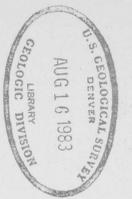


(200)  
707m  
10/4/50



PLEASE REPLACE IN POCKET  
IN BACK OF BOUND VOLUME

DEPARTMENT OF THE INTERIOR  
UNITED STATES GEOLOGICAL SURVEY  
W. E. WRATHER, DIRECTOR

PREPARED IN COOPERATION WITH THE  
U. S. ATOMIC ENERGY COMMISSION

PHOTOGEOLOGIC MAP ELK RIDGE-1  
UTAH-SAN JUAN COUNTY  
TRACE ELEMENTS MEMORANDUM FIGURE 40-A

EXPLANATION

SEDIMENTARY ROCKS

Oil  
Alluvium  
Qu  
Undifferentiated sand, residual  
mantle, and slope wash  
Kdb  
Dakota sandstone and Burro  
Canyon formation, undifferentiated

Jmb  
Jms  
Morrison formation  
Brushy Basin shale member, Jmb;  
Salt Wash sandstone member, Jms

Js  
Summerville formation

Je  
Entrada sandstone

Jc  
Carmel formation

Jn  
Navajo sandstone

Jk  
Kayenta formation

Rw  
Wingate sandstone

Rcu  
Rcls  
Rcl  
Chinle formation  
Upper part, Rcu; sandstone  
unit of lower part, Rcls;  
lower part, Rcl

Rm  
Moenkopi formation

IGNEOUS ROCKS

Ti  
Intrusive rocks

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

Fault  
Dashed where approximately located  
U, upthrown side; D, downthrown side

Anticline  
Showing crest line  
and direction of plunge.  
Dashed where approximately located.

Syncline  
Showing trough line  
and direction of plunge.  
Dashed where approximately located.

Anticline Syncline  
Minor fold showing plunge.

Strike and dip of beds  
Based on field measurement.

Approximate strike and dip of beds  
Based on photointerpretation.

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

Horizontal beds

Strike of approximately vertical joints  
Based on photointerpretation.

Linear feature uninterpretable on photograph.  
May be geologically significant.

Mine Abandoned mine Spring

National Forest  
boundary Secondary road  
Trail



Base map modified from Soil Conservation Service map Utah  
306  
The aerial photographs used for photogeologic interpretation  
were taken in May 1953 and June 1950.  
This map is preliminary and has not been  
edited or reviewed for conformity with  
U. S. Geological Survey standards and  
nomenclature.

ELK RIDGE QUADRANGLE

4	3	2
5	6	7
12	11	10
13	14	15

PHOTOGEOLOGY BY C. F. MILLER  
SCALE 1:24,000  
REVISED DECEMBER 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 198, 1950; U. S. Geol. Survey Bull. 141, 1933;  
and U. S. Geol. Survey unpublished report (J. A. Wilford),  
Geographic and geologic field data from Prof. Paper 198 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; therefore it may not be  
beneficial of thorough evaluation with respect to maps compiled  
entirely from field data.

(CARLISLE-15)

(ELK RIDGE-7)

(MP PALE-13)

T. 32 S.

Upper Jurassic

Middle and Upper Jurassic

Upper Triassic

Lower and Middle Triassic

T. 33 S.

Anticline

Syncline

Anticline Syncline

Horizontal beds

Linear feature uninterpretable on photograph.

Mine Abandoned mine Spring

National Forest boundary Secondary road Trail

R. 21 E.

R. 22 E.

JURASSIC

JURASSIC

TRIASSIC

TRIASSIC

QUATERNARY

CRETACEOUS

CRETACEOUS

CRETACEOUS

CRETACEOUS

CRETACEOUS

CRETACEOUS

CRETACEOUS