DEPARTMENT OF THE INTERIOR
U. S. GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
ATOMIC ENERGY COMMISSION

PHOTOGEOLOGIC MAP, CARLISLE-11
UTAH-SAN JUAN COUNTY
TRACE ELEMENTS MEMORANDUM REPORT 763

109°52'30" 109°50'00" (CARLISLE-6) 109°47'30" 109°45'00"
38°15'00" 38°12'30" 38°10'00" 38°07'30"

(CARLISLE-12) (CARLISLE-10) (CARLISLE-14)

THE LOOP
COLORADO RIVER
ANTICLINE
CANYON
EL 4910
MEANDER CANYON
THE SLIDE
SALT CREEK
LITTLE SPRING CANYON
BIG SPRING CANYON
CYCLONE CANYON
TWIN VALLEYS
ELEPHANT CANYON
DEVILS LANE
DEVILS POCKET
THE NEEDLES
EL 5145
Soda spring
EL 4940
Squaw spring
EL 5365
INDIAN CREEK
SQUAW CANYON
LOST CANYON
SALT CREEK
Dam

Pcoc Pcor Pcc PIPr PIPrl IPh Qal Qc

EXPLANATION

Qal Qc — Alluvium, Qal; covering deposits, undifferentiated, Qc — QUATERNARY

Pcor / Pcoc / Pcc — Cutler formation: Organ Rock tongue, Pcor; Organ Rock tongue and Cedar Mesa sandstone member, undifferentiated, Pcoc; Cedar Mesa sandstone member, Pcc — PERMIAN

PIPrl / PIPr — Rico formation, PIPr; Bench-forming limestone at top, differentiated locally, PIPrl — PERMIAN(?) and PENNSYLVANIAN

IPh — Hermosa formation — PENNSYLVANIAN

Contact
Can be accurately located within 30 feet horizontally

Contact
Can be approximately located within 30 to 200 feet horizontally

Contact
Cannot be located accurately; probable error greater than 200 feet

Conspicuous resistant bed within a formation
May be traceable only locally

Fault
Dashed where approximately located
U, upthrown side, D, downthrown side
Questioned where doubtful

Anticline
Showing trace of axial plane
Approximately located

Syncline
Showing trace of axial plane and direction of plunge
Approximately located

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

Strike of approximately vertical joints
Based on photo-interpretation

Uninterpretable linear feature on photograph
May be geologically significant

Secondary road

Trail

Fence

Note: The uppermost bench-forming limestone in the Cutler formation has been mapped only in the northeast corner of this quadrangle. In other parts of this area, because of the topography, this unit is only recognized locally and has been shown as a resistant bed.

Base map compiled from vertical aerial photographs by Special Maps Branch, U.S. Geological Survey. Planimetry and geology transferred by stereo-plotting methods.

The aerial photographs used for photogeologic interpretation were taken in October and November 1952.

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

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

15° TRUE NORTH MAGNETIC NORTH

PHOTOGEOLOGY BY J. N. PLATT
SCALE 1:24,000
0 1 MILE
JUNE 1954

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. 908, 1940 and Bull. 941, 1923. Geographic and geologic field data from U.S. Geol. Survey Bulls. 908 and 841, and Utah Geol. and Mineralog. Survey Symposium vol., Oil and Gas Possibilities of Utah, pl. 5, 1931.

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 is not Cataract Canyon.

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Utah. (Carlisle 11 quad.). Geol. 1:24,000. 1954. map 1.

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