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DEPARTMENT OF THE INTERIOR
U. S. GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
ATOMIC ENERGY COMMISSION

PHOTOGEOLOGIC MAP, ELK RIDGE-6
UTAH-SAN JUAN COUNTY

TRACE ELEMENTS MEMORANDUM REPORT 847

EXPLANATION

Qal	Alluvium
Jk	Kayenta formation
Ŧw	Wingate sandstone
Ŧcu, Ŧcls, Ŧcl	Chinle formation: Upper part, Ŧcu; sandstone unit of lower part, Ŧcls; lower part, Ŧcl
Ŧs	Shinarump conglomerate
Ŧm	Moenkopi formation
Pcor, Pcc	Cutler formation: Organ Rock tongue, Pcor; Cedar Mesa sandstone member, Pcc
PIPr	Rico formation
IPh	Hermosa formation

JURASSIC(?) QUATERNARY — Jk, Qal
TRIASSIC — Upper Triassic: Ŧcu, Ŧcls, Ŧcl, Ŧw; Lower and Middle Triassic: Ŧs, Ŧm
PERMIAN — Pcor, Pcc
PERMIAN(?) and PENNSYLVANIAN — PIPr
PENNSYLVANIAN — IPh

Contact
Can be located within 30 to 200 feet horizontally.

Contact
Cannot be located accurately, probable error greater than 200 feet horizontally.

Probable contact

Probable fault
U, upthrown side; D, downthrown side.

Anticline
Showing crest line and direction of plunge
Approximately located.

3
Strike and dip of beds
Computed by photogrammetric methods.

2
Approximate strike and dip of beds
Based on photointerpretation.

3
Inferred strike and dip of beds
Based on photointerpretation of areas where bedding is obscure.

Strike of approximately vertical joints
Based on photointerpretation.

Linear feature uninterpretable on photograph
May be geologically significant.

Secondary road

Trail

Fence

BM 3456
Benchmark

Note: Additional lenses of Shinarump conglomerate, although not recognizable on aerial photographs, may be present along the Moenkopi-Chinle contact in this area.

Base map compiled by U. S. Geological Survey from vertical aerial photographs.

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

TRUE NORTH
MAGNETIC NORTH
15°

PHOTOGEOLOGY BY J. S. DETTERMAN AND J. C. REED, JR.
SCALE 1:24,000
0 — 1 MILE
OCTOBER 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 188, 1938, and U. S. Geol. Survey, Bull. 841, 1931. Geographic and geologic field data from Prof. Paper 158, U. S. Forest Service map, Manti-La Sal National Forest, 1952, and U. S. Geol. Survey topographic map, Elk Ridge quadrangle, Utah, 1940.

This map has been compiled mainly from photogeologic data but has not been checked in the field; hence it has not had the benefit of thorough evaluation with respect to maps compiled entirely from field data.