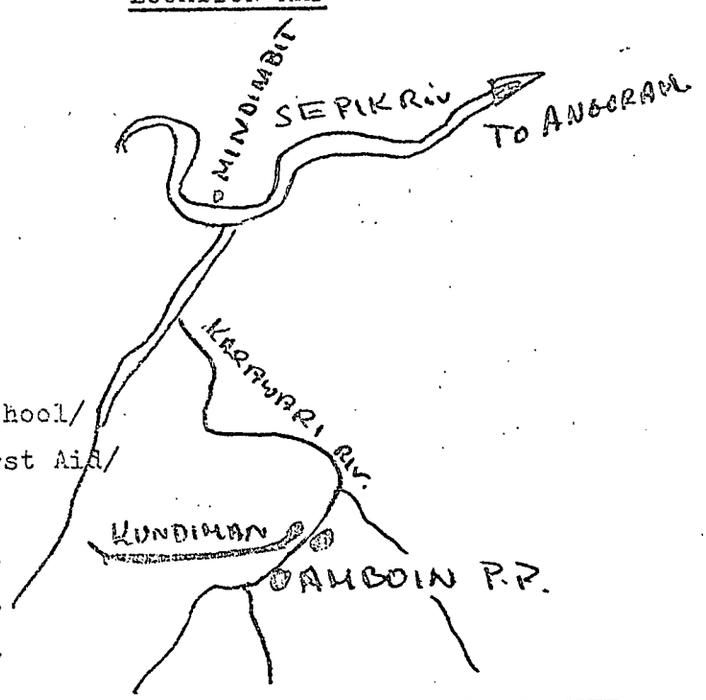


TERRITORY OF PAPUA & NEW GUINEA

VEY OF VILLAGE WATER SUPPLIES ..EAST SEPIK.....DISTRICT

LAGE .KUNDIMAN.....
NCIL ..Nil.....
NSUS DIVISION ..Karawari.....
B-DISTRICT ..Angoram.....
PULATION ...133.....
SS Karawari River.....
.....
ADMAN/~~CONSTABULARY~~ ..Awa .....
.....Simeri.....
ER USE - Domestic/Government School/
sion/Mission School/Hospital/First Aid/
k/Irrigation
JECTED DEVELOPMENT .....
.....
IMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

FALL .....200.....
SEASON From Nov..... to ..April
. Karawari River.....
NCE FROM VILLAGE .....
SPORT ...Track.....
D/RATE OF FLOW .....
ITY - Chemical .....
Bactereological .....
ECTION .....Nil.....
RKS .....
.....
.....
.....
SEASON From ..May..... to ..Oct.
....As above.....
NCE FROM VILLAGE .....
SPORT .....
D/RATE OF FLOW .....
ITY .....Chemical .....
Bactereological .....
ECTION .....
RKS .....
.....
.....

LOCATION MAP

G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ....EAST SEPIK.....DISTRICT

VILLAGE ....KUNDIMAN..... RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY Well located between Haus Boi & House.....belonging to SARMAPAN.....

DISTANCE FROM VILLAGE ....Central.....

ACCESS ....Track.....

SITE KNOWN TO..KONGOT.....

TYPE OF AQUIFER ...Sandy Silt.....

DETAILS OF SCHEME ..Standard sanitary well. 4 pipes. Fibreglass.... ...Well to protrude 4 feet above ground level.....

.....

.....

MATERIALS REQUIRED .....As per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) .....140.....

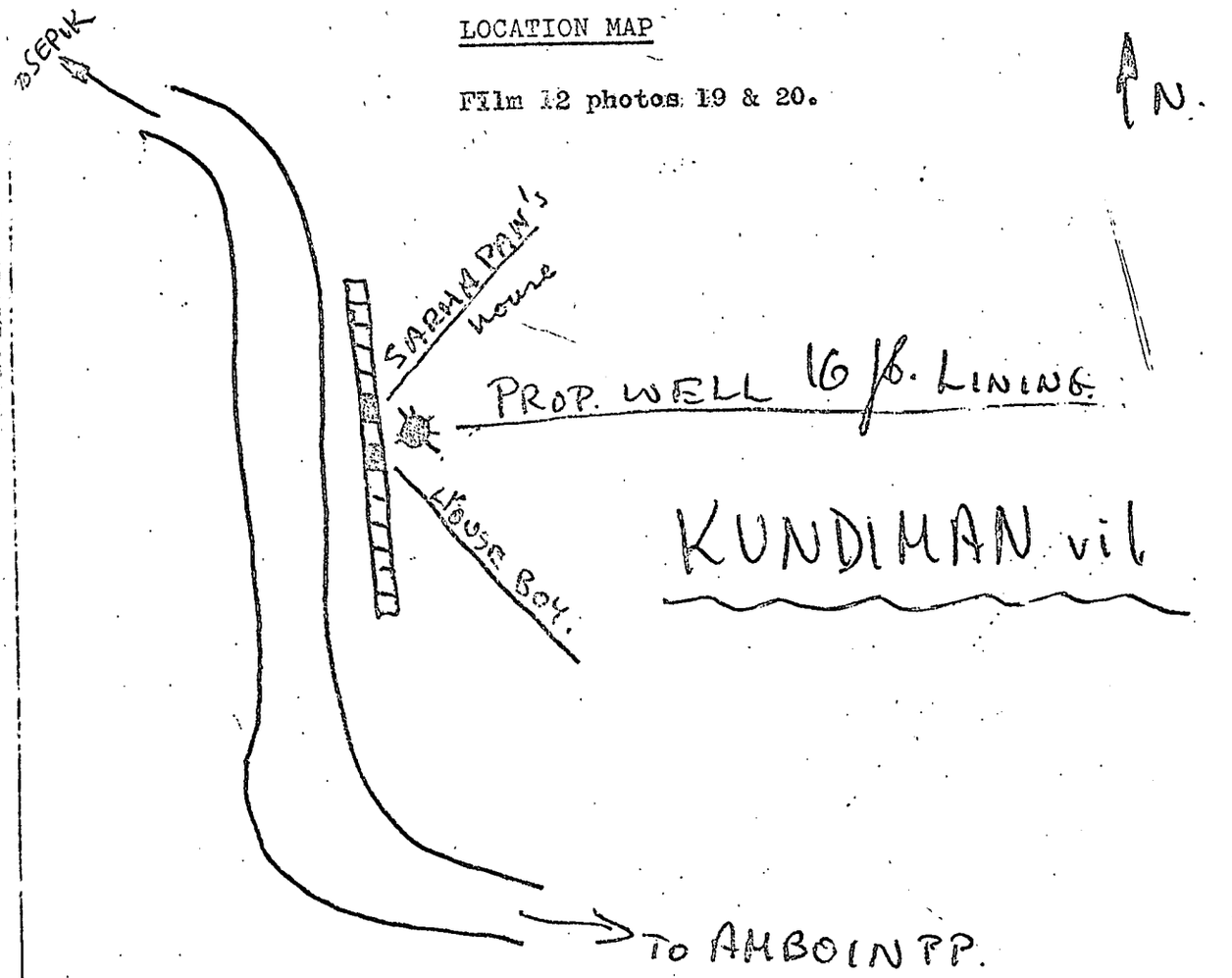
ALTERNATIVE SCHEME .....

.....

PRIORITY ....Second..... Signed ...J.R.L. Read... Date ..23/11/66.

LOCATION MAP

Film 12 photos 19 & 20.



G.S.Form 7

TERRITORY OF PAPUA & NEW GUINEA

RVEY OF VILLAGE WATER SUPPLIES ....EAST SEPIK.....DISTRICT

LLAGE .....MANSOMAI.....

NCIL ....Nil.....

NSUS DIVISION ...Karawari.....

.GoDISTRICT ..Angoram.....

PULATION ..77.....

CESS ..Karawari River.....

.....

ADMAN/COUNCILLOR .....

.....

TER USE - Domestic/Government School/
ssion/Mission School/Hospital/First Aid/
ck/Irrigation

NECTED DEVELOPMENT .....

.....

IMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

NFALL ....190.....

SEASON From .Nov.... to .April

E ...Karawari River.....

TANCE FROM VILLAGE .....

NSPORT ...Track.....

LD/RATE OF FLOW .....

LITY - Chemical .....

Bactereological .....

TECTION ....Nil.....

ARKS .....

.....

.....

.....

SEASON From ..May.... to Oct..

E ....As above.....

TANCE FROM VILLAGE .....

NSPORT .....

LD/RATE OF FLOW .....

LITY .....Chemical .....

Bactereological .....

TECTION .....

ARKS .....

.....

.....

LOCATION MAP

G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

VEY OF VILLAGE WATER SUPPLIES ..EAST SEPIK.....DISTRICT

LAGE .MANSOMAI.....

RECOMMENDATIONS

E OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

ATION OF NEW SUPPLY ..Well located between houses belonging to ABIOGRI & AIOPI.

TANCE FROM VILLAGE ....Central

ESS ...Track

E KNOWN TO.....Yambui

E OF AQUIFER .....Sandy silt.

TAILS OF SCHEME ...Standard sanitary well. 4 pipes. Fibreglass. Well to protrude 4 feet above ground level.

ERIALS REQUIRED .....As per standard drawing.

BOUR REQUIRED .....Local

PERVISION .....Local

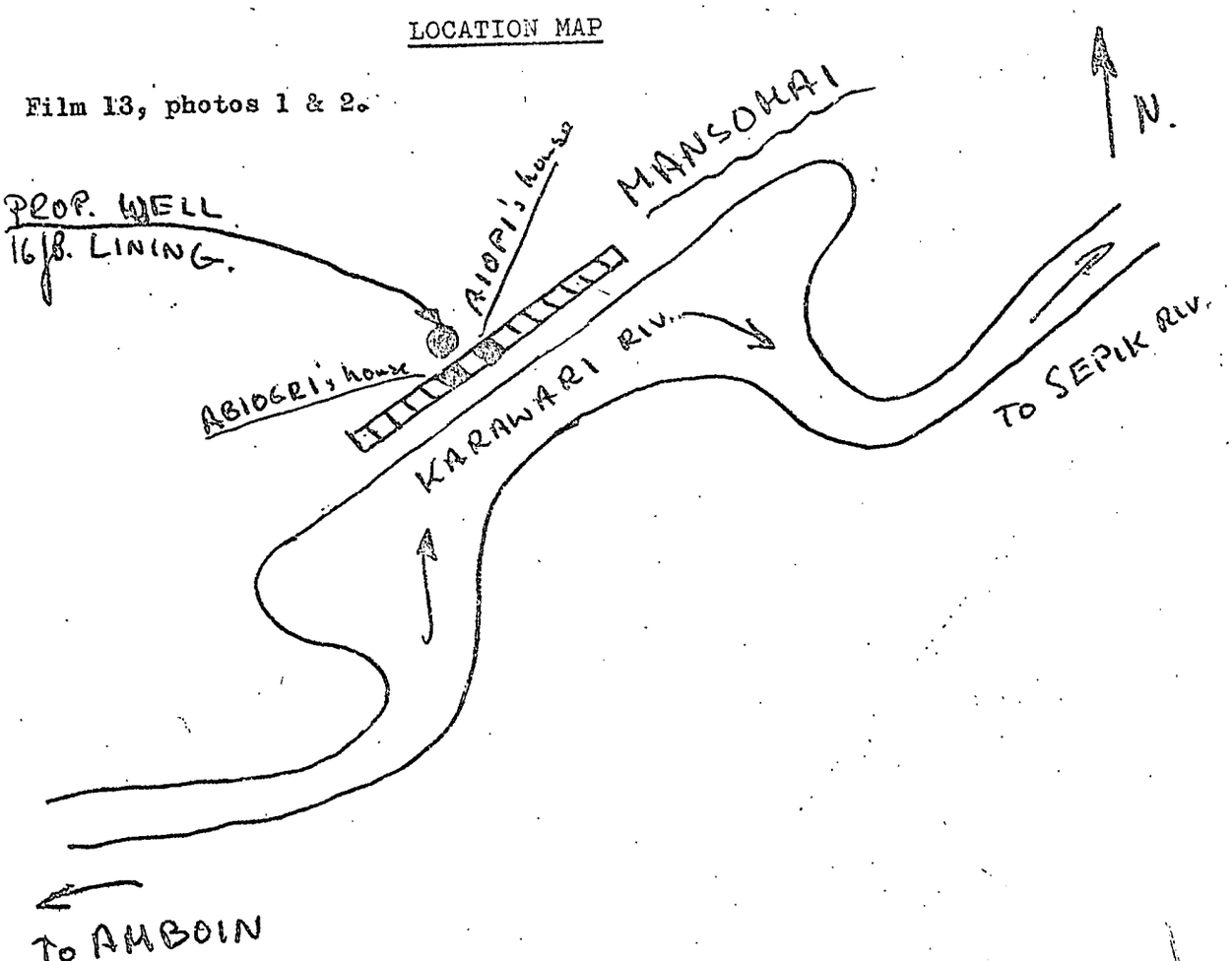
IMATED COST ($) 140

ERNATIVE SCHEME .....

IORITY ..Second..... Signed ...J.R.L. Read... Date ...23/11/66

LOCATION MAP

Film 13, photos 1 & 2.



G.S.Form 7

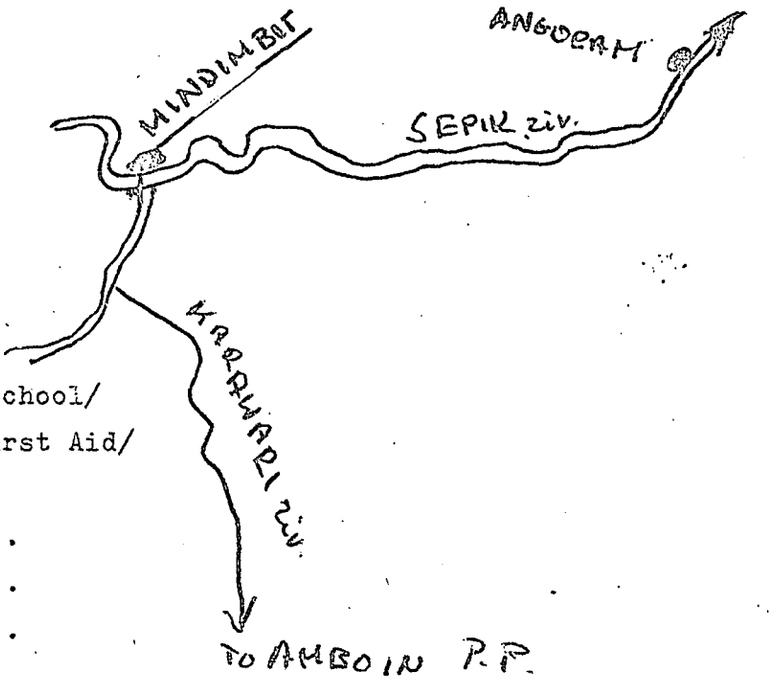
TERRITORY OF PAPUA & NEW GUINEA

VEY OF VILLAGE WATER SUPPLIES ...EAST SEPIK.....DISTRICT

N.

LLAGE ..MINDIMBIT.....
NCIL ..Nil.....
NSUS DIVISION ..Middle Sepik...
DISTRICT ....Angoram.....
ULATION .....
DESS ...Sepik River.....
.....
DMAN/COUNCILLOR .....
.....
ER USE - Domestic/Government School/
sion/Mission School/Hospital/First Aid/
k/Irrigation
ECTED DEVELOPMENT .....
.....
NATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

NFALL .....150 ?.....
SEASON From Nov.... to .April.
S ..Sepik River.....
TANCE FROM VILLAGE .....
NSPORT ...Track.....
D/RATE OF FLOW .....
LITY - Chemical .....
Bactereological .....
TECTION ....Nil.....
ARKS .....
.....
.....
.....
SEASON From May..... to .Oct..
S .....As above.....
TANCE FROM VILLAGE .....
NSPORT .....
D/RATE OF FLOW .....
LITY .....Chemical .....
Bactereological .....
TECTION .....
ARKS .....
.....
.....

LOCATION MAP

G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ..EAST SEPIK.....DISTRICT

VILLAGE ...MINDIMBIT.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY .2 wells. One between houses belonging to KABAK & KAMPAN,. Two between houses belonging to SINDO & JOWARU.....

DISTANCE FROM VILLAGE ....Central.....

ACCESS .....Track.....

SITE KNOWN TO.....

TYPE OF AQUIFER ..Sandy silt.....

DETAILS OF SCHEME ..Standard sanitary well. 4 pipes. Fibreglass.... Each well to protrude 4 feet above ground level.....

.....

.....

MATERIALS REQUIRED ....As per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) .....280.....

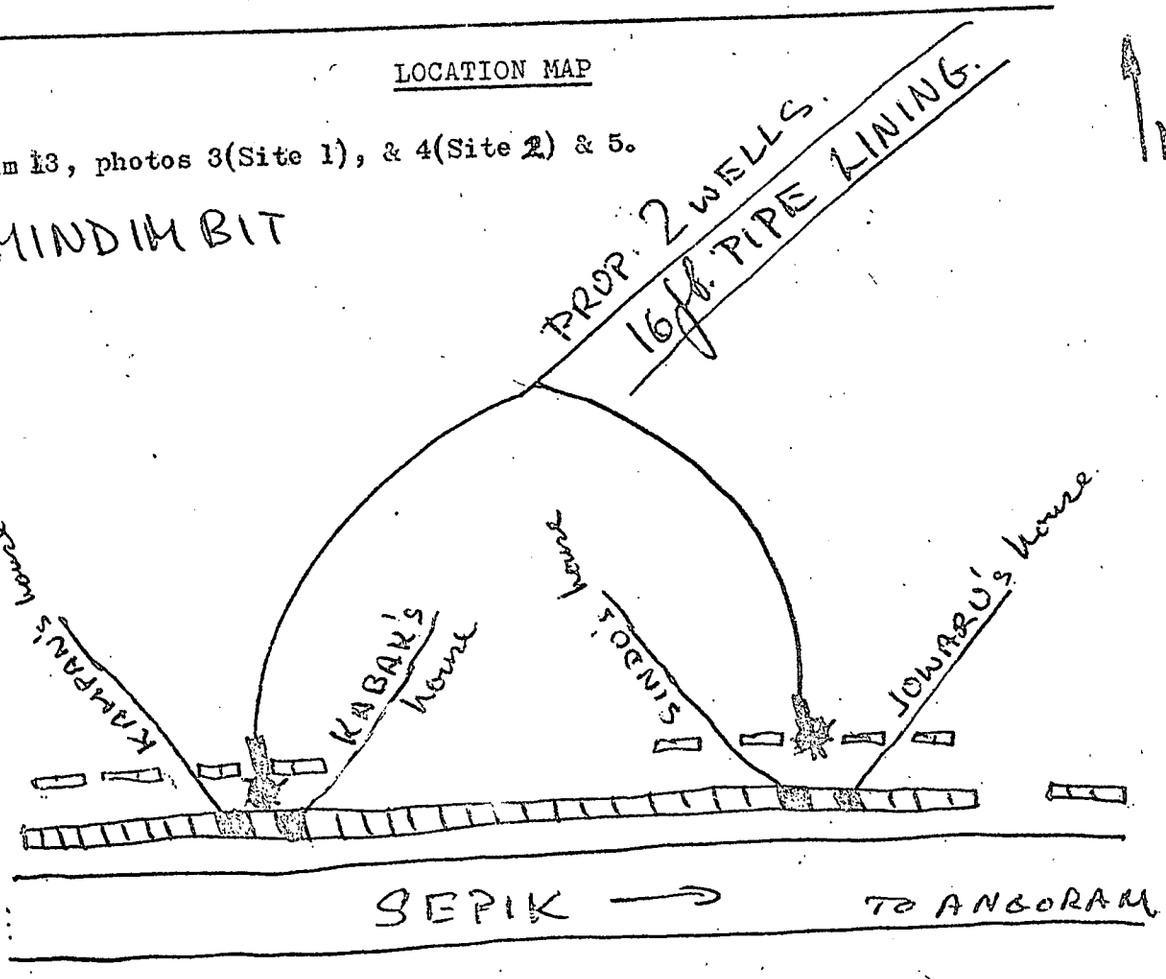
ALTERNATIVE SCHEME .....

.....

PRIORITY Second..... Signed .J.R.L. Read.... Date ..23/11/66

LOCATION MAP

Film 13, photos 3(Site 1), & 4(Site 2) & 5.



