DEPARTMENT OF THE INTERIOR
U. S. GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
ATOMIC ENERGY COMMISSION

PHOTOGEOLOGIC MAP, ELK RIDGE-11
UTAH - SAN JUAN COUNTY

TRACE ELEMENTS MEMORANDUM REPORT 819

109°52'30" 109°50'00" (ELK RIDGE-6) 109°47'30" R. 20 E. 109°45'00"
37°45'00" 37°42'30" 37°40'00" 37°37'30"
T. 35 S.

LA SAL MOUNTAINS NATIONAL FOREST

BM 7153 BM 7326 BM 8441 BM 8628 BM 8280 BM 7826 BM 8521 BM 8508
Bears Ears VA BM 9059

THE NOTCH LITTLE NOTCH BABYLON PASTURE KIGALIA POINT BUTTS POINT
PEAVINE CANYON KIGALIA CANYON HAMMOND CANYON ARCH CANYON BUTTS CANYON
MITTEN BUTTE ANTICLINE
Kigalia Ranger Station Airstrip Sawmill
UTAH 95

(ELK RIDGE-12) (ELK RIDGE-10) (ELK RIDGE-14)

EXPLANATION

- Qal — Alluvium
- 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
- PIPr — Rico formation (may include the Halgaito tongue of the Cutler formation)

Upper Triassic; Middle and Lower Triassic; TRIASSIC; QUATERNARY; PERMIAN; 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*

Probable contact

Conspicuous resistant bed within a formation — *May be traceable only locally*

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

Anticline — Showing crest line; *Dashed where approximately located*

Strike and dip of beds — *Computed by photogrammetric methods*

Approximate strike and dip of beds — *Based on photo-interpretation*

Strike of approximately vertical joints — *Based on photo-interpretation*

Linear feature uninterpretable on photograph — *May be geologically significant*

Mine

Primary road

Secondary road

Trail

Fence

Note: This map does not join Elk Ridge 12 to the west because of the use of more recent photography and more accurate plotting instruments.

Discontinuous lenses of Shinarump conglomerate may be present along the Moenkopi-Chinle contact even where not indicated on this map.

Base map modified from Soil Conservation Service map, Utah-325.

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		10	9
13	14	15	16

ELK RIDGE QUADRANGLE

TRUE NORTH 16°

PHOTOGEOLOGY BY J. C. REED, JR.
SCALE 1:24,000
0 1 MILE
JULY 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. Geographic and geologic field data from Prof. Paper 188; U.S.Geol.Survey topographic map, Elk Ridge quadrangle 1940, and U. S. Geol. Survey Trace Elements Memo Rept. 714 (unpublished).

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.