UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
SOUS-DIRECTION DE L'HYDRAULIQUE ET DE L'EQUIPMENT RURAL
TUNISIAN SECRETARIAT OF STATE FOR AGRICULTURE
UNDER THE AUSPICES OF THE
U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT

WATER-SUPPLY PAPER 1757-G
PLATE 1

MAP AND SECTIONS SHOWING GENERALIZED GEOLOGY AND LOCATIONS OF SELECTED WELLS, SĀḤIL SŪSAH AREA, TUNISIA

Base from Ministère Des Travaux Publics et Des Transports, Institut Géographique National, 1:500,000, 1954, Paris

Geology modified from Carte Géologique De La Tunisie, Direction Des Travaux Publics, Service Des Mines, De L'Industrie et L'Energie, 1:500,000, 1951, Paris

SCALE 1:500 000

10 0 10 20 30 40 50 KILOMETERS

10 0 10 20 30 40 50 MILES

EXPLANATION

QUATERNARY

Pleistocene and Recent

Qu — Alluvium, calcareous crusts, dune sand, mudflows, clay, and evaporites

Mainly fine-grained sand, silt, and clay including the older alluvium, stream-channel deposits, alluvial fans, and slope-wash debris; poorly to moderately permeable; locally contains the principal ground-water body; elsewhere contains only shallow perched water bodies of limited extent and thickness in dune sand or in thin sand lenses

TERTIARY

Oligocene, Miocene, and Pliocene

QTpmo — Ségui, Oum Douil, Ain Grab, and Hakima Formations and Fortuna Sandstone

Mainly silt, clay, shale, and fine-grained sand; locally contains some sandstone or thin beds of limestone, siltstone, and some conglomerate; lenticular; ground water mainly in the Oum Douil Formation and the Fortuna Sandstone; other formations locally contain ground water which in places is of poor chemical quality. "Zone B sand" shown by stipple pattern in sections only

Paleocene and Eocene

TKep — Souar Shale, Djebs Formation, Metlaoui Formation and El'Haria Shale

Shale and limestone; generally not water bearing

CRETACEOUS

Upper Cretaceous

Kab — Abiod Formation

Limestone; locally water bearing where cavernous or fractured

Kal — Aleg Formation

Shale, limestone,and dolomite, intercalated; poorly permeable and generally not water bearing

Lower Cretaceous

Ksl — Fahdéne Shale, Zebbag Formation, Serdj Limestone, Gafsa Formation, and Boudinar Sand

Limestone, sandstone, sand, and shale; locally contains beds which are permeable and water bearing

KJmsk — Meloussi Formation and Sidi Khalif Shale

Shale, limestone, and sandstone; poorly permeable, generally not water bearing

JURASSIC

J — Nara Limestone

Limestone and shale; locally permeable but not penetrated by test wells in this area

TRIASSIC

Tr — Rheouis beds

Gypsum, anhydrite, shale, and dolomite; not penetrated by test wells, but probably contain saline water in permeable zones

Approximate geologic contact
Queried where uncertain. Contacts accurate in sections within short distance from wells

Fault
Dashed where approximately located; dotted where concealed; queried where uncertain. Arrows show relative movement

Hypothetical fault
Position based on geophysical exploration or hydrologic data, principally water levels in wells; locally forms a barrier to ground-water movement; queried where uncertain

Anticline
Axis of anticline showing direction of plunge

Syncline
Axis of syncline showing direction of plunge. Dashed where position is uncertain

Strike and dip of beds

10626
Well
Number indicates the catalog number assigned by the Bureau de l' Inventaire des Ressources Hydrauliques

9109
Producing well
Number indicates the catalog number assigned by the Bureau de l' Inventaire des Ressources Hydrauliques

SŪSAH 1
Oil-test well

Tālah
Precipitation station

Sidi Mas ūd
Stream-gaging station

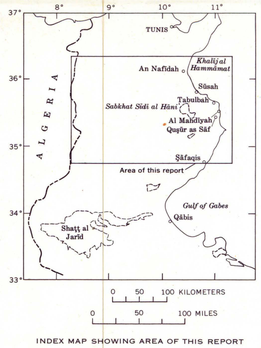
B — B'
Line of geologic section

SECTIONS

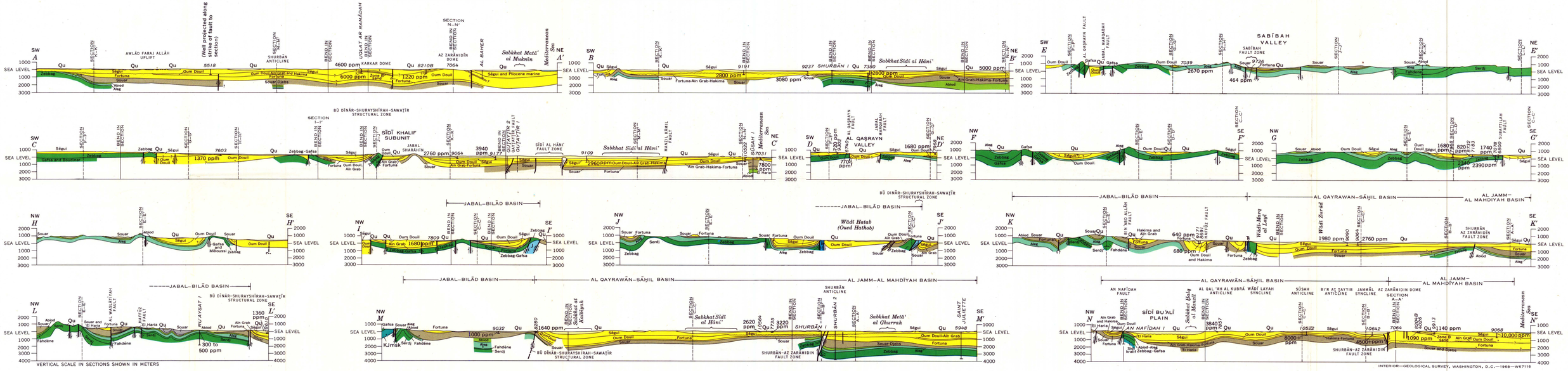
Major units divided into formations to show detail of aquifers and aquicludes where vertical scale permits

Unconformity

6800
2800 ppm
Well
Number indicates the catalog number assigned by the Bureau de l'Inventaire des Ressources Hydrauliques. 2800 ppm: Dissolved-solids content of water at point indicated, in parts per million



INDEX MAP SHOWING AREA OF THIS REPORT



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