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OF PAPUA NEW GUINEA

# PATROL REPORTS

DISTRICT: MOROBE

STATION: Menyamya

VOLUME No: 16

ACCESSION No: 496.

1971 - 1972

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# Papua New Guinea Patrol Reports

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1 10 = 1971/72	1-10	M.L. MACKELLAR DO	KATAPIT TO MENHAMYA VIA MUNENG.	MAP PHOTO	4 8 -71 - 14 - 8 - 71	
2 205 197/72	1-8	L.SAYER APO	WAPI CENSUS DIVISION	MAP	8.11-71 - 10.12.71	
[3] 3 OK 1971/72	1-10	M. MAEKELAR ADC	WAPI CENSUS DIVISION.	PHOTO	N.A.	1
4 4 04 1971/12	1-5.	1. V. KNOX APO	WEST & SOUTH WEST CENSUS DIVISION		N.A.	
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[ASE I]	37		1			
[7]: of 1971/12	1-9	R. P. MORKISON P.O	LOWER KAPAU/ NANIMA & KAPPU-KABO	MAP	168.71 - 3.9.71	1
[8] 20F 1971/12	1-10	6			20.9.71 - 5/10.71	
[9] 30x 17/1/2	1-23	I. D. CAMBRON APO	LANGIMAR CENSUS DWISION	1744	8.4.71 - 12.11.71	
[1] \$ 0 F 1/2 1/2	1-9	R. P. MORIGISON PO	ASEKI-SCATE CREEK ROW ROUTE	MAP	15.11.71 - 18.11.71	1
[1] 5 05/1971/72	1-5	I.D. CAMERON APO	KAPU-KABU CONSUS DIVISION	~	6.12.71 - 1.2.72	1
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[4]8/02 1971/72	1-6	I. J. comeron	MANT KAPANI- KABU CENSOS DIO	MA	27.3.12 - 30.3-72	
[15] 9 5x 1971/2	1-5	R.P. MORRISON P.O	REPORT AT DISTRICT HQ.		N.A.	
	111				,	1

[Original reports filed with Menyamya 1971/72]

PATROL REPORT OF: ASEK! ACC. NO: 196

OL. NO: 9 : 1971/1972 | NUMBERS OF REPORTS: !/

REPORT NO.	FOLIC	OFFICER CONDUCTIN	VG	AREA PATROLLED	MAPS/ PHOTOS	PERIOD OF PATROL FIG	THE NO.
[1] 1-71/72 [2] 2-71/72 [3] 3-71/72 [4] 4-71/72 [5] 5-71/72 [6] 6-71/72	1-9 1-23 1-9 1-5	MORPISON . R. P.  CAMERON . I. D I  MORKISON . R. P.  CAMERON . I.D	PO. PO. P.O. P.O.	ASEKI-MENYAMYA ROAD  KAREEBA INDINI C. DIVISION  LANGIMAR C. DIVISION  ASEKI SLATE CREEK ROAD  PART KAPAU/KABU C. DIVISION  LADT HOMBELLALANI	MAP MAF	16.8.71 - 3.9.71 20.9.71 - 5.10.71 8.11.71 - 12.11.71 15.11.71 - 18.11.71 6.12.71 - 1.2.72	
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	94						

# MOROBE DISTRICT

# PATROL REPORTS

# 1971 - 1972

# MENYAMYA

Report No.	Officer Conducting Patrol	Area Patrolled
1-71-72	M.L. MACKELLAR	Kaiapit to Menyamya via Mumeng. Slate Creek & Aseki.
2-71-72	L. SAYER	Eapi C.D.
3-71-72	H. MACKELLAR	Wapi C.D.
4-71-72	I.V. KNOX	West & South West C.D. Report at District H.9.
5-71-72	L.D. SAYER	Northern C.D. Report at District
6-71-72	I.V. KNOX	Report at District H.Q.
	ASEKI	
1-71-72	R.P. MORRISON	Lower Kapau/Manima & Kapau-Kabu C.D.
2-71-72	R.P. MORRISON	Kareeba/Indiwi C.D.
3-71-72	I.D. CAMERON	Langimar C.D.
4-71-72	R.P. MORRISON	Aseki-Slate Creek Road Houte. Watut L.G.C.A.
5-71 72	I.D. CAMERON	Kapu-Kabu C.D.
6-71-72	R.P. MORRISON	Handei & Nanima C.D.
7-71-72	R.P. MORRISON	Polyu Road of Kapua/Nanima C.D.
8-71-72	I.D. CAMERON	Part Kapau-Kabu C.D.
9-71-72	R.P. YORRISON	Report at District H.Q.
0-71-72	I.D. CAMERON	Report at District H.Q.
11-71-72	P.D. OATES	Kapou/Eabu C.D.



