

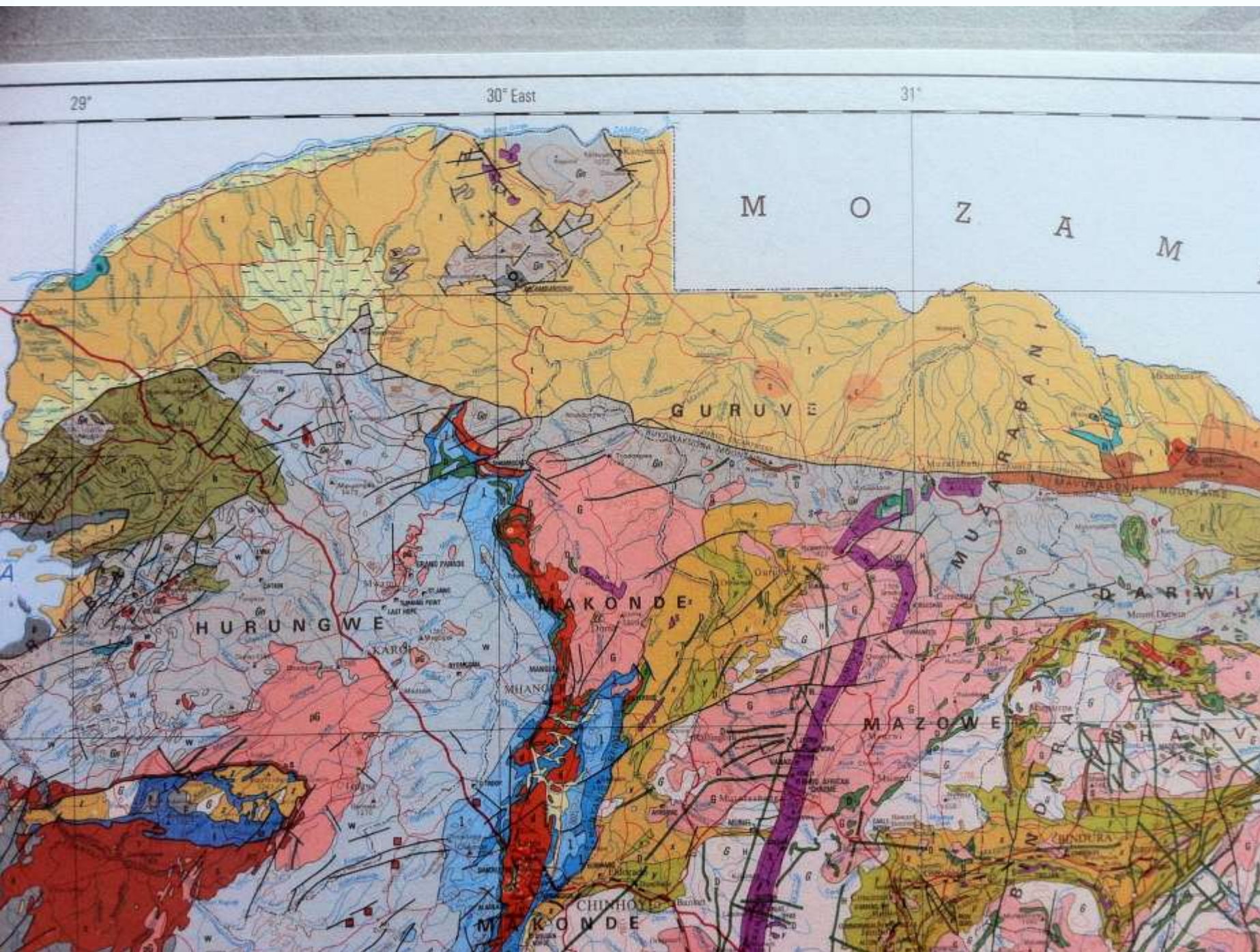
GEOLOGY OF THE CHEWORE INLIERS AND ENVIRONS