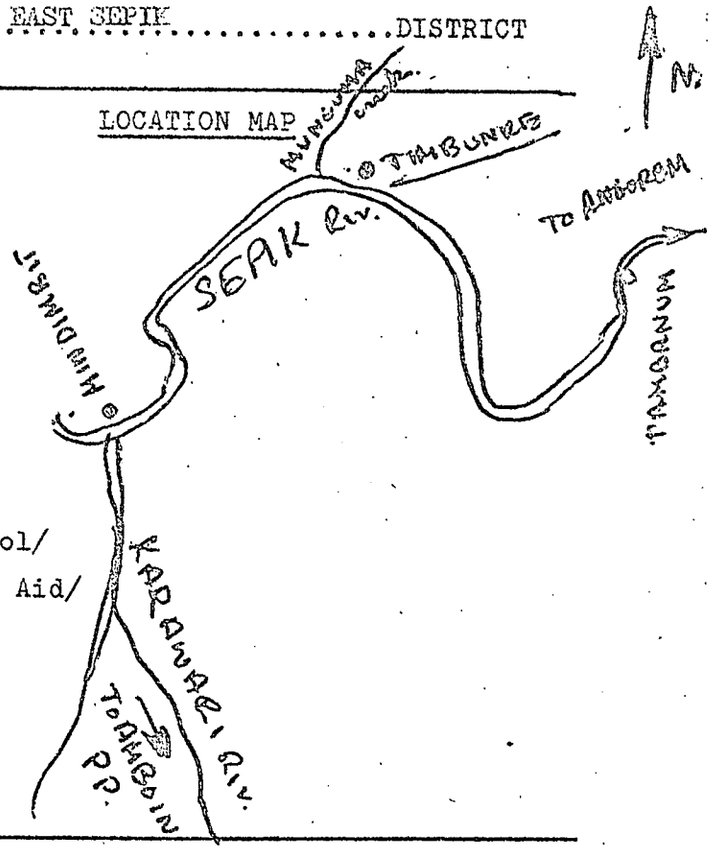
G.S.Form 7

TERRITORY OF PAPUA & NEW GUINEA

...EY OF VILLAGE WATER SUPPLIES ...EAST SEPIK.....DISTRICT

...SE ...TIMBUNKE.....
...IL ...Nil.....
...S DIVISION ..Main.River.....
...DISTRICT ..Angoram.....
...LATION .....
...SS ...Sepik River.....
.....
...MAN/~~COUNCILLOR~~ .....
.....
...R USE - Domestic/Government School/
...on/Mission School/Hospital/First Aid/
.../Irrigation
...OTED DEVELOPMENT .....
.....
...ATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

...ALL .....
...EASON From Oct.... to ..April
...Sepik River & Munguma Barat..
...CE FROM VILLAGE .....
...ORT ...Track.....
.../RATE OF FLOW .....
...TY - Chemical .....
Bactereological .....
...CTION ...Nil.....
...KS .....
.....
.....
.....
...EASON From .May..... to Sept.
...As above.....
...CE FROM VILLAGE .....
...ORT .....
.../RATE OF FLOW .....
...TY .....Chemical .....
Bactereological .....
...CTION .....
...AS .....
.....
.....

LOCATION MAP

G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ...EAST SEPIK.....DISTRICT

VILLAGE ...TIMBUNKE..... RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY 2. wells. One ~~between~~ in front of Community Store ..... & Two between houses belonging to POI & TAMOIN.....

DISTANCE FROM VILLAGE ..Central.....

ACCESS .....Track.....

SITE KNOWN TO...PINGA.....

TYPE OF AQUIFER . Silty alluvium & clay.....

DETAILS OF SCHEME ..Standard sanitary wells. 5 pipes each. Fibrglass. .....Each well to protrude 6 feet above ground level.....

.....

.....

MATERIALS REQUIRED ...As per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) .....320.....

ALTERNATIVE SCHEME .....

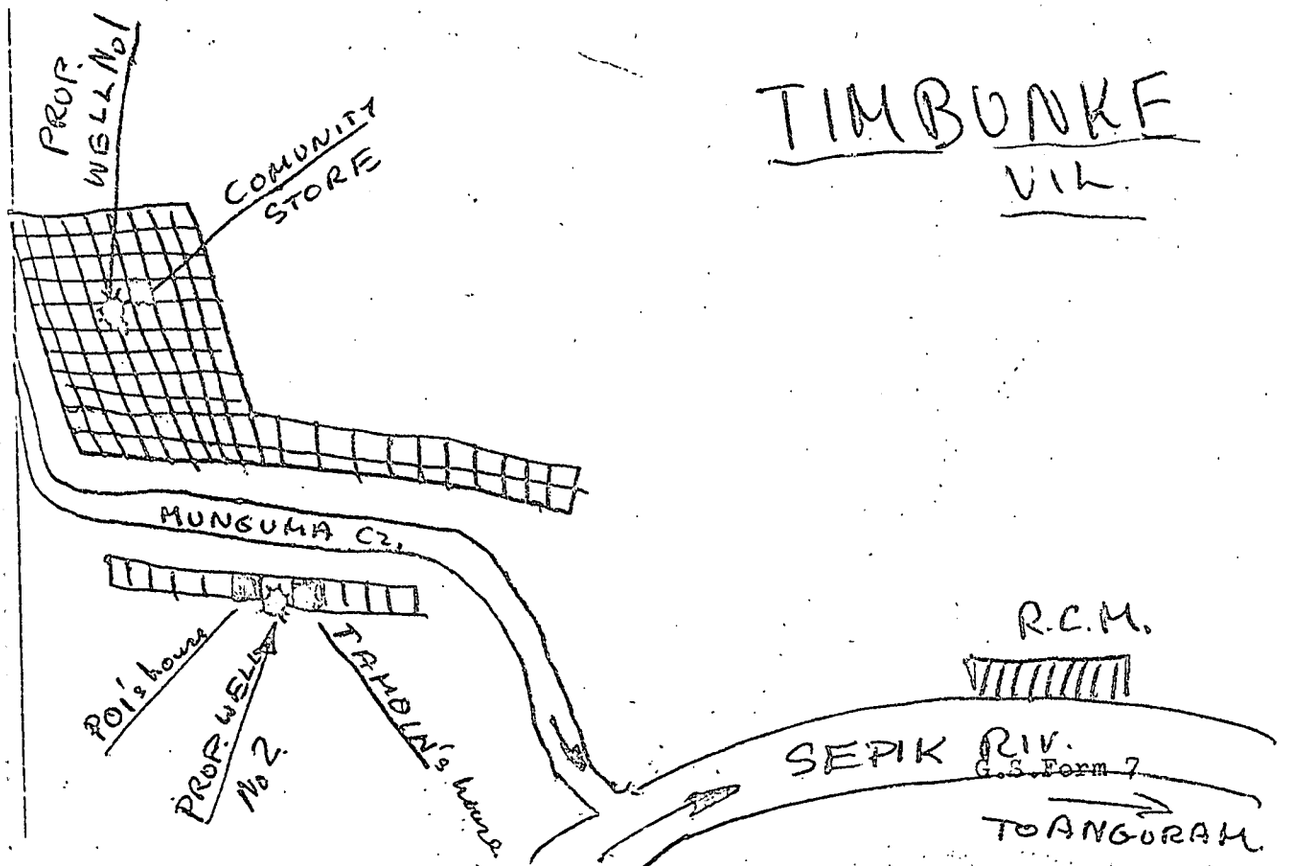
.....

PRIORITY ..Second..... Signed ...J.R.L. Read.. Date ..23/11/66

Film 13, photos 6, 7(Site 1) & 8(Site 2).

LOCATION MAP

PROP. 2 WELLS EACH 20 f/ LINING IN EXTENDING 6 f/. ABOVE GROUND.



G.S. Form 7

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ....EAST SEPIK.....DISTRICT

VILLAGE ....TAMBANUM.....

COUNCIL ....Biwat.....

CENSUS DIVISION ....Middle Sepik....

SUB-DISTRICT ..Angoram.....

POPULATION ..940.....

ACCESS Sepik River.....

.....

VILLAGE/COUNCILLOR .....

.....

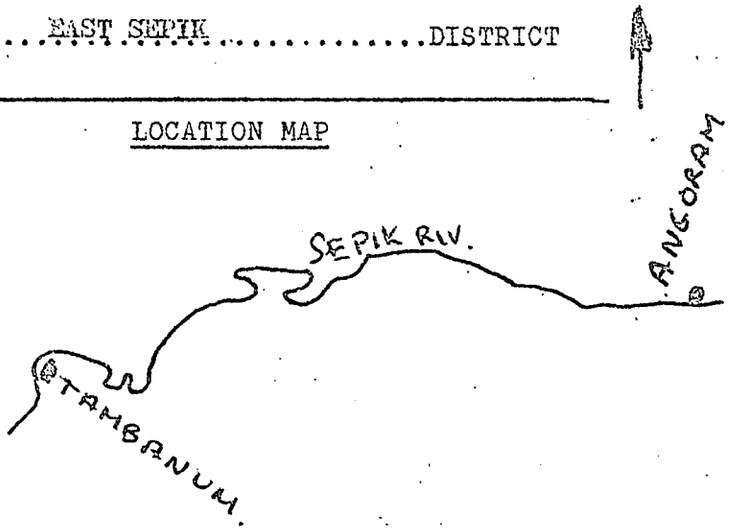
WATER USE - Domestic/Government School/
Plantation/Mission School/Hospital/First Aid/
Stock/Irrigation

PROJECTED DEVELOPMENT .....

.....

ESTIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

WELL .....

DRY SEASON From Oct..... to April..

SOURCE . Sepik River.....

DISTANCE FROM VILLAGE .....

TRANSPORT .....Track.....

YIELD/RATE OF FLOW .....

QUALITY - Chemical .....

Bactereological .....

INFECTION .....Nil.....

REMARKS .....

.....

.....

.....

WET SEASON From ..May.... to .Sept.

SOURCE .....As. above.....

DISTANCE FROM VILLAGE .....

TRANSPORT .....

YIELD/RATE OF FLOW .....

QUALITY .....Chemical .....

Bactereological .....

INFECTION .....

REMARKS .....

.....

.....

LOCATION MAP

G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

SURVEY OF VILLAGE WATER SUPPLIES ..EAST SEPIK.....DISTRICT

VILLAGE .....TAMBANUM.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ..5 wells equally spaced along village, 200 feet inland from Sepik River.

DISTANCE FROM VILLAGE ...Central

ACCESS ...Track

SITE KNOWN TO.....

TYPE OF AQUIFER ...Sandy silt.

DETAILS OF SCHEME Standard sanitary wells. 4 pipes each. Fibreglass. Each well to protrude 4 feet above ground level.

MATERIALS REQUIRED ....As per standard drawing.

LABOUR REQUIRED .....Local

SUPERVISION .....Local

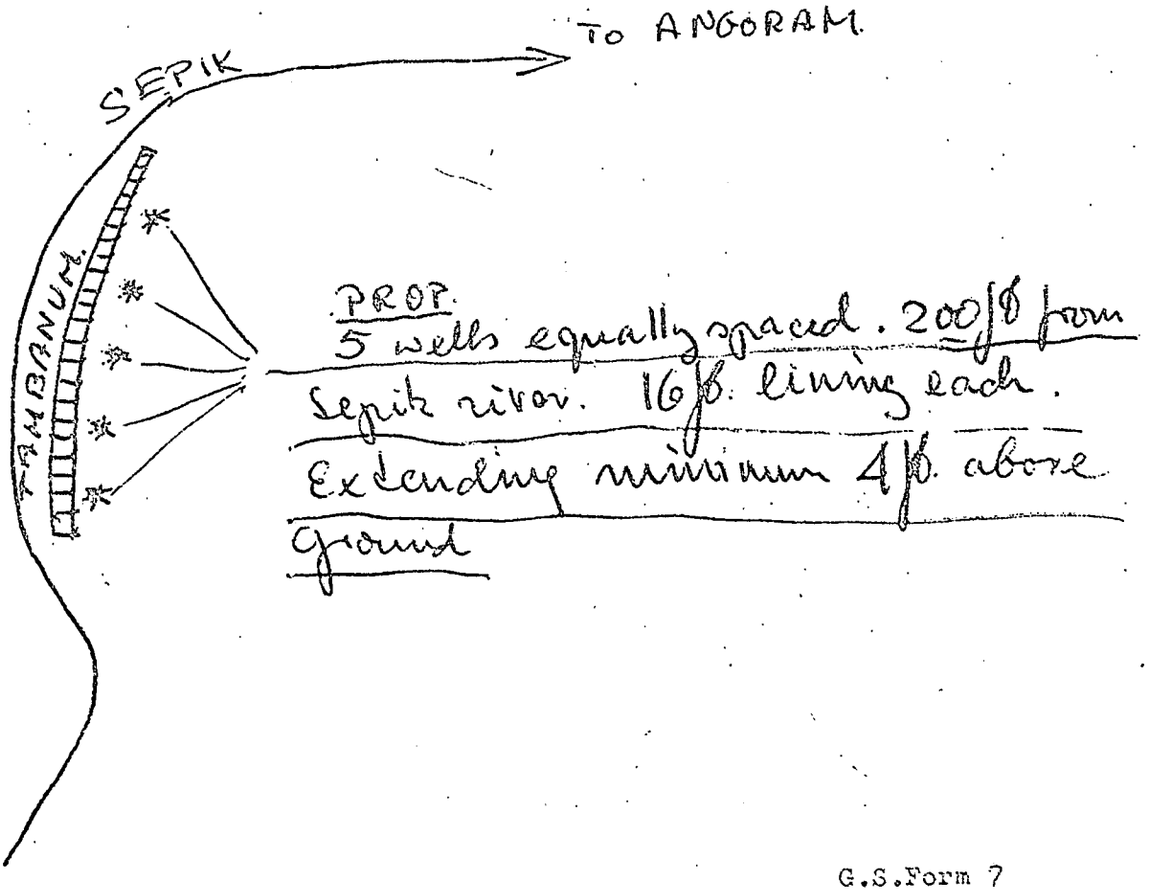
ESTIMATED COST ($) 700

ALTERNATIVE SCHEME .....

PRIORITY ..Second..... Signed .J.R.L. Read.... Date ..23/11/66

LOCATION MAP

Film 13, photo 9.



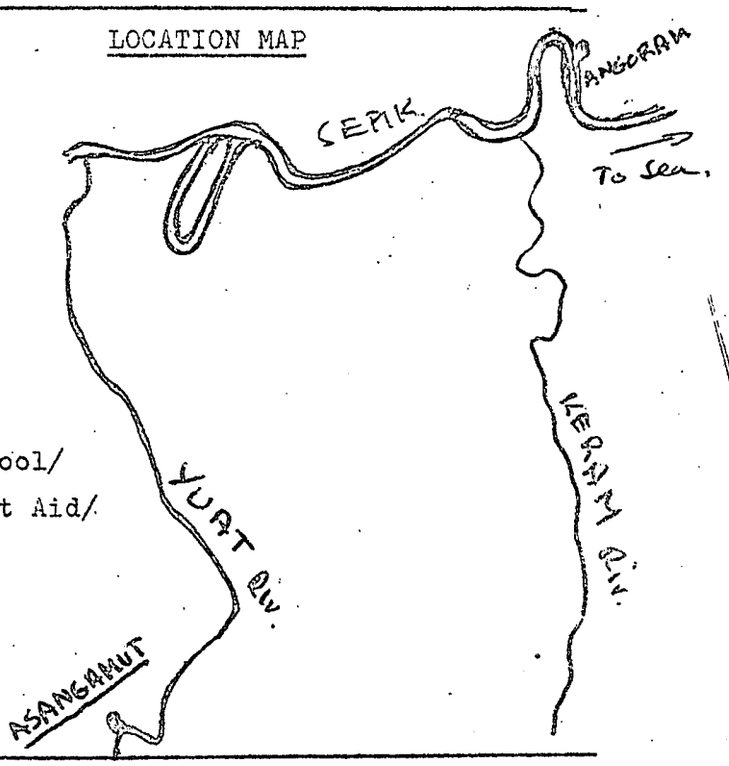
G.S.Form 7

TERRITORY OF PAPUA & NEW GUINEA

...Y OF VILLAGE WATER SUPPLIES ...EAST SEPIK.....DISTRICT

...GE ..ASANGAMUT.....
...L ...Biwat.....
...S DIVISION ...Yuat.....
.DISTRICT ....Angoram.....
...ATION ...ISO.....
...S ..Yuat.River.....
.....
...N/COUNCILLOR ...Manda.....
.....
... USE - Domestic/Government School/
...n/Mission School/Hospital/First Aid/
.../Irrigation
...TED DEVELOPMENT .....
.....
...TED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

...LL .....
...EASON From ..Nov... to April..
..Yuat.River.....
...CE FROM VILLAGE .....
...ORT ..Creek.....
.../RATE OF FLOW .....
...TY - Chemical .....
Bactereological .....
...CTION .....Nil.....
...KS .....
.....
.....
.....
...EASON From ..May.... to Oct...
...As.above.....
...NCE FROM VILLAGE .....
...PORT .....
.../RATE OF FLOW .....
...TY .....Chemical .....
Bactereological .....
...CTION .....
...KS .....
.....
.....

LOCATION MAP

G.S. Form 6
(Rev. 22/8/66)

T E R R I T O R Y O F P A P U A & N E W G U I N E A

SURVEY OF VILLAGE WATER SUPPLIES ...EAST SEPIK.....DISTRICT

VILLAGE ...ASANGANUT.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ..Well Located in front of house belonging to PAPLIAPAN

DISTANCE FROM VILLAGE ...Central.

ACCESS .....Track

SITE KNOWN TO...ZABARA.....

TYPE OF AQUIFER ..Sandy silt & clay.

DETAILS OF SCHEME ..Standard sanitary well. 4 pipes. Fibreglass

MATERIALS REQUIRED ...As per standard drawing

LABOUR REQUIRED .....Local

SUPERVISION .....Local

ESTIMATED COST ($) 140

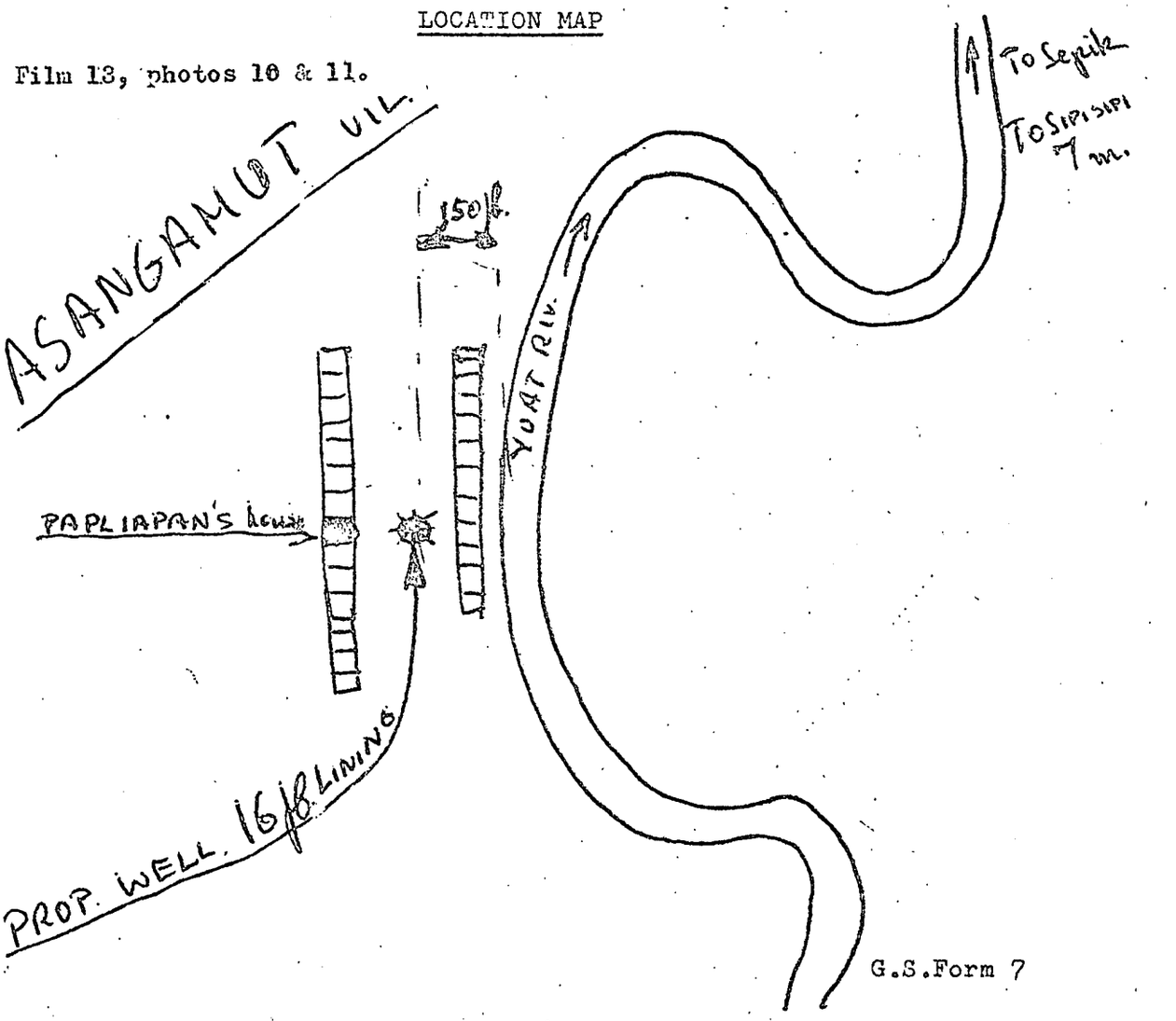
ALTERNATIVE SCHEME .....

PRIORITY ...Second..... Signed .J.R.L. Read.... Date ..24/11/66.

N.

LOCATION MAP

Film 13, photos 10 & 11.