## TERRITORY OF PAPUA AND NEW GUINEA

# PATROL REPORT

District of MOROBE Report No. 1 of 1971/72
Patrol Conducted by M. L. MACKELLAR ( District Officer)
Area Patrolled KATAPIT to MENYAMYA via MUMENG, SLATE GREEK and ASERT
Patrol Accompanied by Europeans I.V.KNOX (A.P.O.)
Natives Const. CMBA No. 2494
Duration—From. 4 / 8 /1971 to 14 / 8 /1971
Number of Days
Did Medical Assistant Accompany?NO
Last Patrol to Area by-District Services 27/4/19.71
Medical /19
Map Reference See attached Map
Objects of Patrol. 1. Familiarization with road route.  2. Opening of Stock Route to MENYAWY.
Director of District Administration, PORT MORESBY.
Forwarded, please.
/ / 19 .  District Commissioner
Amount Paid for War Damage Compensation \$
Amount Paid from D.N.E. Trust Fund \$
Amount paid from P.E.D.P. Trust Fund

DEPARTMENT OF THE EDMINISTRATOR P.O. BOX 2396, KONEDUBU

31st December, 1971

The District Commissioner, Morobe District, of the advistmentales

> MENYAMYA PATROL NO. 1 of 1971/72 BENE

Your reference 67-2-5 of 10th November, 1971

Report by Mr. M.L. Mackeliar A.D.C. of parts of Kalapit, Jumeng and Menyanya sub-districts

A brief report of a successful and unique

and appearance at were

D.I.E.S. for appropriate action. plants to destruction, while annotes to a

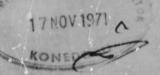
Market See Committee

one report to anteresting and well a katenbankes



DEPARTMENT OF THE ADMINISTRATOR

Telegrama
Telephone
Our Reference............................; calling ask for



In Roply

No. 67-2-5

Morobe District,

10th November, 1971.

The Secretary,
Department of the Administrator,
KONEDOBU

The District Chapter was, District Office, 145

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Property of the second

MENYAMYA PATROL REPORT NO. 1 - 1971/72
MR. M.L. MACKELLAR, DISTRICT OFFICER

Herewith please find two copies of the report. This patrol was unique in that it escorted the first horses into the Manyamya area. No real problems were encountered in the journey but I feel it should be pointed out that Mr. Mackellar is an experienced hand in the movement of livestock. The care and attention given to the animals on this patrol was a good example to local people in the management and novement of livestock.

It is unfortunate that in some other parts of this
District the popular image of the cowboy has been construed
as one who shouts at and abuses animals to dispair and
rampage. This image is cast in American films. As a result
of this popular image some local cattle owners have been
observed to drive their beasts off cliffs' edges. The local
herdsmen then stand and stare bewildered as the animals
plunge to destruction, quite unable to understand such
extraordinary behaviour.

The report is interesting and well documented with photographs.

a/District Commissioner

the attenues Case.

M. L. MATTERLAND



#### TERRITORY OF PAPUA AND NEW GUINEA

In Roply Please Quote

Department of the Administrator,

Sub-District Office, MENYAWYA, Morole District, 1 st U tober 1971

The District Commissioner, District Office,

MODERNOON SECTION

## MENYANYA PATROL REPORT NG. 1 OF 1971/72

Herewith the above report tegether with claims for camping allowance for Mr. Knoz and myself.

Station : MENYAMYA
Sub - District : MENYAMYA
District : MCTOBE. Council

Patrol Conducted By Designation Area Patrolled

Personnel Accompanying Duration was at the tree

Date In Last D.D.A. Patrol to the Area Sects of Patrol

chomical road country of a more the approved took wasted we have the medical coverables process to

THE STREET OF TH

Population of the area Map Reference . See attached Maps.

- MADTAM COUNCIL ( WATUT COUNCIL )
  - : M. L. MACKELLAR.
- . DISTRICT OFFICER.
- \* TAILAPIT to MENYAMYA via AURING. SLATE CREEK POAD and ASSEL.
- : I.V.KNOI A.P.J. Const. OMBA No. 2494
- : Kleven Days.
- 4 4th August 1971.
- : 14th August 1971.
- : APPIL 1971.
- : 1. Pamiliarization with
  - road route. Opening of Stock Route to MENYAMYA:
- : 3572

M.L. MACKELLAR
Assistant District Commissioner. The second of the second second second second second

#### SPECIAL REPORT

The purposes of this patrol were to familiarise myself with the proposed road route to Wau and to pioneer a stock route to Menyamya.

- 2. The patrol was arranged to coincide with my transfer from Xaiapit to Menyamya, for what better way is there for an ADC to see his new Sub-District than to walk through it.
- 3. Considerable interest was shown in the second object of the patrol both by the Lutheran Mission at Menyamya and the Catholic Mission at Kaintiba in Papua. Both missions are interested in encouraging cattle projects amongst the protein starved Kukukuku but until somebody discovered a stock route there was no way in which the store cattle could be moved out of the area except by prohibitive air freight.
- 4. Apart from a few minor mishaps the patrol discovered that the existing walking track to wau is with a few alterations a suitable stock route, and the patrol brought two horses overland to prove it.
- 5. A major obstruction to the stock route was a ragged cliff face at Angabena where previously pedestrian traffic had been forced to scale a series of steep ladders some one thousand feet bighor than the cliff bottom below. The howses were unable to climb these ladders and the patrol was halted for three days while a track was cut around the cliff. This track, now known as the Angabena Bypass has since become the popular alternate route to the ladders and will become part of the motor road to was.
- 6. Like a candle burning at both ends, the road to wau is being built from both ends at the same time, because time is against us. Part of the proposed route passes over what must be the roof of New Guinea. From the tops of nearby peaks on a clear morning one can see the Gulf of Papua on one side and the Huon Gulf on the other. The route winds up towering mountain walls and down into plunging ravines and through the most tangled mountain terrain I have ever seen. Our first glimpse of the Tauri valley in the heart of the Eukukuku country was like a travelogue of the Andes. Yet this rugged mountain vastness will defeat us, because with the resorces now available to us it is unlikely that we will complete the motor road before self government overtakes us.
- 7. It is unlikely that an independent government will continue to allocate the same degree of effort and funds to maintain roads such as these because their cost performance ratio is unfavourable. Our race against time is therefore to build as much of this road as possible before funding stops. As we will never get the whole road built within the life of the next House of Assembly it appears to me that it would be in the best interests of the people through whose land the proposed road passes, if we were to encourage them to build the sort of road which we know they can cope with long after the central government ceases to supply funds for it. That is to say, a good, well formed bridle path which can take livestock, bicycle, and motorcycle traffic in all seasons.
- 8. With this in mind I propose to encourage the construction of this sort of road which can be widened to take vehicular traffic if funds continue, but will nevertheless be still useable if they do not, on the grounds that if the worst happens, any road is still better than none.