by

Peter Fey

Geological Society of Zimbabwe Symposium

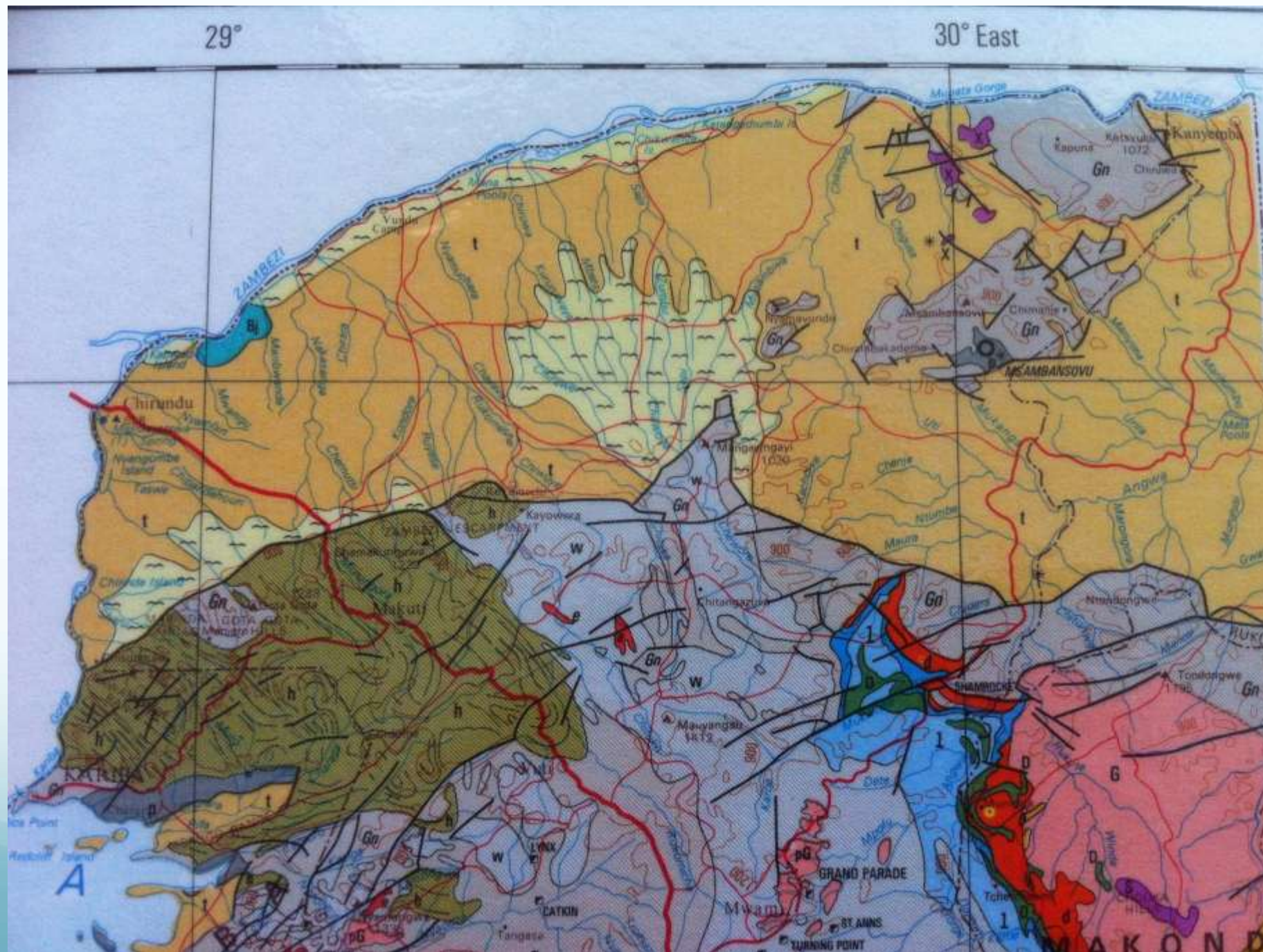
6th September, 2018



ZAMBEZI VALLEY AND ESCARPMENT

GEOLOGY

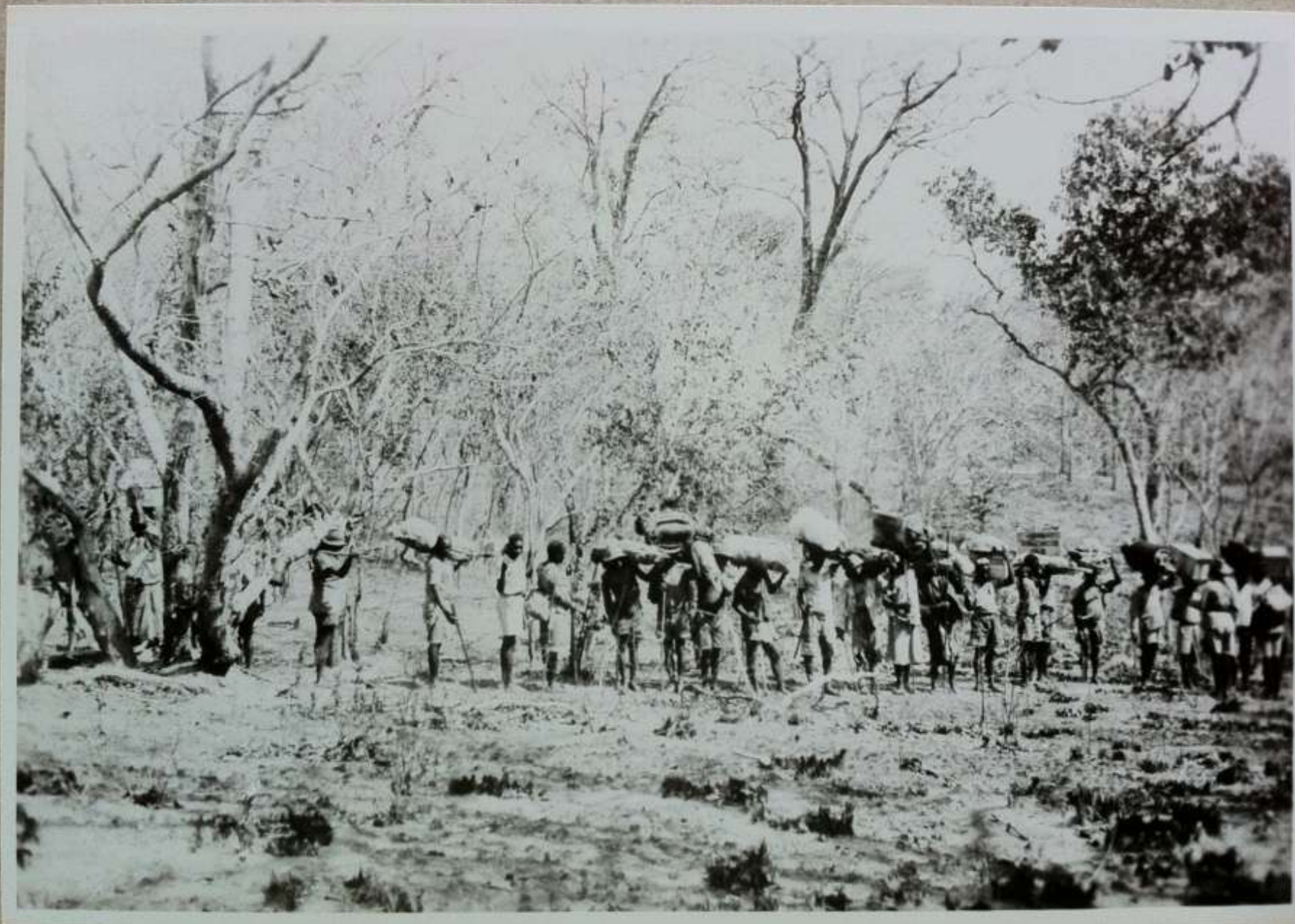
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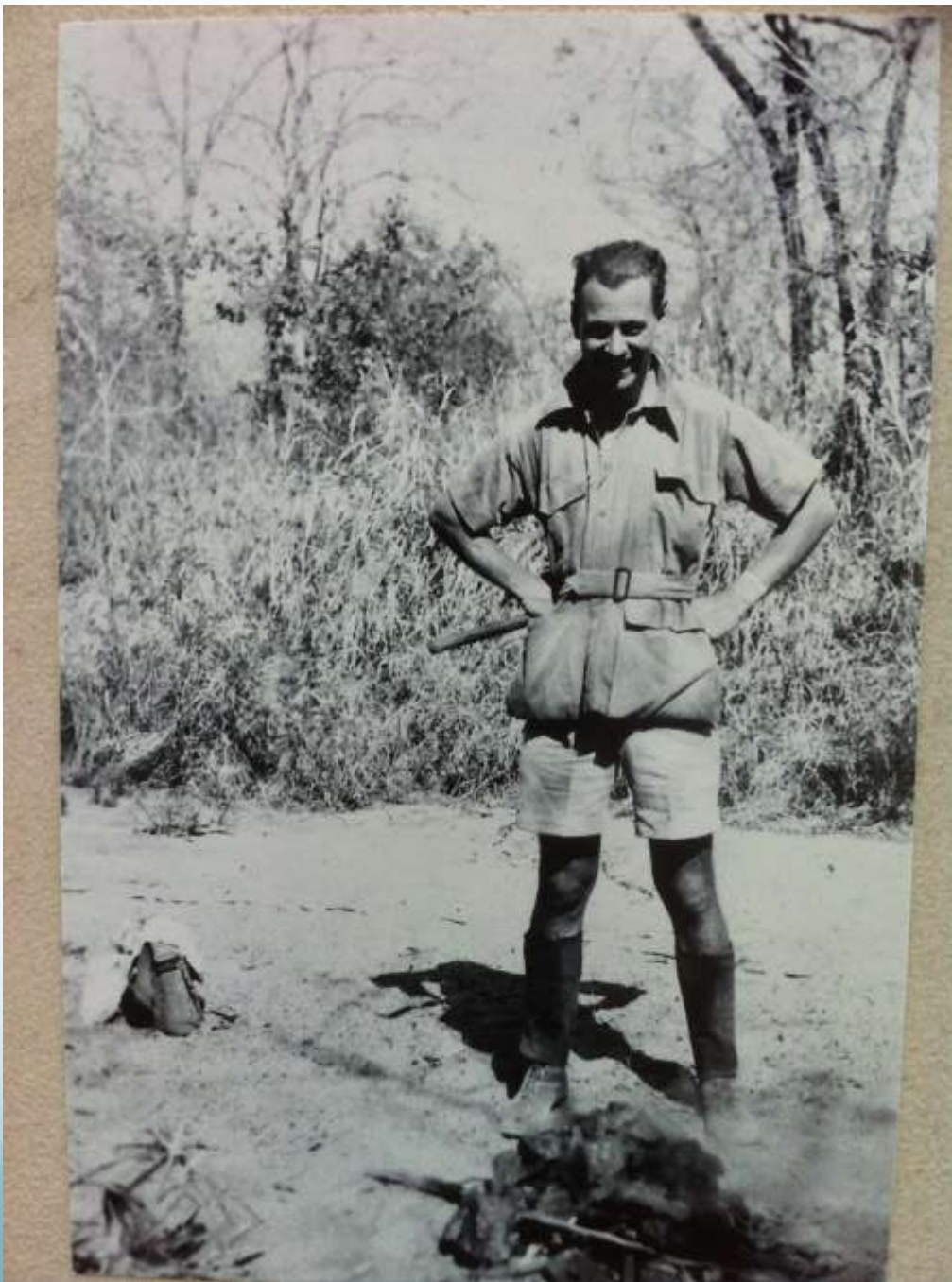
CHEWORE INLIERS