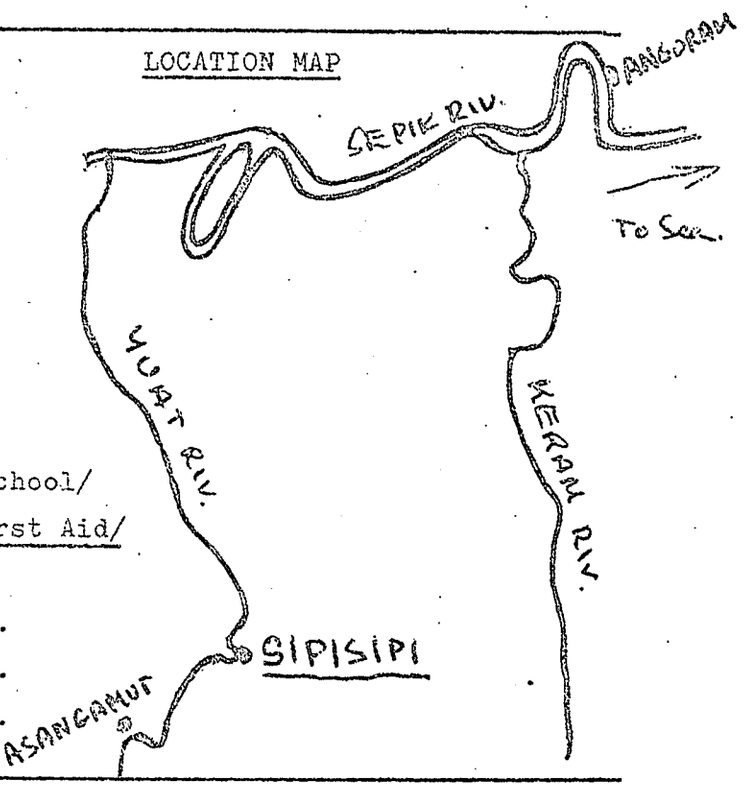
G.S.Form 7

T E R R I T O R Y O F P A P U A & N E W G U I N E A

VEY OF VILLAGE WATER SUPPLIES ....EAST SEPIK.....DISTRICT

LLAGE ....SIPISIPI.....
NCIL ...Biwat.....
NSUS DIVISION ...Yuat.....
.DISTRICT ...Angoram.....
PULATION ...109.....
SS ...Yuat River.....
.....
~~CHAIRMAN~~/COUNCILLOR Muninge.....
.....
ER USE - Domestic/Government School/
sion/Mission School/Hospital/First Aid/
k/Irrigation
JECTED DEVELOPMENT .....
.....
IMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

NFALL .....
SEASON From .Nov.... to .April.
E . Yuat River.....
TANCE FROM VILLAGE .....
NSPORT .Track.....
LD/RATE OF FLOW .....
LITY - Chemical .....
Bactereological .....
ECTION .....Nil.....
RKS .....
.....
.....
.....
SEASON From ....May.. to ..Oct.
E ...As above.....
TANCE FROM VILLAGE .....
NSPORT .....
LD/RATE OF FLOW .....
LITY .....Chemical .....
Bactereological .....
ECTION .....
RKS .....
.....
.....

LOCATION MAP

G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

VEY OF VILLAGE WATER SUPPLIES ..EAST SEPIK.....DISTRICT

LLAGE ....SIPISIPI..... RECOMMENDATIONS

PE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

CATION OF NEW SUPPLY ...Well located in front of house belonging to SAMAMBAT

STANCE FROM VILLAGE ....Central.

CESS ....Track

E KNOWN TO..Kiminje.

PE OF AQUIFER .Sandy silt & clay.

TAILS OF SCHEME ...Standard sanitary well. 4 pipes. Fibreglass.

TERIALS REQUIRED ...As per standard drawing.

BOUR REQUIRED .....Local

PERVISION .....Local

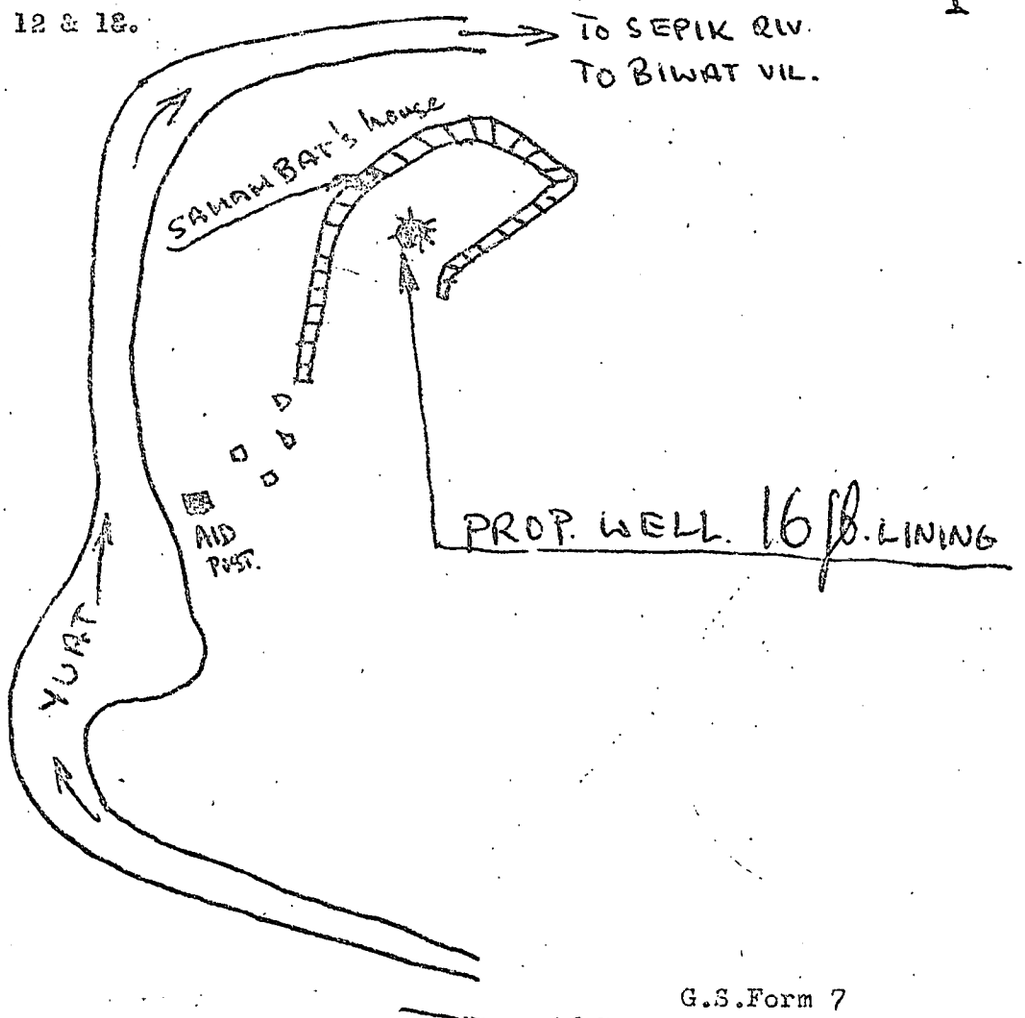
IMATED COST ($) 140

LTERNATIVE SCHEME .....

IORITY ....Second..... Signed ...J.R.L. Read... Date ..24/11/66

LOCATION MAP

Film 13, photos 12 & 18.



TERRITORY OF PAPUA & NEW GUINEA

...EY OF VILLAGE WATER SUPPLIES ....EAST SEPIK.....DISTRICT

...AGE ....BIWAT.....

...IL ...Biwat.....

...S DIVISION ..Yuat.....

...DISTRICT ...Angoram.....

...LATION ...350.....

...S ...Yuat River.....

.....

...GOUNCILLOR ....Vome.....

.....

...R USE - Domestic/Government School/

.../Mission School/Hospital/First Aid/

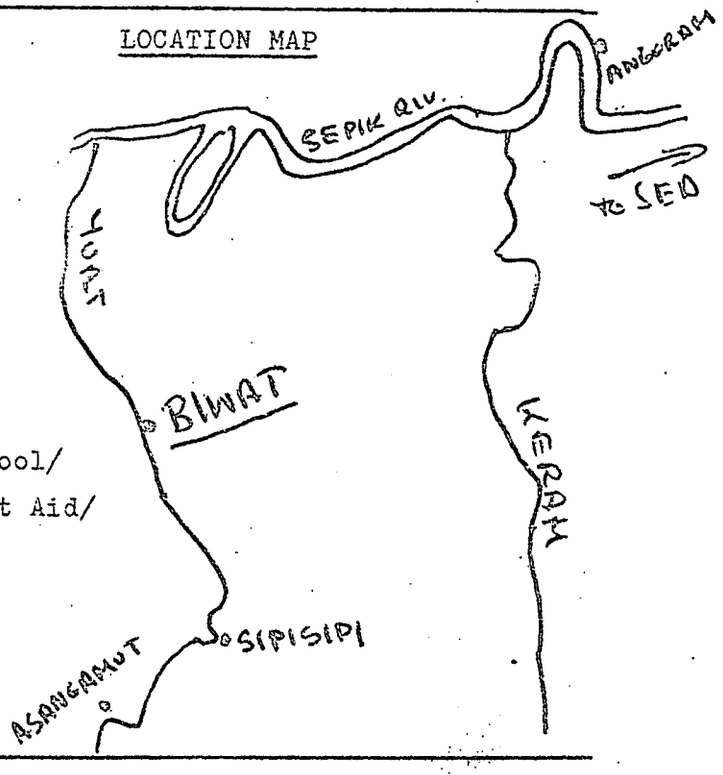
.../Irrigation

...TED DEVELOPMENT .....

.....

...ATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

...ELL .....

...EASON From .Nov.... to ..April

....Yuat River.....

...NCE FROM VILLAGE .....

...PORT ..Track.....

.../RATE OF FLOW .....

...TY - Chemical .....

Bactereological .....

...CTION ...Nil.....

...KS .....

.....

.....

.....

...EASON From ...May... to ...Oct

....As above.....

...NCE FROM VILLAGE .....

...PORT .....

.../RATE OF FLOW .....

...TY .....Chemical .....

Bactereological .....

...CTION .....

...KS .....

.....

.....

LOCATION MAP

G.S. Form 6
(Rev. 22/8/66)

TERRITORY OF PAPUA & NEW GUINEA

VEY OF VILLAGE WATER SUPPLIES ..EAST.SEPIK.....DISTRICT

LAGE ...BIWAT.....

RECOMMENDATIONS

PE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

CATION OF NEW SUPPLY . 2 wells. One in front of house belonging to MAWI Two between houses belonging to KANDAK & GINBALING.....

STANCE FROM VILLAGE ....Central.....

SS ....Track.....

E KNOWN TO..~~XXXXX~~ Arangape(Site 1) & Kendak(Site 2).....

PE OF AQUIFER ....Sandy silt.....

TAILS OF SCHEME ..Standard sanitary wells. Site 1 to have 4 pipes. protrude 3 feet above ground level, Site 2 to have 3 pipes. All Fibreglass.....

.....

TERIALS REQUIRED ...As per standard dreving.....

.....

BOUR REQUIRED .....Local.....

PERVISION .....Local.....

IMATED COST ($) ....260.....

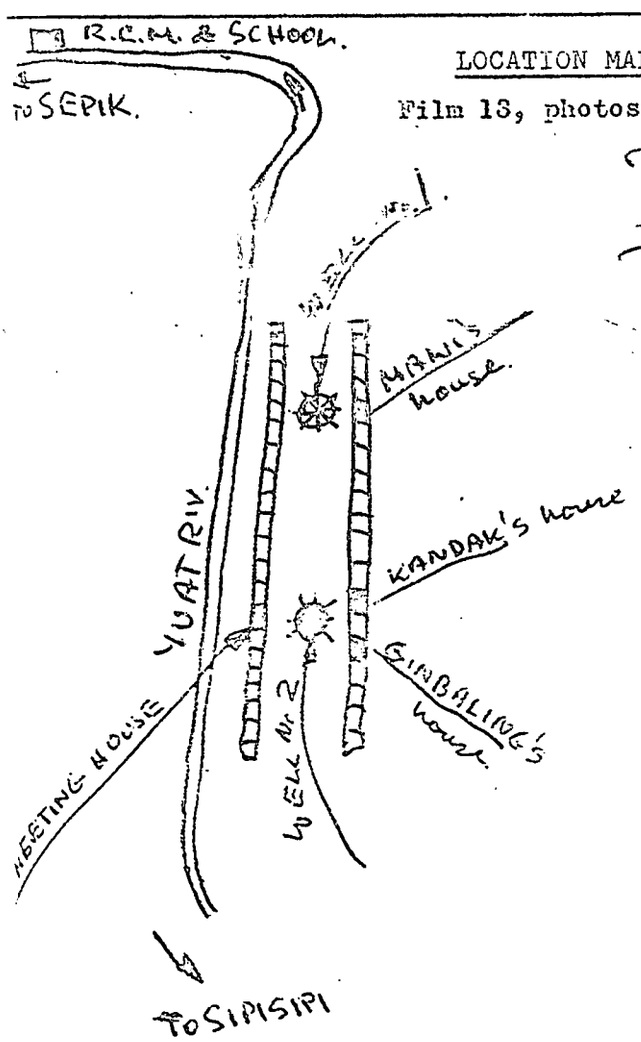
ERNATIVE SCHEME .....

.....

IORITY ...~~XX~~ Second..... Signed ..J.R.L. Read.... Date .24/11/66.

LOCATION MAP

Film 13, photos 14(Site 1),& 15(Site 2) & 16.



N.

BIWAT

PROP.: 2 WELLS

No1 well - 16 ft lining.

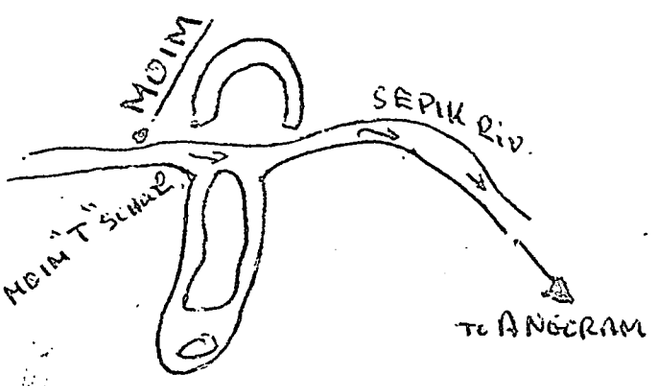
No2 well - 12 ft lining.

G.S.Form 7

...EY OF VILLAGE WATER SUPPLIES .....[illegible].....DISTRICT

...AGE .....[illegible].....
...OIL ....Divot.....
...TS DIVISION ..Middle Sepik...
...DISTRICT ..Angoram.....
...LATION ..200.....
...SS ..Sepik River.....
.....
...MAN/COUNCILLOR ....Owen.....
.....
...R USE - Domestic/Government School/
...on/Mission School/Hospital/First Aid/
...k/Irrigation
...ECTED DEVELOPMENT .....
.....
...MATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

...ALL .....70.....
...EASON From ..Nov.... to ..May..
....Sepik River.....
...CE FROM VILLAGE .....
...PORT ....Track.....
...C/RATE OF FLOW .....
...TY - Chemical .....
Bactereological .....
...CTION ...Nil.....
...KS .....
.....
.....
.....
...EASON From ..June.... to Oct...
....As above.....
...NCE FROM VILLAGE .....
...PORT .....
...C/RATE OF FLOW .....
...TY .....Chemical .....
Bactereological .....
...CTION .....
...KS .....
.....
.....

LOCATION MAP

G.S. Form 6
(Rev. 22/8/66)

EY OF VILLAGE WATER SUPPLIES ....EAST SEPIK.....DISTRICT

AGE ...MCIM..... RECOMMENDATIONS

E OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

TION OF NEW SUPPLY Two wells. One between houses belonging to YAGABI, to between houses belonging to SARAM & APIGARA.....

NCE FROM VILLAGE ...Central.....

SS .....Track.....

E KNOWN TO. Koop.....

E OF AQUIFER ...Sandy silt.....

AILS OF SCHEME . Standard sanitary wells. 4 pipes each. Fibreglass. ach well to protrude 4 feet above ground level.....

.....

.....

ERIALS REQUIRED ....As per standard drawing.....

.....

OUR REQUIRED .....Local.....

ERVISION .....Local.....

MATED COST ($) .....280.....

RNATIVE SCHEME .....

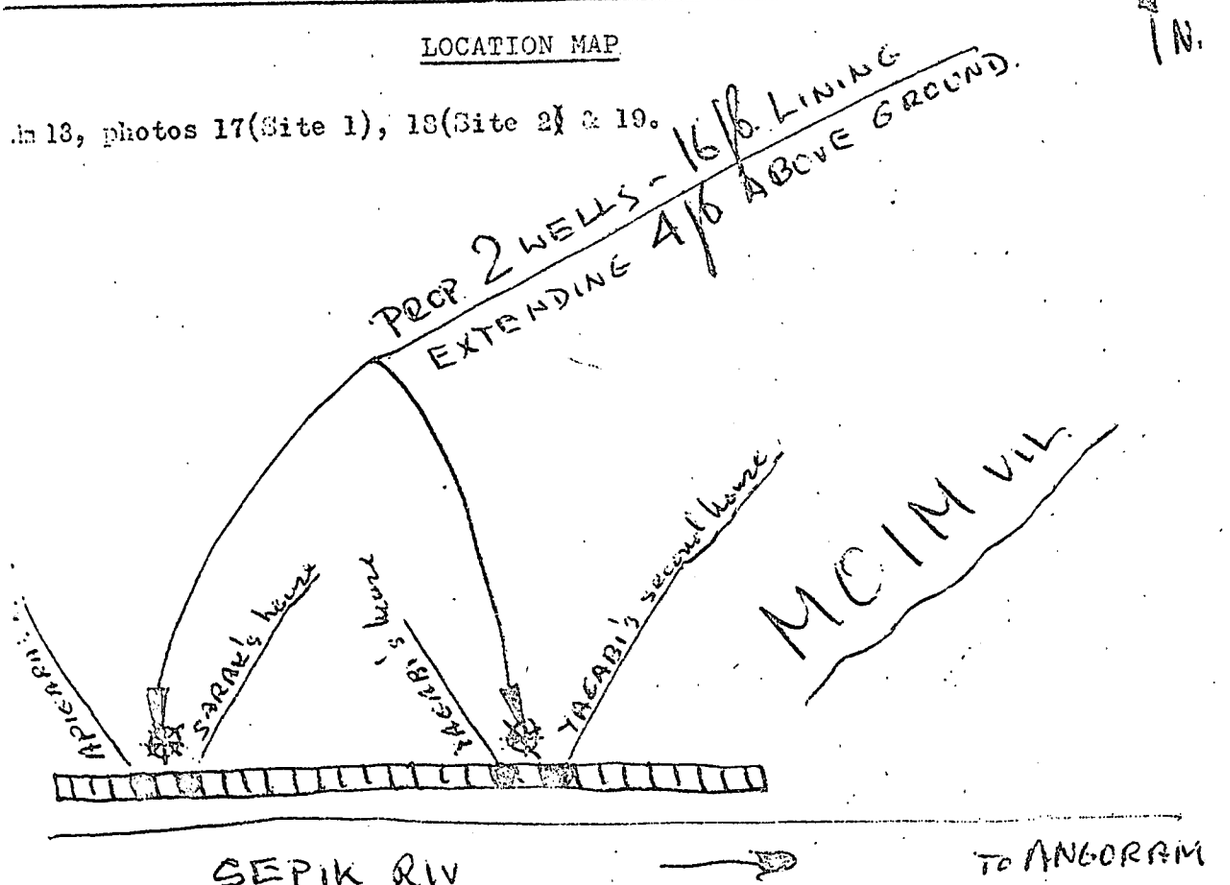
.....

ORITY ..Second..... Signed ..J.R.L. Read.... Date ..24/11/66.

LOCATION MAP

4 IN.

...n 18, photos 17(Site 1), 18(Site 2) & 19.

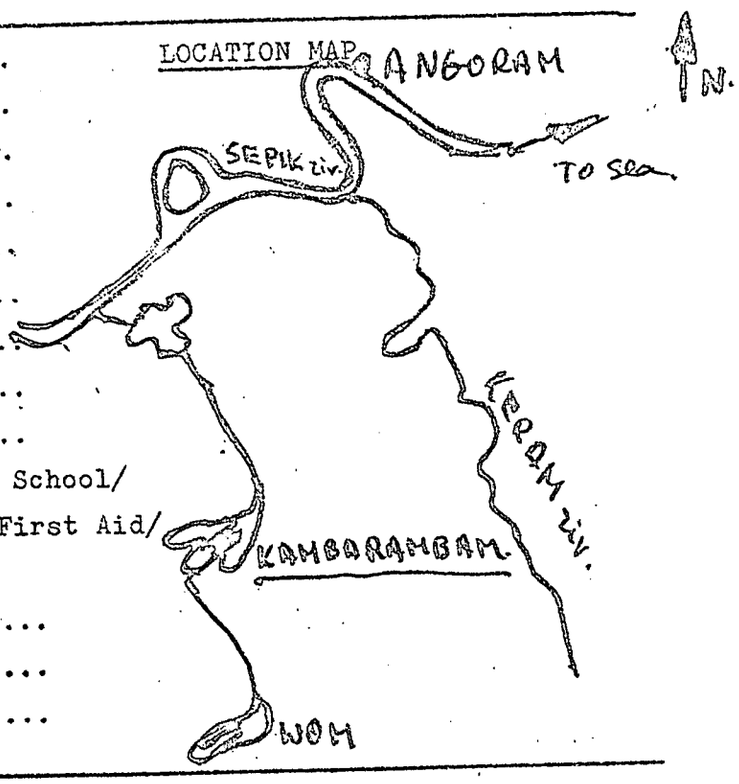


G.S.Form 7

...OF VILLAGE WATER SUPPLIES .....EAST SEPIK.....DISTRICT

...E .KAMBARAMBA.....
...L ....Keram.....
...S DIVISION ..Grass Country...
...DISTRICT ..Angoram.....
...CATION .....1481.....
...SS Kambarambe Barek.....
.....
...COUNCILLOR ..Kambuka.....
.....
...ER USE - Domestic/Government School/
...on/Mission School/Hospital/First Aid/
.../Irrigation
...ECTED DEVELOPMENT .....
.....
...MATED DEMAND .....