MMachel M.L. Mackellar

Assistant District Commissioner Menyamya.

# PATROL DIARY

4-8-71	AM.	Prepared for the departure of patrol. Horses loaded and patrol departed KAIAPIT at 1000 hrs by vehicle for MUMENG.
	PM.	Non stop to MUMENG and arrived at 1430. ADC Mackellar held talks with ADC Cook. Cvernight at MUMENG.
5-8-71	AM.	Departed MUMEND at 0800 and arrived Golden Pines saw mills at 1000. Unloaded horses. APO Knox to PAROROA by vehicle to establish camp and to arrange for carriers. ADC Mackellar proceeded along the Slate Creek road with the two horses.
	PM.	Camp established and ADC Nackellar arrived at 1800. Overnight at PAROROA.
6-8-71	AM. PM.	Departed PAROROA at 0900 for MENYI village. Arrived MENYI at 1400. Overnight at MENYI.
7-8-71	AM. PM.	Departed MENYI at 0900 for ANGGALE village. Arrived ANGGALE at 1430. Slight mishap en route - one horse fall from the mountain track. Overnight at ANGGALE.
8-8-71	AM. PM.	Departed ANGGAIE at 0830 for HIAKWATA village. Arrived HIAKWATA at 1530. Overnight at HIAKWATA.
9-8-71	AM. PM.	Departed HIAKWATA at 0830 for ANGABENA village. Arrived ANGABENA at 1430. Another mishap en route when one horse fell through a bridge. 1530 APO Knox departed to survey a suitable track to by-pass the vertical ladders. Unable to find a suitable route and returned ANGABENA at 1800. Overnight at ANGABENA.
10-8-71	AM.	ADC Machellar inspected the ANGABENA by-mass for suitableroute to connect ANGABENA with the ASEKI/WAU road. APO Knox checked other walking tracks in the area. None found to be suitable. ADC. Mackellar inspected road gangs and talks
1		held with village officials re the construction of a by-pass road. Overnight at ANGABENA.
11-871	M.	APO Knox to ASEKI for discussions with the OIC and to replenish supplies. ADC Mackellar worked with new road gang on the construction of the by-pass.
	PM.	APO Knox returned at 1415. Assisted with road work. Half the road completed. Overnight at ANGABENA.
12-8-71	M.	Road construction continued from \$800 to 1700.
13-8-71	AM. PM.	0800 to 1200 by-pass road completed. Patrol moved from ANGABENA to the ASEKI/WAU road road camp. Overnight at load camp.
14-8-71	AM. PM.	Departed road camp at 0900 for MENYAMYA.  Arrived MENYAMYA at 1900.

END OF PATROL

Map of: MENYAMYA SUB-DISTRICT Morobe District by I.V.Knox, APO. Eastern Highlands District Legend Roads Proposed Roads -Territorial Boundary x Nelamoi Mountains Scale. 1 inch : 5 miles, approx. · Yuwakupa Patrol Route -11135 ft. Concordia , Himerka MENYAMYA Kapo Katan Nenewe Langimar Sikwong Oterei Gulf Benula District PAPUA KAINTIBA MARIANDINA ASFKI Hiakwate Poiyu Kobakini Slate Crock Road Hogeneiwa . Mungo Paivi a 5 m. Kabu Poawa Tyeiwata Angobio Yelaua Wambogini



Kukukuku and horse see each other for the first time. Horse not impressed.



AFO knox ruge the horses for the night.



Horses rations were carried in a Patrol box and served in this manuer.



