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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 NE  
UTAH - KANE COUNTY  
TRACE ELEMENTS MEMORANDUM REPORT 834



EXPLANATION

- Surficial deposits
  - Winsor formation
  - Curtis formation
  - Entrada sandstone
  - Carmel formation
  - Navajo sandstone member  
Temple cap, Jnt;  
massive sandstone unit, Jnm
  - Kayenta formation  
May include the Lamb Point  
tongue of the Navajo sandstone
- Upper Jurassic
- Middle and Lower Jurassic
- 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.
  - Fault  
Dashed where approximately located.  
U, upthrown side; D, downthrown side.
  - Strike and dip of beds  
Computed by photogrammetric methods.
  - Approximate strike and dip of beds  
Based on photointerpretation.
  - Strike of approximately vertical joints  
Based on photointerpretation.
  - Linear feature uninterpretable on photograph  
May be geologically significant.
  - National park  
boundary
  - Primary road
  - Secondary road
  - Trail
  - Fence

On aerial photographs the Temple cap member of the Navajo sandstone appears to be more similar to the Carmel formation than to the Navajo sandstone.

Base map compiled by U. S. Geological Survey from vertical aerial photographs.  
The aerial photographs used for photogeologic interpretation were taken in October 1960.  
Roads as classified on this map series are as follows:  
Primary roads are maintained and graded, traversable by two-wheeled drive vehicles; secondary roads are traversable possibly by two-wheeled drive vehicles; trails are not traversable by four-wheeled drive vehicles except locally.  
When other information is lacking, roads are classified by their appearance on aerial photographs.



PHOTOGEOLOGY BY C. L. PILLMORE  
SCALE 1:24,000  
MAY 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 29, 1960. Geographic and geologic field data from Prof. Paper 29, U. S. Geol. Survey Geologic Map, Zion National Park, Utah, 1948 and Utah State Road Comm. and U. S. Geol. Comm. Geologic Map, Kane County, Utah, 1960.  
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.

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QUATERNARY