DEPARTMENT OF THE INTERIOR
U. S. GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
ATOMIC ENERGY COMMISSION

PHOTOGEOLOGIC MAP, ELK RIDGE-16
UTAH - SAN JUAN COUNTY

TRACE ELEMENTS MEMORANDUM REPORT 377-A

109°37'30" 37°37'30" R. 21 E. 109°35'00" (ELK RIDGE-9) 109°32'30" R. 22 E. 109°30'00" 37°37'30"

T. 36 S.

T. 37 S.

T. 38 S.

(ELK RIDGE-15)

(VERDURE-13)

(BLUFF-1)

37°35'00" 37°32'30" 37°30'00"

WHISKERS DRAW
BASIN WASH
BRUSHY
COTTONWOOD
BIG CANYON
CANYON
WESTWATER CREEK
TANK MESA
B L A C K
M E S A
Dam

36 31 6 31 6

Jml Jmb Jmw Jmrs Kbd Js Jb Je Qal Qu 1-2 2-3

EXPLANATION

QUATERNARY

Qal — Alluvium

Qu — Undifferentiated sand, residual mantle, and slope wash

CRETACEOUS

Lower and Upper Cretaceous

Kbd — Dakota sandstone and the Burro Canyon formation, undifferentiated. May include part of Mancos shale

JURASSIC

Upper Jurassic

Jmb / Jml (Jmw / Jmrs) — Morrison formation
Brushy Basin shale member, Jmb; Westwater Canyon sandstone member, Jmw; Recapture shale and Salt Wash sandstone members, undifferentiated, Jmrs; Westwater Canyon sandstone, Recapture shale, and Salt Wash sandstone members, undifferentiated, Jml

Jb — Bluff sandstone

Js — Summerville formation

Je — Entrada 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

Conspicuous bed within a formation
May be traceable only locally

13 Strike and dip of beds
Computed by photogrammetric methods

12 Approximate strike and dip of beds
Based on photo-interpretation

⊕ Horizontal beds

Secondary road

Trail

Base map modified from Soil Conservation Service map, Utah-326.

The aerial photographs used for photogeologic interpretation were taken in September 1952 and June 1950.

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

14°30' TRUE NORTH MAGNETIC NORTH

PHOTOGEOLOGY BY C. F. MILLER
SCALE 1:24,000
0 1 MILE
REVISED SEPTEMBER 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 Inv. Rept. 180, 1952; U. S. Geol. Survey Prof. Paper 188, 1938; and unpublished reports by U. S. Geol. Survey. Geographic and geologic field data from Prof. Paper 188 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.