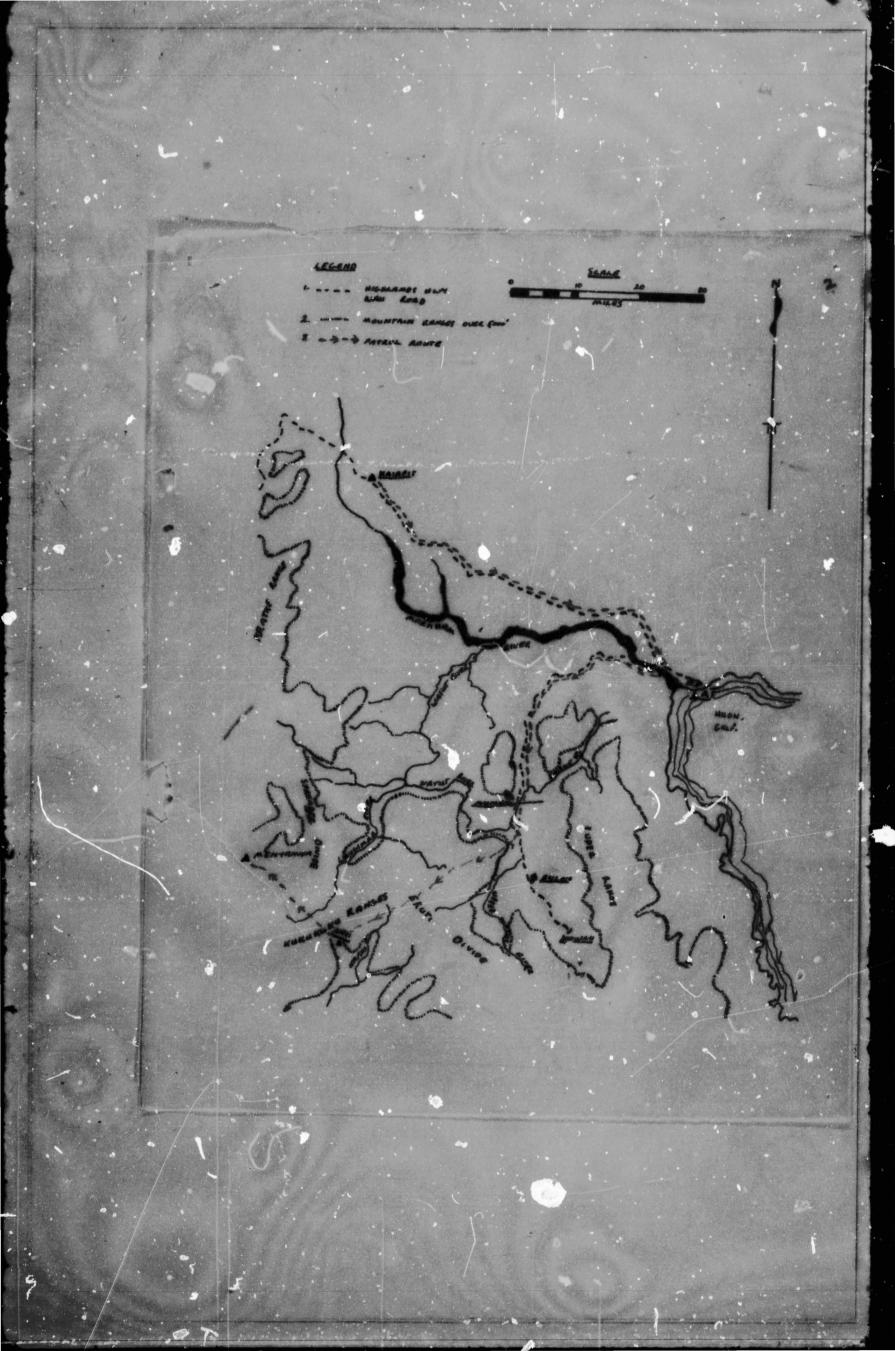
Negotiating a narrow mountain track.



The Angabena By-Pass



Patrol arrives at the Motor Road head at Angalena, 25 miles from Menyamya.



#### P.O. Box 2396 - Ko. efobu

67-6-43/25-2-6

18th January, 1972

The District Commissioner Horobe District

### MINIMANYA PATROL NO. 2 of 1971/72

Your reference 67-2-5 of 6th January, 1972.

I seknowledge with thanks receipt of a Report by MR. L. SAYER A.P.O. of the Wepi Census Division.

Copies of patrol instructions terminate at your headquirters as do routine patrol reports. My 67-1-0 of 25th November, 1971 refors.

Mr. Sayor should have prepared a Situation Report concisely detailing the current state of the read following his work. Other situation reports would cover any other observations made which would be of value at this level (if applicable).

Whilst still in the experimental stages this bridging technique should not be too widely extended, especially on larger streams, as a mass failure would cause considerable loss of goodwill. Caution is indicated.

(S.J. PEARSALL)

158A 67-6-43 TO THE HIEMS ADMINISTRATOR DEPARTMENT 7 JAN 1972 Morobe District, 6th January, 1972. The Secretary, Department of the Administrator, CONZDOBU MENYAMYA Patrol Report No. 2 - 1971/72 Mr. L. Sayer, Assistant Patrol Officer Herewith two copies of a report by Mr. Sayer. This report is an account of field work between November and December when Mr. Sayer was engaged on read construction and maintenance. No specific Situation Report is attached but whatever information was of importance was passed to the A.D.C. regularly as the patrol was in constant communication with the station. Comments by the Assistant District Commissioner are attached. It remains to be proved over time and with the given conditions, that the porous "leaking dam technique" bridges will withstand washout. Mr. Sayer applied himself well to the job and he is to be complimented for the results achieved. THE PART SHOW trickers of war are live to a section field that is the remitally, its one bent the two with the training R. Gallowky)

District Commission District Commissioner THE PARTY OF THE P Mr Marco Alid or Model Alexand



## DEPARTMENT OF THE ADMINISTRATOR

In Reply Please Quote

No. 124

Sub-District Office, Meny anya, Morobe District

25th December, 1971.

The District Commissioner, Morobe District, LAE

Subject:

MENYAMYA PATROL No. 2 - 71/72.

Please find attached three copies of the report of the above patrol and camping allowance claims.

