USGS - TEM-815

GEOLOGY AND MINERALOGY

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

PHOTOGEOLOGIC MAP, TIDWELL -7
UTAH - EMERY AND GRAND COUNTIES
TRACE ELEMENTS MEMORANDUM REPORT 815

The map includes a legend with the following symbols and descriptions:

- Quaternary:** Alluvium (Qa), terrace deposits (Qt), covering deposits, undifferentiated (Qc).
- Cretaceous:**
 - Upper unit: Kbu
 - Lower unit: Kbl
 - Probable equivalent of Burro Canyon formation
- Jurassic:**
 - Summerville formation: Jmbb, Jms
 - Curtis formation: Js
 - Entrada sandstone: Jcu
 - Carmel formation: Je, Jc

Geological Features and Symbols:

- Contact:** Can be located within 30 feet horizontally.
- Contact:** Can be located within 30 to 200 feet horizontally.
- Contact:** Cannot be located accurately, probable error greater than 200 feet horizontally.
- Probable contact:** Indicated by a dashed line with question marks.
- Resistant bed within a formation:** May be traceable only locally.
- Fault:** Dashed where approximately located; U, upthrown side; D, downthrown side.
- Anticline:** Minor fold showing plunge.
- Syncline:** Minor fold showing plunge.

Stratigraphic and Structural Symbols:

- Strike and dip of beds:**
 - Based on field measurement (Symbol 1)
 - Computed by photogrammetric methods (Symbol 2)
 - Approximate strike and dip of beds Based on photo-interpretation (Symbol 3)
 - Inferred strike and dip of beds Based on photo-interpretation of areas where bedding is obscure (Symbol 4)

Linear Features:

- Linear feature uninterpretable on photogrammetry: May be geologically significant.
- Spring
- Irrigation ditch
- County boundary
- Primary road
- Secondary road
- Trail
- Fence

Note: The lower unit of the probable equivalent of the Burro Canyon formation is believed to be the Buckhorn conglomerate of Stokes, and the upper unit, the Cedar Mountain shale of Stokes (Geol. Soc. America Bull., vol. 55, 1944).

The aerial photographs used for photogeologic interpretation were taken in July and August 1962.

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

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

TIDWELL
QUADRANGLE

PHOTO GEOLOGY BY V. H. SABLE
SCALE 1:24,000
JUNE 1954

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 unpublished section by L. C. Craig, U.S. Geol. Survey Bull. 951, 1946, and U. S. Geol. Survey Bull. 908, 1940; geographic and geologic field data also from Bulls. 361 and 908.

Maps of this series have been compiled mainly from photographic 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.