



EXPLANATION

- Covering deposits, undifferentiated
- Newajo sandstone
- Kayenta formation
- Wingate sandstone
- Chinle formation
- Shinarump conglomerate
- Moenkopi formation
- Cutler formation
- White Rim sandstone member, Pcw
- Organ Rock tongue, Pcor
- Cedar Mesa sandstone member, Pcc
- Rico formation
- Hermosa 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, showing direction of dip**  
(U, upthrust side; D, downthrust side. Dashed where approximately located)

**Probable or doubtful fault**

**Strike and dip of beds**  
(Computed by photogrammetric methods)

**Strike and dip of beds**  
(Based on photo-interpretation)

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

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

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

**Uninterpretable linear feature on photograph**  
(May be geologically significant)

**Spring**

**County boundary**

**Secondary road**

**Trail**

Note: The geographic position of this map area is based on control that was not available at the time the adjoining photogeologic map (Orange Cliffs 14) was compiled. This map, therefore, does not properly join, but overlaps Orange Cliffs 14 to the west.

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

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

ORANGE CLIFFS QUADRANGLE

PHOTOGEOLOGIC MAP  
ORANGE CLIFFS - 15  
GARFIELD AND SAN JUAN COUNTIES, UTAH

PHOTOGEOLOGY BY B. M. KENT AND W. H. CONDON  
PHOTOGEOLOGY UNIT, ALASKAN GEOLOGY BRANCH  
SCALE 1:24,000  
JUNE 1963

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.

This map is preliminary and has not been edited or reviewed for conformity with U.S. Geological Survey standards and nomenclature.