- 2. The work carried out by this patrol w as an interesting experiment. For years in this Sub- District we had been building bridges with inferior timber, the only sort of timber we have, when in all that time in the creeks we were bridging, lay an untapped potential in stone.
- 3. On 27th October, 1971 whilst in Lae for the Liquor Inquiry I discussed this matter with the Professor of Engineering at the Institute of Technology, Professor E.M.Laurenson. He thought we could bridge with stone, and he gave me a few rules of thumb to follow.
- 4. Mr Sayer on this patrol applied these rules and as a result, the first 14 miles of the Menyamy a- Kaintiba road has 112 stone bridges of various sizes, but mostly less than 6 feet in length. I built the last five bridges and the last two miles of road myself, to see how the system was working.
- 5. Results speak for themselves. The road cost only \$50 per mile and none of the bridges took more than one day to build. The largest bridge cost \$10. Since the patrol started, only 6 inches of rain has fallen, but all the bridges have withstood the flash fleeding which followed every dow npour. I believe we have discovered the secret of building cheap sturdy bridges and I propose to build stone bridges along the Menyamya W an road early in the new year. I am convinced, particularly after the recent fatal accident along that road, that the stone bridge is the only answer to the existing maintenance problem.

6. Mr Sayer did an excellent job during this patrol.

(M.L.Mackellar) Assistant District Commissioner.

Man



## TERRITORY OF PAPUA AND NEW GUINEA



Telegrams
Telephone
Our Reference...
If calling ask fo

In Reply Please Quote

No.

Department of the Administrator.

Sub-District Office, Menyamya, Morobe District

6th November, 1971

Mr Assistant Patrol Officer, L.Sayer, Menyamya

Subject:

MENYAMYA PATROL No. 2 - 1971-72.

Patrol Instructions

This is a special patrol, with the sole object leang the reconditioning of the Menyamya - Kaintiba road.

- 2. Please begin this patrol on 8th November, 1971 at the Menyamya end of this road by reconditioning this road to motor cycle standard and by working progressively down the road towards Papua.
- 3. Please recruit a labour line in the manner to be shown to you by Mr ADO Connor on the first day of the patrol, and be guided by him in all matters of labour management and road construction.
- 4. With the exception of the ford across the Wapi River, all the creeks, culvets and drains you encounter along the road and to be bridged with stone, using the leaking dam method. Under no circumstances are timber bridges to be built without my consent. You must be present as each bridge is built to ensure that the labour is used properly and the bridge is build sensibly.
- 5. Please record in your Field Officers Journal the work you do each day. Where you bridge a creek, record the name of the creek, and where you repair a section of road identify that section sufficiently in your journal. Also please record the number of men who appear for work each day and if they are being paid wages or piece work.
- 6. To begin with you may travel to and from the road head each working day, but if you do so you must still complete a full day's work on the road each Monday to Friday. That is to say, you must complete at least seven hours work on the road each lay, whatever times you use. Please record in your journal the actual times you work on the road each working day. Wherever p ossible, working times should suit the labour line, given that they also must complete seven hours work each working day. Thus, if they prefer to work from 6am to 1pm and have the rest of the day off, please arrange for this.
- 7. When travelling time to and from the road head each day becomes a burden, you should move onto a road camp. You should move this camp progressively down the road from time to time to be reasonably close to the centre of readwork activity, at all times.
- 8. All disputes and inquiries and complaints which are brought to your notice should be referred to this office in a friendly manner. You should also adopt a friendly manner in your dealings with all land owners along the road because it is inevitable that some damage will be caused to adjoining land during the construction of bridges and other road workings, so if you must damage, do it in a friendly manner, and if you are able to forecast what damage is likely at any given place along the road, discuss it first with the land owner.

9. From time to time you will be recalled to the station for other duties. When this happens you should record this in your journal. Immediately the other duties are complete, you should return to your roadwork without further instruction. 10. This patrol will end when this road has been reconstructed to motor cycle standard and when the reconstructed section reaches a big rock face which blocks the road about four miles past Watuma village. Please then return to station duties and submit a patrol report in the usual form. I wish you a pleasant patrol. (M.L'.Mackellar) Assistant District Commissioner.

Report Number: 3 of 1971/72.

Objects of Tatrol: Reconditioning of Menyamya-Kiantiba Road.

District :

Morobe.

Station:

Patrol Conducted by: L.D.Sayer. A.P.O. Sub District :

Menyamya.

Area Patrolled: Menyamya-Wientica Road. Designation: Assistant Patrol Officer.
Wapi Census Division.

Dudation of Patrol: 825 Newsmber 1971 to Personnel Accompanying: Nil 10 th December 1971.

Last D.D.A. Patrol.:

February 1971.

Number of Days:

25

Last O, L.G. Patrol:

Nil

Total Population of area.: 1759

Map Reference: Fourmil of Wan.

Council Area:

N11.

House of Assembly Electorate: Menyamya.

The District Commissioner, Morobe District.

In respect of this patrol, I attach
Field Officers Journal, Folios 7 to 10
Patrol Instructions
Inc Report and My Comments
Area Study
Updating of Area Study
Situation Reports
Patrol Man Patrol Map

hte: 20/12/71

Assistant District Commissioner,

The Secretary Department of the Administrator Division of District Administration Konedobu . Papua.

In respect of this patrol I attach Area Study, Updating of Area Study, Situation Reports No's 1-

JAN 1972

District Headquarters Assessment of Patrol and Report....

Above Average. Average. Below Average.

District Commissioner.

## Patrol Report No. 2 of 1971/72.

Station: Menyamya.

