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DEPARTMENT OF THE INTERIOR  
UNITED STATES GEOLOGICAL SURVEY

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

PHOTOGEOLOGIC MAP, SPRINGDALE SW  
UTAH-WASHINGTON AND KANE COUNTIES  
TRACE ELEMENTS MEMORANDUM REPORT 828



EXPLANATION

- Surficial deposits
- Navajo sandstone
- Kayenta formation  
May include the Lamb Point tongue of the Navajo sandstone
- Moenave formation  
Springdale sandstone member, Rmos;  
Dinosaur Canyon sandstone member, Rmod
- 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
- Strike and dip of beds  
Computed by photogrammetric methods
- Approximate strike and dip of beds  
Based on photo interpretation
- Inferred strike and dip of beds  
Based on photo interpretation of areas where bedding is obscure
- Strike of approximately vertical joints  
Based on photo interpretation
- Linear feature uninterpretable on photograph  
May be geologically significant
- State boundary
- County boundary  
Approximate location
- Primary road
- Secondary road
- Fence

QUATERNARY  
JURASSIC(?)  
JURASSIC  
TRIASSIC(?)

Base map compiled by U. S. Geological Survey from vertical aerial photographs.  
The aerial photographs used for photogeologic interpretation were taken in October 1962.  
Roads as classified in this map series are as follows:  
Primary roads are indicated 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.

SPRINGDALE  
15-MINUTE QUADRANGLE

PHOTOGEOLOGY BY C. L. PILLMORE  
SCALE 1:24,000  
APRIL 1955

*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 Paper 220, 1950, and Awerity, Paul, Daitzman, J. S., Harshbarger, J. W., and Regening, C. A., unpublished field data. Geographic and geologic field data from Prof. Paper 220 and U. S. Geol. Survey topographic map, Zion National Park, Utah, 1948.

This map has been compiled mainly from photogeologic data but includes information from fieldwork. It has not had the benefit of photographic interpretation with respect to maps compiled solely from field data.