



(200)  
T672m  
NO. 523A  
PLEASE REFACE IN POCKET  
IN BACK OF BOUND VOLUME

DEPARTMENT OF THE INTERIOR  
UNITED STATES GEOLOGICAL SURVEY

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

PHOTOGEOLOGIC MAP, ORANGE CLIFFS-11  
UTAH - GARFIELD AND WAYNE COUNTIES  
TRACE ELEMENTS MEMORANDUM REPORT 523-A

EXPLANATION

- QUATERNARY
- Qs Surficial deposits
  - Je Entrada sandstone (?)
  - Jc Carmel formation
- JURASSIC
- Jn Navajo sandstone
  - Jk Kayenta formation
  - Tw Wingate sandstone
  - Tc Chinle formation
  - Ts Shinarump conglomerate
  - Rm Moenkopi formation
- 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
- Resistant bed within a formation  
May be traceable only locally.
- Fault  
Showing direction of dip  
U, upthrown side; D, downthrown side  
Dashed where 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.
- Spring
- County boundary
- Secondary road
- Trail



Base map from U. S. Geological Survey topographic map, Orange Cliffs 3 NE quadrangle.  
The aerial photographs used in photogeologic interpretation were taken in May 1948 and October 1950.  
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

ORANGE CLIFFS  
QUADRANGLE

PHOTOGEOLOGY BY R. G. RAY  
SCALE 1:24,000  
REVISED AUGUST 1955

*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 Bull. 951, 1946, geographic and geologic field data from Bull. 951 and U. S. Geol. Survey topographic map, Orange Cliffs 3 NE quadrangle, 1953.

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.