



**EXPLANATION**

Covering deposits, undifferentiated  
(Largely wind-blown sand and alluvium)

Upper

Middle and Upper

Jc  
Entrada sandstone

Jn  
Carmel formation

Jk  
Navajo sandstone

Jw  
Kayenta formation

Jw  
Wingate sandstone

Rc  
Chinle formation

Rs  
Shinarump conglomerate

Tm  
Moenkopi formation

CONTACT

(Can be accurately located  
within 30 feet horizontally)

CONTACT

(Can be approximately located  
within 30 to 200 feet horizontally)

CONTACT

(Cannot be located accurately;  
probable error greater than 200 feet)

Probable or doubtful contact

FAULT

(Approximately located)  
(U, upthrown side; D, downthrown side)

Inferred strike and dip of beds  
(Based on photo-interpretation)

Conspicuous resistant bed within  
a formation  
(May be traceable only locally)

Strike of approximately vertical  
joints  
(Based on photo-interpretation)

Uninterpretable linear feature  
on photograph  
(May be geologically significant)

Spring

Secondary road

Trail

PLANIMETRIC BASE MAP COMPILED FROM VERTICAL  
AERIAL PHOTOGRAPHS BY U. S. GEOLOGICAL SURVEY  
BY RADIAL-TEMPLET METHODS

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

ORANGE CLIFFS  
QUADRANGLE

**PHOTOGEOLOGIC MAP  
ORANGE CLIFFS - 7  
WAYNE COUNTY, UTAH**

PHOTOGEOLOGY BY W. R. HEMPHILL  
PHOTOGEOLOGY UNIT, ALASKAN GEOLOGY BRANCH  
SCALE 1:24,000

MARCH 1953

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 Bull. 951, 1946.