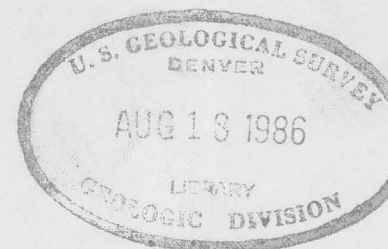


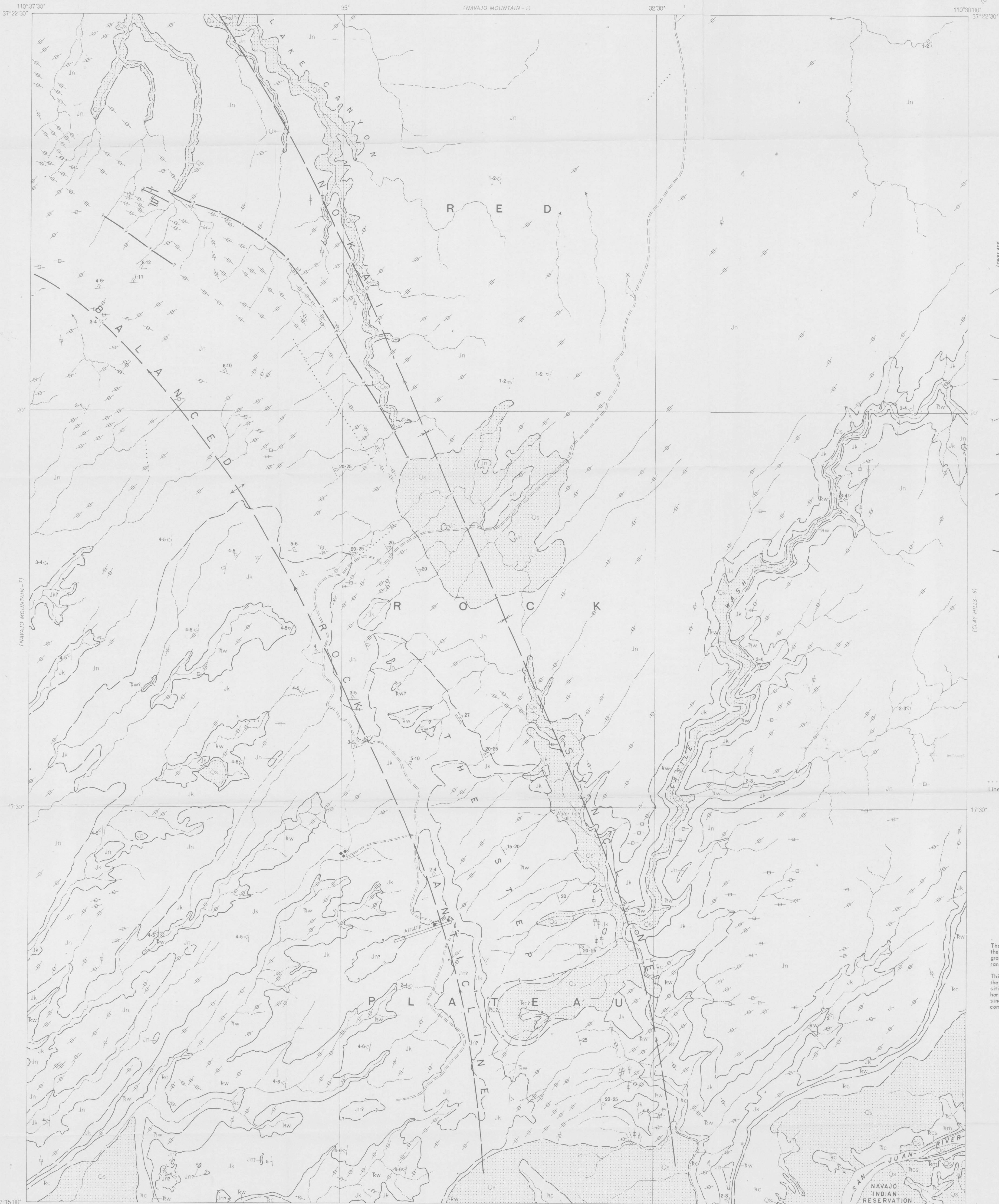
File copy
(200)
7/6/1966



PHOTOGEOLOGIC MAP, NAVAJO MOUNTAIN-8
UTAH-SAN JUAN COUNTY
TRACE ELEMENTS MEMORANDUM REPORT 962

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
U. S. ATOMIC ENERGY COMMISSION
(NAVAJO MOUNTAIN-1)



EXPLANATION

- Surficial deposits
 - Navajo sandstone
 - Kayenta formation
 - Wingate sandstone
 - Chinle formation, Rc
Shinarump member, Rcs
 - Moenkopi formation
- JURASSIC QUATERNARY
JURASSIC(?)
TRIASSIC
Upper Triassic
Lower and Middle 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.
 - Probable contact
 - Fault
U, upthrown side; D, downthrown side.
Questioned where probable.
 - Anticline
Showing crest line and direction of plunge
Approximately located
 - Syncline
Showing trough line and direction of plunge
Approximately located
 - Strike and dip of beds
Based on field measurement.
 - 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.
 - Linear feature uninterpretable on photograph
May be geologically significant.
 - Gravel pit
 - Spring
 - Reservation boundary
 - Secondary road
 - Trail

The contact between the Navajo sandstone and the Kayenta formation has been mapped stratigraphically higher in Navajo Mountain 8 quadrangle than in Navajo Mountain 7 quadrangle.

This map does not join Navajo Mountain 7, to the west. Geographic features are better positioned on Navajo Mountain 8 as more reliable horizontal control (1954) has been obtained since the base map for Navajo Mountain 7 was compiled (1952).

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

The aerial photographs used for photogeologic interpretation were taken in September 1962.

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.

4	3	2	1
5	6	7	8
12	11	10	9
13	14	15	16

NAVAJO MOUNTAIN QUADRANGLE

PHOTOGEOLOGY BY A. B. OLSON
SCALE 1:24 000
JULY 1966

This preliminary report is distributed without editorial and technical review for conformity with official standards and nomenclature. It is not for public inspection or quotation.

Stratigraphic column for this area modified from U. S. Geol. Survey Prof. Paper 229, 1935; U. S. Geol. Survey Bull. 865, 1936; and U. S. Geol. Survey Mineral Inv. Field Studies Map MF 1043 (in preparation). Geographic and geological field data from U. S. Geol. Survey Prof. Paper 188, 1938; U. S. Geol. Survey Water-Supply Paper 538, 1924; and U. S. Geol. Survey Mineral Inv. Field Studies Map MF 1043 (in preparation).

This map has been compiled mainly from photogeologic data but has not been checked in the field.