

U.S. GEOLOGICAL SURVEY  
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DEPARTMENT OF THE INTERIOR  
UNITED STATES GEOLOGICAL SURVEY

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

TRACE ELEMENTS MEMORANDUM REPORT 959



EXPLANATION

- Qs  
Surficial deposits
  - Tcp  
Petrified Forest member of the Chinle formation
  - Tm Tmm  
Moenkopi formation, Tm; Middle red member, Tmm; Lower red member, Tml
  - Pk  
Kaibab limestone  
(May include Timpowep member of the Moenkopi formation)
  - Pt  
Toroweap formation
  - Pc  
Coconino sandstone
  - Ph  
Hermit shale
  - S  
Slump blocks of Triassic rocks
- QUATERNARY  
TRIASSIC  
PERMIAN
- 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
  - Resistant bed within a formation  
May be traceable only locally
  - Fault  
U, upthrown side; D, downthrown side. Dashed where approximately located. 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.
  - Horizontal beds
  - Strike of approximately vertical joints  
Based on photointerpretation.
  - Linear feature uninterpretable on photograph  
May be geologically significant.
  - National forest boundary
  - Primary road
  - Secondary road
  - Trail
  - Fence

Base map compiled by U. S. Geological Survey from aerial photographs used for photogeologic surveys in Arizona in June 1940 and June 1953.

Roads as classified in this map series are as follows: Primary roads are maintained and graded, traversable by two-wheel-drive vehicles; secondary roads are traversable, possibly, by two-wheel-drive vehicles. Trails are not traversable by four-wheel-drive vehicles except locally. When other information is lacking, roads are classified by their appearance on aerial photographs.

JACOB LAKE  
15-MINUTE QUADRANGLE

PHOTOLOGICAL MAP  
OF THE  
JACOB LAKE NE QUADRANGLE  
COCONINO COUNTY, ARIZONA

By  
C. H. Marshall

Scale 1:24,000

April 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, and Carnegie Inst. Washington Pub. 492, 1938. Geographic field data from U. S. Geol. Survey prelim. topo. map, Jacob Lake quadrangle, Ariz.

This map has been compiled mainly from photogeologic data but has not been checked in the field.