Officer Compiling: L.D.Sayer, A.P.O.

District: Morobe

Sub-District: Menyamya.

Census Division: Wapi

L.G.Council: Nil.

The sole purpose of this patrol was the reconditioning of the previously completed section of the Menyamya-Kiantiba road up to a point approximately 4 miles past the village of Watama, and about 12 miles from Menyamya station, with special emphasis on the construction of stone bridges using the 'leaking dam' technique. All of the existing worden bridges were in a rotten and unsafe condition thereby rendering the road impassable to vehicular traffic.

- 1. The general topography of this section of the road is as follows. It branches off the Menyamya-Aseki road about 1/4 mile from the station and descends to the Wapi river; a by-pass road and ford crosses the river and connects with the main road. The road then follows the river south along the Tauri valley. It gradually climbs to a point about 6 miles from Menyamya and thems diverges east into the Watama valley. It skirts the Northern side of the Watama valley for about 4 miles until it reaches Watama village and then returns in a Westerley direction along the Southeern side of the valley, will climbing gradually. The point reched by the patrol is about mid-way along the Southern side of the valley. The road is of motor-cycle width and averages 6-8 feet.
- 2. In accordance with patrol instructions a labour line was recruited from the neighboring villages. No difficulty was experienced in obtaining labourers which indicates a degree of local interest in the presence of the road.
- Work was commenced justing village labour, on 9th November, 1971, at a soint about 2 miles from Menyamya and just opposite Heagus village. This section had been left untouched during the construction of the original road for approximately 300 yards and the road continued on the other side. Bridges had been replaced, a ford constructed erross the Wapi river, and the road generally repaired up to this point during the preceding fortnight by myself using Station and Corrective Institution labour.
- 4. For the first few days I travelled from Menyamya to the work-site on a daily basis; however, this soon became impractical and I found camping out to be more convenient. I operated from 3 camps during the patrol; the first at Hengwa village, the second at Yai river-about 3 miles past Hengwa, and finally from Watama village, in all camping out for 16 nights. I returned to Menyamya each Friday afternoon and resumed the patrol again on the Monday mornings.
- 5. During the 5 working week duration of the patrol, approximately 10 miles of road was cleared, all existing worden bridges were replaced with stone, approximately 300 yards of new bench-cut road was made and the existing road widened whose necessary. In all, 10? stone bridges were constructed; of these 31 were large (for purposes of classification large being over 6 feet in length and/or depth), and 76 small (below this size). The large bridges were mostly across creeks and some large culverts, the small over smaller culverts and drainage ditches. The largest being up to 20 feet long and/or 10 feet deep.

....2.

A 7 hour working day was maintained, starting at 7 am and finishing at either 2 or 2.30 pm depending on the preferences of the labourers for a half-hour or hour lunch-break. Organised in groups of villages on a roster basis, each group was intended to work mr a fortnight at a time. The first group-from Hengwa, Wiama, Kwakape and Kainye villages -numbered 97 men and you the, the secong group-from Watama, Anjua, Pekapoinyl and Katanga villages-numbered 115 men and youths, and the third group(again from Watama, Anjua and Katanga due to the cooseness of the work site to these villages) numbered 142. This last group however, contained about 60 boys and 27 women.

- 7. The labourers were quick to grasp the principle of this kind of bridge construction and rapidly became adept at man-handling large stones using crow-bars, levers and lians-ropes. The 'leaking dam' technique of bridge construction seems admirably suited to local conditions as it requires only stones of varying sizes as the building material, of which there is an abundance in this area. This method, consists of building a base of large stones-which allows the water to flow through the gaps between and under them-and adding stones of diminishing size or toptime, this being again top-dressed with earth or gravel. Swaller bridges are built by making a series of archways to form a tunnel which is also covered with earth. I feel that teaching the local people to construct this type of bridge is an educational gain which could be of considerable use to them in the future.
- 8. As extensive rains fell in the area whilst I was walking on several occasions I was able to assess the strength of the bridges under stress. All held, and although the top-dressing was dislocated in some cases, all remained passable. Where the volume of water became too great then it simply spilled over in a steady flow. The bridge however generally remained quite passable.
- 9. I did not reach my original objective, the rock barrier about 4 miles past Watama village, as I was ordered to return to the station by Mr.A.D.C. Mackellar on 10th December; at this time the work had progressed to a point about 2 miles past Watama, approximately 2 miles short of the rock barrier. Thus the patrol commenced on 8th November, 1971 and finished on 10th December, 1971, and consisted of 25 patrol days.

REDS 2017 / 7.2

L.D.Sayer. \ Assistant Potrol Officer.

## PATROL REPORT

REPORT NUMBER: 3-71/72
DISTRICT: Morobe

PATROL CONDUCTED BY: M.L.Mackellar, ADC SUB-DISTRICT:

AREA PATROLLED Kaintiba Road

DURATION OF PATROL: 5 days
LAST D.D.A. PATROL: 10/12/71

LAST O.L.G. PATROL: nil

MAP REFERENCE: Map attached

OBJECTS OF PATRO: Road Construction

STATION: Menyamya

SUB-DISTRICT: Menyamya
DESIGNATION: ADC

PERSONNEL ACCOMPANYING: G.C. Connor, ADO

NUMBER OF DAYS: 25

TOTAL POPULATION OF AMEA: 1759

COUNCIL AREA: nil

The Edstrict Commissioner, Morobe District, LAE

In respect of this patrol I attach

FIELD OFFICERS JOURNAL, FOLIOS 22 TOX

PATROL INSTRUCTIONS,

THE REPORT AND MY COMMENTS,

AREA STUDY,

UPDATING OF AREA STUDY,

SITUATION REPORTS NO'S. 1
PATROL MAP,

Photography of a stone orders

Photographs of a stone culvet, and various....
scenes and points of interest on the Kaintiba road.