GEOLOGY

1:1 000 000



Bearers on
1937
expedition to
Carlaw's coal
prospect,
Zambezi
Valley



F O S Dobell

On expedition with B Lightfoot to Carlaw's (Msambanzovu) coal prospect in 1937. Test burning of coal in bed of Kabvura River

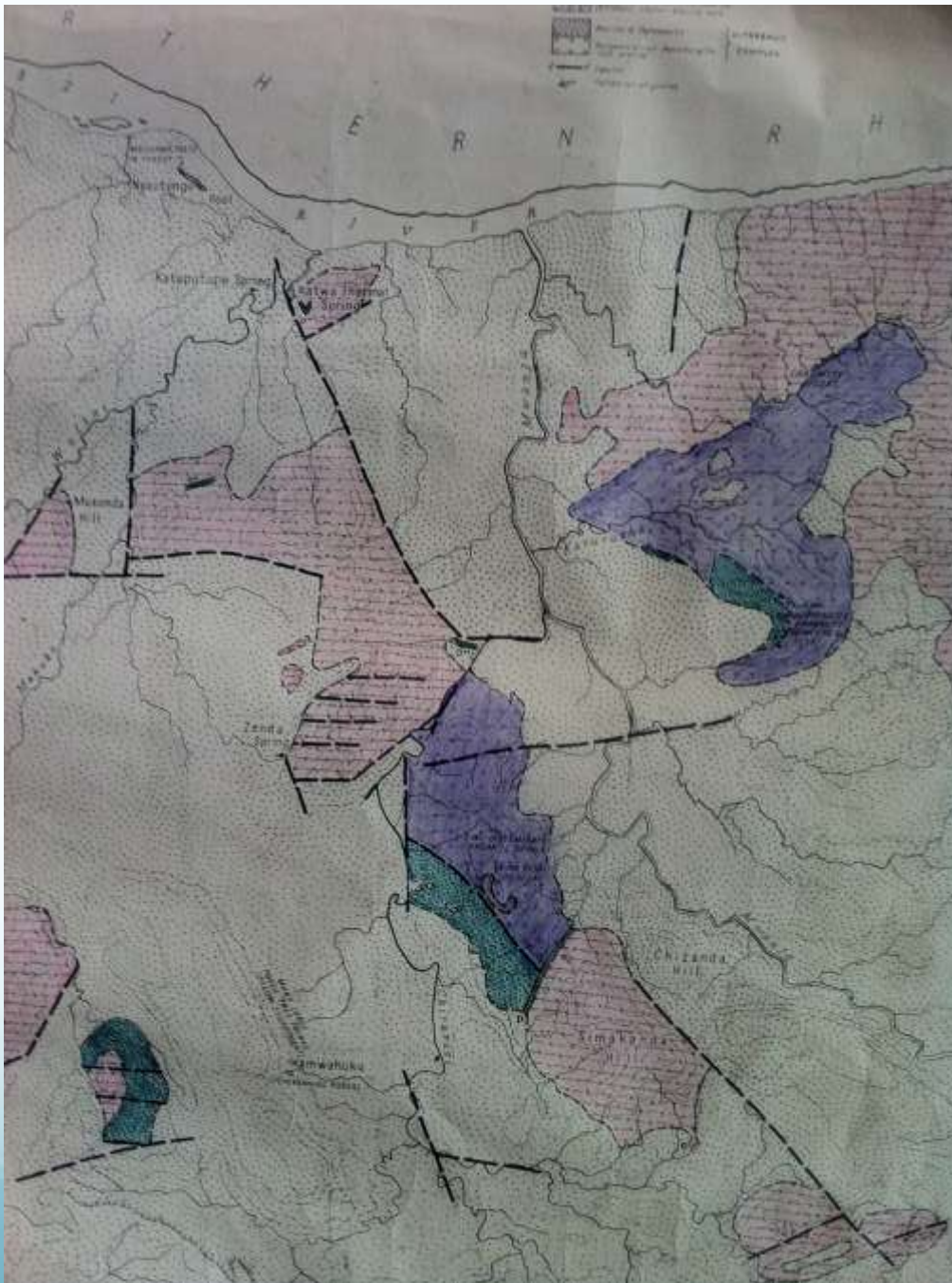


Newby Tatham (left) and John Walter Wiles

“CHEWORE IGNEOUS COMPLEX”

1:50 000

Extract from reconnaissance map by J W Wiles (1955).
Surrounding geology mostly
photo-interpreted





Rhinoceros
(dehorned)

