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no. 738

DEPARTMENT OF THE INTERIOR  
U. S. GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE  
ATOMIC ENERGY COMMISSION

PHOTOGEOLOGIC MAP, ORANGE CLIFFS-16  
UTAH - GARFIELD AND SAN JUAN COUNTIES  
TRACE ELEMENTS MEMORANDUM REPORT 738



EXPLANATION

- Valley fill and alluvium, Qal; covering deposits undifferentiated, Qc
- Navajo sandstone, Jn
- Kayenta formation, Jk
- Wingate sandstone, Jw
- Chinle formation, Rc
- Shinarump conglomerate, Ts
- Moenkopi formation, Rm
- Cutler formation, Pcu
- Unnamed unit, Pcu
- White Rim sandstone member, Pcw
- Organ Rock tongue, Pcor
- Cedar Mesa sandstone member, Pcc
- Rico formation, PPr
- Hermosa formation, Ph

- 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
- Fault: U, upthrown side; D, downthrown side; Dashed where approximately located
- Probable or doubtful fault
- Approximate 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
- County boundary
- Trail

Note: The uppermost separable unit of the Cutler formation overlies the White Rim sandstone member. This unnamed unit, lithologically similar to the Organ Rock tongue, is indistinct photogeologically, but its approximate horizon has been extended from points where the unit is known within the quadrangle. The unit is inseparable on aerial photographs from the bleached lower beds of the Moenkopi formation near Teapot Rock and vicinity, but is at least locally present as reported near the prominent spur north of Teapot Rock (U. S. Geol. Survey Bull. 951). Its presence is doubtful where the White Rim sandstone member thickens to the north and south of this spur.

MANOMETRIC BASE MAP COMPILED BY U. S. GEOLOGICAL SURVEY FROM VERTICAL ALTIMETRIC PHOTOGRAPHS BY PAUL A. TEMPLET 11/17/55

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

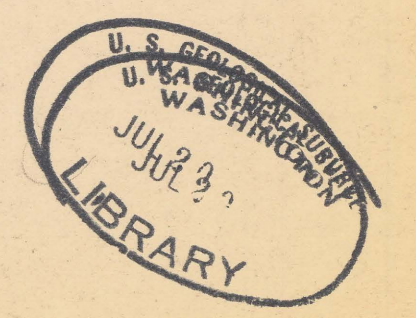
ORANGE CLIFFS QUADRANGLE

PHOTOGEOLOGY BY J. N. PLATT  
SCALE 1:24,000  
FEBRUARY 1954

Stratigraphic column for this area modified from U.S. Geol. Survey Bull. 961 (1946). Geographic and geologic field data also 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.

Utah (Orange Cliffs 16 quad.) Geol. 1:24,000  
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