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DEPARTMENT OF THE INTERIOR UNITED STATES GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE U. S. ATOMIC ENERGY COMMISSION

TRACE ELEMENTS MEMORANDUM REPORT 958

(VIRGIN SW)



EXPLANATION

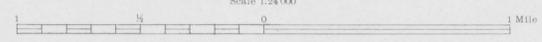
- SEDIMENTARY ROCKS**
- QUATERNARY**
 - Surficial deposits (Os)
- TRIASSIC**
 - Shinarump member of the Chinle formation (Rcs)
 - Moenkopi formation, Tm; Upper red member, Tmu; Shnabkaib member, Tms; Middle red member, Tmm; Virgin limestone member, Tmv; Lower red member and T'hpowap conglomerate member, undifferentiated, Tml
- PERMIAN**
 - Kalibab limestone (Pk)
 - Torowasp formation (Pt)
- IGNEOUS ROCKS**
- TERTIARY QUATERNARY**
 - Volcanic rocks (QTV)
- Contact**
 - Can be located within 30 feet horizontally (solid line)
 - Can be located within 30 to 200 feet horizontally (dashed line)
 - Cannot be located accurately, probable error greater than 200 feet horizontally (dotted line)
- Resistant bed within a formation**
 - May be traceable only locally (dash-dot line)
- Fault**
 - U, upthrown side; D, downthrown side. Dashed where approximately located; dotted where concealed.
- Anticline**
 - Showing crest line and direction of plunge. Approximately located.
- Syncline**
 - Showing trough line and direction of plunge. Approximately located.
- Strike and dip of beds**
 - Computed by photogrammetric methods (triangle with numbers)
 - Approximate strike and dip of beds. Based on photointerpretation (triangle with numbers)
 - Inferred strike and dip of beds. Based on photointerpretation of areas where bedding is obscure (triangle with numbers)
 - Strike of approximately vertical joints. Based on photointerpretation (triangle with numbers)
- Linear feature uninterpretable on photograph**
 - May be geologically significant (dotted line)
- Photogrammetric measurement of stratigraphic thickness, in feet**
 - (arrow with number)
- Irrigation ditch** (solid line with cross-ticks)
- Slate boundary** (solid line with cross-ticks)
- Secondary road** (dashed line)
- Trail** (dotted line)
- Fence** (line with cross-ticks)

Base map compiled by U. S. Geological Survey from vertical aerial photographs. The aerial photographs used for photogeologic interpretation were taken in September and October 1939, October 1940, and 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.

HURRICANE CLIFFS-2 15-MINUTE QUADRANGLE

PHOTOGEOLOGIC MAP OF THE HURRICANE CLIFFS-2 NE QUADRANGLE MOHAVE COUNTY, ARIZONA

By C. H. Marshall Scale 1:24,000



June 1956

This preliminary report is distributed without editorial and technical review for conformity with official standards and nomenclature. It is not for public inspection or quotation.

Stratigraphic column for this area modified from Geol. Soc. America Mem. 61, 1954; U. S. Geol. Survey Prof. Paper 220, 1950; and Carnegie Inst. Washington Pub. 492, 1938. Geographic and geologic field data also from Prof. Paper 220. This map has been compiled mainly from photogeologic data and has not been checked in the field.

(LOST SPRING M.T.N. SW)