Y3. At 7:22/TEM-530

Cy 2

TEM 530 PHOTOGEOLOGIC MAP
STINKING SPRING-6 QUADRANGLE
EMERY COUNTY, UTAH, by
Hemphill

MURKIN

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

IN REPLY REFER TO:

APR 29 1953

AEC - 693/3

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

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Dear Phil:

Transmitted herewith are two copies of Trace Elements Memorandum Report 530, "Photogeologic map, Stinking Spring Creek-6 quadrangle, Emery County, Utah," by W. R. Hemphill. This map of part of the Colorado Plateau area is one of the series of 7½-minute photogeologic quadrangle maps that are being prepared.

In order to make the information available to the public, we plan to place this map on open file. We are asking Mr. Hosted whether the Commission has any objection to this plan.

Sincerely yours,

W. E. McKelvey
for W. H. Bradley
Chief Geologist

metadc1393458

USGS - TEM Report 530

GEOLOGY - MINERALOGY

<u>Distribution (Series A)</u>	<u>No. of copies</u>
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	<hr/> 30

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

EXPLANATION

- Qal Alluvium and slope wash
 - Jk Navajo sandstone
 - Jk Kayenta formation
 - Jw Wingate sandstone
 - Rc Chinle formation
 - Ts Shinarump conglomerate
 - Rm3 Moenkopi formation upper unit, Rm3
 - Rm2 Moenkopi formation middle unit, Rm2
 - Rm1 Moenkopi formation lower unit, Rm1
 - Pk Kaibab limestone
- Quaternary
- JURASSIC (?)
- TRIASSIC
- PERMIAN
- Upper
- Lower
- 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 contact
- Fault
(U, upthrown side, D, downthrown side)
(Dashed where approximately located)
- Probable or doubtful fault
- Anticline
Showing trace of axial plane and direction of plunge
(Approximately located)
- Syncline
Showing trace of axial plane and direction of plunge
(Approximately located)
- Strike and dip of beds
(Based on photo-interpretation)
- Strike of approximately vertical joints
(Based on photo-interpretation)
- Primary road
- Secondary road

Note: On aerial photographs the Moenkopi formation in the San Rafael Swell region can be divided into three units. Unit 2 is believed to be equivalent to the Sinbad limestone member of the Moenkopi formation. Numbers designating parts of the Moenkopi formation as used on this map apply only to the San Rafael Swell region and do not imply correlation with subdivisions of the Moenkopi formation in other areas.

Locally within the area of this map, the Kaibab limestone cannot be distinguished from the Moenkopi formation on aerial photographs. Therefore its distribution as shown must be considered unreliable.

PHOTOGEOLOGIC MAP
STINKING SPRING CREEK-6
EMERY COUNTY, UTAH

PHOTOGEOLOGY BY W. R. HEMPHILL
PHOTOGEOLOGY UNIT, ALASKAN GEOLOGY BRANCH
SCALE 1:24,000
NOVEMBER 1952

Stratigraphic column modified from
U. S. Geol. Survey Bull. 806c, 1929.