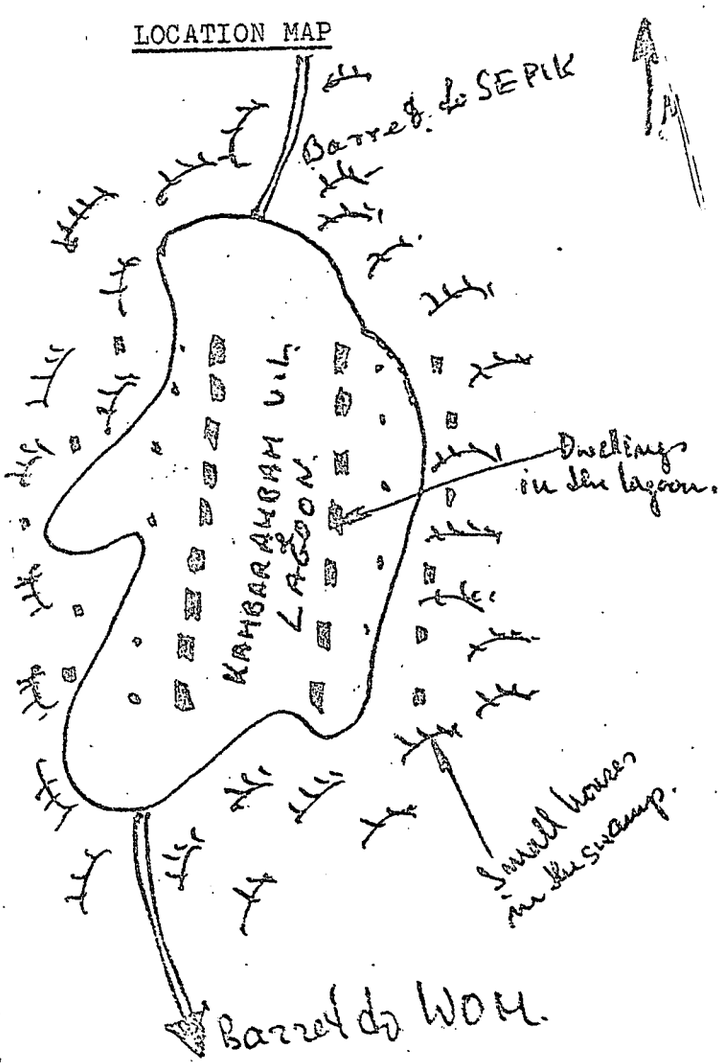
LOCATION MAP



PRESENT SUPPLY

...FALL .....70.....
...SEASON From .Nov.... to ..April
....Lagoon.....
...NCE FROM VILLAGE .....
...SPORT ...Canoe.....
...D/RATE OF FLOW .....
...ITY - Chemical .....
Bactereological .....
...ECTION .....Nil.....
...ARKS .....
.....
.....
.....
...SEASON From ..May..... to ..Oct.
...As above.....
...TANCE FROM VILLAGE .....
...NSPORT .....
...D/RATE OF FLOW .....
...LITY .....Chemical .....
Bactereological .....
...RRECTION .....
...ARKS .Village built over.....
...ater.. No possible recommendation.
.....

LOCATION MAP



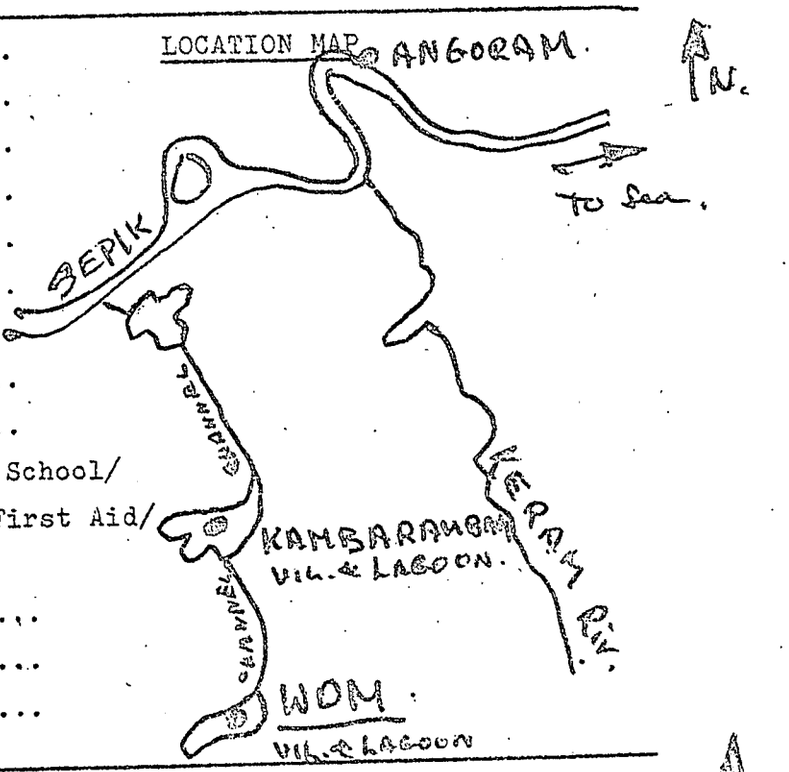
Film 14, photo 2.

G.S. Form 6
(Rev. 22/8/66)

OF VILLAGE WATER SUPPLIES .....EAST SEPIK.....DISTRICT

.E ..WOM.....
.IL ....Keram.....
'S DIVISION ..Gross Country...
.ISTRICT ..Angoram.....
.ATION ...611.....
.S ..Wom.Barat.....
.....
.AN/COUNCILLOR .....
.....
'USE - Domestic/Government School/
n/Mission School/Hospital/First Aid/
Irrigation
.ED DEVELOPMENT .....
.....
.ED DEMAND .....

LOCATION MAP

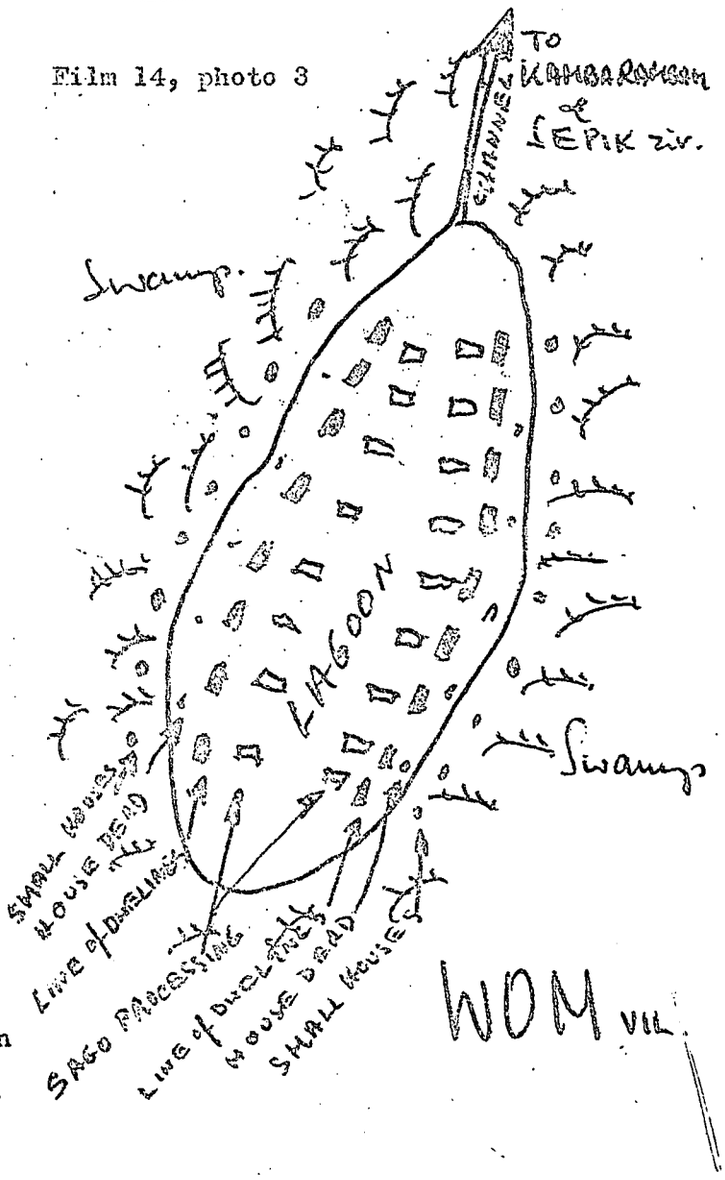


PRESENT SUPPLY

.E .....70.....
.SON From ..Nov... to .April.
.....~~Kerowau~~ Lagoon.....
.E FROM VILLAGE .....
.RT ..Canoe.....
.ATE OF FLOW .....
.T - Chemical .....
Bactereological .....
.TION ....Nil.....
.S .....
.....
.....
.....
.....
.SON From ..May.... to ...Oct.
.....As above.....
.E FROM VILLAGE .....
.RT .....
.ATE OF FLOW .....
.T .....Chemical .....
Bactereological .....
.TION .....
.S ..Village built over.....
.er..No possible recommendation
.....

LOCATION MAP

Film 14, photo 3



MAY RIVER, WANGAMUSEN,
UPPER SEPIK AND MAIN
RIVER CENSUS DIVISIONS
GAUI COUNCIL

AMBUNTI SUB DISTRICT

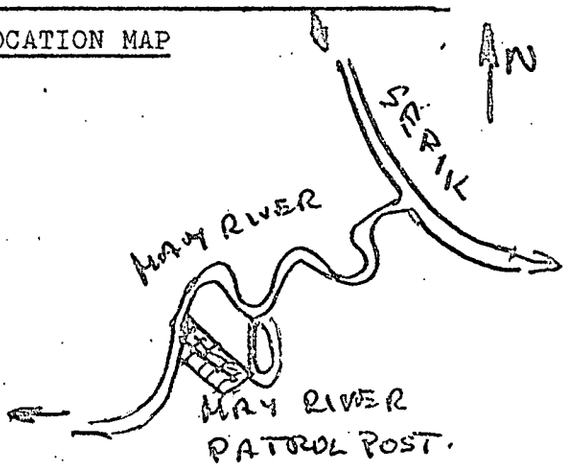
SUMMARY OF SURVEY OF VILLAGE WATER SUPPLIES - MAY RIVER, WONGAMUSEN, UPPER SEPIK AND MAIN RIVER CENSUS DIVISIONS, AND GAUI COUNCIL.

VILLAGE	POPULATION	TYPE OF SCHEME	NO. OF PIPES	ESTIMATED COST $	PRIORITY	REMARKS
May River Station (116)	40					No recommendation
Aumi (115)	79	Well	3	120	Second	Sandy silt and clay. In Village.
Iniok (117)	220	Well	3	120	Second	Sandy silt. In Village
Kubkain (118)		Well	3	120	Second	Sandy silt. In Village
Yambon (119)	269	Well	3	120	Second	Sandy silt. In Village
Malu (120)	449	2 Wells	8	280	Second	Sandy silt. In Village
Auatip (121)	683	3 Wells	12	420	Second	Sandy silt. In Village
Korogo (122)	606	2 Wells	8	280	Second	Sandy silt. In Village
Kanganaman (123)	595	3 Wells	12	420	Second	Sandy silt. In Village
Tegoi (124)	148	Well	4	140	Second	Sandy silt. In Village
Aibom (125)	516	3 Wells	9	360	Second	Sandy alluvium. In village
Indingai (126)	242	Well	4	140	Second	Sandy alluvium. In village
Arijone (127)	85	Well	4	140	Second	Alluvium
Timbumeri (128)	179	Well	2	120	Second	Sandy alluvium 150 yards behind village.

SURVEY OF VILLAGE WATER SUPPLIES .....WEST SEPIK.....DISTRICT

VILLAGE .MAY RIVER PATROL POST....
COUNCIL ...Nil.....
CENSUS DIVISION ...May River.....
SUB-DISTRICT ..Ambunti.....
POPULATION ....40.....
ACCESS ..Sepik River.....
.....
HEADMAN/COUNCILLOR .....
.....
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

RAINFALL .....156 (Lowest).....
WET SEASON From .Dec.... to .March.
TYPE ..Rainfall catchment.....
DISTANCE FROM VILLAGE ..Central....
TRANSPORT ...Track.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....
.....
DRY SEASON From ...April. to Nov...
TYPE .....As. above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS ..Rainfall catchment.....
..adequate.. No. recommendation.....
.....

LOCATION MAP

Film 11, photo 3.

G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ....WEST SEPIK.....DISTRICT

VILLAGE .....AUMI.....

COUNCIL ..Nil.....

CENSUS DIVISION ..May River.....

SUB-DISTRICT ...Ambunti.....

POPULATION ..79.....

ACCESS ...May River.....

.....

~~HEADMAN~~/COUNCILLOR ..Naru.....

.....

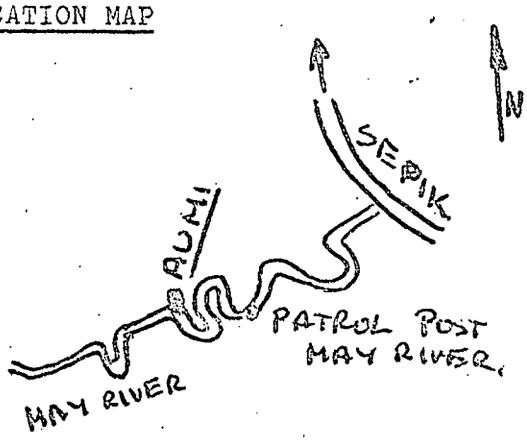
WATER USE - Domestic/Government School/ Mission/Mission School/Hospital/First Aid/ Stock/Irrigation

PROJECTED DEVELOPMENT .....

.....

ESTIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

RAINFALL ...156 (Lowest).....

WET SEASON From .Dec.... to .March.

TYPE ..May River.....

DISTANCE FROM VILLAGE .....

TRANSPORT ...May River.....

YIELD/RATE OF FLOW .....

QUALITY - Chemical .....

Bactereological .....

PROTECTION ...Nil.....

REMARKS .....

.....

.....

.....

DRY SEASON From ..April.. to .Nov..

TYPE ....As above.....

DISTANCE FROM VILLAGE .....

TRANSPORT .....

YIELD/RATE OF FLOW .....

QUALITY .....Chemical .....

Bactereological .....

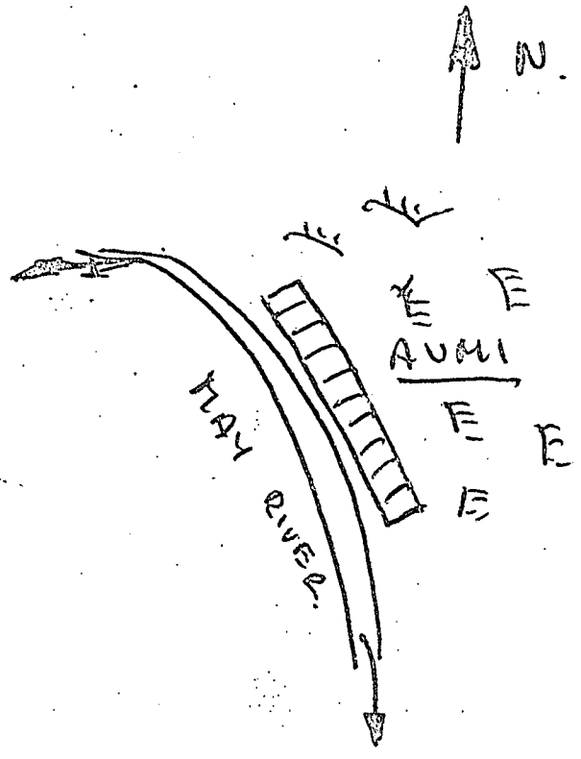
PROTECTION .....

REMARKS .....

.....

.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ....WEST SEPIK.....DISTRICT

VILLAGE ....AUMI.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ...Village Central, 15 feet behind the house.
.....Belonging to ~~Sunk~~ OMEI.....

DISTANCE FROM VILLAGE ....Central.....

ACCESS .....Track.....

SITE KNOWN TO.....

TYPE OF AQUIFER ..Sandy silt & clay.....

DETAILS OF SCHEME ...Standard sanitary well. 3 pipes. Fibreglass...
.....
.....
.....

MATERIALS REQUIRED ...As per standard drawing.....
.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) .....120.....

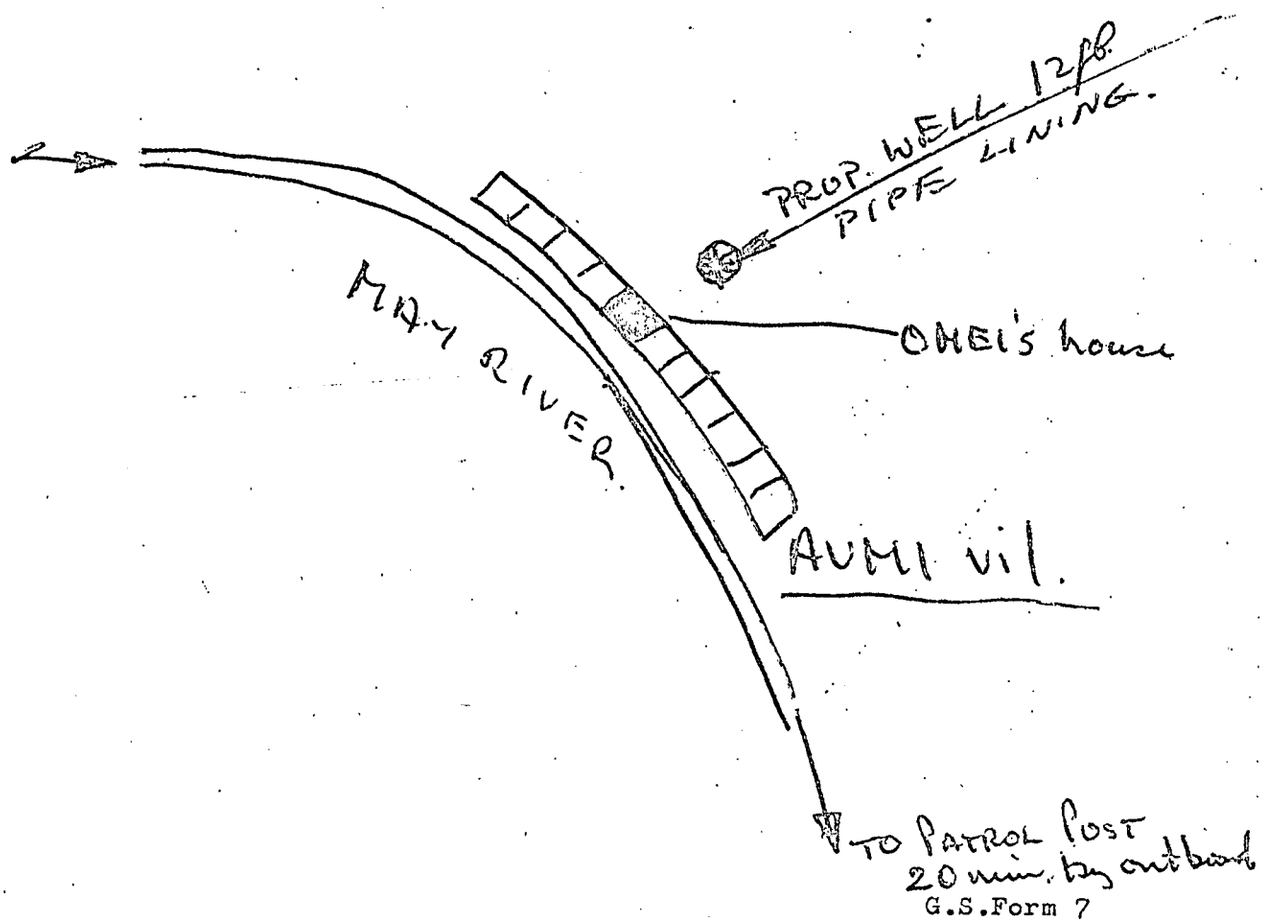
ALTERNATIVE SCHEME .....
.....

PRIORITY ..Second..... Signed ...J.R.L. Read... Date ..20/11/66

LOCATION MAP

N.

Film 11, photos 1 & 2.



G.S.Form 7

SURVEY OF VILLAGE WATER SUPPLIES .....WEST SEPIK.....DISTRICT

VILLAGE .....INIOK.....

COUNCIL ...Nil.....

CENSUS DIVISION ...May River.....

SUB-DISTRICT ....Ambunti.....

POPULATION ....220.....

ACCESS ...Sepik River.....

.....

HEADMAN/~~COUNCILLOR~~ ...Namagum.....

.....

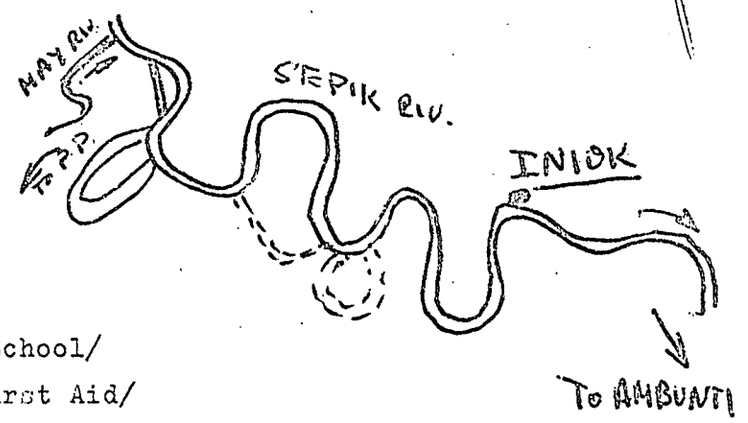
WATER USE - Domestic/Government School/ Mission/Mission School/Hospital/First Aid/ Stock/Irrigation

PROJECTED DEVELOPMENT .....

.....

ESTIMATED DEMAND .....

