DEPARTMENT OF THE INTERIOR
U. S. GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
ATOMIC ENERGY COMMISSION

PHOTOGEOLOGIC MAP NAVAJO MOUNTAIN-7

UTAH-SAN JUAN AND KANE COUNTIES

TRACE ELEMENTS MEMORANDUM REPORT 843

KANE COUNTY

SAN JUAN COUNTY

BALANCED ROCK ANTICLINE

COLORADO RIVER

SAN JUAN RIVER

ALCOVE CANYON

WILSON MESA

NAVAJO INDIAN RESERVATION

NAVAJO INDIAN RESERVATION SAN JUAN RIVER

(NAVAJO MOUNTAIN-3) (NAVAJO MOUNTAIN-2) (NAVAJO MOUNTAIN-1)
(NAVAJO MOUNTAIN-6) (NAVAJO MOUNTAIN-8)
(NAVAJO MOUNTAIN-11) (NAVAJO MOUNTAIN-10) (NAVAJO MOUNTAIN-9)

110°45'00" 42'30" 40' 110°37'30"
37°22'30" 20' 17'30" 37°15'00"

EXPLANATION

Qal — Alluvium

Qu — Undifferentiated sand, residual mantle, and slope wash — QUATERNARY

Middle and Upper Jurassic / Lower Jurassic

Jc — Carmel formation

Jn — Navajo sandstone — JURASSIC

Jk — Kayenta formation — JURASSIC(?)

Upper Triassic

Trw — Wingate sandstone

Trcu — Upper part of Chinle formation — TRIASSIC

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.

Anticline
Showing crest line and direction of plunge

Syncline
Showing trough line and direction of plunge
Approximately located.

Strike and dip of beds
Computed by photogrammetric methods.

Approximate strike and dip of beds
Based on photointerpretation.

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

Strike of approximately vertical joints
Based on photointerpretation

Reservation boundary

County boundary

Trail

Note: This map does not join Navajo Mountain 6 (Aug. 1953) because of the use of more reliable control than was available when the adjoining map was compiled.

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

The aerial photographs used for photogeologic interpretation were taken in May 1948 and September 1952.

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

NAVAJO MOUNTAIN QUADRANGLE

15° TRUE NORTH MAGNETIC NORTH

PHOTOGEOLOGY BY H. S. BENNETT
SCALE 1:24,000
0 1 MILE
OCTOBER 1954

Stratigraphic column for this area modified from U.S. Geol. Survey Bull. 865, 1936, Geographic and geologic field data from U. S. Geol. Survey Bull. 865, 1931, U. S. Geol. Survey Prof. Paper 164, 1931, and U. S. Geol. Survey Water-Supply Paper 536, 1924.

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.