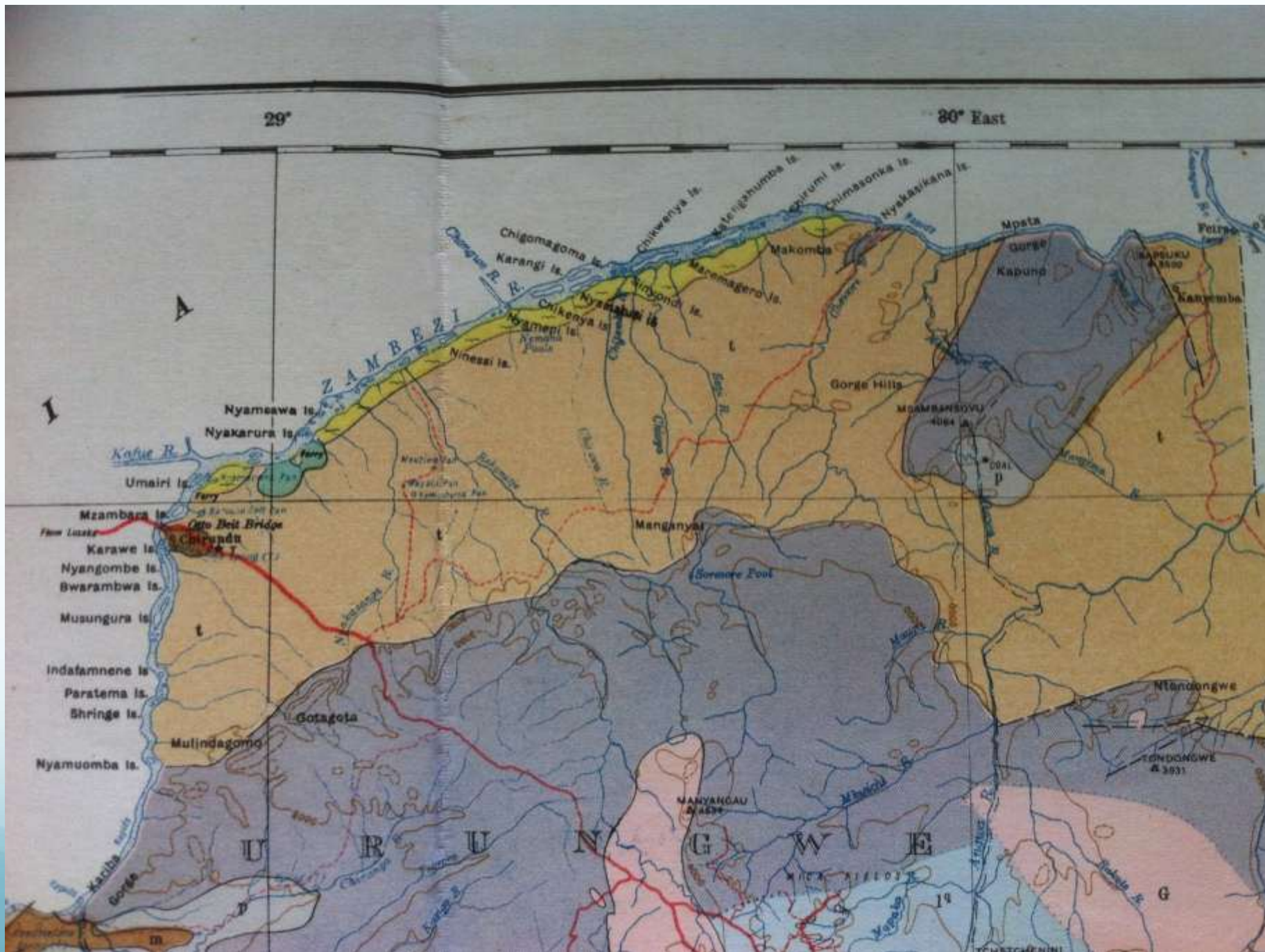
RHODESIA

GEOLOGY

1946 (4th edition)

1:1 000 000

Showing track to
Chewore Mouth,
also Escarpment
Gneisses, and
rough outline of
Chewore Inliers