LOCATION MAP



A4 MAP.

PRESENT SUPPLY

RAINFALL .....156. (Lowest).....

WET SEASON From .Dec.... to .March.

TYPE ...Sepik River.....

DISTANCE FROM VILLAGE .....

TRANSPORT ...Track.....

YIELD/RATE OF FLOW .....

QUALITY - Chemical .....

Bactereological .....

PROTECTION .....Nil.....

REMARKS .....

.....

.....

.....

DRY SEASON From .April... to .Nov..

TYPE ....As above.....

DISTANCE FROM VILLAGE .....

TRANSPORT .....

YIELD/RATE OF FLOW .....

QUALITY .....Chemical .....

Bactereological .....

PROTECTION .....

REMARKS .....

.....

.....

LOCATION MAP

G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ....WEST SEPIK.....DISTRICT

VILLAGE .....INIOK.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ....Village central, in between houses belonging .....to. IKU. and. MXK. MAIKWA.....

DISTANCE FROM VILLAGE .....Central.....

ACCESS .....Track.....

SITE KNOWN TO.....

TYPE OF AQUIFER .....Sandy silt.....

DETAILS OF SCHEME ....Standard sanitary well. 3 pipes. Fibreglass...

.....

.....

.....

MATERIALS REQUIRED .....As per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) .....120.....

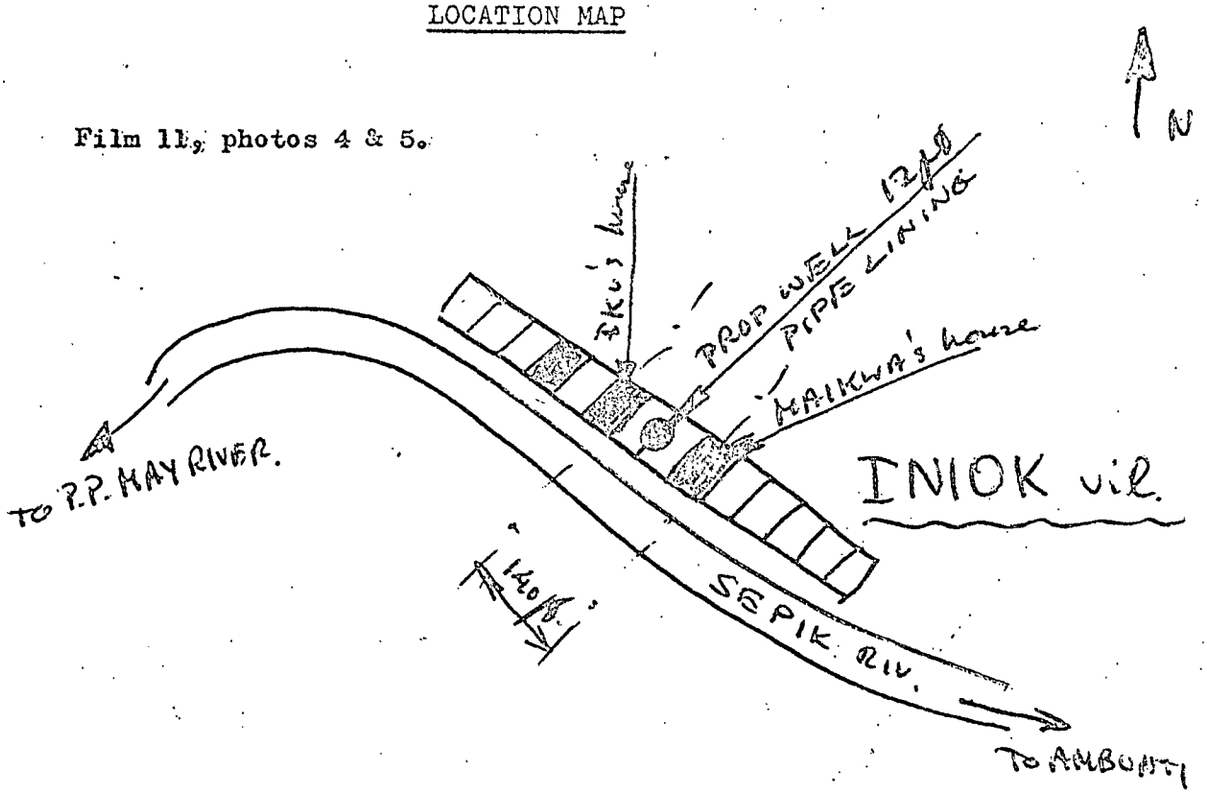
ALTERNATIVE SCHEME .....

.....

PRIORITY ...Second..... Signed ...J.R.L. Read... Date ...20/11/66.

LOCATION MAP

Film 11, photos 4 & 5.



G.S.Form 7

SURVEY OF VILLAGE WATER SUPPLIES .....WEST. SEPIK.....DISTRICT

VILLAGE .....KUBKAIN.....

COUNCIL .....Nil.....

CENSUS DIVISION ..Longamusen.....

SUB-DISTRICT ..Ambunti.....

POPULATION .....

ACCESS ..Sepik River.....

.....

HEADMAN/~~COUNCILLOR~~ .....

.....

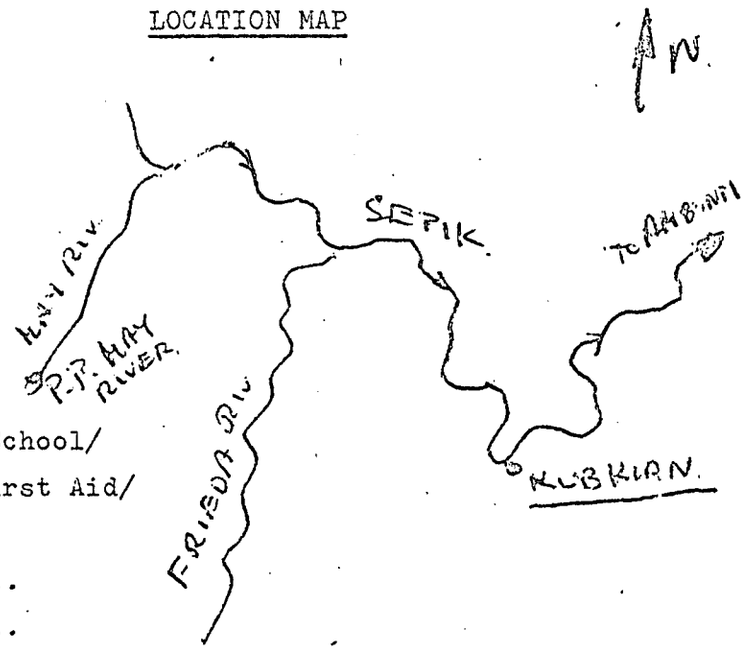
WATER USE - Domestic/Government School/ Mission/Mission School/Hospital/First Aid/ Stock/Irrigation

PROJECTED DEVELOPMENT .....

.....

ESTIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

RAINFALL .....75.....

WET SEASON From ..Oct... to ..March

TYPE ..Sepik River.....

DISTANCE FROM VILLAGE .....

TRANSPORT ..Track.....

YIELD/RATE OF FLOW .....

QUALITY - Chemical .....

Bactereological .....

PROTECTION ...Nil.....

REMARKS .....

.....

.....

.....

DRY SEASON From ..April... to ..Sept

TYPE ...As above.....

DISTANCE FROM VILLAGE .....

TRANSPORT .....

YIELD/RATE OF FLOW .....

QUALITY .....Chemical .....

Bactereological .....

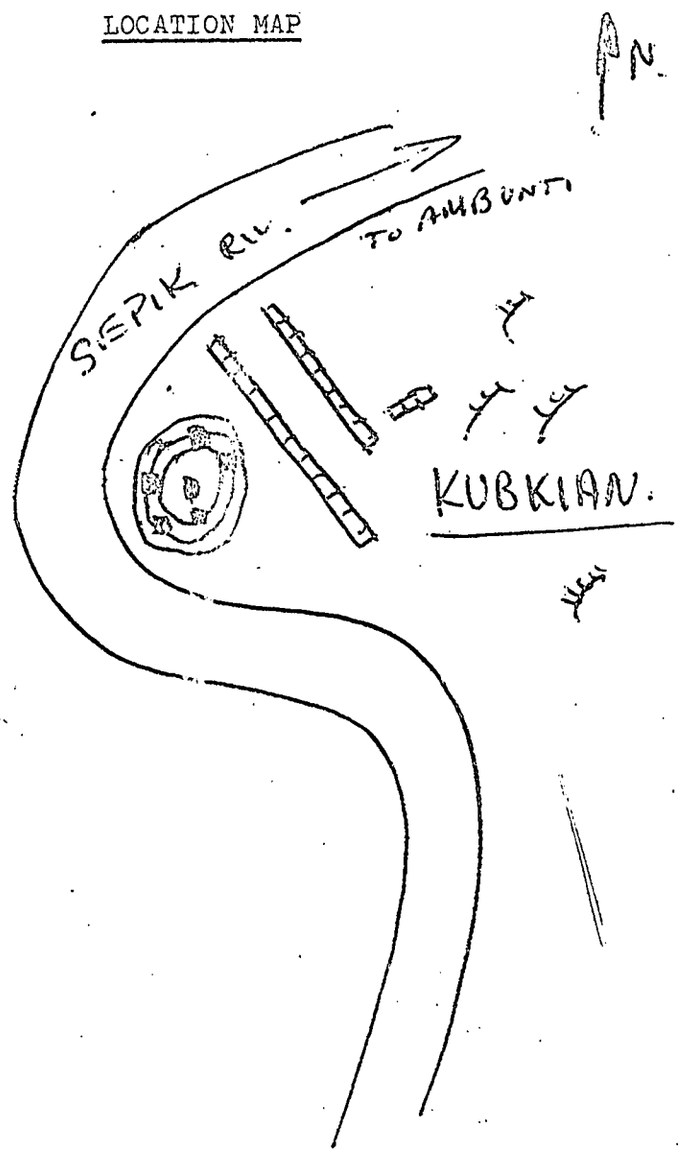
PROTECTION .....

REMARKS .....

.....

.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ....WEST SEPIK.....DISTRICT

VILLAGE .....KUBKAIN.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ..Village central, 20 feet SE of house belonging to YENUAI.

DISTANCE FROM VILLAGE ....Central

ACCESS .....Track

SITE KNOWN TO

TYPE OF AQUIFER ....Sandy silt.

DETAILS OF SCHEME .....Standard sanitary well. 3 pipes. Fibreglass.

MATERIALS REQUIRED .....As per standard drawing.

LABOUR REQUIRED .....Local

SUPERVISION .....Local

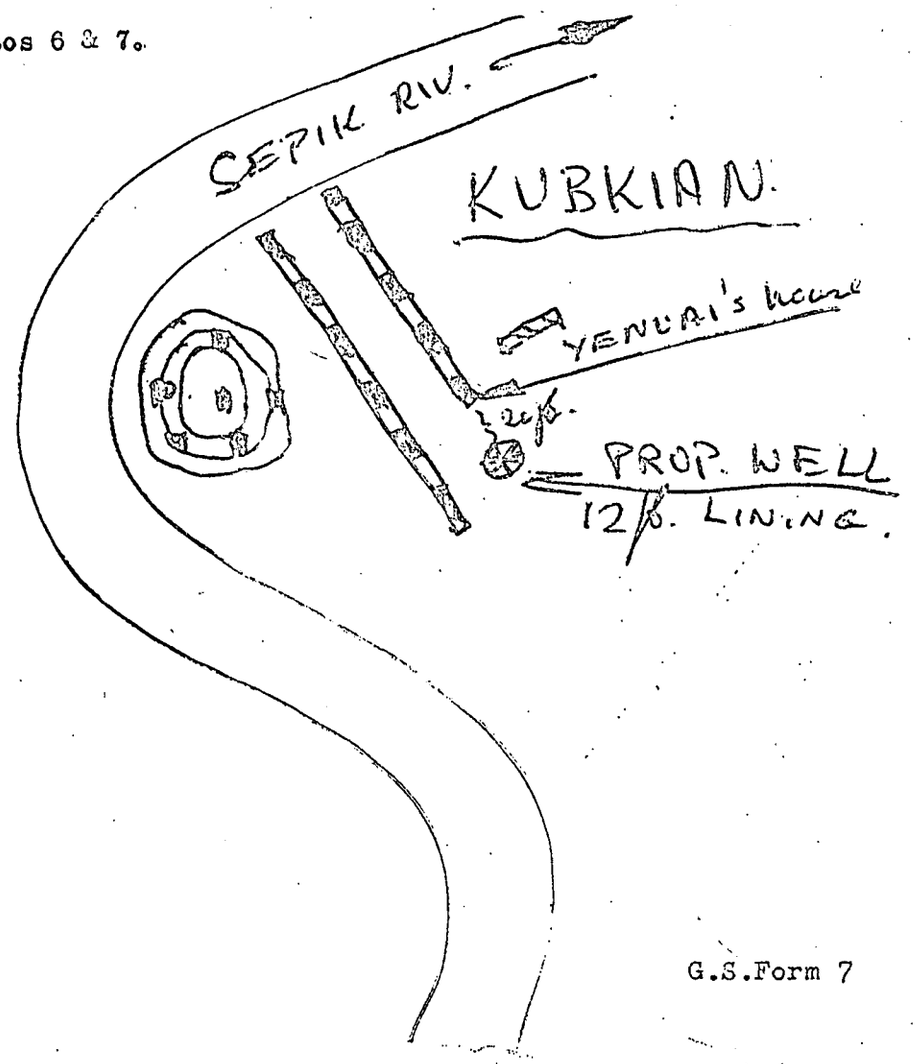
ESTIMATED COST ($) 120

ALTERNATIVE SCHEME

PRIORITY .....Second..... Signed ..J.B.L. Read.... Date .20/11/66.

LOCATION MAP

Film 11, photos 6 & 7.



G.S.Form 7

SURVEY OF VILLAGE WATER SUPPLIES ....WEST SEPIK.....DISTRICT

VILLAGE ....YAMBON.....

COUNCIL ...Nil.....

CENSUS DIVISION ..Upper Sepik....

SUB-DISTRICT ...Ambunti.....

POPULATION ..269.....

ACCESS ...Sepik River.....

.....

HEADMAN/~~COUNCILLOR~~ .....

.....

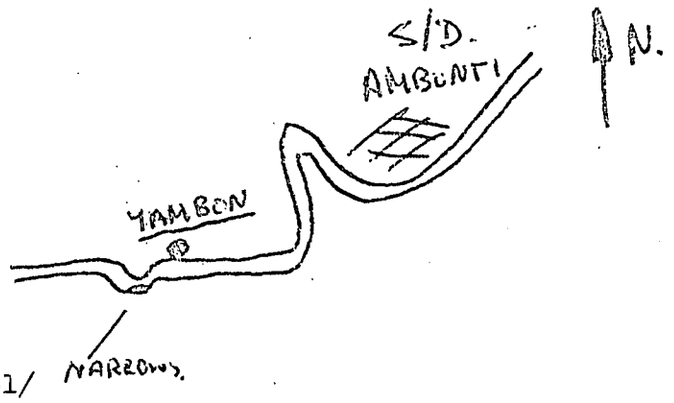
WATER USE - Domestic/Government School/ Mission/Mission School/Hospital/First Aid/ Stock/Irrigation

PROJECTED DEVELOPMENT .....

.....

ESTIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

RAINFALL .....75.....

WET SEASON From .Oct.... to .March.

TYPE .Small stream.....

DISTANCE FROM VILLAGE .100 yds....

TRANSPORT ...Track.....

YIELD/RATE OF FLOW .....

QUALITY - Chemical .....

Bactereological .....

PROTECTION .....Nil.....

REMARKS .....

.....

.....

.....

DRY SEASON From .April... to .Sept.

TYPE ...As above.....

DISTANCE FROM VILLAGE .....

TRANSPORT .....

YIELD/RATE OF FLOW .....

QUALITY .....Chemical .....

Bactereological .....

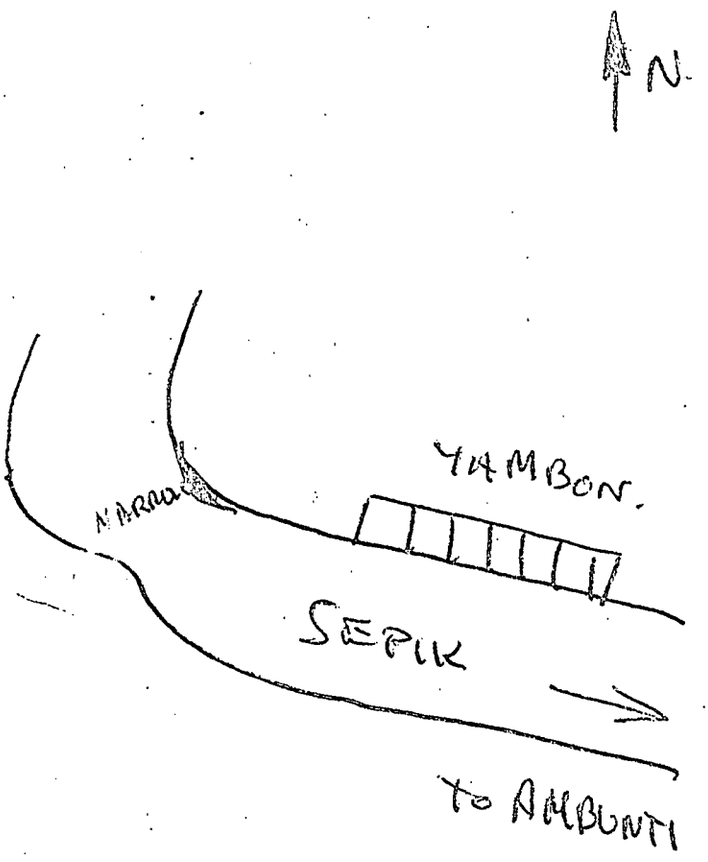
PROTECTION .....

REMARKS .....

.....

.....

LOCATION MAP



G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ...WEST SEPIK.....DISTRICT

VILLAGE ...YAMBON.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ..Village central between houses belonging ....to. BANGU & WOIOKAI.....

DISTANCE FROM VILLAGE ..Central.....

ACCESS ....Track.....

SITE KNOWN TO.....

TYPE OF AQUIFER ...Sandy silt.....

DETAILS OF SCHEME ..Standard sanitary well. 3 pipes. Fibreglass.....

.....

.....

.....

MATERIALS REQUIRED ...As per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) .....130.....

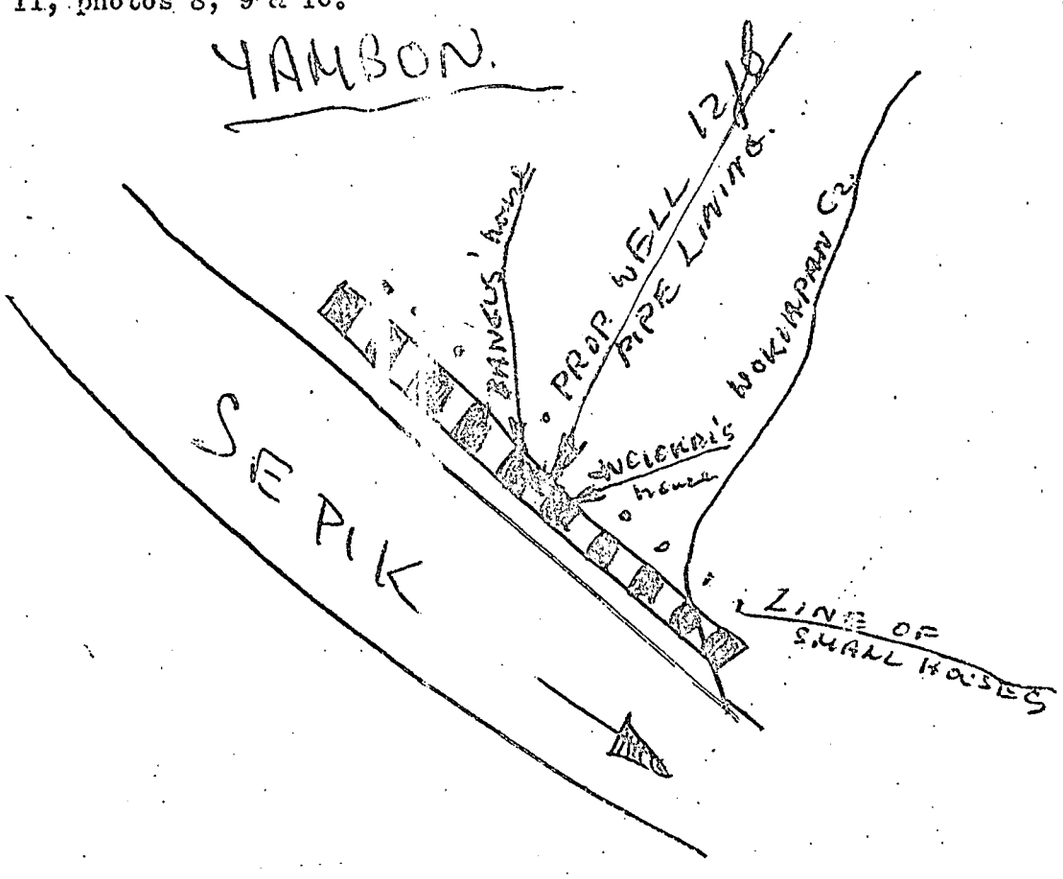
ALTERNATIVE SCHEME .....

.....

PRIORITY ..Second..... Signed .J.R.L. Read..... Date .20/11/66

LOCATION MAP

Film 11, photos 8, 9 & 10.



G.S.Form 7

SURVEY OF VILLAGE WATER SUPPLIES ..WEST SEPIK.....DISTRICT

VILLAGE ...HALU.....

