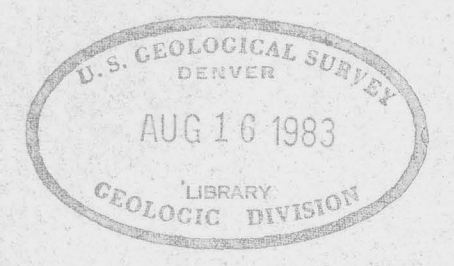


Library file copy

(200)
T67nm
to 914



DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
U. S. ATOMIC ENERGY COMMISSION

TRACE ELEMENTS MEMORANDUM REPORT 914



EXPLANATION

- Surficial deposits
- Navajo sandstone
Middle unit, Jnm;
lower unit, Jnl
- Kayenta formation
- Moenave formation
Springdale sandstone member, Tmos;
Dinosaur Canyon sandstone member, Tmod
- Petrified Forest member of the Chinle formation
- Shinarump conglomerate
- Moenkopi formation
- Kaibab limestone
- Toroweap formation
- Coconino sandstone
- Hermit shale

- Contact
Can be located
within 30 feet horizontally.
- Contact
Can be located
within 30 to 200 feet horizontally.
- Contact
Cannot be located accurately; probable
error greater than 200 feet horizontally.
- Probable contact
- Resistant bed
within a formation
May be traceable only locally
- Fault
U, upthrown side; D, downthrown side.
Dashed where approximately located;
dotted where concealed.
Questioned where probable.
- Strike and dip of beds
Based on field measurement.
- Strike and dip of beds
Computed by photogrammetric methods.
- Approximate strike and dip of beds
Based on photointerpretation.
- Inferred strike and dip of beds
Based on photointerpretation of
areas where bedding is obscure.
- Strike of approximately vertical joints
Based on photointerpretation.
- Linear feature uninterpretable on photograph
May be geologically significant.
- Reservation boundary
- Primary road
- Secondary road
- Trail

JURASSIC QUATERNARY
JURASSIC(?)
TRIASSIC(?)
TRIASSIC
PERMIAN

T. 40 N.
T. 39 N.

R. 6 E. R. 7 E. (LEES FERRY NW)

R. 6 E. R. 7 E. (TANNER WASH NW)

PHOTOGEOLOGIC MAP
OF THE
LEES FERRY SW QUADRANGLE
COCONINO COUNTY, ARIZONA

By
J. S. Dettmerman

Scale 1:24,000
January 1956

This preliminary report is distributed without
editorial and technical review for conformity
with official standards and nomenclature.
It is not for public inspection or quotation.

Stratigraphic column for this area modified from
Geol. Soc. America Mem. 61, 1954; Carnegie
Inst., Washington Pub. 492, 1938; U. S. Geol.
Survey Prof. Paper 164, 1931; and unpublished
field data of J. W. Harshbarger, C. A. Repp-
ning, and J. H. Irwin. Geographic and geologic
field data from U. S. Geol. Survey preliminary
topographic map, Lees Ferry SW quadrangle,
Ariz., and Prof. Paper 164.
This map has been compiled mainly from photogeologic data
but has not been checked in the field.

Map scale 1:24,000
Scale of 1 inch = 2000 feet
Scale of 1 centimeter = 200 meters
Scale of 1 mile = 1609 meters
Scale of 1 kilometer = 1000 meters
Scale of 1 nautical mile = 1852 meters
Scale of 1 statute mile = 1609 meters
Scale of 1 fathom = 6 feet
Scale of 1 yard = 3 feet
Scale of 1 foot = 12 inches
Scale of 1 inch = 2.54 centimeters
Scale of 1 centimeter = 0.39 inches
Scale of 1 meter = 3.28 feet
Scale of 1 kilometer = 0.62 miles
Scale of 1 nautical mile = 1.15 miles
Scale of 1 statute mile = 1.61 kilometers
Scale of 1 fathom = 1.83 meters
Scale of 1 yard = 0.91 meters
Scale of 1 foot = 0.30 meters
Scale of 1 inch = 0.025 meters
Scale of 1 centimeter = 0.01 meters
Scale of 1 millimeter = 0.001 meters
Scale of 1 micrometer = 0.0001 meters
Scale of 1 nanometer = 0.000001 meters
Scale of 1 angstrom = 0.0000001 meters
Scale of 1 light year = 9.46 x 10¹⁵ meters
Scale of 1 parsec = 3.26 x 10¹⁶ meters
Scale of 1 astronomical unit = 1.496 x 10⁸ kilometers
Scale of 1 light minute = 1.8 x 10⁷ kilometers
Scale of 1 light second = 3.0 x 10⁵ kilometers
Scale of 1 light day = 2.6 x 10⁷ kilometers
Scale of 1 light week = 1.8 x 10⁸ kilometers
Scale of 1 light month = 6.3 x 10⁸ kilometers
Scale of 1 light year = 9.46 x 10¹² kilometers
Scale of 1 parsec = 3.26 x 10¹³ kilometers
Scale of 1 astronomical unit = 1.496 x 10⁸ kilometers
Scale of 1 light minute = 1.8 x 10⁷ kilometers
Scale of 1 light second = 3.0 x 10⁵ kilometers
Scale of 1 light day = 2.6 x 10⁷ kilometers
Scale of 1 light week = 1.8 x 10⁸ kilometers
Scale of 1 light month = 6.3 x 10⁸ kilometers
Scale of 1 light year = 9.46 x 10¹² kilometers
Scale of 1 parsec = 3.26 x 10¹³ kilometers