

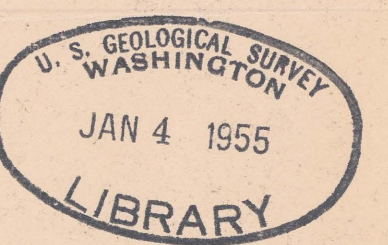


EXPLANATION

- Upper Triassic**
- Middle/Lower Triassic**
- PERMIAN**
- PERMIAN (Basal)**
- PENNSYLVANIAN**
- Tw**
Wingate sandstone
- Rcu**
Chinle formation
Upper part, Rcu;
sandstone unit of lower part, Rcl;
lower part, Rcl
- Rs**
Shinarump conglomerate
- Rm**
Moenkopi formation
- Pcor**
Cutler formation
Organ Rock tongue (may include
the Hoskinnit tongue); Pcor;
Cedar Mesa sandstone member, Pcc
- PIPr**
Rico formation
(may include the Halgatto
tongue of the Cutler formation)
- 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
- Resistant bed within
a formation**
May be traceable only locally
- Anticline**
Showing trace of axial plane
and direction of plunge
Approximately located
- Strike and dip of beds**
Computed by photogrammetric methods
- Approximate strike and dip of beds**
Based on photo-interpretation
- Inferred strike and dip of beds**
Based on photo-interpretation
of area where bedding is obscure
- Strike of approximately vertical
joints**
Based on photo-interpretation
- Prospect or open cut**
- National Forest boundary**
- Primary road**
- Secondary road**
- Trail**

Note: Planimetric and geologic detail on this map does not properly join that on Elk Ridge 13 owing to a more recent and accurate base map compilation for Elk Ridge 14.

Recent geologic evidence places the axis of the Mitten Butte anticline farther to the east than the position shown on the photogeologic map Elk Ridge 13.



Base map modified from Soil Conservation Service map, Utah-295. 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 | 11 | 10 | 9 |
| 13 | 14 | 15 | 16 |

ELK RIDGE QUADRANGLE

PHOTOGEOLOGY BY C. F. MILLER
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 Trace Elements Memo Rept. 14 (unpublished) and U. S. Geol. Survey Prof. Paper 198, 1939; geologic and geologic field data from Trace Elements Memo Rept. 14, U. S. Survey topographic map, Elk Ridge quadrangle, 1940, Utah Prof. Paper 198.

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 mass compiled entirely from field data.

Utah (Elk Ridge 14 quad). Geol. 1:24,000. 1954.
cop. 1.



M(200)
R290
no.55-113
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