COUNCIL ....Nil.....

CENSUS DIVISION ..Main River.....

SUB-DISTRICT ..Ambunti.....

POPULATION ..449.....

ACCESS ..Sepik River.....

.....

HEADMAN/~~COUNCILLOR~~ ...Kariam.....

.....

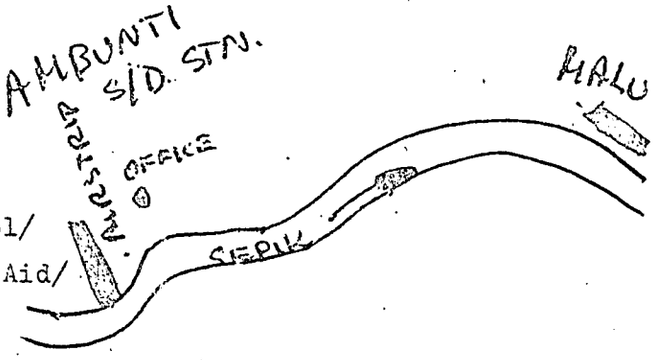
WATER USE - Domestic/Government School/ Mission/Mission School/Hospital/First Aid/ Stock/Irrigation

PROJECTED DEVELOPMENT .....

.....

ESTIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

RAINFALL ...75.....

WET SEASON From ..... Oct to March.

TYPE ....Sepik River.....

DISTANCE FROM VILLAGE .....

TRANSPORT ....Track.....

YIELD/RATE OF FLOW .....

QUALITY - Chemical .....

Bactereological .....

PROTECTION ....Nil.....

REMARKS .....

.....

.....

.....

DRY SEASON From ..April. to Sept.

TYPE ...As above.....

DISTANCE FROM VILLAGE .....

TRANSPORT .....

YIELD/RATE OF FLOW .....

QUALITY .....Chemical .....

Bactereological .....

PROTECTION .....

REMARKS .....

.....

.....

LOCATION MAP

Water from the Sepik river.

G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ....WEST.SEPIK.....DISTRICT

VILLAGE .....MALU..... RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ..2 wells. One between houses belonging to GAIA & WAINE. One between houses belonging to GANI & PASANDU.....

DISTANCE FROM VILLAGE ..Central.....

ACCESS ....Track.....

SITE KNOWN TO.....

TYPE OF AQUIFER .....Sandy silt.....

DETAILS OF SCHEME .Standard sanitary well. 4 pipes each. Fibreglass. ..Trench latrines behind houses of GANI & PASANDU, to be abandoned & ...the ground chlorinated & not used for a well site for at least 6 months. ...Each well to protrude 4 feet above ground level.....

MATERIALS REQUIRED .....As per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) ....280.....

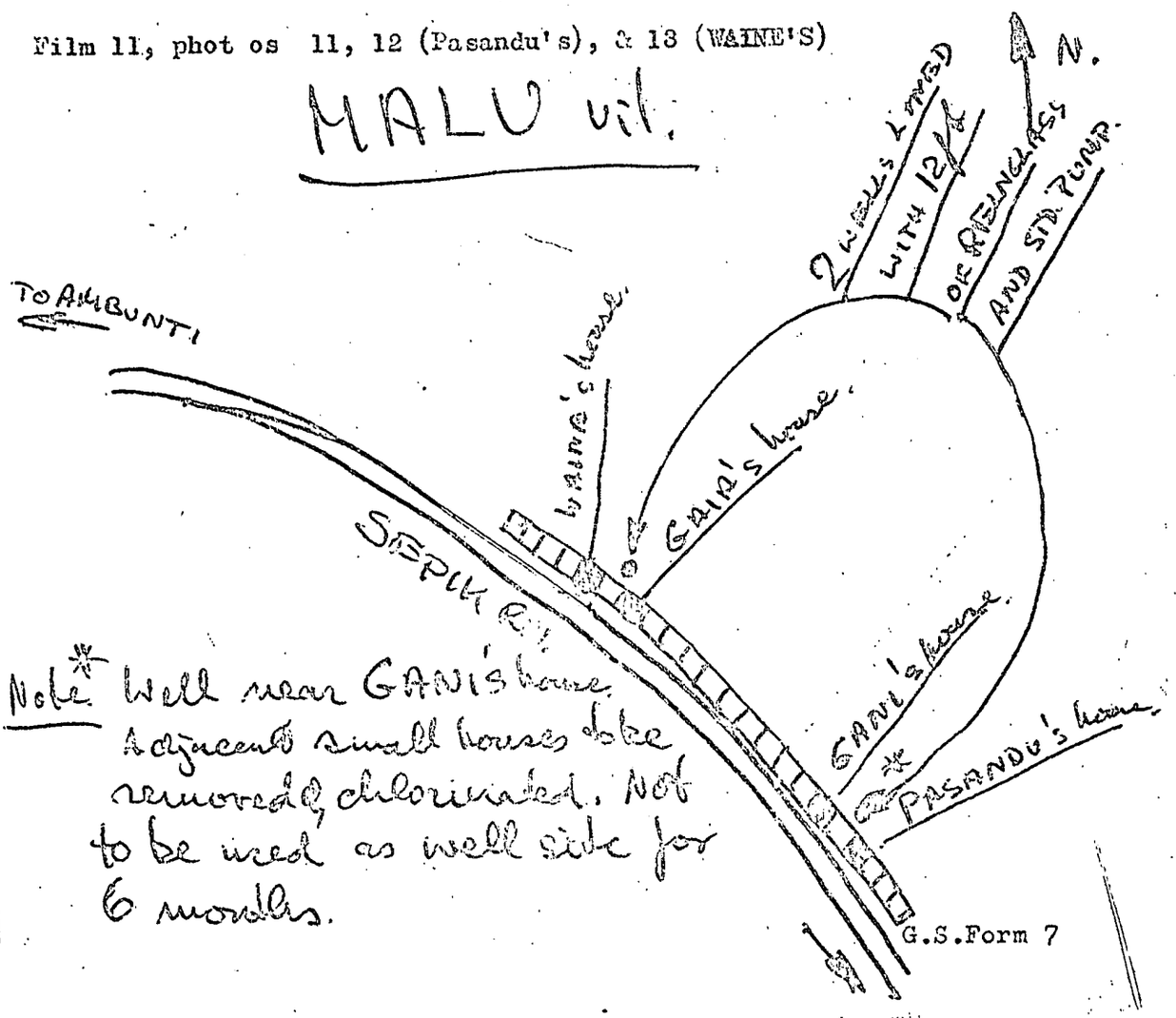
ALTERNATIVE SCHEME .....

.....

PRIORITY .Second..... Signed ..J.R.L..Read.... Date 20/11/66

LOCATION MAP

Film 11, photos 11, 12 (Pasandu's), & 13 (WAINE'S)

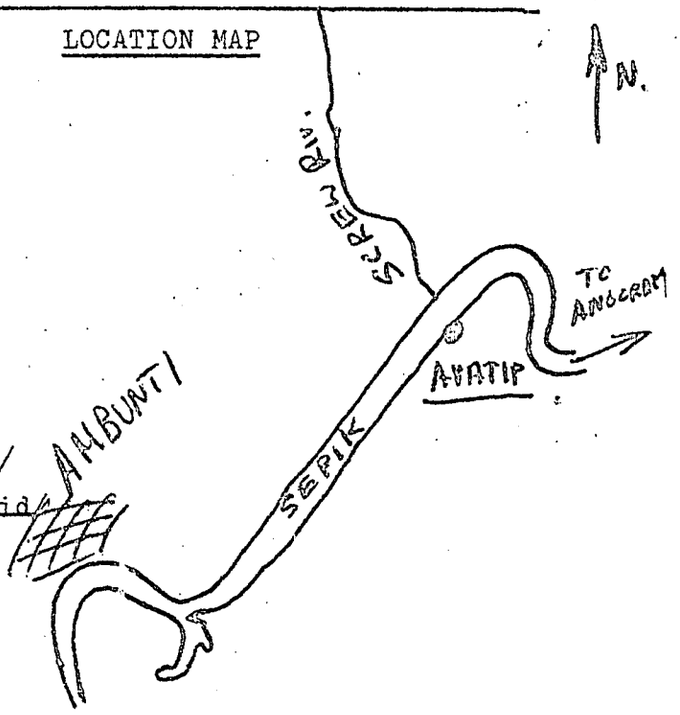


G.S.Form 7

SURVEY OF VILLAGE WATER SUPPLIES ...WEST SEPIK.....DISTRICT

VILLAGE ...AVATIP.....
COUNCIL ..Nil.....
CENSUS DIVISION ..Main River.....
SUB-DISTRICT ..Ambunti.....
POPULATION ...683.....
ACCESS ..Sepik River.....
.....
HEADMAN/~~COUNCILLOR~~ ..Wokinap.....
.....
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/~~First Aid~~/
Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

RAINFALL .....75.....
WET SEASON From ..Oct... to March.
TYPE ...Sepik River.....
DISTANCE FROM VILLAGE .....
TRANSPORT ....Track.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION ...Nil.....
REMARKS .....
.....
.....
.....
DRY SEASON From ..April... to ..Sept.
TYPE .....As above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP

G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ...WEST SEPIK.....DISTRICT

VILLAGE ....AVATIP.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY 3 wells. One in front of House Copra. Two in front of Aid Post. Three between houses belonging to RANKER & TAPI.....

DISTANCE FROM VILLAGE ....Central.....

ACCESS .....Track.....

SITE KNOWN TO.....

TYPE OF AQUIFER ....Sandy silt.....

DETAILS OF SCHEME ...3 standard sanitary wells. 4 pipes. Fibreglass. Each well to protrude 4 feet above ground level.....

.....

.....

MATERIALS REQUIRED .....As per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) .....420.....

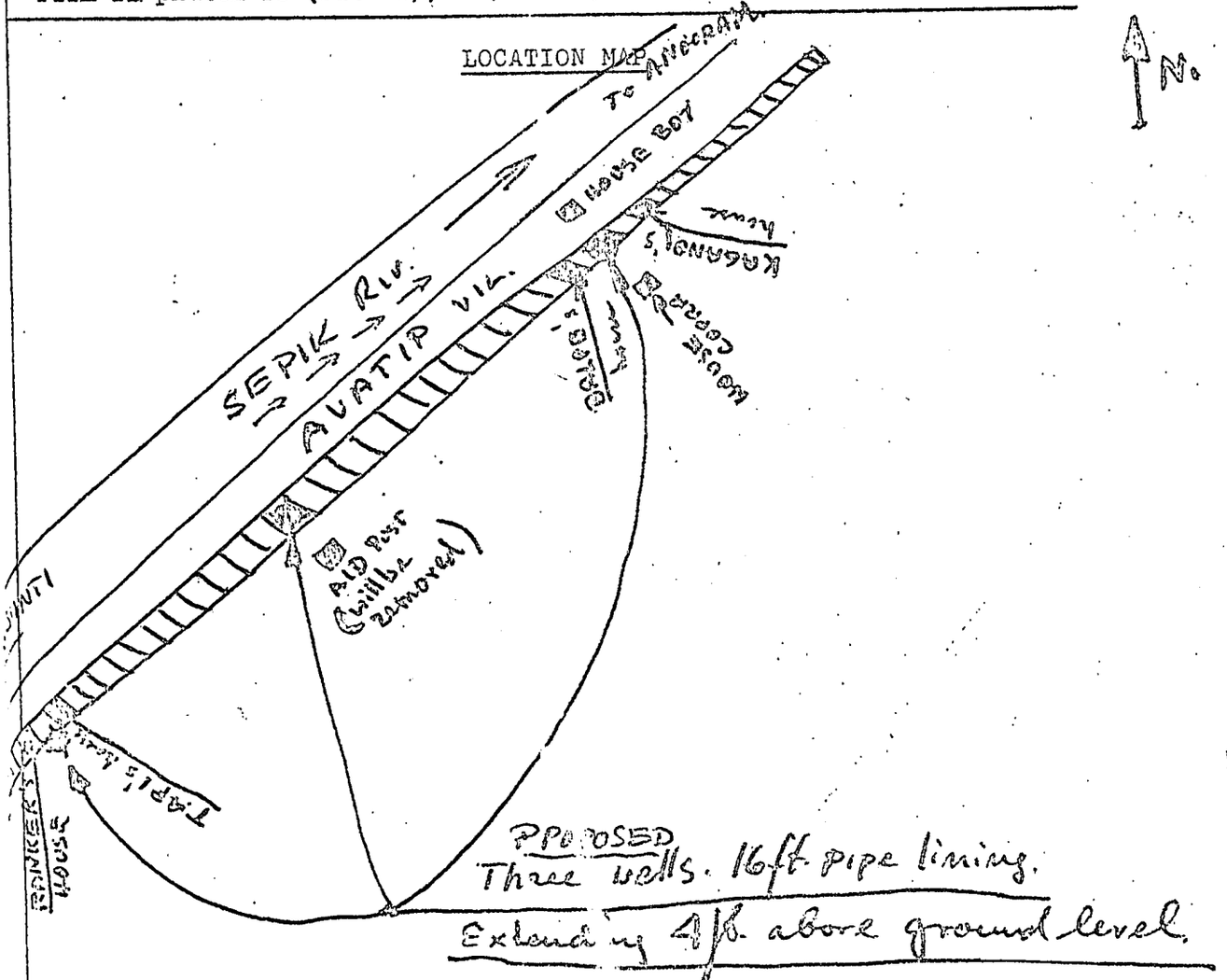
ALTERNATIVE SCHEME .....

.....

PRIORITY ...Second..... Signed ..J.R.L. Read.... Date ..21/11/66.

Film 11 photos 15 (Site 1), 17(Site 2) & 13(Site 3).

LOCATION MAP

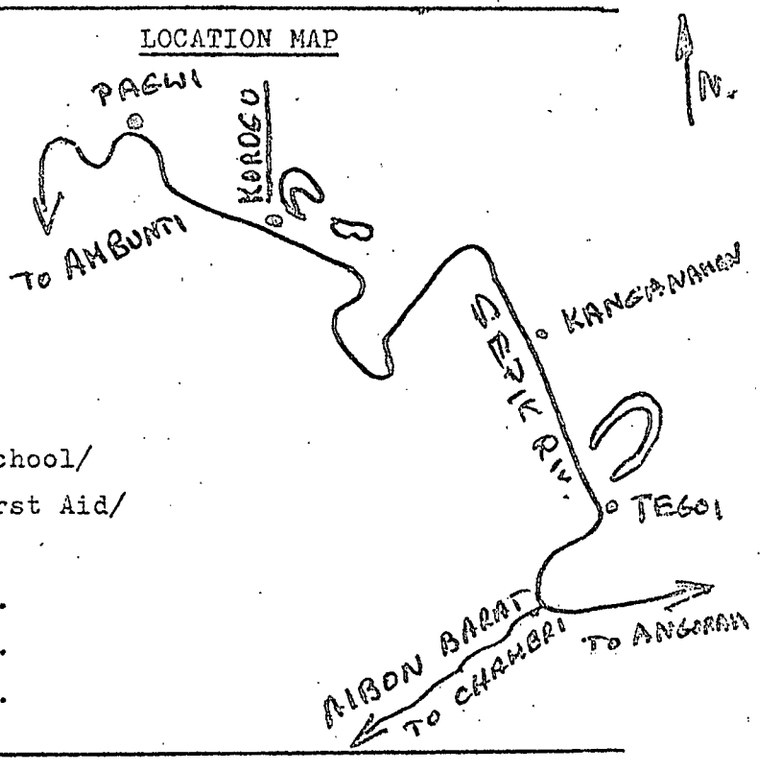


G.S.Form 7

SURVEY OF VILLAGE WATER SUPPLIES ..EAST SEPIK.....DISTRICT

VILLAGE ..KOROGO.....
COUNCIL ..Gaui.....
CENSUS DIVISION ....Main River..
SUB-DISTRICT ....Ambunti.....
POPULATION ..606.....
ACCESS ...Sepik River.....
.....
~~HEADMAN~~/COUNCILLOR ..Kenkon.....
.....
WATER USE - Domestic/Government School/ Mission/Mission School/Hospital/First Aid/ Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

RAINFALL .....65.....
WET SEASON From .Oct.... to .March.
TYPE ...Sepik River.....
DISTANCE FROM VILLAGE .....
TRANSPORT ...Track.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION .....Nil.....
REMARKS .....
.....
.....
.....
DRY SEASON From ..April.. to .Sept.
TYPE ....As above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP

G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ...EAST SEPIK.....DISTRICT

VILLAGE .....KOROGO.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY .2 wells. One in front of house belonging to CHUA ...& Two beside The Haus Boi.....

DISTANCE FROM VILLAGE ..Central.....

ACCESS ....Track.....

SITE KNOWN TO..Konkon.....

TYPE OF AQUIFER ...Sandy silt.....

DETAILS OF SCHEME ...Standard sanitary wells. 4 pipes each. Fibreglass. .....Each well to protrude 4 feet above ground level.....

.....

.....

MATERIALS REQUIRED ....As per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) ...280.....

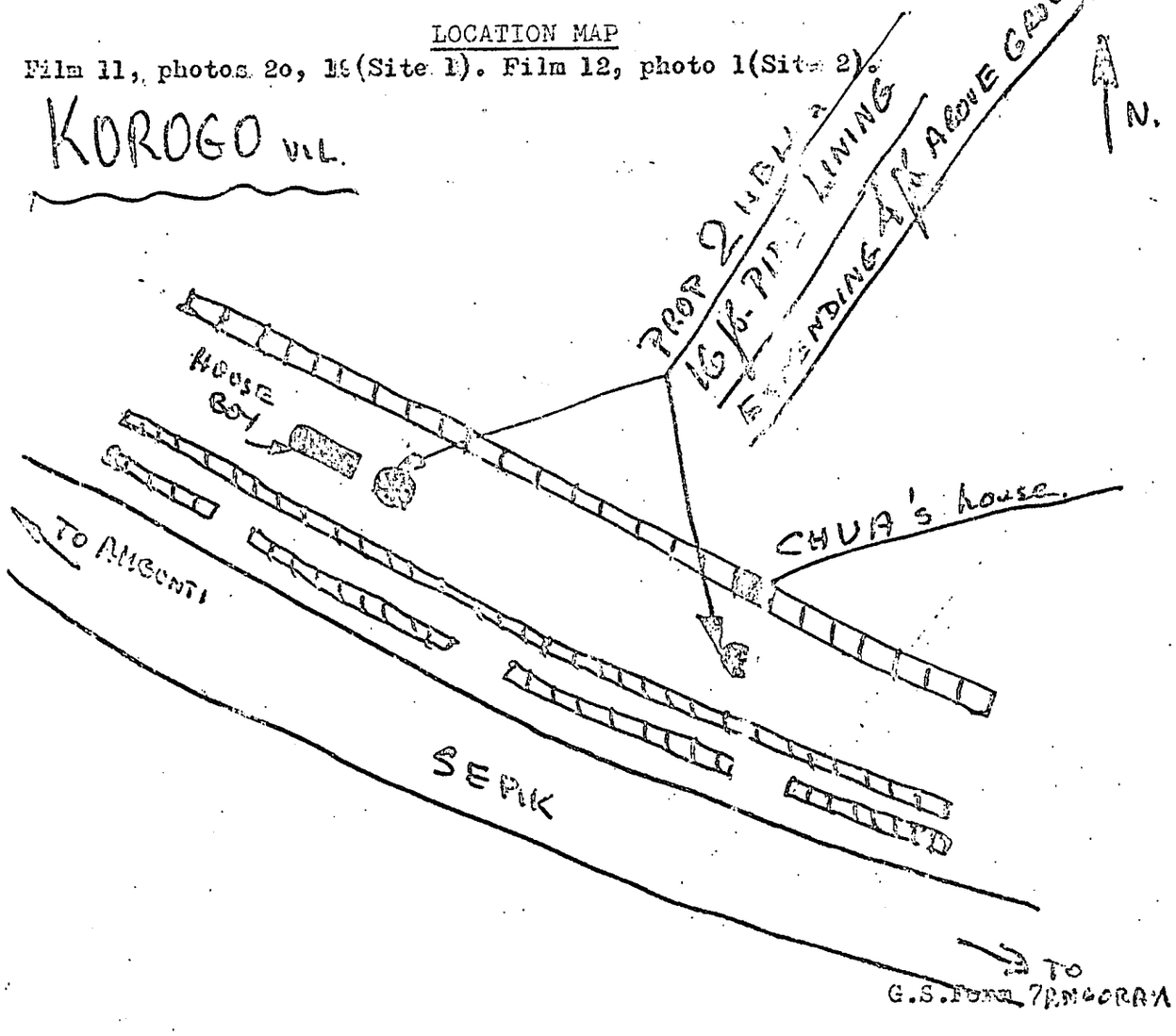
ALTERNATIVE SCHEME .....

.....

PRIORITY ...Second..... Signed ..J.R.L. Read.... Date ..21/11/66.