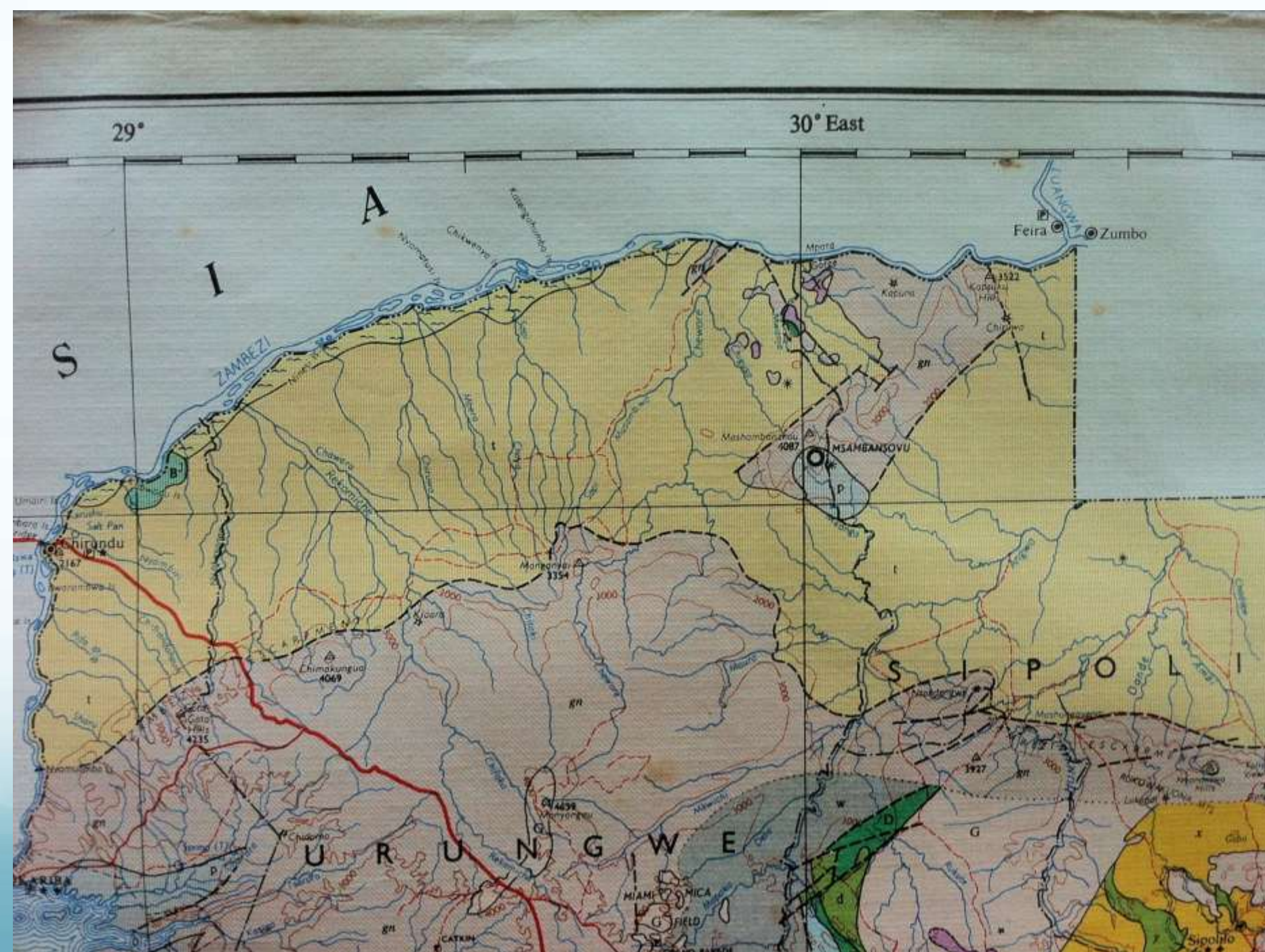
SOUTHERN RHODESIA

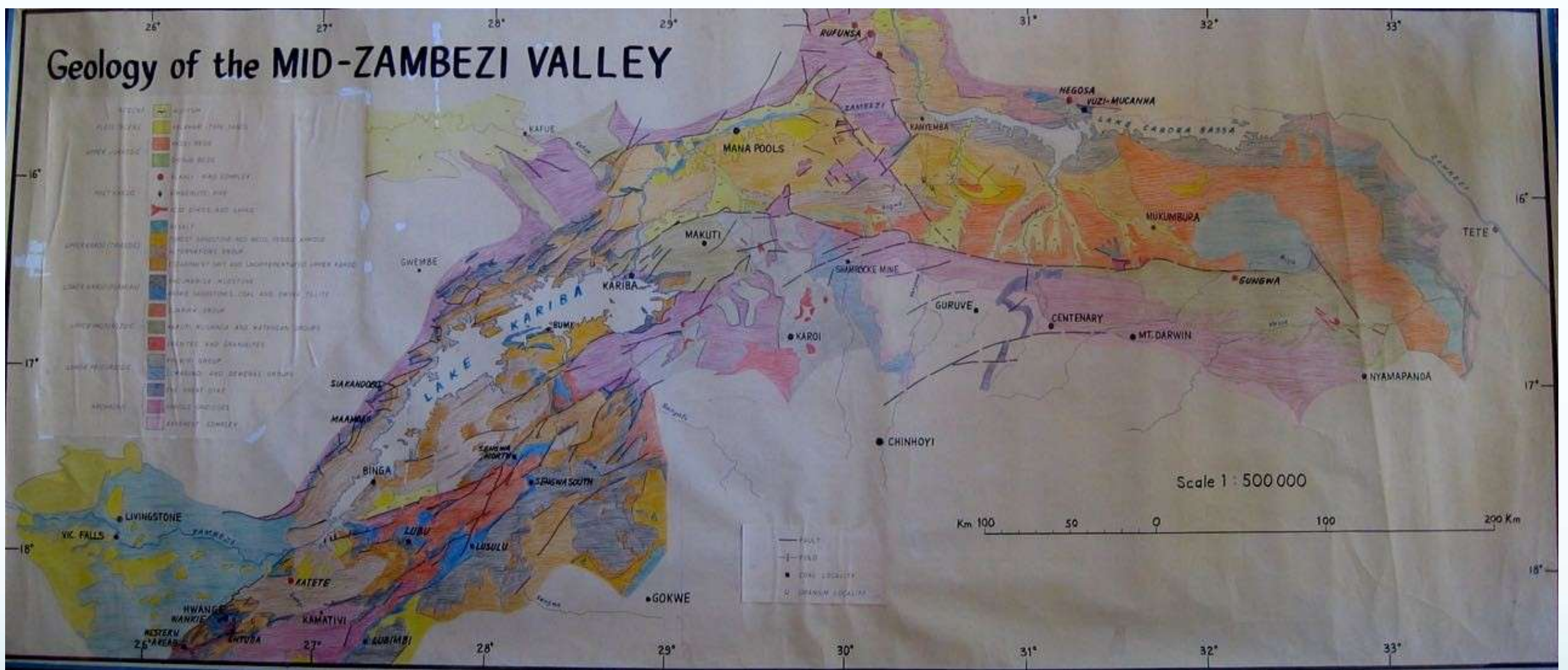
GEOLOGY

1961

5th edition)

1:1 000 000





GEOLOGY OF THE ZAMBEZI VALLEY

1:500 000

Photo-interpretation by T J Broderick (1982)



DANDE WEST

GEOLOGY

1:100 000

Oesterlen. 1998

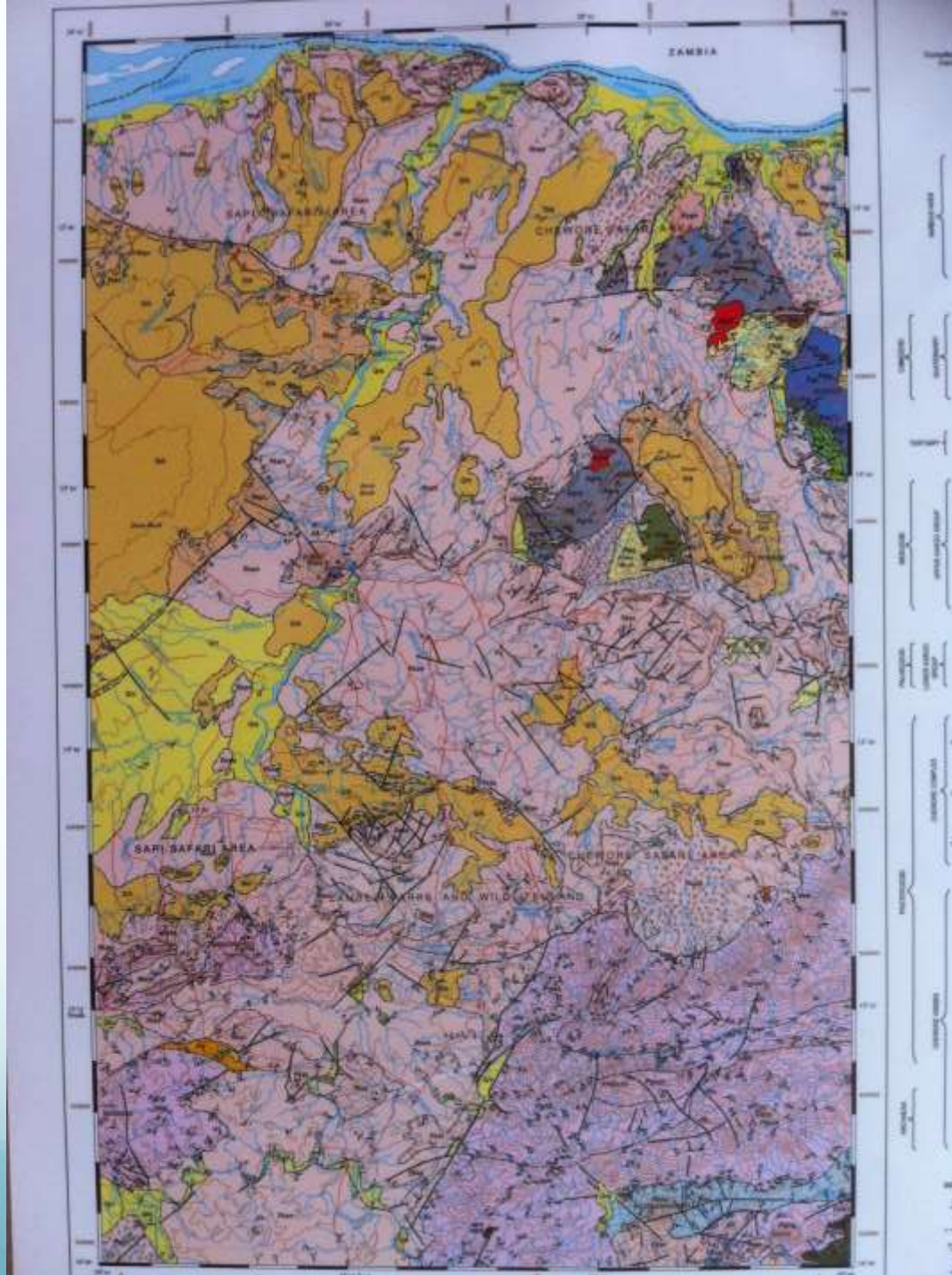


CHEWORE EAST

GEOLOGY

1:50 000

Goscombe and Both (Draft)



