

Y3. At 7:22/TEM-665

Fig 1

TEM 665 C.2

TEMR 665  
 "PHOTOGEOLOGIC MAP, ORANGE  
 CLIFFS -1 QUADRANGLE  
 WAYNE AND SAN JUAN COUNTIES,  
 UTAH."  
 By P. P. Orkild

WITHDRAWN



Cat. No. 52982



SEP 17 1991

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IN REPLY REFER TO:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
WASHINGTON 25, D. C.

007-6756

AEC - 249/4

Dr. Phillip L. Merritt, Assistant Director  
Division of Raw Materials  
U. S. Atomic Energy Commission  
P. O. Box 30, Ansonia Station  
New York 23, New York

Dear Phil:

Transmitted herewith are two copies of TEM-665, "Photogeologic map, Orange Cliffs-1 quadrangle, Wayne and San Juan Counties, Utah," by P. P. Orkild. This map of part of the Colorado Plateau area is one of the series of 7½-minute photogeologic maps that are being prepared.

We are asking Mr. Hosted to approve our plan to place this map on open file.

Sincerely yours,

*Dwight M. Lammon*  
for W. H. Bradley  
Chief Geologist

metadc1393479

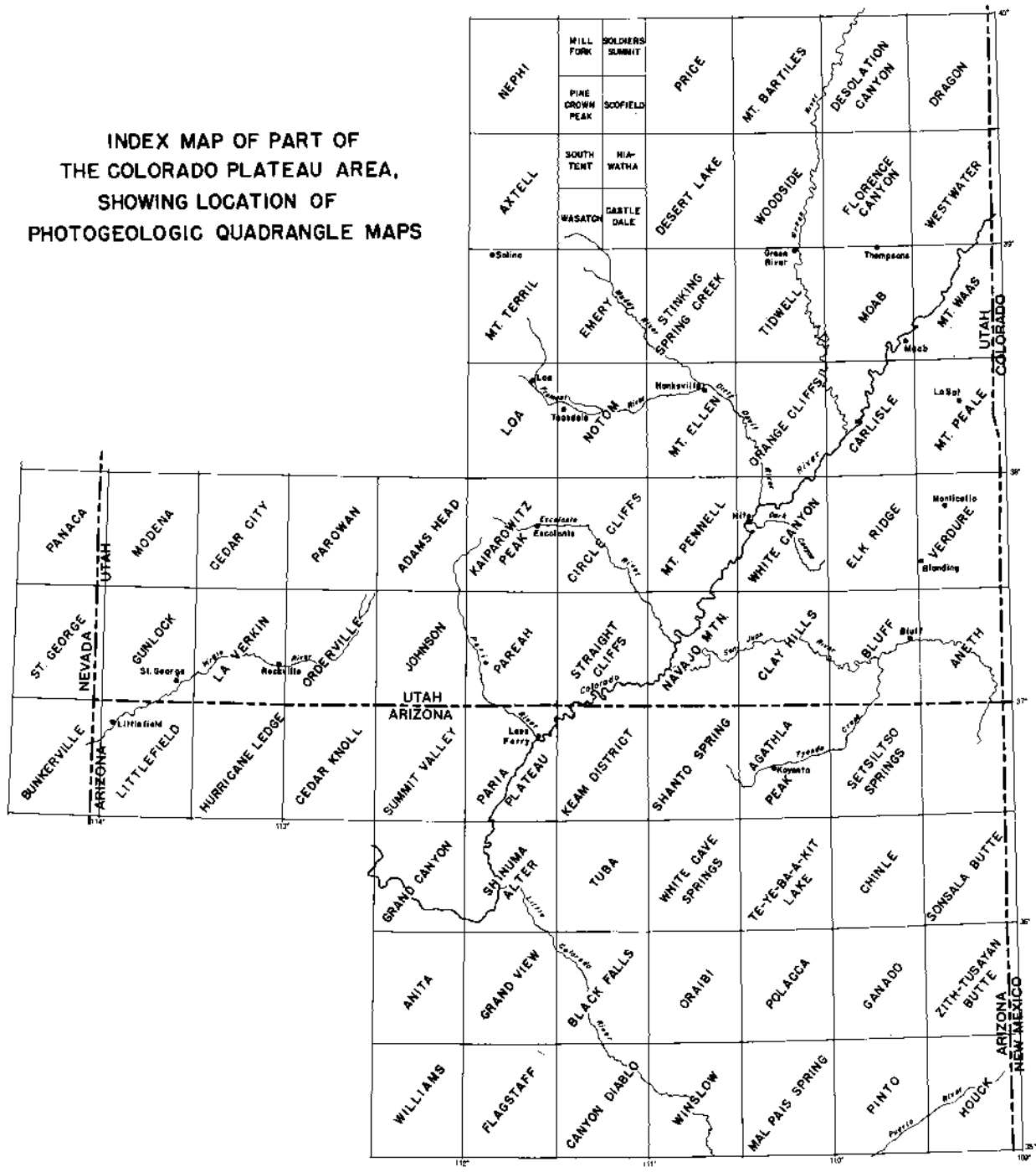


USGS - TEM-665

GEOLOGY AND MINERALOGY

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INDEX MAP OF PART OF  
THE COLORADO PLATEAU AREA,  
SHOWING LOCATION OF  
PHOTOGEOLOGIC QUADRANGLE MAPS







**EXPLANATION**

Qa, Qc	Quaternary
Valley fill and alluvium, Qa; covering deposits, undifferentiated, Qc	
Upper	Jurassic
Je	Entrada sandstone
Jc	Carmel formation
Jn	Navajo sandstone
Jk	Kayenta formation
Jw	Wingate sandstone
Lower	Jurassic (?)
Rc	Chinle formation
Rs	Shinarump conglomerate
Rm	Moenkopi formation
Pcw	White Rim sandstone member of the Cutler formation
	Permian

**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 fault**

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

**Inferred strike and dip of beds**  
(Based on photo-interpretation of areas where bedding is obscure)

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

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

**County boundary**

**Trail**

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 Carlisle-4 it is mapped as part of the White Rim sandstone member.

Maps of this series have been compiled mainly from photogeologic data but have not been checked in the field; hence they have not had the benefit of thorough evaluation with respect to maps compiled entirely from field data.

Planimetric base map compiled by U.S. Geological Survey from vertical aerial photographs. Planimetry and geology transferred from photographs by stereoscopic plotter.

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

ORANGE CLIFFS QUADRANGLE



**PHOTOGEOLOGIC MAP**  
**ORANGE CLIFFS - 1**  
**WAYNE AND SAN JUAN COUNTIES, UTAH**  
PHOTOGEOLOGY BY P. P. ORKILD  
SCALE 1:24,000  
AUGUST 1963

Roads as classified on this map are shown as follows: Primary roads are indicated by solid lines, secondary roads by dashed lines, and tertiary roads by dotted lines. All roads are not necessarily shown. Some roads are shown as dashed lines, but are not necessarily shown. Some roads are shown as dotted lines, but are not necessarily shown. Some roads are shown as solid lines, but are not necessarily shown.

Stratigraphic column for this area modified from U.S. Geol. Survey Bull. 951, 1946. Geographic and geologic field data from U.S. Geol. Survey Bull. 351 (1946) and Bull. 908 (1940).

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



