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DEPARTMENT OF THE INTERIOR  
U. S. GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE  
ATOMIC ENERGY COMMISSION

PHOTOGEOLOGIC MAP, CARLISLE-15  
UTAH-SAN JUAN COUNTY  
TRACE ELEMENTS MEMORANDUM REPORT 668  
R. 21 E.



EXPLANATION

- Quaternary
- Qal Alluvium
  - Jn Navajo sandstone
  - Jk Kayenta formation
  - Jw Wingate sandstone
- Triassic
- Rc Chinle formation
  - Rs Shinarump conglomerate
  - Rm Moenkopi formation
- Permian
- Pcor Cutler formation
  - Pcc Organ Rock tongue, Pcor; Cedar Mesa sandstone member, Pcc
- Contact
- Can be accurately located within 30 feet horizontally
  - Can be approximately located within 30 to 200 feet horizontally
  - Cannot be located accurately; probable error greater than 200 feet
- Strike and dip of beds
- Based on field measurement
  - 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
- Conspicuous resistant bed within a formation
- May be traceable only locally
- Strike of approximately vertical joints
- Based on photo-interpretation
- Secondary road
- Trail

Note: Some of the geologic contacts on the east border of this map do not join those of Carlisle 16. Contacts on this map are considered to be more accurate because newer (1952), better quality photographs were used than were available for Carlisle 16.

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PLANIMETRIC BASE MAP COMPILED BY SOIL CONSERVATION SERVICE

4	3	2	1
5	6	7	8
12	11	10	9
13	14	15	16

CARLISLE  
QUADRANGLE

PHOTOGEOLOGY BY R. J. HACKMAN  
SCALE 1:24,000

SEPTEMBER 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.

Stratigraphic column for this area modified from U.S. Geol. Survey Bull. 841, 1933. Geographic and geologic field data from U.S. Geol. Survey Bull. 841, 1933 and Utah Geol. and Mineralogical Survey Symposium Volume, Oil and Gas Possibilities of Utah, pl. V.

Maps of this series have been compiled mainly from photogeologic data but have not been checked in the field, hence they have not had the benefit of thorough evaluation with respect to maps compiled entirely from field data.

This map is preliminary and has not been edited or reviewed for conformity with U. S. Geological Survey standards and nomenclature.

Utah (Carlisle 15 quad.)  
cop. 1.



1953

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R29a  
no. 54-112  
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