

DEPARTMENT OF THE INTERIOR
U. S. GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
ATOMIC ENERGY COMMISSION

PHOTOGEOLOGIC MAP CIRCLE CLIFFS-13
UTAH - GARFIELD AND KANE COUNTIES
TRACE ELEMENTS MEMORANDUM REPORT 797

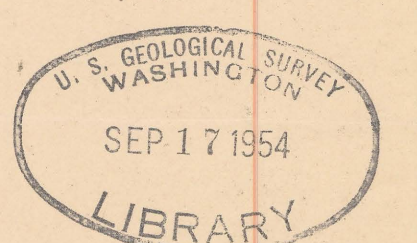


EXPLANATION

- Qal, Qc
Alluvium, Qal; covering
deposits, undifferentiated, Qc
- Ks
Straight Cliffs sandstone
- Kt
Tropic shale
- Kd
Dakota sandstone
- Jmbb
Jms
Morrison formation
Brushy Basin shale member, Jmbb;
Salt Wash sandstone member, Jms
- Jsu
Jb
Jcl
Summerville formation Bluff(?) sandstone, Jb
Upper part (?), Jsu;
lower part, Jcl
- Je
Entrada sandstone
- Jcup
Jcm
Jcl
Carmel formation
Upper unit, Jcup;
middle unit, Jcm;
lower unit, Jcl
- Jn
Navajo sandstone

- 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
- Probable fault
- Anticline
Showing crest line
and direction of plunge
- Approximate strike and dip of beds
Based on photo-interpretation
- Strike of approximately vertical joints
Based on photo-interpretation
- Linear feature uninterpretable on photograph
May be geologically significant
- County boundary
Approximate location
- Secondary road
- Trail

Note: In this map area three units of the Carmel formation, not divided in the field, are recognizable on aerial photographs. The middle white (gypsum?) slope-forming unit separates two darker, slightly more resistant units.



Base map compiled by U.S. Geological Survey from
vertical aerial photographs by radial-tangent methods.
The aerial photographs used for photogeologic interpretation
were taken in June, 1946.

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	11	10	9
14	13	16	15

CIRCLE CLIFFS
QUADRANGLE

PHOTOGEOLOGY BY B. H. KENT
SCALE 1:24,000
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 Prof. Paper 164, 1931; geographic and geologic field
data also from Prof. Paper 164.
Maps of this series have been compiled mainly from photo-
geologic 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.

Utah (Circle Cliffs 13 quad) Geol. 1:24,000. 1954.
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