



EXPLANATION

- | | |
|--|---|
| | <p>Alluvium, Qal;
covering deposits, undifferentiated Qc</p> |
| | <p>Jc
Carmel formation</p> |
| | <p>Jn
Navajo sandstone</p> |
| | <p>Jk
Kiyanta formation</p> |
| | <p>Jw
Wingate sandstone</p> |
| | <p>Tc
Chinle formation</p> |
| | <p>Ts
Shinarump conglomerate</p> |
| | <p>Tm
Moenkopi formation</p> |
| | <p>Pcw
Pcor
Pcc
Cutler formation
White Rim sandstone member, Pcw;
Organ Rock tongue, Pcor;
Cedar Mesa sandstone member, Pcc</p> |

- |--- 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
- ↘ ↙ Strike and dip of beds
(Based on photo-interpretation)
- ⊕ Inferred strike and dip of beds
(Based on photo-interpretation)
- ⊕ Horizontal beds
- ↘ ↙ Strike of approximately vertical joints
(Based on photo-interpretation)
- |--- Conspicuous resistant bed within a formation
(May be traceable only locally)
- |--- County boundary

Note: Between the top of the white, jointed, cross-bedded White Rim sandstone member and the lowest dark-colored beds of the Moenkopi formation is a unit, in part covered, that appears white to light gray on aerial photographs. On this map this unit is included in the Moenkopi formation. On Carlsle-5 it is mapped as part of the White Rim sandstone member.

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

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

ORANGE CLIFFS QUADRANGLE

PHOTOGEOLOGIC MAP
ORANGE CLIFFS - 8
WAYNE AND SAN JUAN COUNTIES, UTAH
PHOTOGEOLOGY BY W. R. HEMPHILL
PHOTOGEOLOGY UNIT, ALASKAN GEOLOGY BRANCH
SCALE 1:24,000
MAY 1963

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.