

ኢትዮጵያ የገንዘብ ክፍለ መንግሥት

ስነድ የወሃድ በቅርቡ እና ስምምነት መሠረታዊ ቢሮ

IMPERIAL ETHIOPIAN GOVERNMENT  
NATIONAL WATER RESOURCES COMMISSION



ETHIOPIA - FRANCE COOPERATIVE PROGRAM  
WABI SHEBELLE SURVEY

IN COLLABORATION WITH

FRENCH MINISTRY OF FOREIGN AFFAIRS

NATIONAL WATER RESOURCES COMMISSION

BCEOM, ORSTOM, EDF  
IGN-BDPA

IV

GEOLOGICAL MAP OF OGADEN

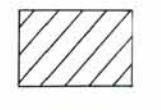
MUSTAHIL

APRIL 1974  
MAP N°7

ORSTOM

IGN

QUATERNARY  
QUATERNAIRE



Recent local deposits : alluvial, colluvial and slope deposits : sands, silts, clay.  
Dépôts récents locaux : alluvions, colluvions, dépôt de pentes sables, limons argileux.

TERTIARY  
TERTIAIRE



Alluvial deposits of great rivers (WABI-SHEBELLE, FAFEN, JERERI) : gravels, sands, silts.  
Alluvions des grands cours d'eau (WABI-SHEBELLE, FAFEN, JERERI) : graviers, sables, limons.

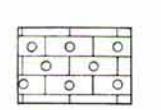
Miocene  
Miocène



Intrusive olivine basalts  
Basaltes intrusifs à olivine

SECONDARY  
SECONDAIRE

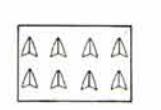
Upper Cretaceous  
Crétacé supérieur



Senonian  
Sénonien

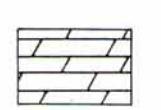
GESOMA series : sandstones and red quartzites  
Séries de GESOMA : grès et quartzites rouges

Turonian  
Turonien



BELET-UEN series : sandstones and biogenic limestones  
Séries de BELET-UEN : grès et calcaires zooligiques

Cenomanian  
Cénomanien



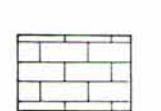
FERFER series : gypsum, limestones, marly dolomites  
Séries de FERFER : gypse, calcaires, calcaires marneux, dolomies

Barremian  
Albian  
Barrémien  
Albien



MUSTAHIL series : marly and chalky limestones, dolomitic limestones  
Séries de MUSTAHIL : calcaires marneux et craieux, calcaires dolomiques

Neocomian  
Néocomien



Main gypsum formation : gypsum, marls, clay, dolomites, halites  
Formation gypseuse principale : gypse, marnes, argiles, dolomies, halites

Kimmeridgian  
Portlandian  
Kimméridgien  
Portlandien



KEBRI-DAHAR series : lithographic limestones, marls, marly limestones, gypsum  
Séries de KEBRI-DAHAR : calcaires lithographiques, marnes, calcaires marneux, gypse



Geological contact line  
Contour géologique



Fault  
Faille



Uncertain fault  
Faille hypothétique



Axes of syncline  
Axe de synclinal



Axes of anticline  
Axe d'anticinal



Strike and dip  
Direction et pendage



Dug well  
Puits creusé



Drilled well  
Puits foré

Scale 1:250,000

M 5 4 3 2 1 0 5 10 15 Miles  
Km 5 4 3 2 1 0 5 10 15 20 Km.

This map has been established by D. BAUDUIN, with the collaboration of G. RICHE, J.C. JULLIEN (ORSTOM scientists), Abere WAKJIRE and Tewolde SOLOMON ; G. CASTANY (BRGM) acting as a consultant.

Cette carte a été dressée par D. BAUDUIN, avec la collaboration de G. RICHE, J.-C. JULLIEN (chercheurs ORSTOM), Abere WAKJIRE et Tewolde SOLOMON ; G. CASTANY (BRGM) étant consultant.

Documents and sources : P. MOHR. Geologia of Ethiopia DANIELLI Geologia dell'Africa Orientale  
Documents et informations : P. MOHR. Geologie of Ethiopia DANIELLI Geologie dell'Africa Orientale

Reports from : Ethiopian Ministry of mines and Water Resources Department  
Rapports de : Ministère éthiopien des Mines et de l'Energie