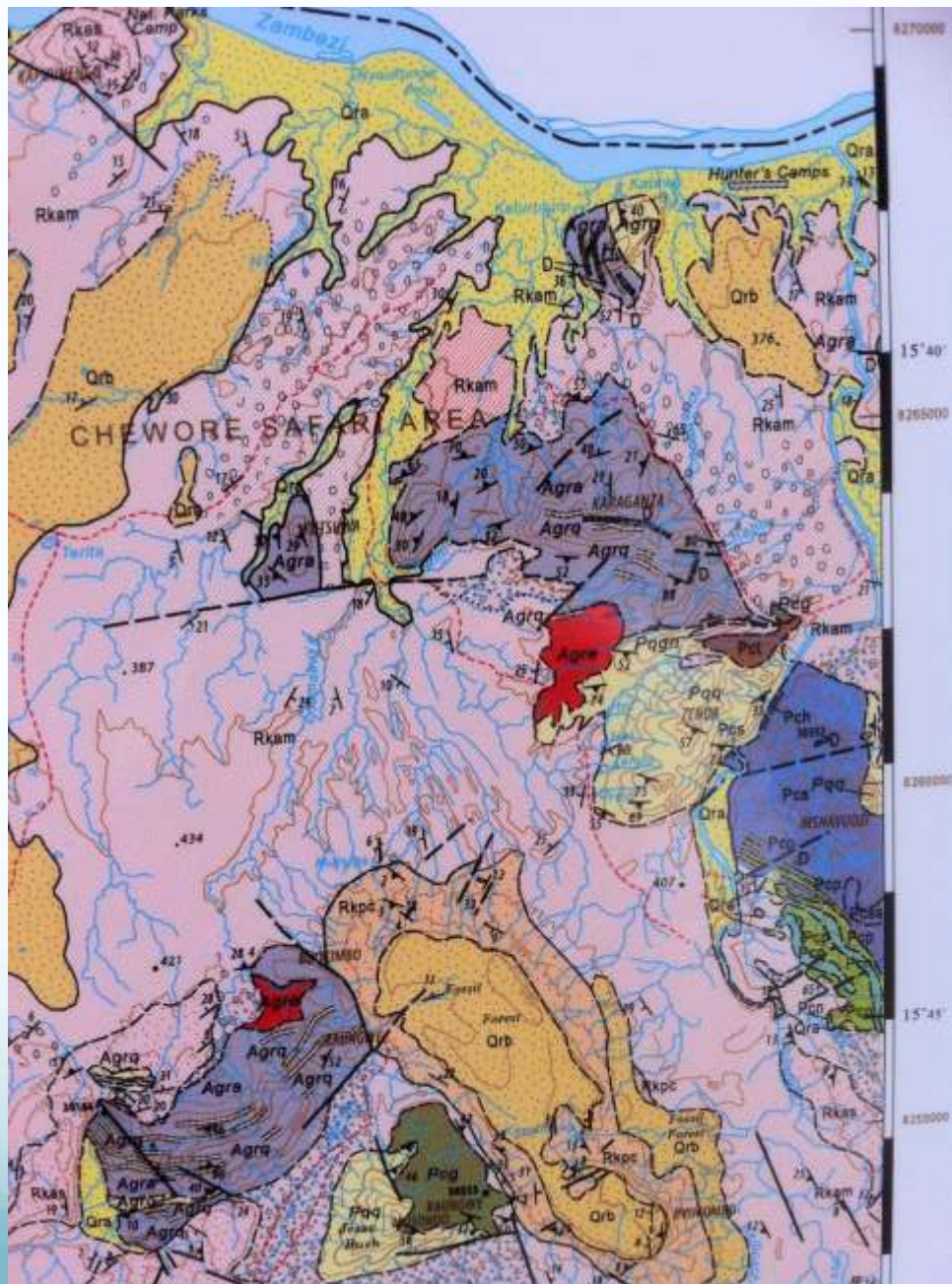
CHEWORE WEST

GEOLOGY

(Preliminary map)

