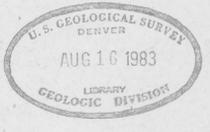


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DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

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

PHOTOGEOLOGIC MAP, HEATON KNOLLS NW
ARIZONA-MOHAVE COUNTY
TRACE ELEMENTS MEMORANDUM REPORT 875



EXPLANATION

- Quaternary
Surficial deposits
 - Upper Triassic
Shinarump conglomerate
 - Lower and Middle(?) Triassic
Moenkopi formation
 - Upper red member, Rmu;
 - Shinarump member, Rms;
 - Middle red member, Rmm;
 - Virgin limestone member, Rmv;
 - Lower red member and Timpoweap conglomerate, undifferentiated, Rml
 - Permian
Kaibab limestone
-
- 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
Approximately located, dotted where concealed. Questioned where probable. U, upthrown side; D, downthrown side.
 - Anticline
Showing crest line and direction of plunge. Approximately located.
 - Syncline
Showing trough line and direction of plunge. Approximately located.
 - Syncline
Minor fold showing plunge.
 - 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.
 - Secondary road
 - Trail
 - Fence

Base map compiled by U.S. Geological Survey from vertical aerial photographs.
The aerial photographs used for photogeologic interpretation were taken 2, October 1959, May 1960, and 1963.
Roads are classified on this map series as follows:
Primary roads are those which are 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 available, roads are classified by their appearance on aerial photographs.



PHOTOGEOLOGY BY C. H. MARSHALL
SCALE 1:24,000
APRIL 1965

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, 1964, and U.S. Geol. Survey Prof. Paper 220, 1961; geographic and geologic field data also from Prof. Paper 220.
This map has been compiled mainly from photogeologic data but has not been checked in the field; hence it has not had the benefit of thorough evaluation with respect to maps compiled entirely from field data.