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TEM 618 C.2

TEM-618
PHOTOGEOLOGIC MAP, ORANGE
CLIFFS-10 QUADRANGLE, WAYNE
AND GARFIELD COUNTIES, UTAH
by
CONDON

WITHDRAWN

MAIL AND RECORDS

CRM

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SEP 17 1991

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IN REPLY REFER TO:

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

JUL - 2 1953

AEC - 1193/3

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-618, "Photogeologic map, Orange Cliffs-10 quadrangle, Wayne and Garfield Counties, Utah," by W. H. Condon. This map of part of the Colorado Plateau area is one of the series of 7 $\frac{1}{2}$ -minute photogeologic quadrangle maps that are being prepared.

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

Sincerely yours,

for W. H. Bradley
Chief Geologist

metadc1393475

USGS - TEM-618

GEOLOGY AND MINERALOGY

<u>Distribution (Series A)</u>	<u>No. of copies</u>
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INDEX MAP OF PART OF
THE COLORADO PLATEAU AREA,
SHOWING LOCATION OF
PHOTOGEOLOGIC QUADRANGLE MAPS

U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
ATOMIC ENERGY COMMISSION

COMPILATION OF PHOTOGEOLOGY AND SURFACE GEOLOGY
COLORADO PLATEAU AREA, UNITED STATES

TRACE ELEMENTS MEMORANDUM REPORT 618

EXPLANATION

Upper	Je	Covering deposits, undifferentiated (largely residuum and slope wash)	QUATERNARY
Middle	Jc	Entrada sandstone	JURASSIC
Lower	Jn	Carmel formation	JURASSIC (?)
	Jk	Navajo sandstone	JURASSIC (?)
	Jw	Kayenta formation	JURASSIC (?)
	Jr	Wingate sandstone	JURASSIC (?)
Upper	Rc	Chinle formation	TRIASSIC
	Rs	Shinarump conglomerate	TRIASSIC
Lower	Rm	Moenkopi formation	TRIASSIC

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
(U, upthrown side; D, downthrown side
Dashed where approximately located)

Probable or doubtful fault

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

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)

Dry hole

Spring

Secondary road

Trail

County boundary
(Approximate location)

Note: Uninterpretable linear features on this map are probably faults with insufficient surface expression to be mapped.

Planimetry and geologic contacts at the boundary of this map with Orange Cliffs-II do not match, owing to inaccurate horizontal control for base map of Orange Cliffs-II.

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-10
WAYNE AND GARFIELD COUNTIES, UTAH

PHOTOGEOLOGY BY W. H. CONDON
PHOTOGEOLOGY UNIT, ALASKAN GEOLOGY BRANCH

SCALE 1:24,000

APRIL 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. 961, 1946.

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