1:100 000

Fey, 1992 - 1994



CHEWORE COMPLEX

GEOLOGY

1:100 000

Extract showing western 3 fragments



CHEWORE INLIERS

TERRANES AND THEIR BOUNDARIES

CHEWORE COMPLEX

CHIRARADZI Fragment

View north over
serpentinite. Norite
outcrops in centre





CHEWORE
COMPLEX

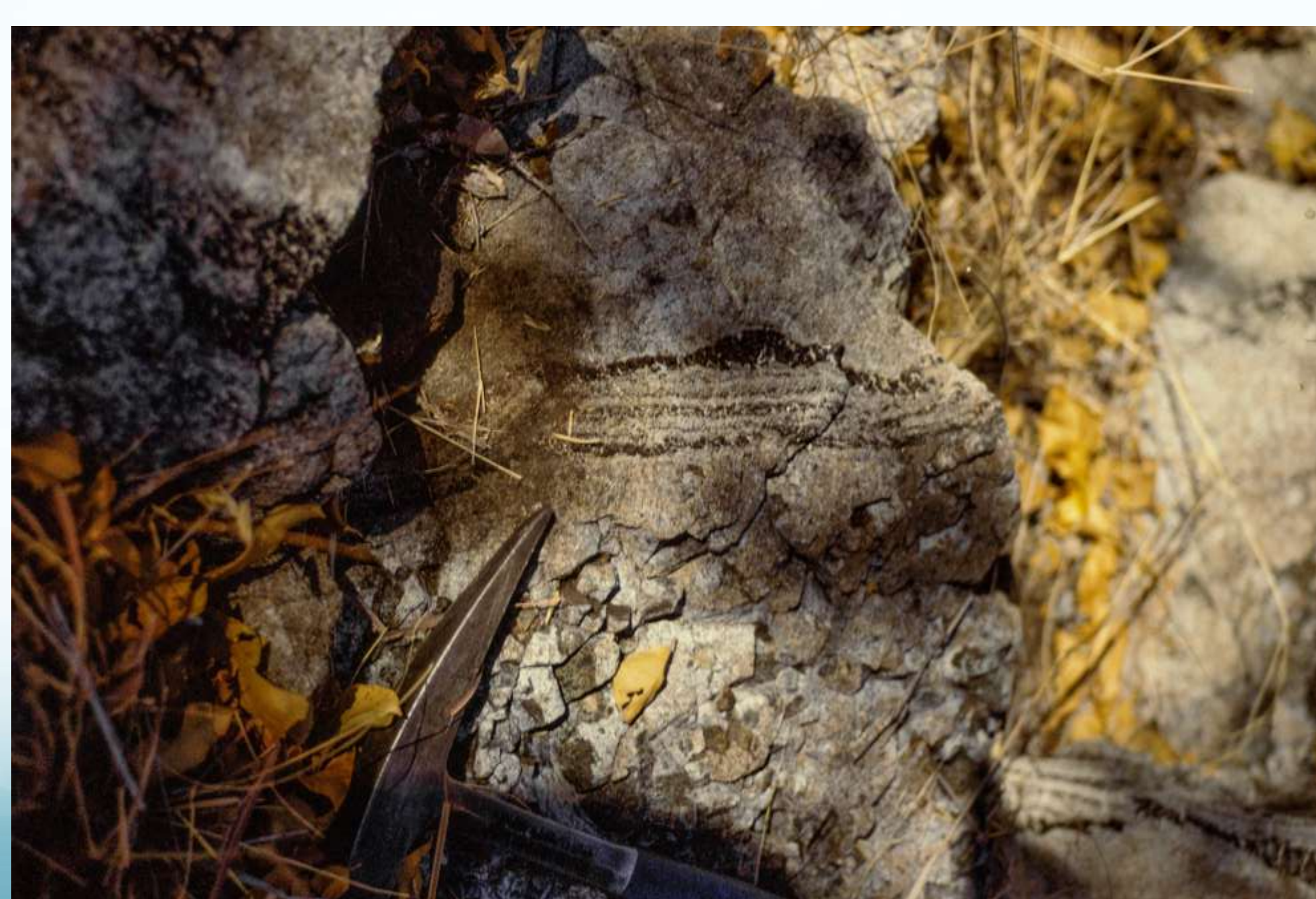
CHIRARAZI
FRAGMENT

Serpentine

CHEWORE COMPLEX

CHIRARADZI FRAGMENT

Chromite
seams in
serpentine





CHEWORE COMPLEX

Poikilitic
harzburgite

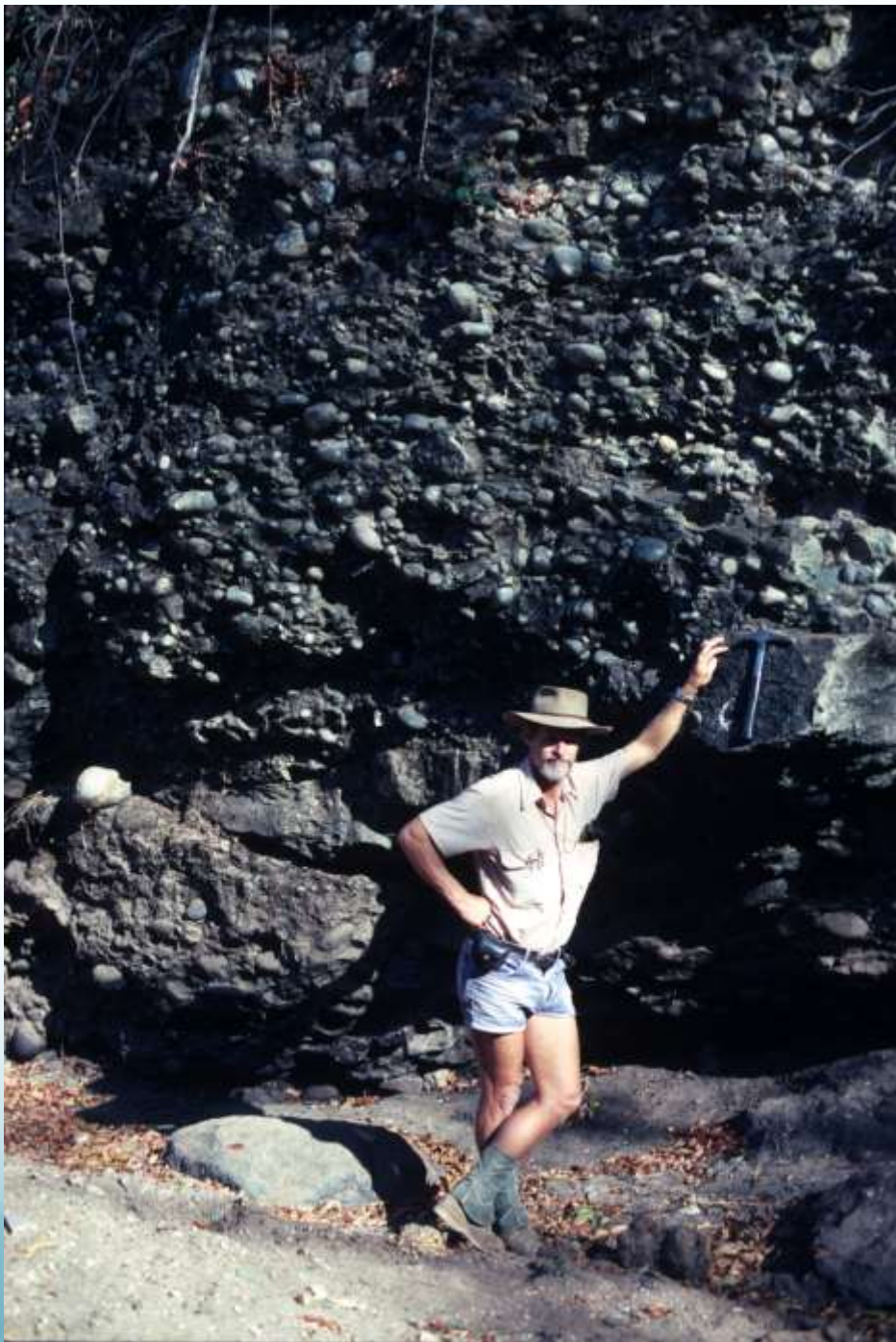
Chiraradzi
River



CHEWORE
COMPLEX

CHIRARADZI
FRAGMENT

Norite
outcrop



Kondo Pools Formation

Basal, polymictic
conglomerate in Uti
River

KONDO POOLS FM

Graded bedding
in sandstone





LOWER-UPPER KAROO UNCONFORMITY

Kondo Pools Formation
sandstone overlain by
basal conglomerate of
Chirambakadoma
Member, Angwa
Formation