LOCATION MAP

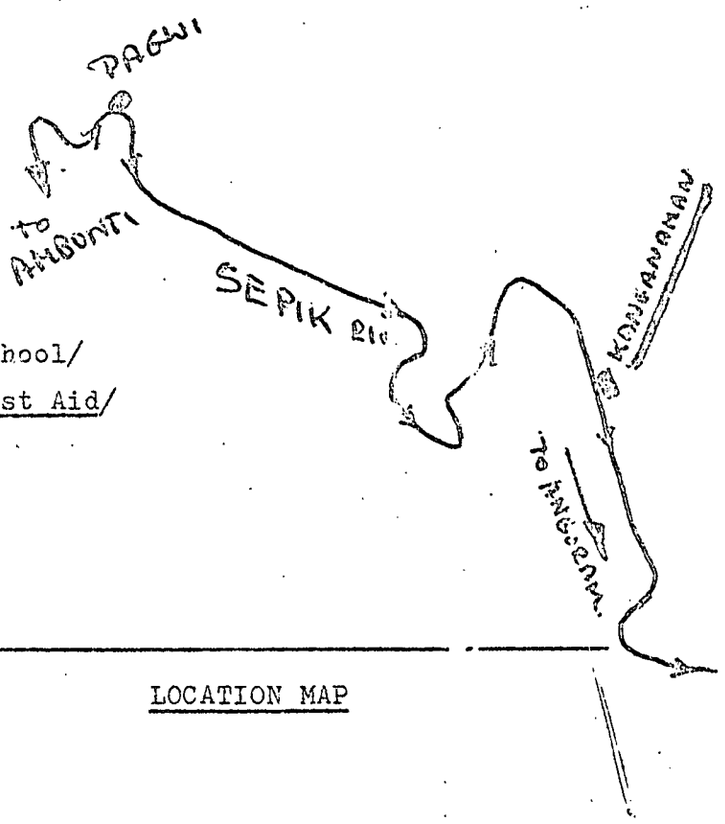
Film 11, photos 2o, 19(Site 1). Film 12, photo 1(Site 2).



SURVEY OF VILLAGE WATER SUPPLIES ...EAST SEPIK.....DISTRICT

VILLAGE ... KANGANAMAN.....
COUNCIL ... Gani.....
CENSUS DIVISION ..Main River.....
SUB-DISTRICT ....Ambunti.....
POPULATION ....595.....
ACCESS ..Sepik River.....
.....
HEADMAN/~~COUNCILLOR~~ : Gondwan.....
.....
WATER USE - Domestic/Government School/
Mission/Mission School/Hospital/First Aid/
Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

RAINFALL .....65.....
WET SEASON From .Oct... to .March.
TYPE ...Sepik Riven.....
DISTANCE FROM VILLAGE .....
TRANSPORT ...Track.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION .....Nil.....
REMARKS .....
.....
.....
.....
DRY SEASON From April.... to Sept.
TYPE ....As above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP

G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ..... EAST SEPIK .....DISTRICT

VILLAGE ..KANGANAMAN..... RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY 3 wells. One between houses belonging to KANJA & GONDWAN, Two beside house of WARINDAMBIL, Three between houses belonging to MARASAPA & GRAMBAN.

DISTANCE FROM VILLAGE ..Central to each hamlet.....

ACCESS ....Track.....

SITE KNOWN TO.....Gondwan.....

TYPE OF AQUIFER ...Sandy silt.....

DETAILS OF SCHEME .3 sanitary wells. 4 pipes each. Fibreglass.....
.Each well to protrude 4 feet above ground level.....
.....
.....

MATERIALS REQUIRED ...As per standard drawing.....
.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

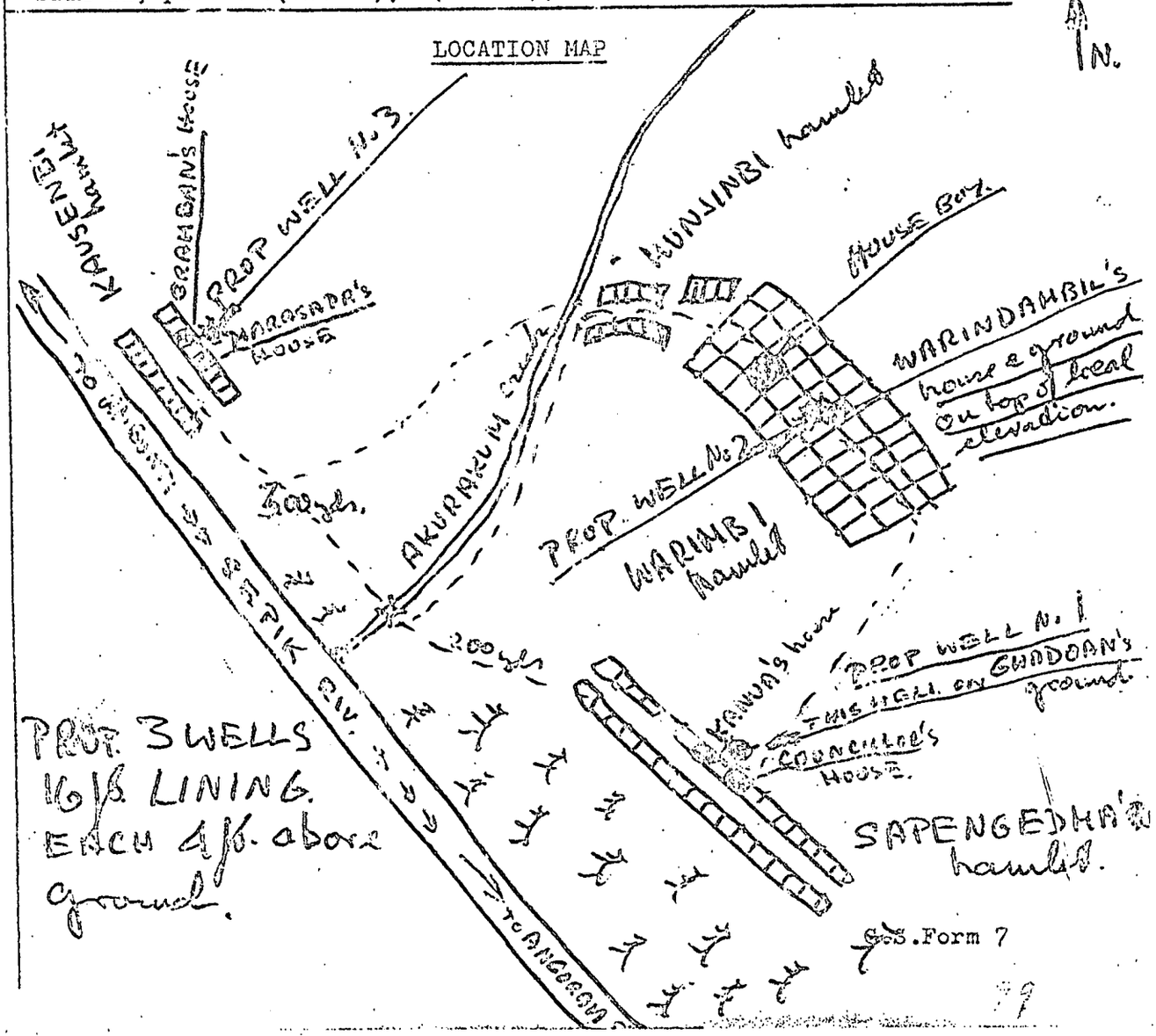
ESTIMATED COST ($) .....420.....

ALTERNATIVE SCHEME .....
.....

PRIORITY ...Second..... Signed .J.B.L. Read..... Date .21/11/66

Film 12, photos 4(Site 1), 5(Site 2), & 6(Site 3).

LOCATION MAP

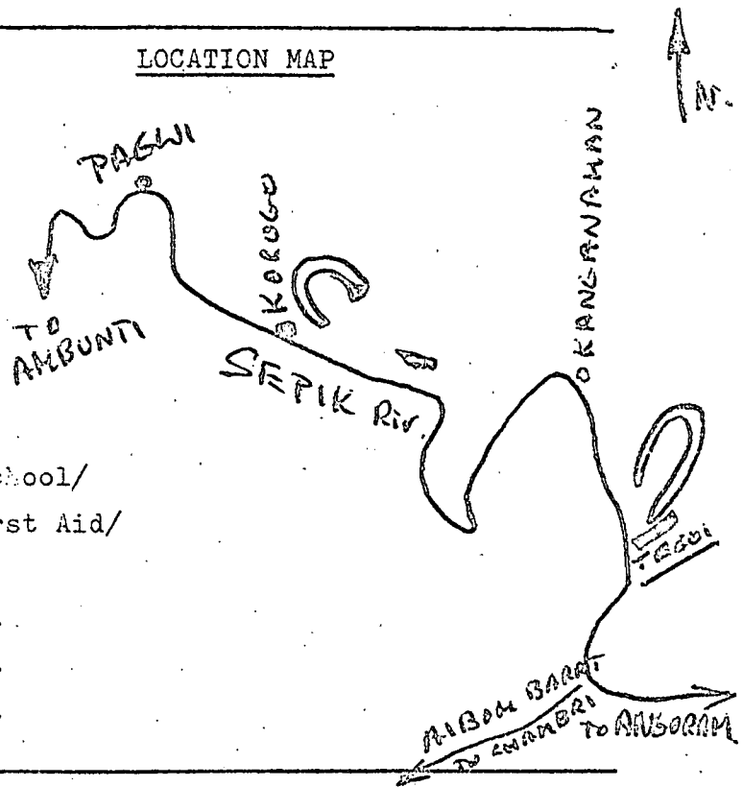


G.S. Form 7

SURVEY OF VILLAGE WATER SUPPLIES ..EAST SEPIK.....DISTRICT

VILLAGE ...TEGOI.....
COUNCIL ..Gaui.....
CENSUS DIVISION ...Main Rivers...
SUB-DISTRICT ..Ambunti.....
POPULATION ...148.....
ACCESS .....Sepik River.....
.....
~~HEADMAN~~/COUNCILLOR Avolaia.....
.....
WATER USE - Domestic/Government School/ Mission/Mission School/Hospital/First Aid/ Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

RAINFALL .....65.....
WET SEASON From ..Oct... to ..March
TYPE ..Sepik River...Tegoi lagoon..
DISTANCE FROM VILLAGE .....
TRANSPORT ...Track.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION .....Nil.....
REMARKS .....
.....
.....
.....
DRY SEASON From ..April... to ..Sept.
TYPE .....As above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP

G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES . EAST SEPIK .....DISTRICT

VILLAGE .....TEGOI.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ...Between R.C. Church & R.C. Teacher's house.

DISTANCE FROM VILLAGE ...Central.

ACCESS ....Track

SITE KNOWN TO.....Kwalai

TYPE OF AQUIFER ...Sandy silts.

DETAILS OF SCHEME ....Standard sanitary well. 4 pipes. Fibreglass.

....The well is to protrude 4 feet above ground level.

MATERIALS REQUIRED .....As per standard drawing.

LABOUR REQUIRED .....Local

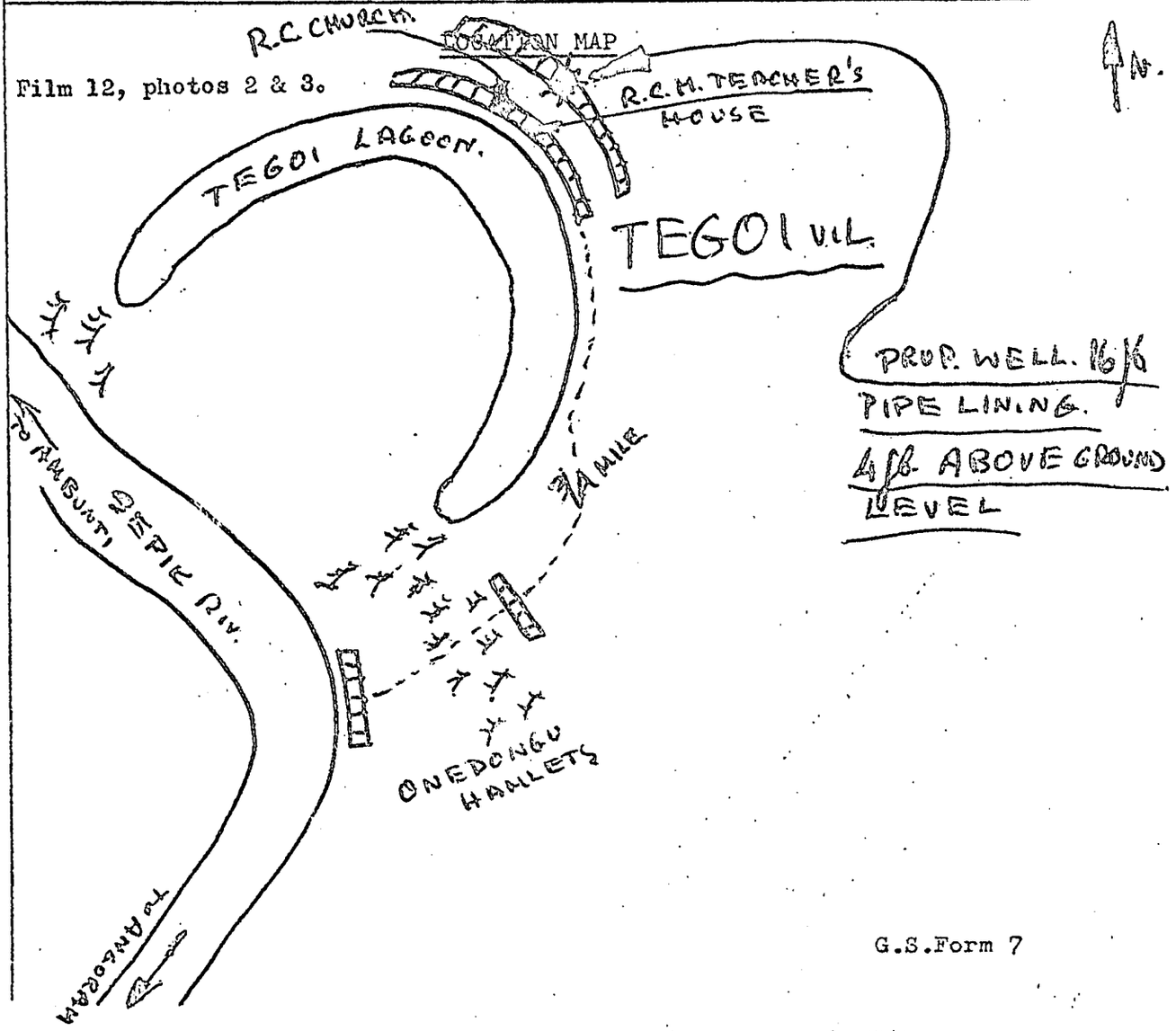
SUPERVISION .....Local

ESTIMATED COST (£) 140

ALTERNATIVE SCHEME .....

PRIORITY ..Second..... Signed ...J.R.L. Read... Date ..21/11/66

Film 12, photos 2 & 3.



G.S.Form 7

SURVEY OF VILLAGE WATER SUPPLIES ..... EAST SEPIK .....DISTRICT

VILLAGE .....AIBOM.....

COUNCIL ....Gaui.....

CENSUS DIVISION ....Chambri Lakes.

SUB-DISTRICT ...Ambunti.....

POPULATION .....

ACCESS .Sepik River & Aibom Barat.

.....

~~HEADMAN~~/COUNCILLOR .William .....

.....Deman.....

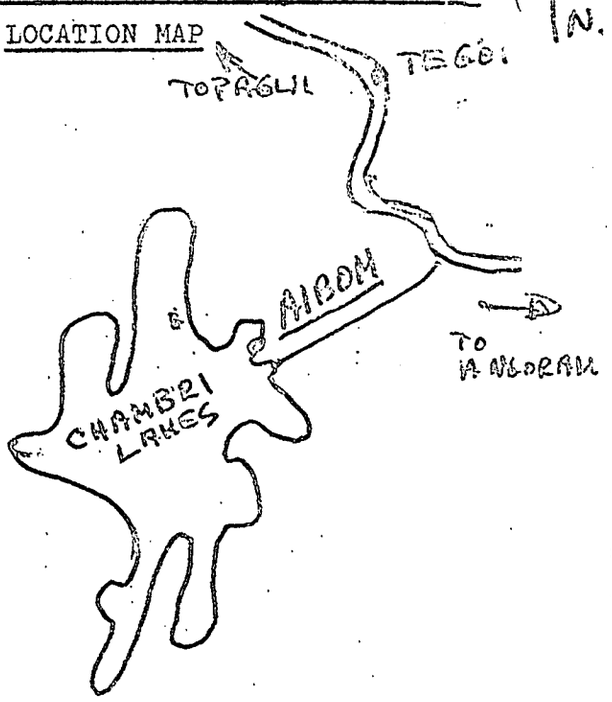
WATER USE - Domestic/Government School/ Mission/Mission School/Hospital/First Aid/ Stock/Irrigation

PROJECTED DEVELOPMENT .....

.....

ESTIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

LOCATION MAP

RAINFALL .....65.....

WET SEASON From ..Oct... to .March

TYPE .Chambri Lake & small streams.

DISTANCE FROM VILLAGE .....

TRANSPORT .Track.....

YIELD/RATE OF FLOW .....

QUALITY - Chemical .....

Bactereological .....

PROTECTION .....Nil.....

REMARKS .....

.....

.....

.....

DRY SEASON From ..April.. to ..Sept.

TYPE ....As above.....

DISTANCE FROM VILLAGE .....

TRANSPORT .....

YIELD/RATE OF FLOW .....

QUALITY .....Chemical .....

Bactereological .....

PROTECTION .....

REMARKS .....

.....

.....

G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ....EAST SEPIK.....DISTRICT

VILLAGE ...AIBOM..... RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY 3.wells. One behind Haus Boi at Aibom 1, Two behind R.C. Church at Aibom 2, Three on SUAT'S ground behind Aibom 3.

DISTANCE FROM VILLAGE ...Central to each hamlet.....

ACCESS ...Track.....

SITE KNOWN TO...MAGI.....

TYPE OF AQUIFER .Sandy alluvium.....

DETAILS OF SCHEME ..3.standard sanitary wells. 3.pipes.each. Fibreglass.

.....

.....

.....

MATERIALS REQUIRED ..As per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

ESTIMATED COST ($) .....360.....

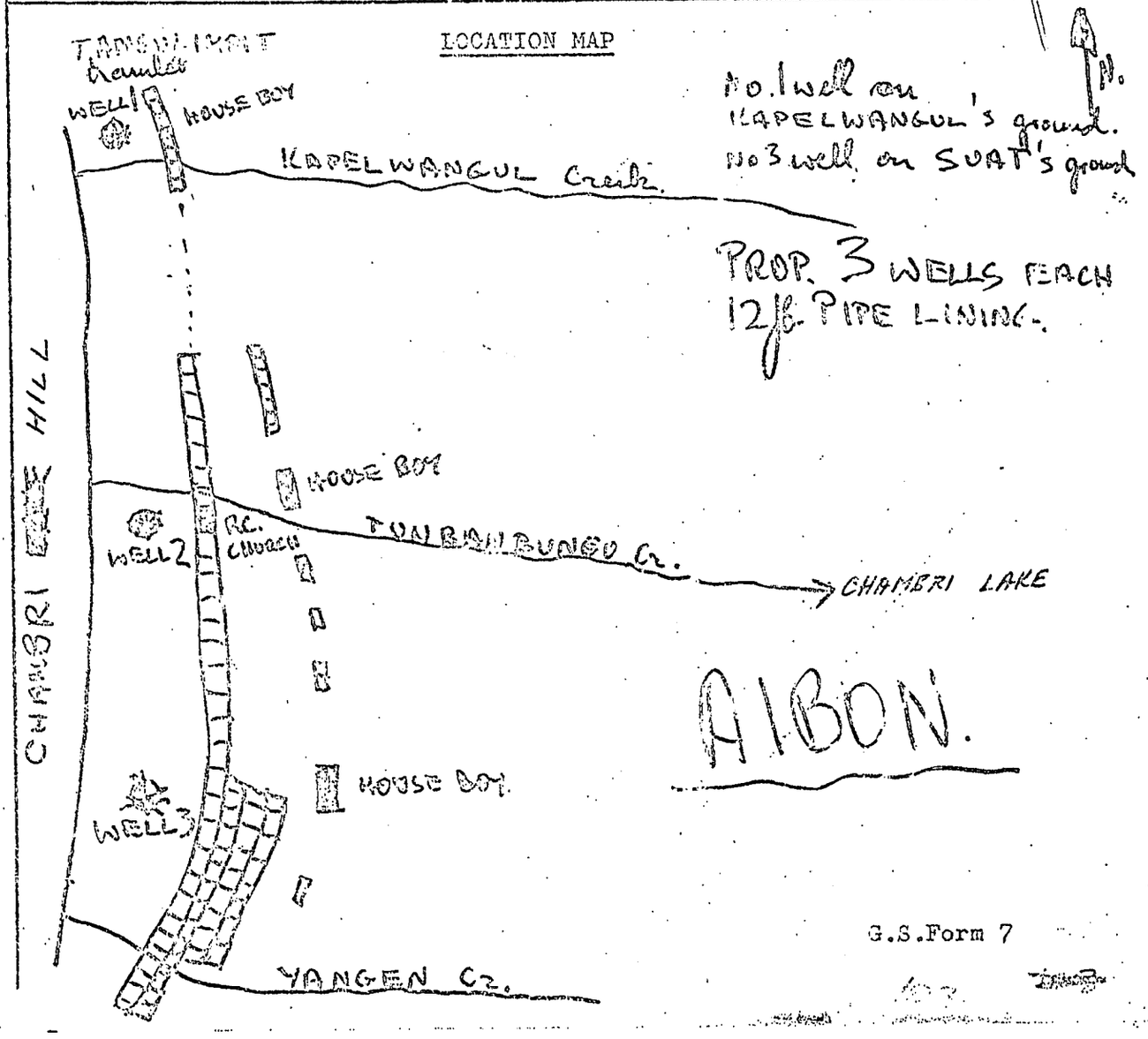
ALTERNATIVE SCHEME .....

.....

PRIORITY .Second..... Signed ..J.R.L. Read.... Date .22/11/66

Film 12, photos 7(Site 2), 8(Site 3) & 9(Site 1).

