

U.S. GEOLOGICAL SURVEY
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DEPARTMENT OF THE INTERIOR
 U. S. GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
 ATOMIC ENERGY COMMISSION

PHOTOGEOLOGIC MAP, CARLISLE-12
 UTAH-WAYNE, SAN JUAN, AND GARFIELD COUNTIES
 TRACE ELEMENTS MEMORANDUM REPORT 793

PLEASE REPLACE IN POCKET
 IN BACK OF BOUND VOLUME



EXPLANATION

- Alluvium, Qal; covering deposits, undifferentiated, Qc
- Moenkopi formation
- Cutler formation
 White Rim sandstone member, Pccw;
 Organ Rock tongue, Pccot;
 Cedar Mesa sandstone member, Pcc;
 Organ Rock tongue and Cedar Mesa sandstone member, undifferentiated, Pcc
- Rico formation
- Hermosa formation, Ph
 Paradox member, PPh
- 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.
- Probable contact
- Resistant bed within a formation
 May be traceable only locally.
- Fault
 U, upthrown side; D, downthrown side.
 Dashed where approximately located, dotted where concealed. Questioned where probable.
- Anticline
 Showing crest line and direction of plunge
 Dashed where approximately located
 Questioned where probable.
- Strike and dip of beds
 Based on field measurement.
- Strike and dip of beds
 Computed by photogrammetric methods.
- Approximate strike and dip of beds
 Based on photo interpretation.
- Strike of approximately vertical joints
 Based on photo interpretation.
- County boundary
 Approximate location.
- Trail

QUATERNARY
 TRIASSIC
 PERMIAN
 PENNSYLVANIAN (PERMIAN)
 PENNSYLVANIAN

Base map compiled from vertical aerial photographs by Gene at Mesa Branch, U.S. Geological Survey. Planimetry and geology transferred by stereoplottling methods. The aerial photographs used for photogeologic interpretation were taken in January and November, 1962.

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

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

CARLISLE QUADRANGLE

PHOTOGEOLOGY BY J. N. PLATT
 SCALE 1:24,000
 JUNE 1964

Stratigraphic column for this area modified from U. S. Geol. Survey Bull. 961 (1946), 968 (1948) and 971 (1953). Geographic and geologic field data also from U.S. Geol. Survey Bull. 961 (1946), 968 (1948) and 971 (1953) and Utah Geol. and Mineralog. Survey, Symposium vol. Oil and Gas Possibilities of Utah, p. 5, 1961.
 Maps of this series have been compiled mainly from photogeologic data but have not been checked in the field since they have not had the benefit of thorough evaluation with respect to maps compiled entirely from field data.