CHIGUSA RIVER INLIER

Unconformity at base of
Upper Karoo

Sandstone overlying
Basement of quartzitic
gneiss



View south over Chirambakadoma to Zambezi Escarpment

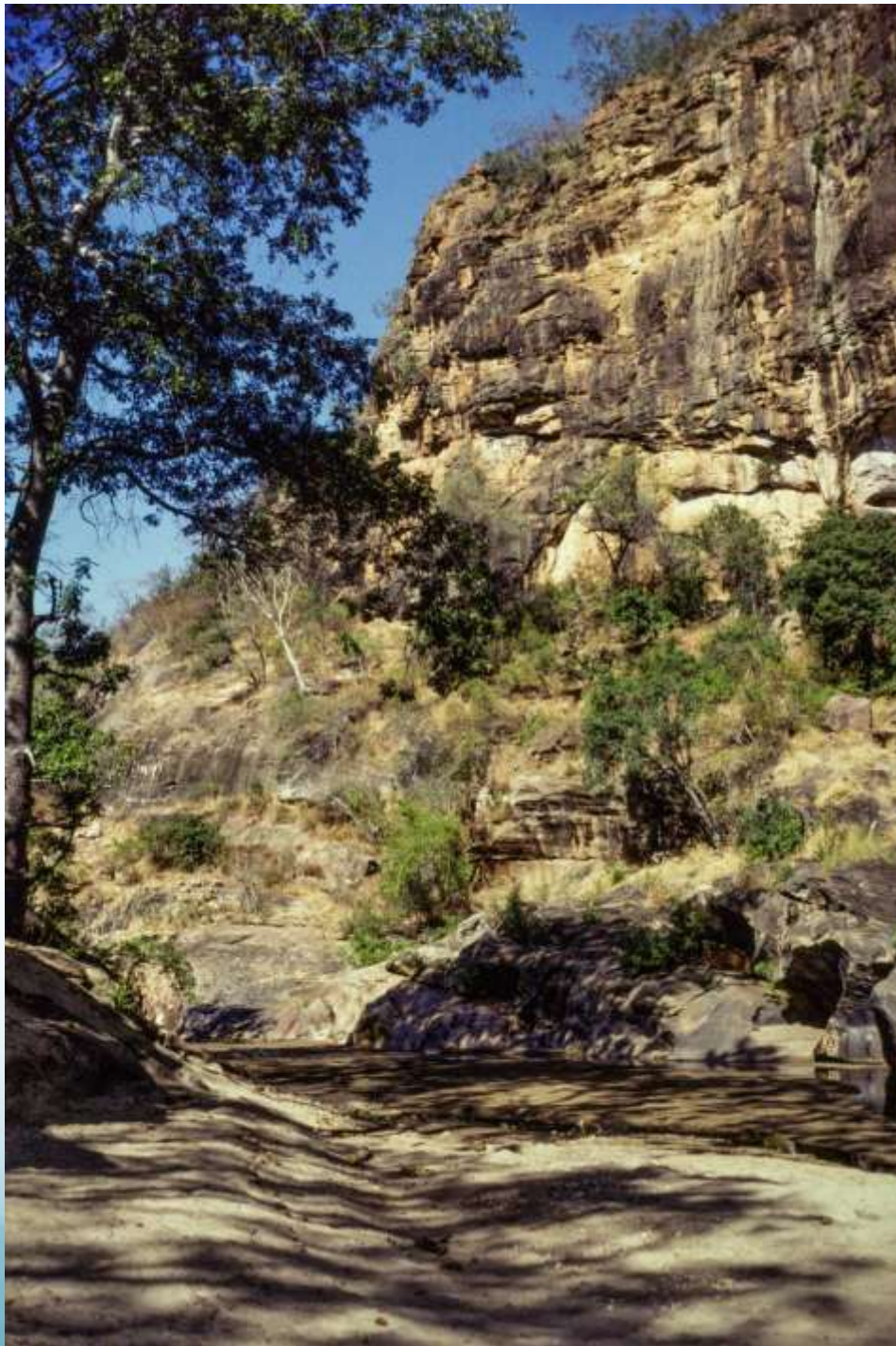


CHEWORE WEST

Geology

Angwa Formation

Massive sandstone
lenses in Alternations
Member



ANGWA FORMATION Alternations Member

Massive sandstone in
Mariatsoro Gorge



CHEWORE WEST

Geology

Angwa Formation

Massive sandstone
lenses in Alternations
Member



ANGWA FM Alternations Member

Massive
sandstone
mesa
Kamwahuku



PEBBLY ARKOSE FORMATION

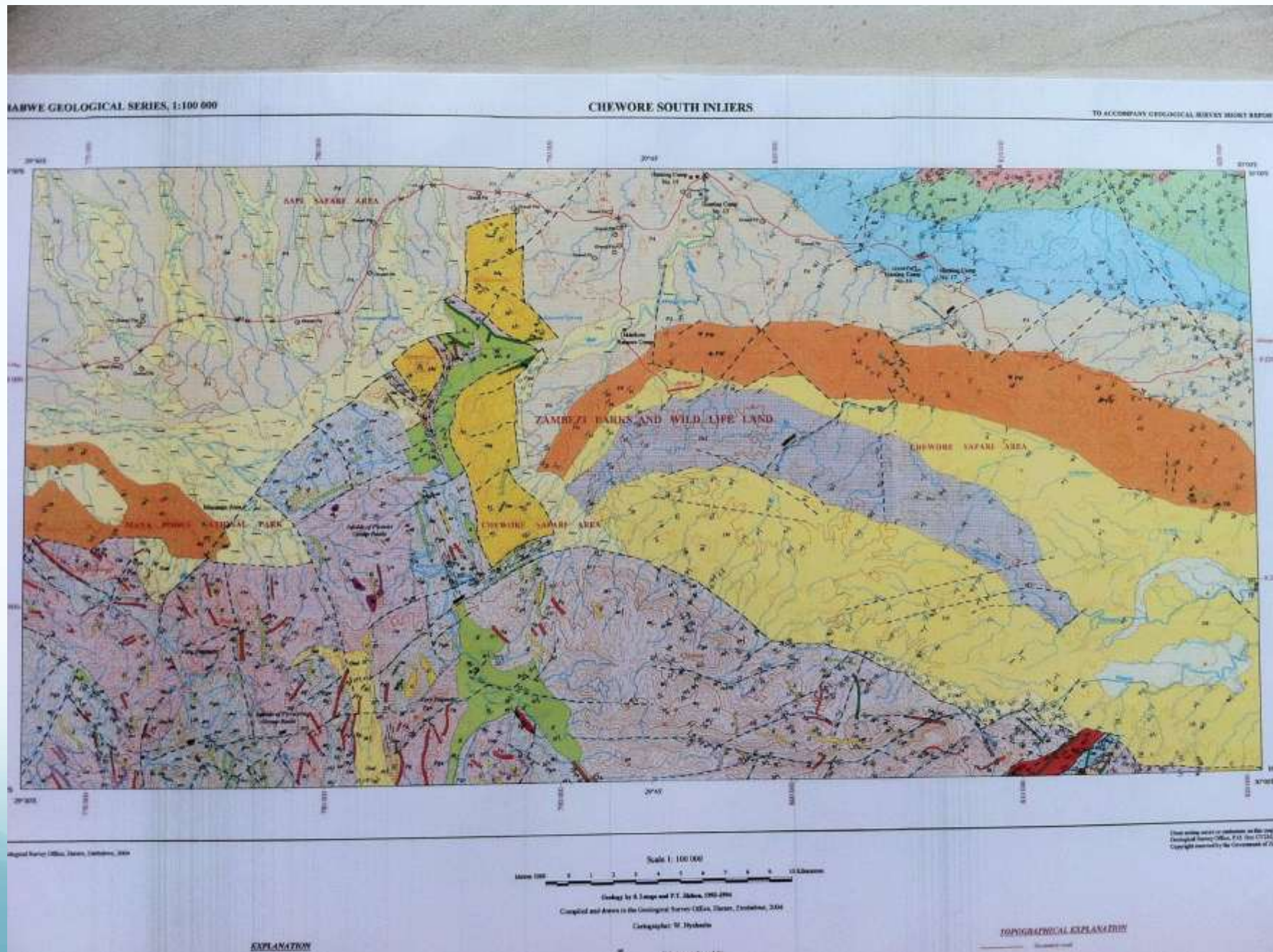
Fossil wood
below
Kamwahuku
scarp



PEBBLY ARKOSE FORMATION

Fossil tree formerly >27
metres high

Bvukombo Plateau



MANGAINGAI

GEOLOGY (Preliminary map)

1:100 000

Zizhou & Lunga (Draft)



Dinosaur trackway
in
Dande Sandstone
Formation
Ntumbe River



Camp at Zambezi-Chewore River confluence (1993)