LOCATION MAP

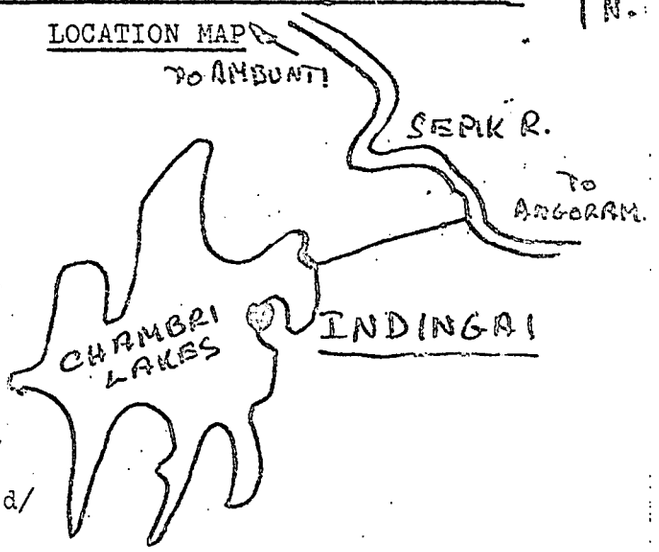


G.S.Form 7

SURVEY OF VILLAGE WATER SUPPLIES ...EAST SEPIK.....DISTRICT

VILLAGE ....INDINGAI.....
COUNCIL ...Gaui.....
CENSUS DIVISION ..Chambri Lakes...
SUB-DISTRICT .....Ambunti.....
POPULATION ..242.....
ACCESS Sepik River & Abbom Barat.
.....
~~MEMBER~~/COUNCILLOR ..Yanbumbe -...
.....Walinagwan.....
WATER USE - Domestic/Government School/ Mission/Mission School/Hospital/First Aid/ Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

RAINFALL .....65.....
WET SEASON From ..Oct... to ..March
TYPE Small streams in hill behind village.
DISTANCE FROM VILLAGE ..50 yds.....
TRANSPORT ..Track.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION .....Nil.....
REMARKS .....
.....
.....
.....
DRY SEASON From .April... to .Sept.
TYPE .... As above.....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP

G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES: ...EAST SEPIK.....DISTRICT

VILLAGE ..INDINGAI.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ..Well between houses belonging to SUI & MORIS. ..at base of Wegli creek & above high tide level.....

DISTANCE FROM VILLAGE ...Central.....

ACCESS .....Track.....

SITE KNOWN TO.....Yambunbe.....

TYPE OF AQUIFER ...Sandy alluvium.....

DETAILS OF SCHEME ..Standard sanitary well. 4 pipes. Fibreglass.....

.....

.....

.....

MATERIALS REQUIRED ...As per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

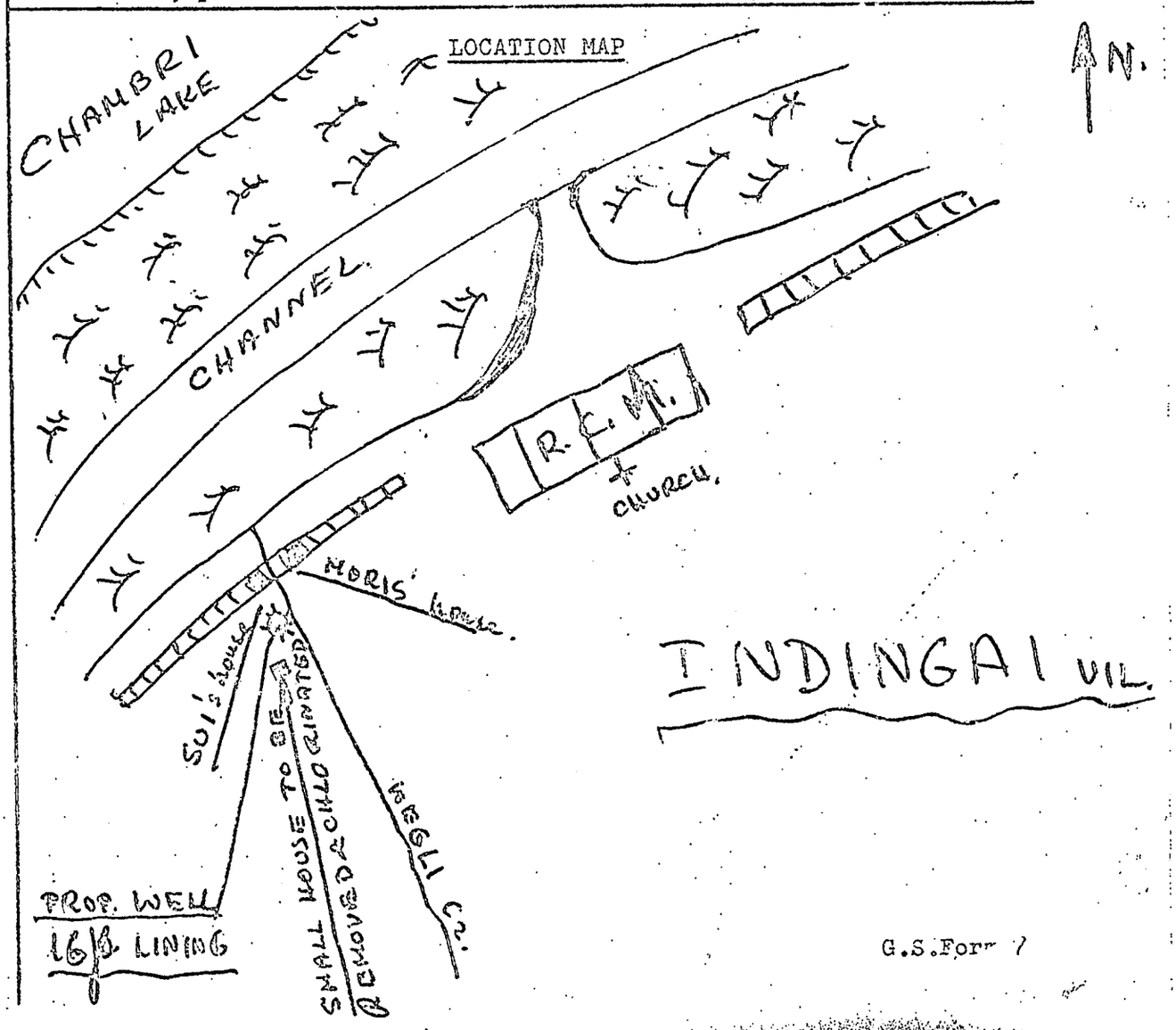
ESTIMATED COST ($) .....140.....

ALTERNATIVE SCHEME .....

.....

PRIORITY .Second..... Signed .J.P.L. Reed..... Date .22/11/66.

Film 12, photos 10 & 11.



G.S.Form 7

SURVEY OF VILLAGE WATER SUPPLIES ...EAST SEPIK.....DISTRICT

VILLAGE ...ARIJONE.....

COUNCIL ...Gaui.....

CENSUS DIVISION ...Chambri Lakes.

SUB-DISTRICT ..Ambunti.....

POPULATION .85.....

ACCESS .Chambri Lake.....

.....

~~HEADMAN~~/COUNCILLOR .Kobundimi -..

.....Nvaurengai.....

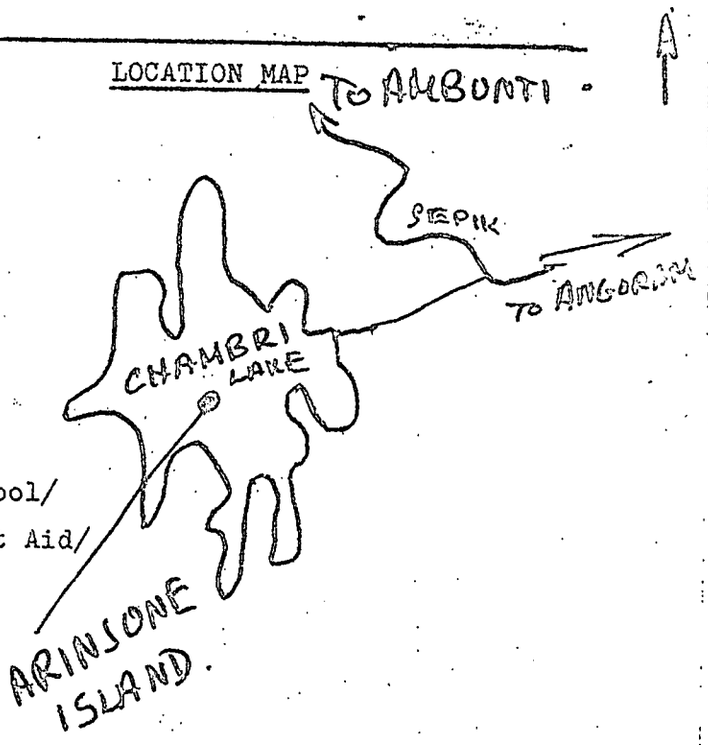
WATER USE - Domestic/Government School/ Mission/Mission School/Hospital/First Aid/ Stock/Irrigation

PROJECTED DEVELOPMENT .....

.....

ESTIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

RAINFALL .....85.....

WET SEASON From .Oct.... to .March.

TYPE ....Cham bri Lake.....

DISTANCE FROM VILLAGE .....

TRANSPORT .....

YIELD/RATE OF FLOW .....

QUALITY - Chemical .....

Bactereological .....

PROTECTION ....Nil.....

REMARKS .....

.....

.....

.....

DRY SEASON From .April... to Sept..

TYPE ...As above.....

DISTANCE FROM VILLAGE .....

TRANSPORT .....

YIELD/RATE OF FLOW .....

QUALITY .....Chemical .....

Bactereological .....

PROTECTION .....

REMARKS .....

.....

.....

LOCATION MAP

G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ..EAST SEPIK.....DISTRICT

VILLAGE .ARIJONE.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ..Well located between houses belonging to.. .....~~NAMAN~~ ....GAWI & MANGAN.....

DISTANCE FROM VILLAGE .Central.....

ACCESS ...Track.....

SITE KNOWN TO.....

TYPE OF AQUIFER .Alluvium.....

DETAILS OF SCHEME ..Standard sanitary well. 4 pipes. Fibreglass.... ..Pipes to protrude 4 feet above ground level.....

.....

.....

MATERIALS REQUIRED .....As per standard drawing.....

.....

LABOUR REQUIRED .....Local.....

SUPERVISION .....Local.....

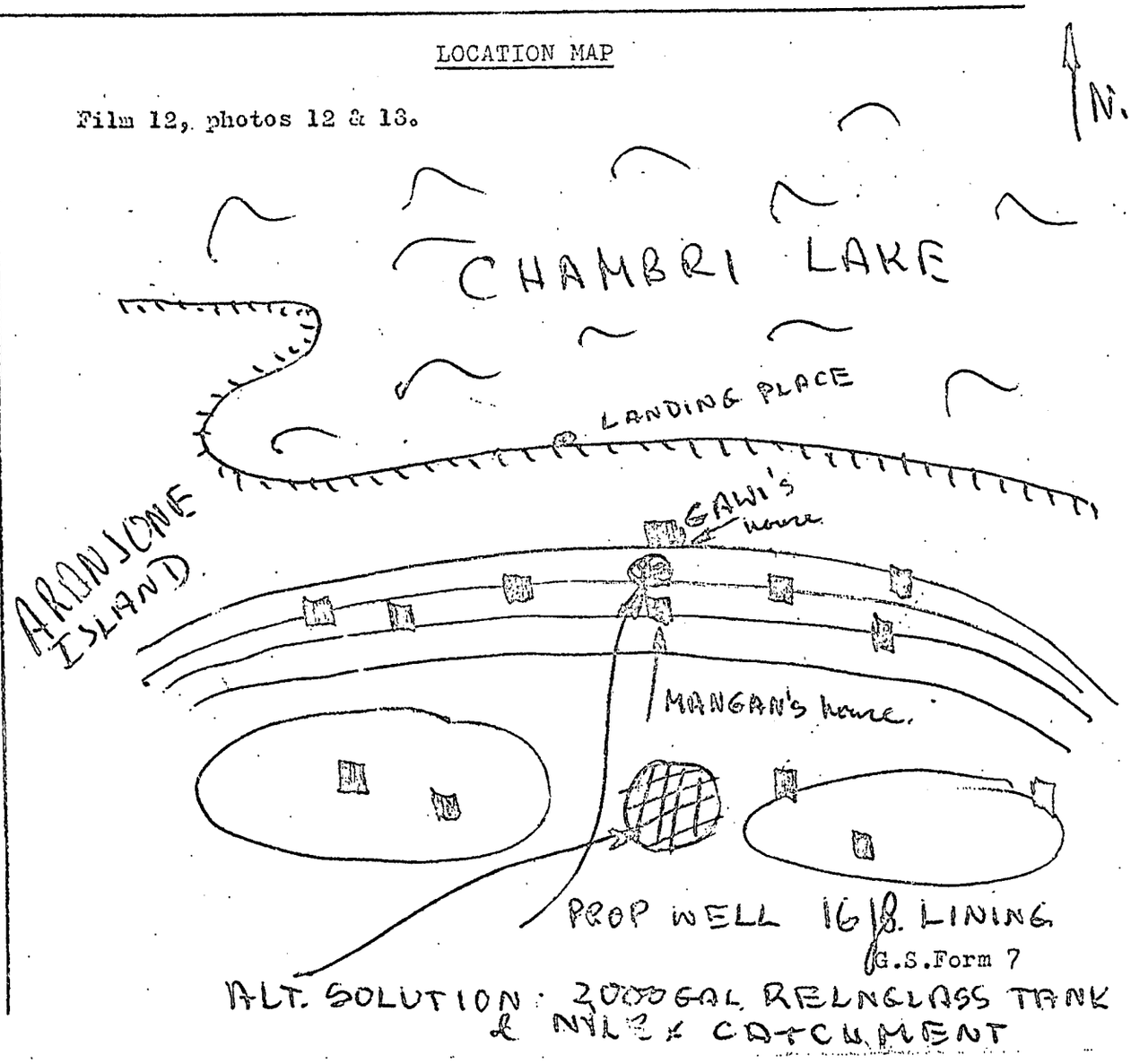
ESTIMATED COST ($) .....140.....

ALTERNATIVE SCHEME If hard, schistose bedrock encountered at shallow depth at well site replace with 1, 2000 gal. storage tank & Nylex catchment

PRIORITY .Second..... Signed J.R.L. Read..... Date ..22/11/66

LOCATION MAP

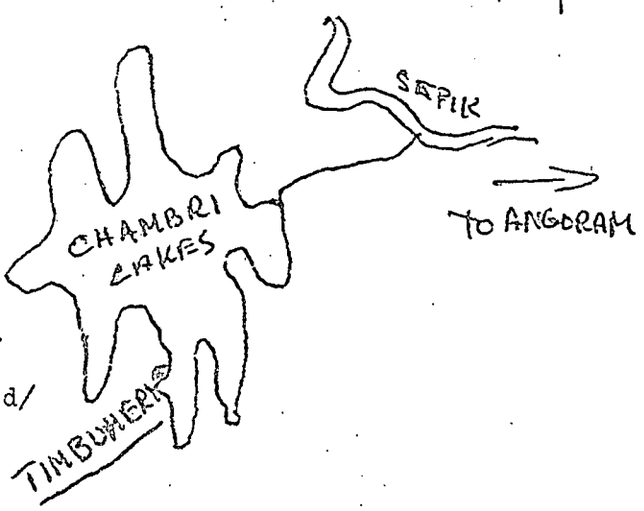
Film 12, photos 12 & 13.



SURVEY OF VILLAGE WATER S[illegible]IES ...EAST SEPIK.....DISTRICT

VILLAGE ...TIMBUNERI.....
COUNCIL ...Gaui.....
CENSUS DIVISION ..Chambri Lakes..
SUB-DISTRICT ...Ambunti.....
POPULATION ....179.....
ACCESS ..Chambri Lake.....
.....
~~HEADMAN~~/COUNCILLOR .Wangi - Meipel.
.....
WATER USE - Domestic/Government School/ Mission/Mission School/Hospital/First Aid/ Stock/Irrigation
PROJECTED DEVELOPMENT .....
.....
ESTIMATED DEMAND .....

LOCATION MAP



PRESENT SUPPLY

RAINFALL ...65.....
WET SEASON From .Oct.... to .March
TYPE Small stream behind village....
DISTANCE FROM VILLAGE 150 yds.....
TRANSPORT ..Track.....
YIELD/RATE OF FLOW .....
QUALITY - Chemical .....
Bactereological .....
PROTECTION ..Nil.....
REMARKS .....
.....
.....
.....
DRY SEASON From .April... to ..Sept.
TYPE .....
DISTANCE FROM VILLAGE .....
TRANSPORT .....
YIELD/RATE OF FLOW .....
QUALITY .....Chemical .....
Bactereological .....
PROTECTION .....
REMARKS .....
.....
.....

LOCATION MAP

G.S. Form 6
(Rev. 22/8/66)

SURVEY OF VILLAGE WATER SUPPLIES ....EAST.SEPIK.....DISTRICT

VILLAGE .....TIMBUMERI.....

RECOMMENDATIONS

TYPE OF RECOMMENDED SCHEME - Pumped/Gravity/Well/Bore/Hydraulic Ram/Rainwater Catchment.

LOCATION OF NEW SUPPLY ..Existing small stream behind village.....

DISTANCE FROM VILLAGE ....150 yds.....

ACCESS .....Track.....

SITE KNOWN TO...MAIBUNGU.....

TYPE OF AQUIFER ...Sandy alluvium.....

DETAILS OF SCHEME .Standard sanitary well. 2 pipes. Fibreglass.....

MATERIALS REQUIRED .....As per standard drawing.....

LABOUR REQUIRED .....Local.....

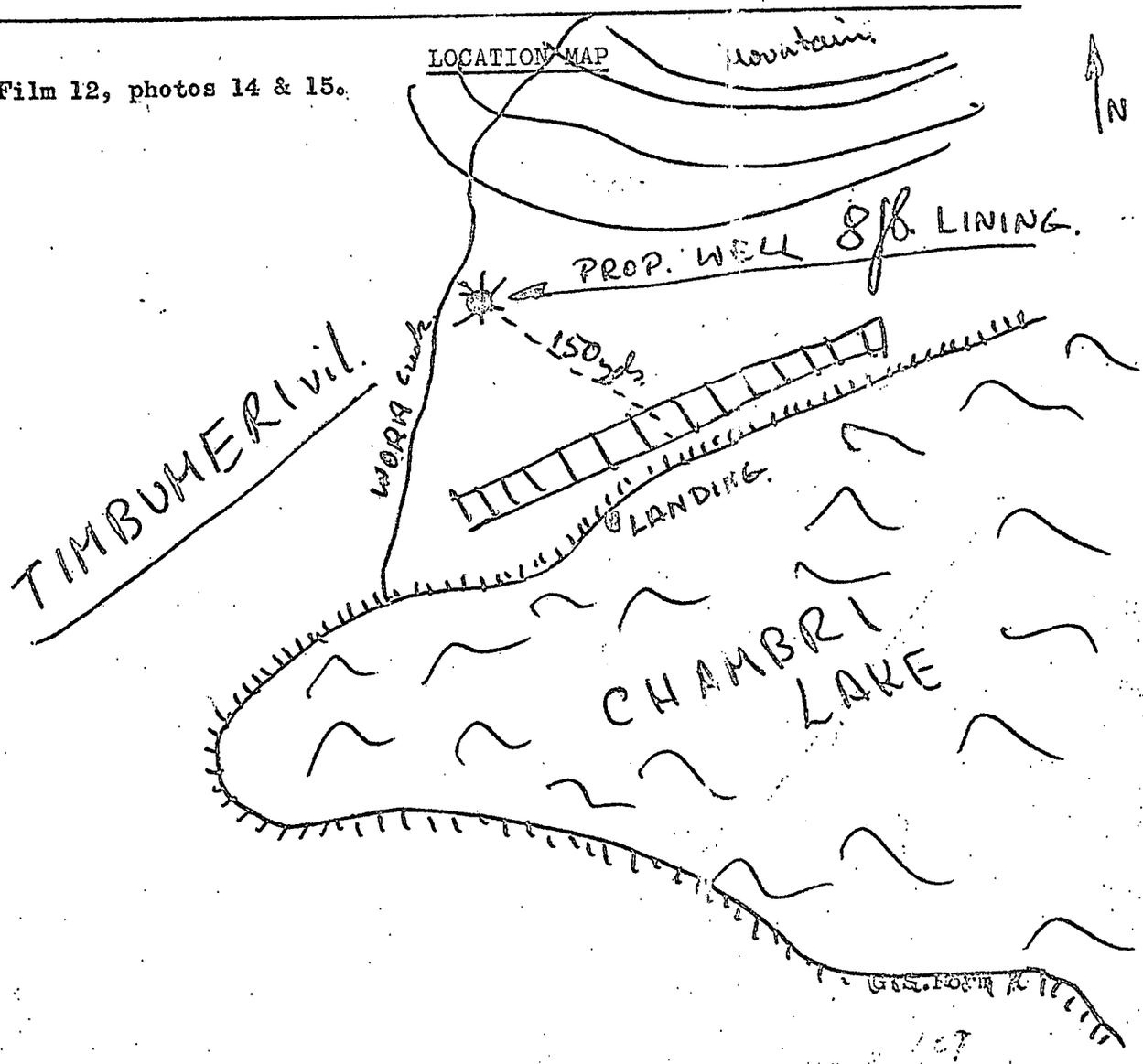
SUPERVISION .....Local.....

ESTIMATED COST ($) .....120.....

ALTERNATIVE SCHEME .....

PRIORITY ....Second..... Signed ..J.R.L. Read.... Date .22/11/66

Film 12, photos 14 & 15.



GIS. Form A

127