DATE: 25/1/1972

Assistant District Commissioner

The Secretary,

Department of the Administrator,

Division of District Administration,

KONEDOBU. Papua

In respect of this patrol, I attach

AREA STUDY,

UPDATING OF AREA STUDY,

SITUATION REPORTS NO'S. 1 - ,

STOWN CALVERTY.

()

DATE: / /19

Pistrict Commissioner

P.O. Box 2396. KONEDOBU.

67-6-56

15th March, 1972.

The District Commissioner, Morobe District, LAE.

# MENYANYA PATROL NO. 3 OF 1271-72.

Your reference 67-2-5 of 28/2/72.

I acknowledge with thanks receipt of the Situation Report arising out of the above Patrol of the Wapi Consus Division, together with the appropriate assessment, as at litted by Mr. M. Mackellar, A.D.C.

I hope that Mr. Mackellar's enthusiasm is justified.

The photographs provide a very good idea of the technique and the difficult country involved.

(T.W. ELLIS) Secretary.

DA767-6-56



### DEPARTMENT OF THE ADMINISTRATOR

67-2-5

Morobe District,

28th February, 1972.

The Secretary,
Department of the Administrator,
KONEDOBU

the some one in this deliver

Patrol Report MENYAMYA No. 3 - 1971/72
Mr. M. L. Machellar, Assistant District
Commissioner.

(Situation Report - Road Construction)

Report on road construction (stone culverts) and photographs by Mr. Mackellar are forwarded.

The road under construction is the MENYAMYA KALATIBA Road. Initially it is being constructed to a
moter cycle/livestock standard only. If the economy
and social standards of the residents justify
improvements at a later date, then the road can be
upgraded.

The report deals particularly with the construction of stone culverts. The method of construction is new to the area and I believe that it remains to be proved over a period of time that the culverts will sustain flooding, bleckage and washout. The trial is certainly worth the effort and cost as fimber bridges and culverts have proved to be most insecure.

#### SITUATION REPORT NO. 1

Station: MENYAMYA

Officer Compiling: M.L.Mackellar, ADC

District: Morobe.

Sub- District

: Menyamy a.

Census Division: Wapi

L.G.Council

: Nil.

Subject:

STONE CULVETS

This matter is reported because of its Territory wide significance, but more particularly, for its application in remote inland areas where funds are scarce and airfreight on building materials is considerable. I am sure it is of considerable economic importance that we have discovered a method of bridging creeks at no cost at all.

- 2. For years in this Sub-District, we had been building bridges with inferior timber, the only sort of timber we have, when in all that time in the creeks we were bridging, lay an untapped potential in stone.
- 3. While in Lae for the Liquor Inquiry on 27/10/71, I discussed this matter with the Head of the Department of Engineering at the Inistitute of Technology, Professor E.M.Laurenson. He thought we could bridge with stone and he gave me a few rules of thumb to follow.
- 4. We applied these rules and as a result, the first 14 miles of the road to Kaintiba has 112 stone culvets, of varying sizes, most less than 6 feet in length the largest of these culvets cost us \$10, and that cost was for labour only. Activated the cost mothing, because the only material we used we; what we could find in the creeks. In areas where Road Maintenance Rules supply free labour, these culvets would cost nothing at all.
- 5. On prose of this exercise was to show the people, that bridges can be built wit tools, nails, cement, steel, timber or money. All that is required is brawn brain.
- 6. The attracked photographs show a creek before a culvet is made and after it is made. Stones from the creek were simply relected by size and shape and looked together like a jigsaw puzzle in an arch formation. To give an even road s Face, the top of the structure was then paved with gravel from the creek bed.
- 7. None of the materials in this culvet can rot, rust, wear or decay, and we have learned build culvets which will last forever, at no cost at all.

(M.L.Mackellar) Assistant District Com

missioner.

Macell.

Map of: MENYAMYA SUB-DISTRICT Morobe District by I.V.Knox, APO. Legend Eastern Highlands District Roads ... roposed Roads -Sub-District Boundary Territorial Boundary Nelamdi Mountains The Kaintiba Road completed to motor cycle standard: Scale. 1 inch : 5 miles, approx. Yuwakupa 11135 ft. Market Waylalin Co Himerka MENYAMYA Kapo Langimar Sikwong Atapauta Gulf District PAPUA Kobakini Slate Creek Road KAINTIBA Hogeneiwa Wau Paiwini 5 m. « Mungo River Peawa Tyeiwata Angobio Yelaua

MOMENTS OF TENDERNESS ON THE KAINTIBA ROAD.



A Kukukuku child discusses the finer points of horses with ADC Mackellar.



A Kukukuku child halts the Patrol - with a gift of food for ADO Connor's horse.

## STONE CULVETS



A creek on the Kaintiba road and workers selecting stones to rearrange into a culvet.

