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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 909

(SPRINGDALE NW)



EXPLANATION

- Qs
Surficial deposits, undifferentiated
 - Jn
Navajo sandstone
 - Jk
Kayenta formation
 - Tmos
Moenave formation
 - Tmcs
Springdale sandstone member, Tmos;
Dinosaur Canyon sandstone member, Tmos
 - Tcpc
Petrified Forest member
of the Chinle formation
 - Tfs
Shinarump conglomerate
 - Tmu
Moenkopi formation
 - Tms
Upper red member, Tmu;
Shinarump member, Tms
- Upper Triassic
- Lower and Middle Triassic
- TRIASSIC(1) JURASSIC QUATERNARY
- TRIASSIC
-
- 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,
dotted where concealed
 - 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
 - State boundary
 - Primary road
 - Secondary road
 - Trail
 - Fence

Basic data compiled by U.S. Geological Survey from vertical aerial photographs.

The aerial photographs used for photogeologic interpretation were taken in 1965.

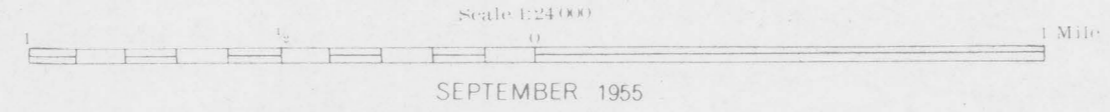
Roads as classified in this map series are as follows: primary roads are maintained and graded; travelable by two-wheel or one-wheel vehicles; secondary roads are travelable only by two-wheel drive vehicles; trails are not travelable by four-wheel drive vehicles except locally. When other information is lacking, roads are classified by their appearance on aerial photographs.

VIRGIN
15-MINUTE QUADRANGLE

PHOTOGEOLOGIC MAP
OF THE
VIRGIN SE QUADRANGLE
WASHINGTON COUNTY, UTAH
By
C. L. Pillmore

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 U. S. Geol. Survey Prof. Paper 220, 1950, and unpublished field data of Paul Averitt, J. S. Dutton, J. W. Harkberger, and C. A. Reppening. Geographic and geologic field data from Prof. Paper 220; U. S. Geol. Survey topographic map, Zion National Park, Utah, 1948; and F.W.A. Public Roads Adm., Utah Transp. Map, Sheet 10, 1949.



SEPTEMBER 1965

(SHORT CREEK NW)