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DEPARTMENT OF THE INTERIOR
U. S. GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
ATOMIC ENERGY COMMISSION

PHOTOGEOLOGIC MAP, ELK RIDGE-14

UTAH - SAN JUAN COUNTY

TRACE ELEMENTS MEMORANDUM REPORT 798

EXPLANATION

Trw — Wingate sandstone

Trcu, Trcls, Trcl — Chinle formation
Upper part, Trcu; sandstone unit of lower part, Trcls; lower part, Trcl

Trs — Shinarump conglomerate

Trm — Moenkopi formation

Pcor, Pcc — Cutler formation
Organ Rock tongue (may include the Hoskinnini tongue) Pcor; Cedar Mesa sandstone member, Pcc

PPr — Rico formation
(may include the Halgaito tongue of the Cutler formation)

Upper Triassic; Middle and Lower Triassic; TRIASSIC; PERMIAN(?) and PENNSYLVANIAN

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-325.

The aerial photographs used for photogeologic interpretation were taken in October and November 1953.

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

15° TRUE NORTH MAGNETIC NORTH

PHOTOGEOLOGY BY C. F. MILLER
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 easily by two-wheel-drive vehicles; trails are not traversable by four-wheel drive vehicles except locally. Where 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. 714 (unpublished) and U. S. Geol. Survey Prof. Paper 186, 1936; geographic and geologic field data from Trace Elements Memo Rept. 714, U. S. Survey topographic map, Elk Ridge quadrangle, 1940, Utah and Prof. Paper 188.

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.