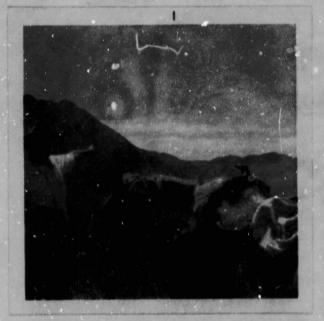


The same creek after the culvet has been constructed. Note that this picture was taken from the same position as the one above with the same rock and the same blade of grass in the foreground.

MENYAMYA PATROL No. 5 - 71/72



Looking towards Menyamya, and five miles from it, part of the Kaintiba road.



ADO Connor puts his finger on the trouble spot; a vertical rock formation intersecting the Kaintiba road 14 miles from Menyamya. The road is open to motor cycle transfic to this point. The blue mountain in the far background is in Papua.



Kukukuku children examine the narrow path blasted across the rock face. 2000 feet below is the Tauri River., flowing into Papua.

JAHAND P.O. Bex 2396, KONEDOBU. 22nd Noy, 1972. The District Commissioner, Horobe District, P.O. Box 572, MENTANYA PATROL NO.4 - 1971/72. I acknowledge with thanks receipt of rotification of the aparel of the VEST and SOUTH WEST Consus Divisions, as submitted Nr. I.V. Knex, Assistant Pats 1 Cfficer. The attached colitary paper was all that was received at this Espaquarters - are there any more abcuments to accompany it? Please forward me an extract from the Patiel Report dealing with the House of Assembly elections. (T.W. ELLIS) .../Shul.



#### PATROL REPORT

DISTRICT: Morobe PATROL CONDUCTED BY: L.D. Sayer DURATION OF PATROL: 16 Days \_\_ ? LAST D.D.A. PATROL: 27.4.71 LAST O.C.G. PATROL: Nil MAP REPERENCE: Fourmil of Wau

OBJECTS OF PATROL: House of Assembly Elect. STATION: Sub-District Office Menyamya. SVB-DISTRICT: Menyamya AREA PATROLLED: Northern Census Div. DESIGNATION: Assistant Patrol Officer PERSONNEL ACCOMPANYING: See Patrol Report NUMBER OF DAYS: 22 -TOTAL POPULATION OF AREA: 5989 COUNCIL ARBA: N/A

The District Commissioner, District,

> In respect of this patrol I astach FIELD OFFICERS JOURNAL, FOLIOS 14 PATROL INSTRUCTIONS, THE REPORT AND MY COMMENTS. AREA STUDY, UPDATING OF AREA STUDY, SITUATION PEPORTS NO S 1 -PATROL MAP,

server that there of the services at corr law and the server server in clima

MTE: 10/4/1972.

Assistant District Commissioner.

The Secretary, Department of the Administrator, Division of District Administration,

In respect of this patrol, I attach AREA STUDY. UPDATING OF AREA STUDY. SITUATION REPORTS NO'S.

DATE: 27/4/1972

District Commissioner.

P.O. Box 2396, KOMEPOBU.

67-6-63.

19th May, 1972.

THE SHOOMER YOUR

The District Commissioner, Morobe District,

The Challenger Constitutions,

## MENYANYA PATROL NO. 5 - 1971/72.

Your unreferenced minute of the 27th April refers.

I soknowledge with thanks receipt of notification arising out of the above patrol of the Northern Consus Division, as submitted by Er. L.D. Sayer, Assistant Petrol Officer.

Would you please forward me the section of the report dealing with the House of Assembly elections which Mr. Seper was involved in.

Also an assessment of the report, i.e., above average/average/ below average.

(T.W. Buils)

ELECT MES.

P.C. Box 2396, TONUDOBU.

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selected was opening

LS AND - 19704

tenden overholke Dan - Miss SPE

3rd August, 1972.

Pistrict Commissioner,
obe District,
. Box 572,

(T. S. BING)

2.03mm/2.00000 产业对象的企业

c.c. The Searchary.

the remaining admir admir admir at the regions of long transfers MENTANYA PATROL NO.6 - 1971/72.

nee your minute 67-2-5 of the 11th July, 1972.

I soknowledge with thanks receipt of notification of the Repebove patrol, as sulvitted by Mr. I.V. Knoz, A.P.O.

Please forward a copy of the report cover for my

Popurtural of the Administrates (T.W. ELLIS)

PONTE N. The patrol resettunces a contrate less a Dut though This sempose the ACTETOMERCANT Free (so a spent offer retiries) which was educat and

year following too enthopse at a bridged no distriction reports arising for of this present

ere coresions,

SALVANIA CONTRADA ACTOR

67-2-5



Herobe District, P.O. Box 572, LAB

11th July, 1972.

The Aspistant District Commissioner, Sub-District Office, HEFTANYA.

Reset but attached.

Patrol Report HENYANYA No. 6 - 1971/72 Hr. I. V. Knox. Assistant Patrol Officer

Receipt of the report by Mr. Knew, your comment and assessment are acknowledged with thunks.

The patrol has completed a project of long lasting value to the community.

I would appreniate ther details of the "Soveral cattle projects whi. are now in existance in the Kapo area."

(G. G. HARDY) a/District Commissioner

Department of the Administrator, KONEDOBU.

The patrol constructed a concrete ford over the Pai River. This respend the ASEKI-MENYAMYA road (to 4 wheel drive vehicles) which was closed last year following the collapse of a bridge.

No situation reports arising out of this patrol are forwarded.

(G. G. HARDY)

a/District Commissioner