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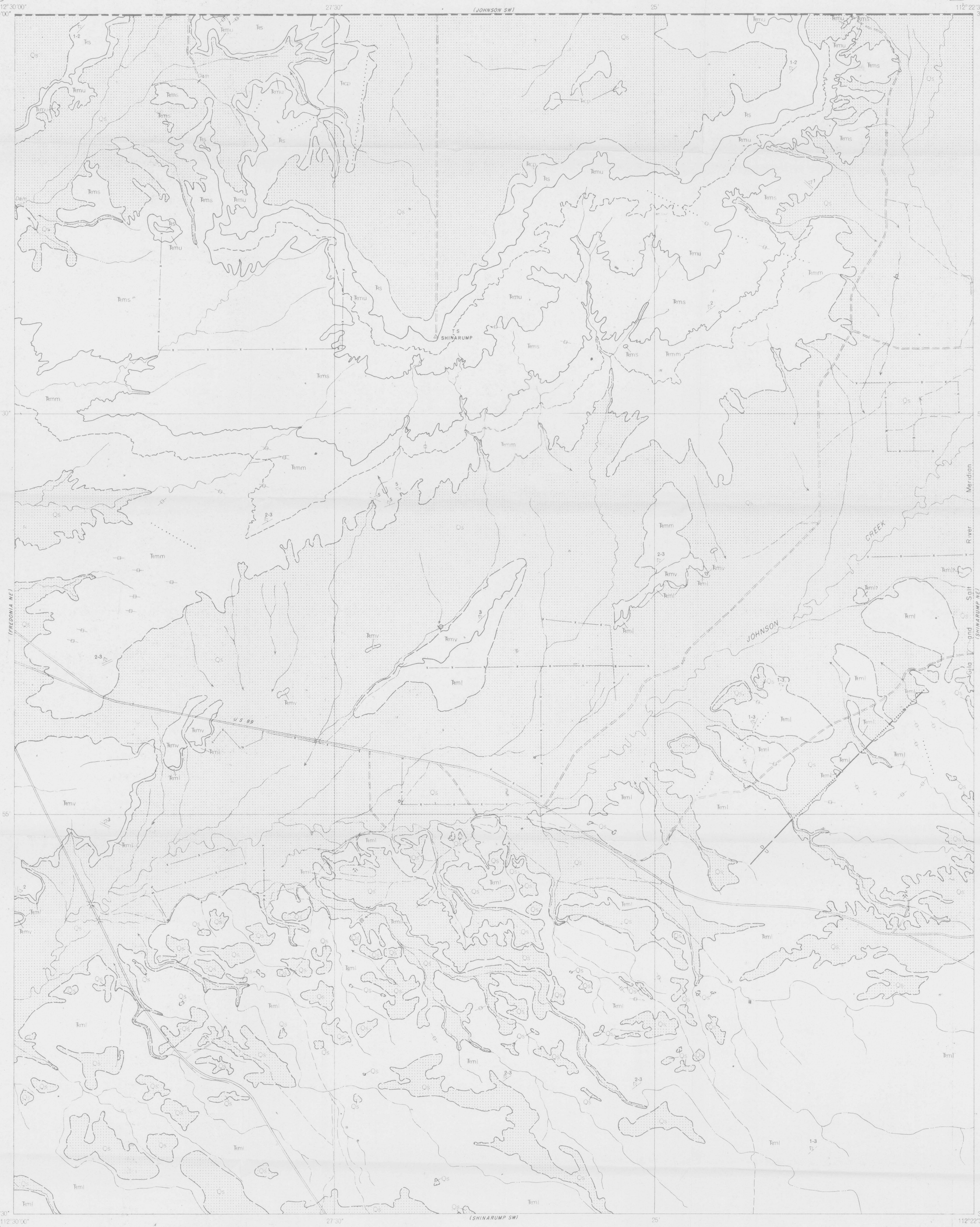
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

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

PHOTOGEOLOGIC MAP, SHINARUMP NW
ARIZONA-COCONINO COUNTY
TRACE ELEMENTS MEMORANDUM REPORT 850



EXPLANATION

QUATERNARY

Qs — Surficial deposits

TRIASSIC

Upper Triassic

Trcp — Petrified Forest member of the Chinle formation

Trs — Shinarump conglomerate

Lower and Middle(?) Triassic

Trmu, Trms, Trmm, Trmv, Trml — Moenkopi formation
Upper red member, Trmu;
Shnabkaib member, Trms;
Middle red member, Trmm;
Virgin limestone member, Trmv;
Lower red member and
Timpoweap conglomerate member,
undifferentiated, Trml

Contact
Can be located within 30 feet horizontally.

Contact
Cannot be located accurately; probable error greater than 200 feet horizontally.

Resistant bed
within a formation
May be traceable only locally.

Fault
Dashed where approximately located; dotted where concealed. U, upthrown side; D, downthrown side.

Syncline
Minor fold showing plunge.

Strike and dip of beds
Computed by photogrammetric methods.

Approximate strike and dip of beds
Based on photointerpretation.

Strike of approximately vertical joints
Based on photointerpretation.

Linear feature uninterpretable on photograph
May be geologically significant.

Quarry

Irrigation ditch

State boundary

Primary road

Secondary road

Trail

Fence

Base map compiled by U. S. Geological Survey from vertical aerial photographs.

The aerial photographs used for photogeologic interpretation were taken in August, September, and October 1939, October, 1949, and 1953.

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

NW | NE
SW | SE
SHINARUMP
15-MINUTE QUADRANGLE

15½°
TRUE NORTH
MAGNETIC NORTH

PHOTOGEOLOGY BY R. H. MORRIS
SCALE 1:24,000
0 — 1 MILE

MARCH 1955

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 Geol. Soc. America Mem. 61, 1954, and unpublished section by L. C. Craig and T. E. Multer. Geographic and geologic field data from U. S. Geol. Survey Prof. Paper 220, 1950; and F.W.A., Public Roads Adm., Ariz. Transp. Map, Coconino Co., 2, 1944.

This map has been compiled mainly from photogeologic data but has not been checked in the field; hence it has not had the benefit of thorough evaluation with respect to maps compiled entirely from field data.